

**Port of Seattle
Lora Lake Apartments Site**

**Remedial Investigation/
Feasibility Study**

Volume I

**Appendix D
Historical Environmental Investigation
Data Tables**

FINAL

Table of Contents

This appendix contains soil and groundwater data tables from reports documenting previous investigations conducted at the Lora Lake Apartments Site.

Lora Lake Apartments Focused Environmental Site Assessment (GeoSciences Management 2007)

Table 1.	Summary of Chemical Analyses
Table 2.	Summary of Hydrocarbon Data
Table 3.	Summary of Volatile Organics Analysis Data
Table 4.	Summary of SemiVolatile Organic Compounds Analysis Data
Table 5.	Summary of Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) Analysis Data
Table 6.	Summary of PCDD / PCDF Analysis Data
Table 7.	Summary of Metals Analyses Data

Summary Report—2008 Investigations and Data Gap Evaluation, Lora Lakes Apartments (AECOM 2009a)

Table F-3-1	Geoprobe Soils Analytical Results: Metals, PCBs, SVOCs, VOCs, and TPH
Table F-3-2	Geoprobe Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ)
Table F-3-3	Geoprobe Soils Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ)
Table F-3-4	Monitoring Well Soils Analytical Results: Metals, VOCs, SVOCs, TPH
Table F-3-5	Monitoring Well Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotients (TEQ)
Table F-3-6	Monitoring Well Soils Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ)
Table F-4-1	Groundwater Analytical Results: Metals, VOCs, SVOCs, TPH (March 2008)
Table F-4-2	Groundwater Analytical Results: Dioxin-Furan Total Equivalency Quotient (TEQ) (March 2008)
Table F-4-3	Groundwater Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ) (March 2008)
Table F-4-4	Groundwater Analytical Results: Metals, PCP, PAHs, TPH-Dx, Hardness and pH (August 2008)

- Table F-4-5 Groundwater Analytical Results: Total Metals Results Compared to Surface Water Toxic Substance Criteria (WAC 173-201A-240) (August 2008)
- Table F-4-6 Groundwater Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ) (August 2008)
- Table F-4-7 Groundwater Analytical Results: Metals, PCP, TPH-Dx and Conventionals (December 2008)
- Table F-4-8 Groundwater Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotients (TEQ) (December 2008)

Phase II Environmental Site Assessment Parcel 30R (Pinnacle Geosciences 2009)

- Table 1 Summary of Soil and Ground Water Sample Data and Field Screening Results
- Table 2 Summary of Analytes of Concern in Soil
- Table 3 Soil Results Summary – Carcinogenic PAHs Soil Sample Analyses
- Table 4 Soil Results Summary – Dioxins and Furans Soil Sample Analyses

**Lora Lake Apartments
Focused Environmental Site Assessment
Soil and Groundwater Data Tables**

Table 1. Summary of Chemical Analyses

**Lora Lake Apartments Focused
Environmental Site Assessment**

Sample ID	Analytical Laboratory	Lab Report Number	Sample Date	NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	PCBs	PCDDs / PCDFs	RCRA Metals	Arsenic Only	Pentachlorophenol
Geoprobe Soil Samples												
LLP-2-6.5	OnSite	07-209-03	7/24/2007	--	X	--	--	--	--	--	X	--
LLP-2-17	OnSite	07-209-05	7/24/2007	--	X	--	--	--	--	--	--	--
LLP-3-6	OnSite	07-209-06	7/25/2007	--	X	--	--	--	--	--	X	--
LLP-4-6.5	OnSite	07-209-08	7/25/2007	--	X	--	--	--	--	--	--	--
LLP-4-14.5	OnSite	07-209-09	7/25/2007	X	X	X	X	X	--	X	--	--
LLP-5-15.5	OnSite	07-209-10	7/25/2007	X	X	X	X	X	--	X	--	--
LLP-6-6.5	OnSite	07-209-11	7/25/2007	--	X	--	--	--	--	--	--	--
LLP-6-14.5	OnSite	07-209-12	7/25/2007	--	X	--	--	--	--	--	--	--
Geoprobe Groundwater Samples												
LLP-2 Water	OnSite	07-209-18	7/24/2007	--	X	--	--	--	--	--	--	--
LLP-3 Water	OnSite	07-209-19	7/25/2007	--	X	--	--	--	--	--	--	--
LLP-4 Water	OnSite	07-209-21	7/25/2007	X	X	X	X	X	--	X	--	--
LLP-5 Water	OnSite	07-209-22	7/25/2007	X	X	X	X	X	--	X	--	--
LLP-6 Water	OnSite	07-209-23	7/25/2007	--	X	--	--	--	--	--	--	--
LLP-8 Water	OnSite	07-209-25	7/25/2007	X	X	X	X	X	--	X	--	--
LLP-9 Water	OnSite	07-209-26	7/25/2007	X	X	X	X	X	--	X	--	--
Well MW-1 Soil Samples												
MW-1-7	CAS	K0710957-002	10/25/2007	X	X	--	X	--	X	--	--	--
MW-1-14	CAS	K0710957-003	10/25/2007	X	X	--	X	--	X	--	--	--
Well MW-1 Groundwater Samples												
MW-1	CAS	K0710957-001	11/7/2007	X	X	--	X	--	X	--	--	--
MW-1	CAS	K0711491-001	12/5/2007	X	X	X	X	--	--	--	--	X
<p>Comments:</p> <p>NWTPH-Gx means gasoline-range organics</p> <p>NWTPH-Dx means diesel- and oil-range organics</p> <p>VOCs means Volatile Organic Compounds by EPA Method 8260B</p> <p>SVOCs means Semi-volatile Organic Compounds by EPA Method 8270D-SIM</p> <p>PCBs means polychlorinated biphenols by EPA Method 8082</p> <p>PCDDs / PCDFs means polychlorinated dibenzodioxins and polychlorinated dibenzofurans by HRGC/HRMS</p> <p>RCRA means total metals in soil EPA Methods 6010B/7471A, and dissolved metals in groundwater, EPA Methods 200.8/7470A.</p> <p>Arsenic by EPA Method 6010B.</p> <p>Pentachlorophenol by EPA Method 8151A Modified</p> <p>-- means not analyzed for particular analytes</p> <p>OnSite means OnSite Environmental, Inc.</p> <p>CAS means Columbia Analytical Services, Inc.</p>												

**Lora Lake Apartments Focussed
Environmental Site Assessment**

Table 2. Summary of Hydrocarbon Data

Sample ID/Depth (ft.)	Lab ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Oil
Geoprobe Soil Samples			Reported Concentrations in (mg/Kg)						
LLP-2-6.5	07-209-03	7/24/2007	--	--	--	--	--	1,300	9,800
LLP-2-17	07-209-05	7/24/2007	--	--	--	--	--	ND(<27)	180
LLP-3-6	07-209-06	7/25/2007	--	--	--	--	--	160	1,100
LLP-4-6.5	07-209-08	7/25/2007	--	--	--	--	--	100	930
LLP-4-14.5	07-209-09	7/25/2007	ND(<0.11)	0.620	1.4	12.5	1,900	6,000	17,000
LLP-5-15.5	07-209-10	7/25/2007	ND(<0.0011)	ND(<0.0011)	ND(<0.0011)	ND(<0.0022)	ND(<11)	39	160
LLP-6-6.5	07-209-11	7/25/2007	--	--	--	--	--	75	240
LLP-6-14.5	07-209-12	7/25/2007	--	--	--	--	--	ND(<28)	ND(<56)
Well MW-1 Soil Samples			Reported Concentrations in (mg/Kg)						
MW-1-7	K0710957-002	10/25/2007	Awaiting transmittal of lab data				2.7 J	30 H	170 O
MW-1-14	K0710957-003	10/25/2007					1,000 Y	8,900 DY	12,000 DL
MTCA Method A Cleanup Levels - Soil			0.03	7	6	9	30/100 *	2,000	
Sample ID/Depth (ft.)	Lab ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Oil
Geoprobe Groundwater Samples			Reported Concentrations in (ug/L)						
LLP-2 Water	07-209-18	7/24/2007	--	--	--	--	--	6,700	7,800
LLP-3 Water	07-209-19	7/25/2007	--	--	--	--	--	280	710
LLP-4 Water	07-209-21	7/25/2007	0.72	8.1	4.8	50	2,000	1,100	1,300
LLP-5 Water	07-209-22	7/25/2007	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.40)	220	440	690
LLP-6 Water	07-209-23	7/25/2007	--	--	--	--	--	1,500	1,300
LLP-8 Water	07-209-25	7/25/2007	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.40)	ND(<100)	ND(<250)	ND(<400)
LLP-9 Water	07-209-26	7/25/2007	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.40)	ND(<500)	ND(<250)	ND(<410)
Sample ID/Depth (ft.)	Lab ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Oil
Well MW-1 Groundwater Samples			Reported Concentrations in (ug/L)						
MW-1	K0710957-001	11/7/2007	--	--	--	--	2,100 Y	11,000 Z	4,800 Z
MW-1	K0711491-001	12/5/2007	ND(<0.14)	0.12 J	0.13 J	3.9	210 J	2,300 Y	2,500 L
MTCA Method A Cleanup Levels - Groundwater			5	1,000	700	1,000	800/1,000 *	500	
Comments:									
BTEX by EPA Method 8260B					Soil data reported in mg/kg units which approximate parts per million (ppm) concentrations				
Gasoline-range organics by Method NWTPH-Dx					Groundwater data reported in ug/L units which approximate parts per billion (ppb) concentrations				
Diesel-, and Oil-range organics by Method NWTPH-Dx.					Model Toxics				
-- means not analyzed for particular analytes					* Cleanup level for gasoline if benzene present / benzene not present				
ND means target analyte not detected at or above the detection limit in parenthesis					Y means chromatographic fingerprint does not match standard				
BOLD means result exceeds cleanup level					Z means means chromatographic standard does not resemble petroleum product				
J means analyte concentration is an estimate					H means chromatographic fingerprint resembles petroleum product, but doesn't match standard				
D means reported result is from a dilution					L means chromatographic fingerprint resembles petroleum product, but doesn't match standard				
O means chromatographic fingerprint resembles oil, but does not match standard									

Table 3. Summary of Volatile Organics Analysis Data

**Lora Lake Apartments Focused
Environmental Site Assessment**

Geoprobe Boring Samples	Soil Samples			Groundwater Samples					
	Sample Designation	LLP-4-14.5	LLP-5-15.5	MTCA Method A/B Cleanup Levels	LLP-4 Water	LLP-5 Water	LLP-8 Water	LLP-9 Water	MW-1
Sample Date	7/25/2007	7/25/2007	7/25/2007		7/25/2007	7/25/2007	7/25/2007	7/25/2007	12/5/2007
Laboratory Designation	07-209-09	07-209-10		07-209-21	07-209-22	07-209-25	07-209-26	K0711491-001	
Analyte	Reported Concentrations (mg/kg)			Reported Concentrations (ug/L)					
Chloromethane	ND(<0.11)	ND(<0.0011)	77	ND(<0.40)	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.15 J	3.4
Acetone	ND(<0.56)	0.068	8,000	17	ND(<5)	ND(<5)	ND(<5)	ND(<4.1)	800
Benzene	ND(<0.11)	ND(<0.0011)	0.03	0.72	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.14)	5
Toluene	0.62	ND(<0.0011)	7	8.1	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.12 J	1,000
Ethylbenzene	1.4	ND(<0.0011)	6	4.8	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.13 J	700
Xylenes	12.5	ND(<0.0022)	9	50	ND(<0.40)	ND(<0.40)	ND(<0.40)	3.9	1,000
2-Butanone	0.56	0.0072	48,000	ND(<10)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<2.3)	4,800
(trans) 1,2-Dichloroethene	ND(<0.11)	ND(<0.0011)	110	0.89	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.15)	5
(cis) 1,2-Dichloroethene	ND(<0.11)	ND(<0.0011)	110	0.97	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.12)	5
Chloroform	ND(<0.11)	ND(<0.0011)	160	ND(<0.40)	ND(<0.20)	0.63	ND(<0.20)	ND(<0.14)	7.2
1,2-Dichloroethane	ND(<0.11)	ND(<0.0011)	11	0.62	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.12)	5
Trichloroethene	ND(<0.11)	ND(<0.0011)	0.03	1.8	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.14)	5
Tetrachloroethene	ND(<0.11)	ND(<0.0011)	0.05	0.47	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.18 J	5
Bromoform	ND(<0.11)	ND(<0.0011)	130	ND(<2.0)	ND(<1.0)	1.6	ND(<1.0)	ND(<0.28)	5.5
Isopropylbenzene	1.5	ND(<0.0011)	8,000	3.0	2.0	ND(<0.20)	0.21	0.17 J	800
1,3,5-trimethylbenzene	7.4	ND(<0.0011)	4,000	13	0.55	ND(<0.20)	ND(<0.20)	2.5	400
tert-butylbenzene	0.12	ND(<0.0011)	--	ND(<0.40)	0.35	ND(<0.20)	ND(<0.20)	ND(<0.13)	--
1,2,4-trimethylbenzene	18	0.0013	4,000	50	2.0	ND(<0.20)	ND(<0.20)	5.8	400
n-Propylbenzene	2.8	ND(<0.0011)	--	2.9	0.63	ND(<0.20)	ND(<0.20)	0.24 J	--
sec-Butylbenzene	1.6	0.0096	--	0.90	3.3	ND(<0.20)	0.52	0.63 J	--
p-Isopropyltoluene	5.5	0.0021	--	2.8	0.43	ND(<0.20)	ND(<0.20)	0.79	--
n-Butylbenzene	2.7	0.0057	--	ND(<0.40)	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.63 J	--
Naphthalene	7.9	ND(<0.0011)	5	33	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.6 J	160

Comments:

MTCA means Model Toxics Control Act Regulation, 173-340 WAC, Amended 10/1 **Bold** indicates detected value exceeds cleanup level

Method B values from CLARC database -- indicates value not available

Results for soil are reported in mg/kg units which approximate parts per million (pp ND means target analyte not detected at or above concentration indicated in parenthesis

Results for water are reported in ug/L units which approximate parts per billion (ppt) VOC analysis by GC/MS, EPA Method 8260B

J means result is estimated

Table 4.

**Summary of SemiVolatile Organic
Compounds Analysis Data**

**Lora Lake Apartments Focused
Environmental Site Assessment**

Investigation Samples	Soil Samples					Groundwater Samples							
	LLP-4-14.5	LLP-5-15.5	MW-1-7	MW-1-14	MTCA Method	LLP-4 Water	LLP-5 Water	LLP-8 Water	LLP-9 Water	MW-1	MW-1	MTCA Method	
Sample Designation	7/25/2007	7/25/2007	10/25/2007	10/25/2007	A/B	7/25/2007	7/25/2007	7/25/2007	7/25/2007	11/7/2007	12/5/2007	A/B	
Sample Date	07-209-09	07-209-10	K0800540-001	K0710957-003	Cleanup Levels	07-209-21	07-209-22	07-209-25	07-209-26	K0710957-001	K0711491-001	Cleanup Levels	
Laboratory ID Number	Reported Concentrations (mg/kg)					Reported Concentrations (ug/L)							
Analyte	Phenol	ND(<0.74)	ND(<0.19)	0.0051 J	ND(<0.10)	48,000	3.1	ND(<1.9)	ND(<1.9)	ND(<1.8)	2.2	ND(<0.33)	4,800
Benzyl Alcohol	ND(<0.74)	ND(<0.19)	0.0021 J	ND(<0.11)	24,000	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	1.3 J	ND(<0.38)	2,400	
2-Methylphenol (o-Cresol)	ND(<0.74)	ND(<0.19)	ND(<0.0015)	ND(<0.075)	--	4.4	ND(<1.9)	ND(<1.9)	ND(<1.8)	4.7	ND(<0.33)	--	
(3+4)-Methylphenol (m,p-Cresol)	ND(<0.74)	ND(<0.19)	ND(<0.0015)	ND(<0.075)	--	5.4	ND(<1.9)	ND(<1.9)	ND(<1.8)	4.4	ND(0.48)	--	
2,4-Dimethylphenol	ND(<0.74)	ND(<0.19)	ND(<0.0055)	ND(<0.28)	1600	26	ND(<1.9)	ND(<1.9)	ND(<1.8)	6.5 J	1.7 J	160	
2,4-Dichlorophenol	ND(<0.74)	ND(<0.19)	ND(<0.001)	ND(<0.05)	240	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	1.9	ND(<0.30)	24	
Benzoic Acid	--	--	ND(<0.096)	ND(<4.8)	320,000	--	--	--	--	15	ND(<5.9)	64,000	
Naphthalene	2.7	ND(<0.015)	ND(<0.0023)	3.5 D	5.0	19	0.46	ND(<0.19)	ND(<0.18)	0.52	9.0 J	160	
2-Methylnaphthalene	7.0	ND(<0.015)	ND(<0.0022)	12.0 D	320	1.6	ND(<1.9)	ND(<1.9)	ND(<1.8)	0.35	1.6 J	32	
1-Methylnaphthalene	4.3	ND(<0.015)	--	--	24	1.3	ND(<1.9)	ND(<1.9)	ND(<1.8)	--	--	2.4	
2,4,6-Trichlorophenol	ND(<0.74)	ND(<0.19)	ND(<0.0014)	ND(<0.07)	91	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	0.31 J	ND(<0.21)	4	
2,4,5-Trichlorophenol	ND(<0.74)	ND(<0.19)	ND(<0.0015)	ND(<0.075)	8,000	7.6	ND(<1.9)	ND(<1.9)	ND(<1.8)	19	ND(<0.39)	800	
Acenaphthylene	0.15	ND(<0.015)	ND(<0.0012)	0.45 D	--	9.3	ND(<1.9)	ND(<1.9)	ND(<1.8)	ND(<0.035)	ND(<0.24)	--	
Acenaphthene	1.1	ND(<0.015)	ND(<0.0014)	1.2 D	4,800	1.1	0.23	ND(<0.19)	ND(<0.18)	ND(<0.060)	ND(<0.29)	960	
2,3,5,6-Tetrachlorophenol	ND(<0.74)	ND(<0.19)	--	--	2,400	68	ND(<1.9)	ND(<1.9)	ND(<1.8)	--	--	480	
Dibenzofuran	ND(<0.74)	ND(<0.19)	ND(<0.0012)	1.0 D	160	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	ND(<0.041)	ND(<0.33)	32	
Fluorene	1.4	ND(<0.015)	ND(<0.0011)	2.7 D	3,200	0.25	0.91	ND(<0.19)	ND(<0.18)	0.32 J	ND(<0.33)	640	
N-Nitrosodiphenylamine	ND(<0.74)	ND(<0.19)	ND(<0.0016)	ND(<0.08)	200	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	ND(<0.11)	ND(<0.48)	--	
Pentachlorophenol	ND(<3.7)	ND(<0.93)	0.11	ND(<1.0)	8.3	120	ND(<9.7)	ND(<9.7)	ND(<9.2)	150 D	5.7 J	0.73	
Phenanthrene	4.0	0.020	0.0019 J	8.8 D	--	0.41	ND(<1.9)	ND(<1.9)	ND(<1.8)	0.64	2.4 J	--	
Anthracene	1.2	ND(<0.015)	ND(<0.0016)	2.3 D	24,000	ND(<0.20)	ND(<1.9)	ND(<1.9)	ND(<1.8)	0.23 J	ND(<0.62)	4,800	
Di-n-butyl Phthalate	ND(<0.74)	ND(<0.19)	ND(<0.0079)	ND(<0.40)	--	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	7.7	ND(<0.37)	--	
Fluoranthene	1.5	ND(<0.015)	0.0027 J	3.0 D	3,200	ND(<0.20)	ND(<0.19)	ND(<0.19)	ND(<0.18)	0.27 J	ND(<0.66)	640	
Pyrene	1.3	0.017	0.0029 J	2.7 D	2,400	ND(<0.20)	0.21	ND(<0.19)	ND(<0.18)	0.25 J	ND(<0.74)	480	
Butyl Benzyl Phthalate	ND(<0.74)	ND(<0.19)	ND(<0.0032)	ND(<0.16)	16,000	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	2.0	ND(<0.47)	3,200	
Bis(2-ethylhexyl) Phthalate	ND(<0.74)	ND(<0.19)	0.016 J	ND(<0.35)	71	ND(<2.0)	ND(<1.9)	ND(<1.9)	ND(<1.8)	14	3.1 J	6.3	
benzo(g,h,i)perylene	0.19	ND(<0.015)	0.0026 J	0.32 D	--	ND(<0.020)	ND(<0.019)	ND(<0.019)	ND(<0.018)	ND(<0.044)	--	--	
PCBs	ND(<0.056)	ND(<0.056)	--	--	1.0	ND(<0.92)	ND(<0.19)	ND(<0.093)	ND(<0.20)	--	--	0.1	

SVOC analysis by GC/MS, EPA Method 8270 SIM

ND means analyte was not present at or above the detection limit shown in parathensis

BOLD means analyte exceeds cleanup level

Flags - J means analyte concentration is estimated. D means reported result is from a dilution.

MTCA means Model Toxics Control Act regulations, Method A Tables or Values from Method B CLARC tables. Dibenzofuran cleanup levels in CLARC tables listed here do not match those in Ecology PUB 07-09-045.

Table 5. Summary of Carcinogenic Polyaromatic Hydrocarbons (cPAHs) Analysis Data

Lora Lake Apartments Focused Environmental Site Assessment

Sample ID	Laboratory ID Number	Sample Date	Benzo(a) pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Indeno(1,2,3-cd) pyrene	Toxicity Equivalency (TEQ)	MTCA Method A Cleanup Level for cPAHs (benzo(a)pyrene equivalent)
Soil Samples			Reported Concentrations (mg/kg)								
LLP-4-14.5	07-209-09	7/25/2007	0.54	0.88	0.88	0.15	0.76	0.088	0.14	0.76	0.1
LLP-5-15.5	07-209-10	7/25/2007	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	0	0.1
MW-1-7	K0800540-001	10/25/2007	ND(<0.0017)	ND(<0.0017)	0.0024 J	ND(<0.0014)	0.0016 J	ND(<0.0015)	0.0023 J	0.0005	0.1
MW-1-14	K0710957-003	10/25/2007	0.63 D	0.89 D	0.68 D	0.26 D	1.5 D	ND(<0.29)	0.37 D	0.865	0.1
Groundwater Samples			Reported Concentrations (ug/L)								
LLP-4 Water	07-209-21	7/25/2007	0.13	ND(<0.20)	0.045	ND(<0.020)	ND(<0.20)	ND(<0.20)	ND(<0.20)	0.136	0.1
LLP-5 Water	07-209-22	7/25/2007	0.030	0.067	0.045	ND(<0.019)	0.077	ND(<0.019)	ND(<0.019)	0.042	0.1
LLP-8 Water	07-209-25	7/25/2007	ND(<0.019)	ND(<0.019)	ND(<0.019)	ND(<0.019)	ND(<0.019)	ND(<0.019)	ND(<0.019)	0	0.1
LLP-9 Water	07-209-26	7/25/2007	ND(<0.018)	0.036	ND(<0.018)	ND(<0.018)	0.025	ND(<0.018)	ND(<0.018)	0.004	0.1
MW-1	K0710957-001	11/7/2007	0.39 J	ND(<0.041)	0.17 J	ND(<0.055)	ND(<0.064)	ND(<0.039)	ND(<0.048)	0.407	0.1
MW-1	K0711491-001	12/5/2007	ND(<0.66)	ND(<0.60)	ND(<0.59)	ND(<0.83)	ND(<0.79)	ND(<0.76)	ND(<0.69)	0	0.1
Toxicity Equivalency Factor (TEF)			1	0.1	0.1	0.1	0.01	0.1	0.1	--	--
<p>COMMENTS: SVOC analysis by GC/MS, EPA Method 8270 SIM ND means analyte was not present at or above the detection limit shown in parathensis TEF Values from Chapter 173-340 WAC, Amended 10/12/2007, Table 708-2 MTCA means Model Toxics Control At Regulation, Chapter 173-340 WAC, Method A Soil Cleanup Tables, Amended 10/12/2007</p> <p>FLAGS: - J means analyte concentration is estimated. - D means reported value from a dilution BOLD means concentrations exceed cleanup levels</p>											

Table 6. Summary of PCDD / PCDF Analysis Data

**Lora Lake Apartments Focused
Environmental Site Assessment**

Investigation Samples	Soil Samples						Groundwater Samples		
Sample Designation	MW-1-7			MW-1-14			MW-1		
Sample Date	10/25/2007			10/25/2007			11/7/2007		
Laboratory ID Number	K0800540-001			K0710957-003			K0710957-001		
Analyte	(ng/Kg)	Toxic Equivalency Factor (TEF)	Toxic Equivalency (TEQ) (ng/Kg)	(ng/Kg)	Toxic Equivalency Factor (TEF)	Toxic Equivalency (TEQ) (ng/Kg)	(pg/L)	Toxic Equivalency Factor (TEF)	Toxic Equivalency (TEQ) (pg/L)
2,3,7,8-TCDD	11.7	1	11.7	24.3	1	24.3	4.78 J	1	4.78
1,2,3,7,8-PeCDD	78.6	1	78.6	87.5	1	87.5	16.2 J	1	16.2
1,2,3,4,7,8-HxCDD	152	0.1	15.2	20.3	0.1	2.03	13.9 JK	0.1	1.39
1,2,3,6,7,8-HxCDD	1300 E	0.1	130	304	0.1	30.4	132	0.1	13.2
1,2,3,7,8,9-HxCDD	515	0.1	51.5	294	0.1	29.4	52.0	0.1	5.2
1,2,3,4,6,7,8-HpCDD	60,700 BE	0.01	607	5,350 E	0.01	63.3	3,220	0.01	32.2
OCDD	473000 BE	0.0003	142	69,900 BE	0.0003	35.1	29,300 BE	0.0003	8.79
2,3,7,8-TCDF	5.07 C	0.1	0.507	63.1 C	0.1	1.47	7.72 JC	0.1	--
1,2,3,7,8-PeCDF	6.46	0.03	0.194	19.9	0.03	0.597	1.67 JK	0.03	0.0501
2,3,4,7,8-PeCDF	27.0	0.3	8.1	15.7	0.3	4.71	13.7 J	0.3	4.11
1,2,3,4,7,8-HxCDF	245	0.1	24.5	30.5	0.1	3.05	57.7	0.1	5.77
1,2,3,6,7,8-HxCDF	119	0.1	11.9	30.2	0.1	3.02	12.4 J	0.1	1.24
1,2,3,7,8,9-HxCDF	2.76 J	0.1	0.276	ND(<1.92)	0.1	--	ND(<7.54)	0.1	--
2,3,4,6,7,8-HxCDF	121	0.1	12.1	42.5	0.1	4.25	31.0	0.1	3.10
1,2,3,4,6,7,8-HpCDF	15300 E	0.01	153	929 E	0.01	9.21	707	0.01	7.07
1,2,3,4,7,8,9-HpCDF	629 E	0.01	6.29	38.6	0.01	0.386	39.0	0.01	0.390
OCDF	137000 E	0.0003	41.1	5,540 E	0.0003	2.89	3,450	0.0003	1.04
Total TEQ	--	--	1290	--	--	302	--	--	105
Model Toxics Control Act Regulation, 173-340 WAC, Method B Soil - CLARC Tables *			160 mg/kg *				160 mg/kg *	32 ug/L *	
Analysis by EPA Method 8290/PCDD PCDF ng/Kg approximates parts per trillion (PPT) concentrations pg/L approximates parts per quadrillion (PPQ) concentrations ND means analyte was not present at or above the detection limit shown in parathensis Toxicity Equivalency Factors from World Health Organization 2005 (WHO-05) -- means not applicable						Flags: - J means analyte concentration is estimated - B means analyte detected in Method Blank - C means 2,3,7,8-TCDF was confirmed on the DB-225 column - E means Analyte exceeded the upper Method Calibration Limit (MCL) - K means ion abundance ratios outside of QC limits			
* MTCA Method B CLARC tables list PCDD and PCDF cleanup values as 160 mg/kg soil, and 32 ug/L groundwater, but it is not clear if these values are TEF-corrected.									

Table 7. Summary of Metals Analyses Data

**Lora Lake Apartment Focused
Environmental Site Assessment**

Sample ID	Lab ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Geoprobe Borings Soil Samples			Reported Concentrations (mg/Kg)							
LLP-2-6.5	07-209-03	7/24/2007	ND(<11)	--	--	--	--	--	--	--
LLP-3-6	07-209-06	7/25/2007	ND(<12)	--	--	--	--	--	--	--
LLP-4-14.5	07-209-09	7/25/2007	ND(<11)	51	ND(<0.56)	40	47	ND(<0.28)	ND(<11)	ND(<0.56)
LLP-5-15.5	07-209-10	7/25/2007	ND(<11)	49	ND(<0.56)	25	6	ND(<0.28)	ND(<11)	ND(<0.56)
MTCA Method A/B Cleanup Levels -Soil			20	16,000	2	19/2,000 *	250	2	400	400
Sample ID	Lab ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Geoprobe Borings Groundwater Samples			Reported Concentrations (u/L)							
LLP-4 Water	07-209-21	7/25/2007	65	ND(<25)	ND(<4.0)	ND(<10)	1.2	ND(<0.50)	ND(<5.0)	ND(<10)
LLP-5 Water	07-209-22	7/25/2007	ND(<3.0)	ND(<25)	ND(<4.0)	ND(<10)	ND(<1.0)	ND(<0.50)	ND(<5.0)	ND(<10)
LLP-8 Water	07-209-25	7/25/2007	ND(<3.0)	ND(<25)	ND(<4.0)	ND(<10)	ND(<1.0)	ND(<0.50)	ND(<5.0)	ND(<10)
LLP-9 Water	07-209-26	7/25/2007	8.1	ND(<25)	ND(<4.0)	ND(<10)	ND(<1.0)	ND(<0.50)	ND(<5.0)	ND(<10)
MTCA Method A/B Cleanup Levels - Groundwater			5	3,200	5	50	15	2	80	80
Comments:										
Soil results are reported in mg/kg units which approximate parts per million (ppm) concentrations										
Groundwater results are reported in ug/L units which approximate parts per billion (ppb) concentrations										
ND means not detected at or above the concentration shown in parenthesis										
* Cleanup values for Chromium based on Chromium VI (19 mg/kg) and Chromium III (2,000 mg/kg)										
-- means Not Analyzed										
MTCA means Model Toxics Control Act Regulation, Chapter 173-340 WAC, Amended 10/12/2007										
BOLD means value exceeds cleanup level										
Total metals in soil EPA Methods 6010B/7471A, and dissolved metals in groundwater, EPA Methods 200.8/7470A.										

**Summary Report—
2008 Investigations and Data Gap Evaluation,
Lora Lakes Apartments
Soil and Groundwater Data Tables**

Table F-3-1 Geoprobe Soils Analytical Results: Metals, PCBs, SVOCs, VOCs, and TPH

Chemical Name	Method A	MTCA B - Carcinogen	MTCA B - Non-Carcinogen	Location ID	LL01	LL01	LL01	LL07	LL07	LL08	LL08	LL08	LL08	LL08	LL09	LL09	LL09	LL09
				Sample Date	LL01-0.0.5 04/03/08	LL01-1.5-2 04/03/08	DUP02-040308 04/03/08	LL07-0-0.5 04/03/08	LL07-1.5-2 04/03/08	LL08-0-0.5 04/03/08	LL08-1.5-2 04/03/08	LL08-2-4 04/03/08	DUP01-040308 04/03/08	LL08-13-15 04/03/08	LL09-0-0.5 04/03/08	LL09-1.5-2 04/03/08	LL09-6-8 04/03/08	LL09-13-15 04/03/08
Metals EPA 6020 / 7471A (mg/kg)																		
Antimony			32		0.29 J	0.23 J	0.2 J	0.39 J	0.27 J	0.27 J	0.16 J	0.6 J	3.51 J	0.05 J	0.13 J	0.1 J	0.07 J	0.06 J
Arsenic	20	0.67	24		4.39 J	3.17 J	2.83 J	3.17	7.11	6.02	2.93	5.47 J	5.32 J	1.2	2.67	2.2	1.96	1.47
Beryllium			160		0.216 J	0.252 J	0.189 J	0.203	0.169	0.204	0.277	0.322 J	0.206	0.187	0.231	0.187	0.222	0.18
Cadmium	2		80		0.437 J	0.282 J	0.268 J	0.315	0.236	0.307	0.38	1.32 J	1.26 J	0.031	0.102	0.081	0.054	0.054
Chromium	19/2000				48.6	34.7 J	23.3	20.9	21	18.9	21.5	22.2	19 J	32.2	24.3	22.1	26.6	24.5
Copper			3.0E+03		20.1 J	16.2 J	14 J	16.5 J	16.2 J	23.2 J	17.1 J	33 J	28.8 J	6.13 J	15.5 J	12.7 J	12.5 J	14.8 J
Lead	250				41.6	265 J	91.6	33.6 J	30 J	42.3 J	18.4 J	106 J	108 J	2.06 J	6.29 J	4.65 J	2.34 J	2.05 J
Nickel			1.6E+03		26.2	28.2	23.7 J	29.8	25.2	23.7	27.8	40.5 J	29.2	21.7	31.5	31.2	34	37.5
Selenium			400		0.5 J	0.3 J	< 1.1	0.4 J	< 1.2	< 1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2
Silver			400		0.065	0.048 J	0.044 J	0.065	0.057	0.068	0.052	0.094 J	0.088 J	0.015 J	0.07	0.04	0.039	0.027
Thallium			5.6		0.081	0.054	0.048	0.044 J	0.05 J	0.051 J	0.056 J	0.056 J	0.047 J	0.031 J	0.08 J	0.051 J	0.093 J	0.047 J
Zinc			2.4E+04		62.6 J	75.7 J	66.2 J	47.3 J	33.2 J	60.7 J	47.9 J	119 J	119 J	22.3 J	29.4 J	25.9 J	21.8 J	25.9 J
Mercury	2		24		0.053	0.04 J	0.034 J	0.041	0.068	0.065	0.032	0.065 J	0.088 J	< 0.02	0.024	0.02	0.02	0.019 J
PCBs EPA 8082 (µg/kg)																		
Aroclor 1242					NA	NA	NA	NA	NA	< 7.1	< 5.5	14	NA	< 5.5	NA	NA	NA	NA
Aroclor 1254			1.6E+03		NA	NA	NA	NA	NA	< 80	< 5.5	39 J	NA	< 5.5	NA	NA	NA	NA
Aroclor 1260					NA	NA	NA	NA	NA	< 7.1	8.9	51	NA	< 5.5	NA	NA	NA	NA
Total PCBs	1.00E+04	500			NA	NA	NA	NA	NA	47	14.4	104	NA	8.25	NA	NA	NA	NA
Volatile Organic Compounds EPA 8260 (µg/kg)																		
1,1,1-Trichloroethane			7.2E+07		< 6.4	< 5.2	< 5.6	< 5.4	< 6	< 4.8	< 4.8	< 4.7	< 5.1	< 5	< 4.6	< 4.9	< 5	< 5.1
1,2,4-Trimethylbenzene			4.0E+06		< 26	< 21	< 23	0.097 J	< 24	< 19	< 19	< 19	< 21	< 20	< 19	< 20	< 20	< 21
2-Butanone			4.8E+07		16 J	< 21	< 23	< 22	< 24	2.8 J	< 19	8.1 J	4.9 J	< 20	< 19	< 20	< 20	< 21
Acetone			8.0E+06		230	42	67	41	33	22	24	67	46	16 J	12 J	11 J	3.3 J	3 J
Carbon Disulfide			8.0E+06		0.43 J	< 5.2	< 5.6	< 5.4	< 6	< 4.8	0.095 J	0.21 J	< 5.1	< 5	< 4.6	< 4.9	< 5	< 5.1
Dichlorodifluoromethane			1.6E+07		< 6.4	< 5.2	0.29 J	< 5.4	< 6	< 4.8	< 4.8	< 4.7	< 5.1	< 5	< 4.6	< 4.9	< 5	0.4 J
Ethylbenzene	6		8.0E+06		< 6.4	< 5.2	< 5.6	< 5.4	0.34 J	0.23 J	< 4.8	< 4.7	0.31 J	< 5	< 4.6	< 4.9	< 5	< 5.1
m,p-Xylene	9				0.54 J	0.19 J	0.23 J	0.43 J	1.1 J	0.72 J	< 4.8	< 4.7	0.88 J	0.51 J	< 4.6	< 4.9	< 5	< 5.1
o-Xylene	9		1.6E+08		< 6.4	< 5.2	< 5.6	< 5.4	0.26 J	0.17 J	< 4.8	< 4.7	0.17 J	< 5	< 4.6	< 4.9	< 5	< 5.1
Toluene	7		6.4E+06		1.8 J	0.46 J	0.65 J	0.87 J	2.6 J	1.8 J	< 4.8	0.38 J	2.3 J	1.6 J	0.24 J	0.53 J	0.26 J	0.38 J
Semi-volatile Organic Compounds EPA 8270 (µg/kg)																		
2-Methylnaphthalene			3.2E+05		< 5.8	< 5.5 UJ	< 5.5 UJ	< 7.3	< 5.8	< 7.1	< 5.5	90 J	190 J	< 5.5	2.4 J	< 5.6	< 5.6	< 6.1
4-Methylphenol			4.0E+05		< 5.8	5.9 J	< 5.5	< 7.3	< 5.8	< 7.1	< 5.5	24 J	39 J	< 5.5	1.6 J	< 5.6	< 5.6	< 6.1
Acenaphthene			4.8E+06		< 5.8	< 5.5 UJ	< 5.5 UJ	< 7.3	< 5.8	2.2 J	< 5.5	110 J	220 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Acenaphthylene					1.6 J	< 5.5	1.6 J	< 7.3	< 5.8	< 7.1	< 5.5	14 J	16 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Anthracene			2.4E+07		3.1 J	< 5.5 UJ	1.9 J	1.6 J	< 5.8	5.7 J	< 5.5	59 J	87 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Benzo(a)anthracene					7.8	2.9 J	3.9 J	2.3 J	2 J	17	15	78 J	120 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Benzo(a)pyrene		140			9.2	< 5.5 UJ	< 5.5 UJ	< 7.3	< 5.8	18	24	77 J	97 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Benzo(b)fluoranthene					15	4.6 J	5.1 J	5 J	4.5 J	23	29	180 J	250 J	< 5.5	3.5 J	< 5.6	< 5.6	< 6.1
Benzo(g,h,i)perylene					9.3	3.2 J	4.3 J	< 7.3	3.6 J	12	16	56 J	68 J	< 5.5	2.3 J	< 5.6	< 5.6	< 6.1
Benzo(k)fluoranthene					4.2 J	< 5.5 UJ	1.9 J	< 7.3	1.5 J	8.1	11	62 J	80 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Benzoic Acid			3.2E+08		270	< 110	< 110 UJ	< 150 UJ	< 120	< 150 UJ	< 110 UJ	< 580 UJ	< 580 UJ	< 110 UJ	< 110 UJ	< 120 UJ	< 120 UJ	< 130 UJ
Benzyl Alcohol			2.4E+07		8.9 J	< 11	< 11	51	< 12	2.7 J	< 11	< 58	< 58	< 11	< 11	< 12	< 12	< 13
bis(2-Ethylhexyl)phthalate		7.1E+04	1.6E+06		60	19 J	8.4 J	24 J	< 58	130	< 55	69 J	84 J	< 55	35 J	< 56	< 56	7.1 J
Butylbenzylphthalate			1.6E+07		17	< 5.5	< 5.5 UJ	7 J	< 5.8	< 7.1	< 5.5	49 J	< 29	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Chrysene					13	4.3 J	5.5 J	4.5 J	4 J	20	18	210 J	460 J	< 5.5	4.3 J	< 5.6	< 5.6	< 6.1
Dibenz(a,h)anthracene					< 5.8	< 5.5	< 5.5	< 7.3	< 5.8	2.7 J	3.6 J	12 J	15 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Dibenzofuran			1.6E+05		< 5.8	< 5.5	< 5.5 UJ	< 7.3	< 5.8	< 7.1	< 5.5	85 J	170	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Diethylphthalate			6.4E+07		< 5.8	< 5.5	< 5.5	1.4	< 5.8	< 7.1	< 5.5	< 29	< 29	1.4	< 5.5	< 5.6	< 5.6	< 6.1
Di-n-Butylphthalate			8.0E+06		19	< 11	< 11	8.2 J	< 12	11 J	< 11	< 58	< 58	< 11	< 11	< 12	< 12	< 13
Fluoranthene			3.2E+06		20	< 6.8 U	8.7 J	7.8	< 4.2 U	34	20	510 J	740 J	< 5.5	6.1	< 5.6	< 5.6	< 6.1
Fluorene			3.2E+06		< 5.8	< 5.5 UJ	1.5 J	1.3 J	< 5.8	1.7 J	< 5.5	100 J	210 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Hexachlorobenzene		630	6.4E+04		< 5.8	< 5.5	1.7 J	< 7.3	< 5.8	< 7.1	< 5.5	< 29	< 29	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Indeno(1,2,3-cd)pyrene					8.9	2.8 J	3.6 J	< 7.3	2.7 J	12	18	67 J	74 J	< 5.5	< 5.5	< 5.6	< 5.6	< 6.1
Naphthalene	5		1.6E+06		< 5.8	< 5.5 UJ	< 5.5 UJ	< 7.3	< 5.8	< 7.1	< 5.5	250 J	540 J	< 5.5	2.3 J	< 5.6	< 5.6	< 6.1
Pentachlorophenol		8.3E+03	2.4E+06		110	370	720 J	38 J	< 58	39 J	53 J	340 J	250 J	< 55	< 55	< 56	< 56	< 61
Phenanthrene					< 16 U	< 5.9 U	10 J	9.2	< 4.2 U	26	4.7	430 J	670 J	< 5.5	4	< 5.6	< 5.6	< 6.1
Pyrene			2.4E+06		20	8.1 J	10 J	6.5 J	4.1 J	36	20	400 J	590 J	< 5.5	5 J	< 5.6	< 5.6	< 6.1
NWTPH-Dx (mg/kg)																		
Diesel Range Hydrocarbons	2.0E+03				22 J	22 J	13 J	9.4 J	16 J	13 J	NA	160 NJ	100 NJ	1.4 J	5 J	2.6 J	< 28	< 31
Residual Range Organics (RRO)	2.0E+03				170 NJ	97 J	69 J	75 J	120 J	52 J	NA	610 NJ	400 J	< 6.9 U	27 J	< 5 U	< 120	< 130
NWTPH-Gx (mg/kg)																		
Gasoline Range Organics-NWTPH	100/30				2.4 J	< 5.7	< 5.7	< 5.5	< 6.1	< 5.3	< 5.6	5.4 J	2.6 J	< 5.6	< 5.8	< 5.8	< 5.8	< 6.5

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)
 Qualifiers:
 J = estimated concentration (value less than calculated reporting limit)
 N = analyte is tentatively identified (validator qualifier)
 + = biased high

Table F-3-1 Geoprobe Soils Analytical Results: Metals, PCBs, SVOCs, VOCs, and TPH

Chemical Name	Method A	MTCA B - Carcinogen	MTCA B - Non-Carcinogen	Location ID	LL10	LL10	LL11	LL11	LL12	LL12	LL12	LL12
				Sample ID	LL10-0-0.5	LL10-1.5-2	LL11-0-0.5	LL11-1.5-2	LL12-0-0.5	LL12-1.5-2	LL12-6-8	LL12-13-15
				Sample Date	04/03/08	04/03/08	04/03/08	04/03/08	04/03/08	04/03/08	04/03/08	04/03/08
Metals EPA 6020 / 7471A (mg/kg)												
Antimony			32		0.69 J	0.22 J	0.19 J	0.05 J	0.49 J	0.13 J	0.06 J	0.07 J
Arsenic	20	0.67	24		11.1	3.28 J	3.76 J	1.62 J	6.3	2.62	1.97	0.89
Beryllium			160		0.242	0.201 J	0.207 J	0.174 J	0.255	0.214	0.14	0.244
Cadmium	2		80		0.377	0.487 J	0.319 J	0.056 J	0.727	0.442	0.059	0.066
Chromium	19/2000				24.4	26.1	29.6	21.4	27.3	22.8	23.9	37
Copper			3.0E+03		17.6 J	17.2 J	24.3 J	11 J	50.8 J	13.4 J	11 J	19.8 J
Lead	250				67.6 J	57	21.3	< 2.14 U	74.9 J	6.7 J	2.18 J	2.76 J
Nickel			1.6E+03		26.6	26.3	23.7	28.7	27.8	33	30.2	40.6
Selenium			400		< 1.2	< 1.1	< 1.1	< 1.1	0.5 J	< 1.1	< 1	< 1.3
Silver			400		0.092	0.082	0.064	0.034	0.084	0.037	0.037	0.037
Thallium			5.6		0.074 J	0.057	0.069	0.044	0.056 J	0.049 J	0.031 J	0.058 J
Zinc			2.4E+04		52.8 J	95.8 J	47 J	21.6 J	140 J	38.4 J	24.1 J	32.2 J
Mercury	2		24		0.072	0.05	0.04	0.017 J	0.063	0.032	0.013 J	0.018 J
PCBs EPA 8082 (µg/kg)												
Aroclor 1242					NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254			1.6E+03		NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260					NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1.00E+04	500			NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds EPA 8260 (µg/kg)												
1,1,1-Trichloroethane			7.2E+07		< 6.6	< 6	< 6.9	< 5.5	0.28 J	< 6.1	< 4.8	< 5
1,2,4-Trimethylbenzene			4.0E+06		< 27	< 24	< 28	< 22	< 24	< 25	< 19	< 20
2-Butanone			4.8E+07		< 27	< 24	4.7 J	< 22	5.9 J	4.8 J	< 19	< 20
Acetone			8.0E+06		62	41	70	18 J	95	79	9.1 J	< 20
Carbon Disulfide			8.0E+06		< 6.6	< 6	< 6.9	0.099 J	0.12 J	< 6.1	0.18 J	< 5
Dichlorodifluoromethane			1.6E+07		< 6.6	< 6	< 6.9	0.42 J	0.72 J	< 6.1	< 4.8	< 5
Ethylbenzene	6		8.0E+06		< 6.6	< 6	< 6.9	< 5.5	0.46 J	0.28 J	< 4.8	< 5
m,p-Xylene	9				0.35 J	0.51 J	< 6.9	0.35 J	1.6 J	0.63 J	0.48 J	0.18 J
o-Xylene	9		1.6E+08		< 6.6	< 6	< 6.9	< 5.5	0.54 J	< 6.1	< 4.8	< 5
Toluene	7		6.4E+06		0.98 J	1.1 J	0.86 J	0.73 J	3.1 J	1.5 J	1.3 J	0.93 J
Semi-volatile Organic Compounds EPA 8270 (µg/kg)												
2-Methylnaphthalene			3.2E+05		2.4 J	< 55	< 5.8	< 5.5	6.4	< 5.5	< 5.3	< 6.4
4-Methylphenol			4.0E+05		< 5.9	< 55	< 5.8	< 5.5	< 5.9	< 5.5	< 5.3	< 6.4
Acenaphthene			4.8E+06		2.2 J	< 55	< 5.8	< 5.5	< 5.9	< 5.5	< 5.3	< 6.4
Acenaphthylene					1.7 J	17 J	< 5.8	< 5.5	2.5 J	< 5.5	< 5.3	< 6.4
Anthracene			2.4E+07		10	< 55	< 5.8	< 5.5	3.1 J	< 5.5	< 5.3	< 6.4
Benzo(a)anthracene					55	< 55	2.2 J	< 5.5	9	< 5.5	< 5.3	< 6.4
Benzo(a)pyrene		140			59	< 55	< 5.8	< 5.5	13	< 5.5	< 5.3	< 6.4
Benzo(b)fluoranthene					60	< 55	3.5 J	< 5.5	20	2.5 J	< 5.3	< 6.4
Benzo(g,h,i)perylene					38	< 55	2.6 J	< 5.5	11	< 5.5	< 5.3	< 6.4
Benzo(k)fluoranthene					20	< 55	< 5.8	< 5.5	6.2	< 5.5	< 5.3	< 6.4
Benzoic Acid			3.2E+08		240 J	< 1,100 UJ	< 120 UJ	< 110 UJ	< 120 UJ	< 110 UJ	< 110 UJ	< 130 UJ
Benzyl Alcohol			2.4E+07		< 12	< 110	< 12	< 11	< 12	< 11	< 11	< 13
bis(2-Ethylhexyl)phthalate		7.1E+04	1.6E+06		25 J	< 550	14 J	< 55	110	15 J	< 53	< 64
Butylbenzylphthalate			1.6E+07		< 5.9	< 55	< 5.8	< 5.5	< 5.9	15	< 5.3	< 6.4
Chrysene					62	< 55	2.8 J	< 5.5	16	1.8 J	< 5.3	< 6.4
Dibenz(a,h)anthracene					5.1 J	< 55	< 5.8	< 5.5	1.8 J	< 5.5	< 5.3	< 6.4
Dibenzofuran			1.6E+05		1.5 J	< 55	< 5.8	< 5.5	1.7 J	< 5.5	< 5.3	< 6.4
Diethylphthalate			6.4E+07		< 5.9	< 55	< 5.8	1.5	< 5.9	1.8	< 5.3	< 6.4
Di-n-Butylphthalate			8.0E+06		< 12	< 110	< 12	< 11	11 J	< 11	< 11	< 13
Fluoranthene			3.2E+06		97	< 55	5.1	< 5.5	22	2.9	< 5.3	2.3
Fluorene			3.2E+06		2.6 J	< 55	< 5.8	< 5.5	< 5.9	< 5.5	< 5.3	< 6.4
Hexachlorobenzene		630	6.4E+04		< 5.9	< 55	< 5.8	< 5.5	< 5.9	< 5.5	< 5.3	< 6.4
Indeno(1,2,3-cd)pyrene					37	< 55	1.6 J	< 5.5	11	< 5.5	< 5.3	< 6.4
Naphthalene	5		1.6E+06		3.2 J	< 55	< 5.8	< 5.5	6	< 5.5	< 5.3	< 6.4
Pentachlorophenol		8.3E+03	2.4E+06		42 J	1,900	310	29 J	150	< 55	< 53	< 64
Phenanthrene					51	< 55	4.6	1.8	12	1.6	< 5.3	4.2
Pyrene			2.4E+06		120	27 J	5.1 J	< 5.5	24	2.4 J	< 5.3	1.5 J
NWTPH-Dx (mg/kg)												
Diesel Range Hydrocarbons	2.0E+03				12 J	37 NJ	4.3 J	1.6 J	23 J	43 J	1.6 J	1.7 J
Residual Range Organics (RRO)	2.0E+03				94 J	230 J	53 J	< 11 U	110 J	43 J	< 9.7 U	< 9.9 U
NWTPH-Gx (mg/kg)												
Gasoline Range Organics-NWTPH	100/30				< 6.3	17 NJ	< 6.1	< 5.7	< 6.2	< 5.7	< 5.4	< 7.1

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)
Qualifiers:
J = estimated concentration (value less than calculated reporting limit)
N = analyte is tentatively identified (validator qualifier)
+ = biased high

Table F-3-2 Geoprobe Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			LL01 LL01-0-0.5 04/03/08			LL01 LL01-1.5-2 04/03/08			LL01 DUP02-040308 04/03/08			LL07 LL07-0-0.5 04/03/08			LL07 LL07-1.5-2 04/03/08			LL08 LL08-0-0.5 04/03/08		
Chemical Name	TEFs	Unit	Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ	
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	322,000	96.6	J	1,440,000	432.0	J	1,280,000	384.0000	J	719	0.216		12,200	3.66	J	3,450	1.04	J
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	44,100	13.23		236,000	70.80	J	228,000	68.4	J	87.2	0.0262		1,050	0.315		446	0.134	
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	21,500	215		67,000	670		83,200	832.0000		91.9	0.919		1,130	11.3	J	337	3.37	J
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	4,270	42.7		14,600	146.0		20,000	200.0000		21	0.210		319	3.19		83.2	0.832	
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	143	1.43		416	4.16		454	4.54	J	2.17	0.0217	NJ+	14.4	0.144		3.3	0.0330	
1,2,3,4,7,8-HxCDD	0.1	ng/kg	92	9.2		117	11.7		135	13.5000		1.08	0.108	J	6.53	0.653		2.61	0.261	
1,2,3,4,7,8-HxCDF	0.1	ng/kg	59.3	5.93		253	25.30		307	30.7000		1.01	0.101	J	12.9	1.29		2.26	0.226	J
1,2,3,6,7,8-HxCDD	0.1	ng/kg	333	33.3		846	84.6		1,070	107.0000		3.27	0.327		27.4	2.74		10	1.00	
1,2,3,6,7,8-HxCDF	0.1	ng/kg	28.2	2.82		109	10.90		134	13.4000		0.881	0.0881	J	11.1	1.11		1.49	0.149	J
1,2,3,7,8,9-HxCDD	0.1	ng/kg	209	20.9		352	35.2		382	38.2000		2.98	0.298		21.8	2.18		8.73	0.873	
1,2,3,7,8,9-HxCDF	0.1	ng/kg	0.75	0.075	J	1.56	0.156	J	2.25	0.225	J	< 0.232	0.012		0.34	0.0340	J	< 0.0826	0.004	
1,2,3,7,8-PeCDD	1	ng/kg	39.5	39.5		68.4	68.4		80.7	80.700		0.725	0.725	J	3.42	3.42		1.37	1.37	NJ+
1,2,3,7,8-PeCDF	0.03	ng/kg	2.66	0.080	J	5.67	0.170		6.86	0.2058		0.11	0.0033	NJ+	0.89	0.0267	J	< 0.434	0.0065	
2,3,4,6,7,8-HxCDF	0.1	ng/kg	29.1	2.91		96.4	9.64		122	12.2000		1.01	0.101	J	15	1.50		1.8	0.180	J
2,3,4,7,8-PeCDF	0.3	ng/kg	8.5	2.55		35.7	10.71		43.6	13.080		0.341	0.102	J	5.39	1.62		0.833	0.250	J
2,3,7,8-TCDD	1	ng/kg	6.53	6.5		7.59	7.6		9.05	9.050		< 0.0919	0.046		0.517	0.517	NJ+	0.425	0.425	NJ+
2,3,7,8-TCDF	0.1	ng/kg	1.41	0.141		1.95	0.195		2.04	0.2040		< 0.123	0.0062		1.06	0.106		0.524	0.0524	NJ+
Total TCDD TEQ (1)				493			1588			1807			3.31			33.8			10.2	

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

■ - Shaded value exceeds Method B screening level

Table F-3-2 Geoprobe Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			LL08 LL08-1.5-2 04/03/08			LL08 LL08-2-4 04/03/08			LL08 DUP01-040308 04/03/08			LL08 LL08-13-15 04/03/08			LL09 LL09-0-0.5 04/03/08			LL09 LL09-1.5-2 04/03/08		
Chemical Name	TEFs	Unit	Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ	
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	13,800	4.14	J	351,000	105.3	J	156,000	46.8	J	116	0.0348	J	149	0.0447	J	177	0.0531	J
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	1,960	0.588	J	36,700	11.0		17,300	5.19		13.7	0.00411		16.8	0.00504		20	0.006	
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	1,320	13.2	J	26,800	268	J	17,200	172	J	16.4	0.164	J	15.1	0.151	J	18.3	0.183	J
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	397	3.97		4,280	42.8		2,300	23.0		2.78	0.0278		4.05	0.0405		5.23	0.0523	
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	14.4	0.144		155	1.55		109	1.09		0.253	0.00253	J	0.226	0.00226	NJ+	0.185	0.00185	NJ+
1,2,3,4,7,8-HxCDD	0.1	ng/kg	7.38	0.738		105	10.5		127	12.7		0.243	0.0243	NJ+	0.17	0.0170	J	0.15	0.0150	J
1,2,3,4,7,8-HxCDF	0.1	ng/kg	9	0.900		73.3	7.33		65.2	6.52		0.14	0.0140	J	0.329	0.0329	J	0.398	0.0398	J
1,2,3,6,7,8-HxCDD	0.1	ng/kg	34.7	3.47		438	43.8		461	46.1		0.606	0.0606	J	0.462	0.0462	NJ+	0.609	0.0609	J
1,2,3,6,7,8-HxCDF	0.1	ng/kg	5.31	0.531		48.6	4.86		41.8	4.18		0.119	0.0119	J	0.231	0.0231	J	0.206	0.0206	J
1,2,3,7,8,9-HxCDD	0.1	ng/kg	31.5	3.15		468	46.8		592	59.2		0.977	0.0977	J	0.533	0.0533	J	0.464	0.0464	J
1,2,3,7,8,9-HxCDF	0.1	ng/kg	< 0.293	0.015		1.91	0.191	J	2.03	0.203	J	< 0.0426	0.002		< 0.0391	0.002		< 0.0227	0.001	
1,2,3,7,8-PeCDD	1	ng/kg	9.28	9.28		82.8	82.8		102	102		0.303	0.303	J	0.108	0.108	NJ+	0.131	0.131	NJ+
1,2,3,7,8-PeCDF	0.03	ng/kg	< 0.811	0.0122		5.93	0.178		6.31	0.189		< 0.0234	0.0004		< 0.092	0.00138		< 0.133	0.001995	
2,3,4,6,7,8-HxCDF	0.1	ng/kg	4.71	0.471		40.3	4.03		37.1	3.71		0.109	0.0109	J	0.156	0.0156	NJ+	0.167	0.0167	NJ+
2,3,4,7,8-PeCDF	0.3	ng/kg	1.74	0.522	J	12.3	3.69		12	3.60		< 0.0225	0.003		0.144	0.0432	J	0.127	0.0381	NJ+
2,3,7,8-TCDD	1	ng/kg	2.57	2.57		16.5	16.5		17.1	17.1		< 0.0313	0.016		< 0.0274	0.014		< 0.0384	0.019	
2,3,7,8-TCDF	0.1	ng/kg	0.361	0.0361	J	2.62	0.262		1.68	0.168		< 0.0216	0.0011		< 0.106	0.0053		< 0.0928	0.0046	
Total TCDD TEQ (1)				43.7			650			504			0.8			0.61			0.69	

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

■ - Shaded value exceeds Method B screening level

Table F-3-2 Geoprobe Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			LL09 LL09-6-8 04/03/08			LL09 LL09-13-15 04/03/08			LL10 LL10-0-0.5 04/03/08			LL10 LL10-1.5-2 04/03/08			LL11 LL11-0-0.5 04/03/08			LL11 LL11-1.5-2 04/03/08		
Chemical Name	TEFs	Unit	Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ	
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	13.9	0.00417	J	< 4.58	0.00069		76,800	23.0	J	2,350,000	705	J	24,100	7.2	J	622	0.2	
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	< 0.394	5.9E-05		< 0.186	2.8E-05		11,000	3.30		371,000	111.3	J	6,300	1.89		214	0.06	
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	< 1.05	0.0053		< 0.546	0.00273		6,480	64.8		113,000	1130	J	2,590	25.9		107	1.1	
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	< 0.0888	0.00044		< 0.0321	0.00016		1,640	16.4		22,800	228		965	9.7		57.3	0.6	
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	< 0.0233	0.0001		< 0.023	0.0001		70.9	0.709		586	5.86		26.6	0.266		1.87	0.019	J
1,2,3,4,7,8-HxCDD	0.1	ng/kg	< 0.0146	0.001		< 0.0149	0.001		17.4	1.74		137	13.7		1.92	0.19	J	0.353	0.04	J
1,2,3,4,7,8-HxCDF	0.1	ng/kg	< 0.0105	0.001		< 0.00876	0.000		40.5	4.05		441	44.1		13	1.30		0.602	0.06	J
1,2,3,6,7,8-HxCDD	0.1	ng/kg	< 0.0142	0.001		< 0.0145	0.001		149	14.9		1,490	149		54.8	5.5		3.95	0.4	
1,2,3,6,7,8-HxCDF	0.1	ng/kg	< 0.0107	0.001		< 0.00899	0.000		16.4	1.64		156	15.6		3.98	0.40		< 0.218	0.01	
1,2,3,7,8,9-HxCDD	0.1	ng/kg	< 0.0154	0.001		< 0.0156	0.001		68.8	6.88		583	58.3		11.7	1.2		1.4	0.1	J
1,2,3,7,8,9-HxCDF	0.1	ng/kg	< 0.0142	0.001		< 0.0119	0.001	< 0.772	0.039		4.94	0.494		< 0.655	0.0328		< 0.278	0.0139		
1,2,3,7,8-PeCDD	1	ng/kg	< 0.0184	0.01		< 0.0161	0.01		11.3	11.3		93.2	93.2		1.89	1.9	J	0.415	0.4	J
1,2,3,7,8-PeCDF	0.03	ng/kg	< 0.013	0.0002		< 0.0148	0.0002		1.42	0.0426	J	8.69	0.261		0.274	0.0082	J	< 0.0496	0.0007	
2,3,4,6,7,8-HxCDF	0.1	ng/kg	< 0.0118	0.001		< 0.00993	0.000		16	1.60		137	13.7		4.25	0.43		1.2	0.12	J
2,3,4,7,8-PeCDF	0.3	ng/kg	< 0.0125	0.002		< 0.0142	0.002		6.34	1.90		65.1	19.5		1.95	0.59	J	< 0.0488	0.01	
2,3,7,8-TCDD	1	ng/kg	< 0.0259	0.01295		< 0.0295	0.015		2.63	2.63		14.5	14.5		0.544	0.54	J	< 0.075	0.04	
2,3,7,8-TCDF	0.1	ng/kg	< 0.0266	0.0013		< 0.0183	0.0009		0.941	0.0941	J	2.37	0.237		< 0.153	0.008		< 0.0455	0.002	
Total TCDD TEQ (1)				0.04			0.034			155			2603			57.0			3.2	3.2

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

■ - Shaded value exceeds Method B screening level

Table F-3-2 Geoprobe Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			LL12 LL12-0-0.5 04/03/08			LL12 LL12-1.5-2 04/03/08			LL12 LL12-6-8 04/03/08			LL12 LL12-13-15 04/03/08		
Chemical Name	TEFs	Unit	Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ		Reported Value	TEQ	
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	90,500	27.2	J	1,970	0.591	J	84.9	0.0255		439	0.132	
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	10,000	3.00		279	0.0837		22.6	0.00678		42.9	0.0129	
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	7,910	79.1	J	203	2.03		19.4	0.194		56.7	0.567	
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	1,320	13.2		72.9	0.729		5.1	0.0510		5.3	0.0530	
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	73.5	0.735		2.63	0.0263	J	0.499	0.00499	NJ+	1.6	0.0160	J
1,2,3,4,7,8-HxCDD	0.1	ng/kg	52.4	5.24		0.916	0.0916	J	0.26	0.0260	NJ+	0.959	0.0959	J
1,2,3,4,7,8-HxCDF	0.1	ng/kg	39.7	3.97		1.38	0.138	J	< 0.313	0.016		< 0.396	0.020	
1,2,3,6,7,8-HxCDD	0.1	ng/kg	235	23.5		4.7	0.470		0.986	0.0986	J	1.61	0.161	J
1,2,3,6,7,8-HxCDF	0.1	ng/kg	25.1	2.51		0.66	0.0660	J	< 0.31	0.016		< 0.404	0.020	
1,2,3,7,8,9-HxCDD	0.1	ng/kg	228	22.8		2.8	0.280		0.915	0.0915	NJ+	3.11	0.311	
1,2,3,7,8,9-HxCDF	0.1	ng/kg	0.78	0.0780	NJ+	< 0.516	0.026		< 0.396	0.020		< 0.536	0.027	
1,2,3,7,8-PeCDD	1	ng/kg	39.9	39.9		0.67	0.670	J	0.331	0.331	J	< 0.0977	0.05	
1,2,3,7,8-PeCDF	0.03	ng/kg	2.92	0.0876		< 0.0725	0.0011		< 0.05	0.0008		< 0.108	0.0016	
2,3,4,6,7,8-HxCDF	0.1	ng/kg	23.9	2.39		< 0.431	0.022		< 0.336	0.017		< 0.448	0.022	
2,3,4,7,8-PeCDF	0.3	ng/kg	6.85	2.06		< 0.0699	0.010		< 0.0492	0.007		< 0.104	0.016	
2,3,7,8-TCDD	1	ng/kg	7.91	7.91		< 0.0814	0.041		< 0.0619	0.031		< 0.088	0.044	
2,3,7,8-TCDF	0.1	ng/kg	1.15	0.115		< 0.06	0.0030		< 0.0534	0.0027		< 0.112	0.0056	
Total TCDD TEQ (1)				234			5.3			0.9			1.55	

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

■ - Shaded value exceeds Method B screening level

Table F-3-3 Geoprobes Soils Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			LL01 LL01-0-0.5 04/03/08	LL01 LL01-1.5-2 04/03/08	LL01 DUP02-040308 04/03/08	LL07 LL07-0-0.5 04/03/08	LL07 LL07-1.5-2 04/03/08	LL08 LL08-0-0.5 04/03/08	LL08 LL08-1.5-2 04/03/08	LL08 LL08-2-4 04/03/08	LL08 DUP01-040308 04/03/08	
Chemical Name (µg/kg)	TEFs	Unit	Reported Value TEQ		Reported Value TEQ		Reported Value TEQ		Reported Value TEQ		Reported Value TEQ	
Carcinogenic PAH												
Benzo(a)anthracene	0.1	µg/kg	7.8	0.8	2.9	0.3 J	3.9	0.39 J	2.3	0.2 J	17	1.7
Benzo(a)pyrene	1	µg/kg	9.2	9.2	<	5.5 2.8 UJ	<	5.5 2.75 UJ	<	7.3 3.7	18	18
Benzo(b)fluoranthene	0.1	µg/kg	15	1.5	4.6	0.5 J	5.1	0.51 J	5	0.5 J	23	2.3
Benzo(k)fluoranthene	0.1	µg/kg	4.2	0.4 J	<	5.5 0.3 UJ	1.9	0.19 J	<	7.3 0.4	1.5	0.2 J
Chrysene	0	µg/kg	13	0.1	4.3	0 J	5.5	0.06 J	4.5	0 J	4	0 J
Dibenz(a,h)anthracene	0.1	µg/kg	<	5.8 0.3	<	5.5 0.3	<	5.5 0.28	<	7.3 0.4	<	5.8 0.3
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	8.9	0.9	2.8	0.3 J	3.6	0.36 J	<	7.3 0.4	2.7	0.3 J
Total cPAH TEQ (1)				13.2		4.4		4.53		5.5		4.3
										24.5		31.8
											119	156

Location ID Sample ID Sample Date			LL08 LL08-13-15 04/03/08	LL09 LL09-0-0.5 04/03/08	LL09 LL09-1.5-2 04/03/08	LL09 LL09-6-8 04/03/08	LL09 LL09-13-15 04/03/08	LL10 LL10-0-0.5 04/03/08	LL10 LL10-1.5-2 04/03/08	
Chemical Name	TEFs	Unit	Reported Value TEQ		Reported Value TEQ		Reported Value TEQ		Reported Value TEQ	
Carcinogenic PAH										
Benzo(a)anthracene	0.1	µg/kg	<	5.5 0.3	<	5.5 0.3	<	5.6 0.28	<	5.6 0.3
Benzo(a)pyrene	1	µg/kg	<	5.5 2.8	<	5.5 2.8	<	5.6 2.8	<	6.1 3.1
Benzo(b)fluoranthene	0.1	µg/kg	<	5.5 0.3	3.5	0.4 J	<	5.6 0.28	<	5.6 0.3
Benzo(k)fluoranthene	0.1	µg/kg	<	5.5 0.3	<	5.5 0.3	<	5.6 0.28	<	5.6 0.3
Chrysene	0	µg/kg	<	5.5 0	4.3	0 J	<	5.6 0.03	<	5.6 0
Dibenz(a,h)anthracene	0.1	µg/kg	<	5.5 0.3	<	5.5 0.3	<	5.6 0.28	<	5.6 0.3
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	<	5.5 0.3	<	5.5 0.3	<	5.6 0.28	<	5.6 0.3
Total cPAH TEQ (1)				NC		4.2		NC		4.2
										NC
										77.3
										NC

Location ID Sample ID Sample Date			LL11 LL11-0-0.5 04/03/08	LL11 LL11-1.5-2 04/03/08	LL12 LL12-0-0.5 04/03/08	LL12 LL12-1.5-2 04/03/08	LL12 LL12-6-8 04/03/08	LL12 LL12-13-15 04/03/08
Chemical Name	TEFs	Unit	Reported Value TEQ		Reported Value TEQ		Reported Value TEQ	
Carcinogenic PAH								
Benzo(a)anthracene	0.1	µg/kg	2.2	0.2 J	<	5.5 0.3	9	0.9
Benzo(a)pyrene	1	µg/kg	<	5.8 2.9	<	5.5 2.8	13	13
Benzo(b)fluoranthene	0.1	µg/kg	3.5	0.4 J	<	5.5 0.3	20	2
Benzo(k)fluoranthene	0.1	µg/kg	<	5.8 0.3	<	5.5 0.3	6.2	0.62
Chrysene	0	µg/kg	2.8	0 J	<	5.5 0	16	0.16
Dibenz(a,h)anthracene	0.1	µg/kg	<	5.8 0.3	<	5.5 0.3	1.8	0.18 J
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	1.6	0.2 J	<	5.5 0.3	11	1.1
Total cPAH TEQ (1)				4.2		NC		18
								4.1
								NC
								NC

MTCA Method B CUL - 0.137 mg/kg (137 µg/kg)

Notes

(1) Total cPAH TEQ calculated using Toxicity Equivalency Factors from MTCA Regulations Revised November 2007. One-half the detection limit used for non-detect results.

Qualifiers

U = non-detect

J = estimated concentration (value less than calculated reporting limit)

D = compounds at secondary dilution factor

highlight indicates exceedance of the MTCA Method B cleanup level of 137 µg/kg

NC= Not Calculated where all constituents are not detected

Bold = Deleted values

Table F-3-4 Monitoring Well Soils Analytical Results: Metals, VOCs, SVOCs, TPH

Chemical Name	Location ID Sample ID Sample Date			MW-2 MW-2-0-0.5 3/18/2008	MW-2 MW-2-1.5-2 3/18/2008	MW-2 MW-2-6.5-8 3/18/2008	MW-2 MW-2-14-15.5 3/18/2008	MW-3 MW-3-0-0.5 3/18/2008	MW-3 MW-3-1.5-2 3/18/2008	MW-3 MW-3-6.5-8 3/18/2008	MW-3 MW-3-14-15.5 3/18/2008	MW-4 MW-4-0-0.5 3/17/2008	MW-4 MW-4-1.5-2 3/17/2008
	MTCA A	MTCA B - Carcinogen	MTCA B Non-Carcinogen										
Metals EPA Method 6020 / 7471A (mg/kg)													
Antimony			32	0.83 J	0.27 J	0.06 J	0.07 J	0.17 J	0.19 J	0.24 J	0.09 J	2.27 J	0.28 J
Arsenic	20	0.67	24	11.2	1.5	1.8	1.8	3.2	3.7	4.6	2.1	10.1	2.6
Beryllium			160	0.269 J	0.275 J	0.164 J	0.177 J	0.259 J	0.262 J	0.323 J	0.214 J	0.257 J	0.212 J
Cadmium			80	0.437	0.072	0.043	0.057	0.226	0.21	0.352	0.064	3.56	0.176
Chromium	19/2000			25.8	20.7 J	27.3 J	30.2 J	20.9	24.7 J	27.2 J	26.4 J	41 J	24.8 J
Copper			3000	30	6.44 J	8.18 J	12.1 J	16.5	12.9 J	18.4 J	13 J	64.8 J	13.7 J
Lead	250			53.7	2.46	1.82	1.91	10.4	13.2	15.1	2.07	370	12.3
Mercury	2		24	0.072 J	0.027	0.01 J	0.02	0.039 J	0.032	0.042	0.016 J	0.131	0.027
Nickel			1600	37.5	25 J	26.9 J	35.6 J	33.5	29.8 J	37.5 J	34.3 J	32.2 J	29.6 J
Selenium			400	0.3 J	0.4 J	< 1.2	< 1.1	J	< 1.1	0.4 J	< 1.1	0.5 J	0.4 J
Silver			400	0.086	0.107	0.033	0.038	0.045	0.072	0.087	0.034	0.188	0.111
Thallium			6	0.066	0.067	0.03	0.035	0.053	0.05	0.067	0.042	0.059	0.043
Zinc			24000	76.9	18.8 J	22.3 J	26.9 J	38.9	33.4 J	44.2 J	27.2 J	598 J	34.4 J
Volatile Organic Compounds EPA Method 8260 (µg/kg)													
1,2,4-Trichlorobenzene				< 27	< 24	< 22	< 21	< 21	< 22	< 28	< 31	< 24	< 20
1,2,4-Trimethylbenzene			4.0E+06	< 27	< 24	< 22	< 21	< 21	< 22	< 28	< 31	< 24	< 20
1,3,5-Trimethylbenzene				< 27	< 24	< 22	< 21	< 21	< 22	< 28	< 31	< 24	< 20
1,4-Dichlorobenzene				0.3 J	0.15 J	< 5.5	< 5.2	< 5.3	< 5.5	< 6.9	< 7.7	0.14 J	< 4.9
2-Butanone			4.8E+07	16 J	6.1 J	< 22	< 21	3.8 J	6.5 J	6.5 J	< 31	7.9 J	3.9 J
4-Isopropyltoluene				1.9 J	0.67 J	< 22	< 21	< 21	< 22	0.11 J	< 31	< 24	< 20
4-Methyl-2-Pentanone (MIBK)				< 27	< 24	< 22	< 21	< 21	< 22	< 28	< 31	< 24	< 20
Acetone			8.0E+06	320	95	3.5 J	3.6 J	98	190	99	13 J	150	71
Benzene	0.03	180	3.2E+05	< 6.6	< 5.9	< 5.5	< 5.2	< 5.3	< 5.5	< 6.9	< 7.7	< 5.9	< 4.9
Carbon Disulfide			8.0E+06	< 6.6	2.2 J	< 5.5	< 5.2	< 5.3	0.097 J	0.63 J	< 7.7	0.13 J	0.059 J
Dichlorodifluoromethane			1.6E+07	0.29 J	< 5.9	0.29 J	0.31 J	0.19 J	< 5.5	2.8 J	3.8 J	0.26 J	0.14 J
m,p-Xylene	9.0E+03			0.25 J	< 5.9	< 5.5	< 5.2	< 5.3	0.53 J	< 6.9	< 7.7	< 5.9	< 4.9
Methylene Chloride	20	1.3E+05	4.8E+06	0.59 J	0.5 J	0.52 J	0.61 J	0.35 J	0.67 J	0.49 J	0.57 J	0.34 J	0.36 J
Naphthalene	5.0E+03		1.6E+06	0.76 J	0.22 J	0.21 J	< 21	0.17 J	0.28 J	< 28	< 31	0.46 J	0.32 J
o-Xylene	9.0E+03		1.6E+08	< 6.6	< 5.9	< 5.5	< 5.2	< 5.3	0.25 J	< 6.9	< 7.7	< 5.9	< 4.9
Styrene				< 6.6	< 5.9	< 5.5	< 5.2	< 5.3	< 5.5	< 6.9	< 7.7	< 5.9	< 4.9
Toluene	7.0E+03		6.4E+06	0.6 J	1 J	< 5.5	0.26 J	0.35 J	0.89 J	0.51 J	0.22 J	0.34 J	0.33 J
Trichlorofluoromethane				< 6.6	0.21 J	< 5.5	< 5.2	1.1 J	< 5.5	< 6.9	2.7 J	< 5.9	< 4.9

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)

Italics and Bold - Detection limit exceeds CUL

Table F-3-4 Monitoring Well Soils Analytical Results: Metals, VOCs, SVOCs, TPH

Chemical Name	MTCA A	MTCA B - Carcinogen	MTCA B Non-Carcinogen	Location ID	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4
				Sample ID	MW-2-0-0.5	MW-2-1.5-2	MW-2-6.5-8	MW-2-14-15.5	MW-3-0-0.5	MW-3-1.5-2	MW-3-6.5-8	MW-3-14-15.5	MW-4-0-0.5	MW-4-1.5-2
				Sample Date	3/18/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008	3/17/2008	3/17/2008
Semi-volatile Organic Compounds EPA Method 8270 (µg/kg)														
1,4-Dichlorobenzene					< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	< 99	< 9.9
2-Methylnaphthalene			3.2E+05		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	36 J	< 9.9
Acenaphthene			4.8E+06		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	< 99	< 9.9
Acenaphthylene					4 J	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	67 J	< 9.9
Anthracene			2.4E+07		3 J	< 9.9	< 9.2	< 8.2	< 9	1.7 J	1.9 J	< 7.3	44 J	< 9.9
Benzo(a)anthracene					7.9 J	< 9.9	< 9.2	< 8.2	< 9	4.6 J	3.4 J	< 7.3	91 J	< 9.9
Benzo(a)pyrene		140			13	< 9.9	< 9.2	< 8.2	< 9	5.9 J	< 9.7	< 7.3	99	1.9 J
Benzo(b)fluoranthene					19	< 9.9	< 9.2	< 8.2	< 9	6.7 J	5.2 J	< 7.3	190	2 J
Benzo(g,h,i)perylene					14	< 9.9	< 9.2	< 8.2	< 9	4.3 J	3.3 J	< 7.3	110	2.3 J
Benzo(k)fluoranthene					5.9 J	< 9.9	< 9.2	< 8.2	< 9	2.6 J	2.3 J	< 7.3	64 J	< 9.9
Benzoic Acid			3.2E+08		110 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol			2.4E+07		< 20	< 20	< 19	< 17	< 18	< 20	< 20	< 15	< 200	< 20
bis(2-Ethylhexyl)phthalate		7.1E+04	1.6E+06		36 J	< 99	10 J	7.9 J	19 J	16 J	99	19 J	< 990	12 J
Butylbenzylphthalate			1.6E+07		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	< 99	< 9.9
Chrysene					16	< 9.9	< 9.2	< 8.2	2.2 J	5.8 J	6 J	< 7.3	200	2.5 J
Dibenz(a,h)anthracene					< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	25 J	< 9.9
Dibenzofuran			1.6E+05		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	16 J	< 9.9
Di-n-Butylphthalate			8.0E+06		< 20	< 20	< 19	< 17	< 18	< 20	< 20	< 15	< 200	< 20
Fluoranthene			3.2E+06		24	< 9.9	< 9.2	< 8.2	2.6 J	8.4 J	12	< 7.3	290	3.5 J
Fluorene			3.2E+06		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	2.1 J	< 7.3	< 99	< 9.9
Indeno(1,2,3-cd)pyrene					14	< 9.9	< 9.2	< 8.2	< 9	4.6 J	2.8 J	< 7.3	110	1.8 J
Naphthalene	5.0E+03		1.6E+06		< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3	< 99	< 9.9
Pentachlorophenol		8.3E+03	2.4E+06		57 J	< 99	< 92	< 82	< 90	< 99	< 97	< 73	15,000	57 J
Phenanthrene					19	< 9.9	< 9.2	< 8.2	1.7 J	6.8 J	15	< 7.3	220	1.9 J
Pyrene			2.4E+06		25	< 9.9	< 9.2	< 8.2	2.2 J	10	9.9	< 7.3	320	3.4 J
NWTPH (mg/kg)														
Diesel Range Hydrocarbons	2.0E+03				< 21 U	< 14 U	< 3.3 U	< 1.8 U	< 8.9 U	< 5.3 U	< 15 U	< 1.4 U	96 NJ	2.1 J
Residual Range Organics (RRO)	2.0E+03				190 NJ	< 50 U	< 26 U	< 14 U	< 67 U	< 36 U	< 86 U	< 11 U	480 J	< 15 U
Gasoline Range Hydrocarbons	30				< 1.3 U	< 5.8	< 6.4	< 7	0.65 J	< 5.8	< 8.7	< 5.7	< 4.6 U	< 1 U

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)

Italics and Bold - Detection limit exceeds CUL

Table F-3-4 Monitoring Well Soils Analytical Results: Metals, VOCs, SVOCs, TPH

Chemical Name	MTCA A	MTCA B - Carcinogen	MTCA B Non-Carcinogen	Location ID	MW-4	MW-4	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6
				Sample ID	MW-4-9-10.5	MW-4-14-15.5	MW-5-0-0.5	MW-5-1.5-2	MW-5-6.5-8	MW-5-11.5-13	MW-6-0-0.5	MW-6-1.5-2	MW-6-11.5-13	MW-6-19-21.5
				Sample Date	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008
Metals EPA Method 6020 / 7471A (mg/kg)														
Antimony			32		0.19 J	0.14 J	2.32 J	0.26 J	1.6 J	0.61 J	0.56 J	0.35 J	0.11 J	0.08 J
Arsenic	20	0.67	24		2.6	2.2	10.2	3.6	3.1	8.7	9.2	5.3	2.2	2.2
Beryllium			160		0.185 J	0.28 J	0.293 J	0.279 J	0.214 J	0.229 J	0.28 J	0.24 J	0.259 J	0.167 J
Cadmium			80		0.149	0.081	4.49	0.163	0.573	0.377	0.402	0.277	0.074	0.086
Chromium	19/2000				27.8	31.3 J	38.2 J	29	21.1 J	25 J	52.9 J	44.9 J	47.8 J	36 J
Copper			3000		16	24.5 J	72.6 J	17.8	17.9 J	17.3 J	18 J	13.6 J	13.4 J	12.2 J
Lead	250				10.3	2.98	294	18.2	78.8	121	51.1	26.6	4.17	2.13
Mercury	2		24		0.023 J	0.029	0.128	0.053 J	0.053	0.047	0.215	0.107	0.019 J	0.02
Nickel			1600		39.5	44.6 J	38.3 J	37.1	28.3 J	29.5 J	28.7 J	26.7 J	36.4 J	32.7 J
Selenium			400		J	< 1.2	0.5 J	0.3 J	0.4 J	< 1.2	0.4 J	< 1.1	0.4 J	< 1.2
Silver			400		0.021 J+	0.05	0.179	0.062	0.107	0.113	0.124	0.085	0.064	0.037
Thallium			6		0.052	0.068	0.096	0.06	0.056	0.054	0.062	0.054	0.066	0.044
Zinc			24000		37.1	34.9 J	641 J	42.4	143 J	68.1 J	64.6 J	50.1 J	27.6 J	26.9 J
Volatile Organic Compounds EPA Method 8260 (µg/kg)														
1,2,4-Trichlorobenzene					< 11	< 25	0.35 J	< 23	< 23	< 21	< 39	< 24	< 15	< 18
1,2,4-Trimethylbenzene			4.0E+06		< 11	< 25	0.29 J	< 23	0.19 J	0.16 J	0.25 J	< 24	< 15	< 18
1,3,5-Trimethylbenzene					< 11	< 25	0.13 J	< 23	< 23	< 21	< 39	< 24	< 15	< 18
1,4-Dichlorobenzene					< 2.8	0.22 J	0.55 J	0.15 J	< 5.6	< 5.2	0.39 J	< 6	< 3.6	< 4.4
2-Butanone			4.8E+07		1.5 J	< 25	21 J	6.5 J	6.3 J	8.3 J	26 J	9.4 J	< 15	< 18
4-Isopropyltoluene					< 11	< 25	< 27	0.34 J	< 23	0.34 J	< 39	< 24	< 15	< 18
4-Methyl-2-Pentanone (MIBK)					< 11	< 25	0.95 J	< 23	< 23	< 21	< 39	< 24	< 15	< 18
Acetone			8.0E+06		18	5.3 J	410	210	110	81	380	180	8.7 J	4.6 J
Benzene	0.03	180	3.2E+05		< 2.8	< 6.2	1.7 J	< 5.6	< 5.6	0.96 J	< 9.8	< 6	< 3.6	< 4.4
Carbon Disulfide			8.0E+06		0.06 J	< 6.2	0.35 J	0.18 J	0.3 J	1.9 J	0.14 J	< 6	0.093 J	< 4.4
Dichlorodifluoromethane			1.6E+07		2.4 J	0.27 J	1.1 J	0.19 J	0.19 J	0.17 J	12	< 6	0.61 J	1.9 J
m,p-Xylene	9.0E+03				< 2.8	< 6.2	0.73 J	0.23 J	0.44 J	0.27 J	< 9.8	< 6	< 3.6	< 4.4
Methylene Chloride	20	1.3E+05	4.8E+06		2.4 J	0.42 J	0.75 J	0.41 J	0.46 J	0.35 J	6.4 J	0.37 J	0.93 J	0.63 J
Naphthalene	5.0E+03		1.6E+06		< 11	0.5 J	1 J	0.61 J	0.59 J	0.7 J	1.7 J	< 24	0.41 J	0.21 J
o-Xylene	9.0E+03		1.6E+08		< 2.8	< 6.2	0.43 J	< 5.6	0.22 J	< 5.2	< 9.8	< 6	< 3.6	< 4.4
Styrene					< 2.8	< 6.2	0.12 J	< 5.6	< 5.6	< 5.2	< 9.8	< 6	< 3.6	< 4.4
Toluene	7.0E+03		6.4E+06		< 2.8	< 6.2	1.5 J	0.52 J	0.64 J	0.99 J	0.66 J	0.59 J	0.22 J	0.22 J
Trichlorofluoromethane					< 2.8	< 6.2	< 6.7	< 5.6	< 5.6	< 5.2	2.4 J	< 6	< 3.6	< 4.4

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)

Italics and Bold - Detection limit exceeds CUL

Table F-3-4 Monitoring Well Soils Analytical Results: Metals, VOCs, SVOCs, TPH

Chemical Name	MTCA A	MTCA B - Carcinogen	MTCA B Non-Carcinogen	Location ID	MW-4	MW-4	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	
				Sample ID	MW-4-9-10.5	MW-4-14-15.5	MW-5-0-0.5	MW-5-1.5-2	MW-5-6.5-8	MW-5-11.5-13	MW-6-0-0.5	MW-6-1.5-2	MW-6-11.5-13	MW-6-19-21.5	
				Sample Date	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/17/2008	3/18/2008	3/18/2008	3/18/2008	3/18/2008	
Semi-volatile Organic Compounds EPA Method 8270															
(µg/kg)															
1,4-Dichlorobenzene					< 9.9	< 9.8	20 J	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
2-Methylnaphthalene			3.2E+05		< 9.9	< 9.8	22 J	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
Acenaphthene			4.8E+06		< 9.9	< 9.8	8.1 J	< 9.9	< 9.9	51 J	< 10	< 9.6	< 9.9	< 9.9	
Acenaphthylene					1.2 J	< 9.8	50	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
Anthracene			2.4E+07		< 9.9	< 9.8	43 J	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
Benzo(a)anthracene					2.7 J	< 9.8	100	< 9.9	3 J	35 J	6.2 J	2.2 J	2 J	< 9.9	
Benzo(a)pyrene		140			4 J	< 9.8	180	< 9.9	4.2 J	< 200	7.8 J	< 9.6	< 9.9	< 9.9	
Benzo(b)fluoranthene					4.3 J	< 9.8	220	< 9.9	6.7 J	< 200	12	3.4 J	< 9.9	< 9.9	
Benzo(g,h,i)perylene					3 J	< 9.8	210	< 9.9	5.1 J	39 J	8 J	2.2 J	< 9.9	< 9.9	
Benzo(k)fluoranthene					1.5 J	< 9.8	79	< 9.9	2.8 J	< 200	4 J	< 9.6	< 9.9	< 9.9	
Benzoic Acid			3.2E+08		NA	NA	NA	NA	NA	NA	130 J	140 J	NA	NA	
Benzyl Alcohol			2.4E+07		< 20	< 20	< 99	< 20	< 20	< 400	< 20	< 20	2.9 J	< 20	
bis(2-Ethylhexyl)phthalate		7.1E+04	1.6E+06		170	18 J	67 J	24 J	470	180 J	31 J	35 J	130	10 J	
Butylbenzylphthalate			1.6E+07		< 9.9	< 9.8	< 50	< 9.9	8.3 J	< 200	< 10	< 9.6	< 9.9	4.4 J	
Chrysene					4.2 J	< 9.8	160	3.3 J	5.3 J	58 J	10	2.9 J	1.7 J	< 9.9	
Dibenz(a,h)anthracene					< 9.9	< 9.8	27 J	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
Dibenzofuran			1.6E+05		< 9.9	< 9.8	6.2 J	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	< 9.9	
Di-n-Butylphthalate			8.0E+06		< 20	< 20	330	< 20	< 20	< 400	< 20	< 20	< 20	< 20	
Fluoranthene			3.2E+06		5.9 J	< 9.8	280	3.4 J	7 J	56 J	13	5.9 J	5 J	4.5 J	
Fluorene			3.2E+06		< 9.9	< 9.8	14 J	< 9.9	< 9.9	< 200	< 10	1.1 J	< 9.9	1.3 J	
Indeno(1,2,3-cd)pyrene					3 J	< 9.8	190	< 9.9	5 J	< 200	7 J	2.1 J	< 9.9	< 9.9	
Naphthalene	5.0E+03		1.6E+06		< 9.9	< 9.8	50	< 9.9	< 9.9	< 200	< 10	< 9.6	< 9.9	4 J	
Pentachlorophenol		8.3E+03	2.4E+06		130	< 98	2,700	53 J	120	< 2,000	65 J	< 96	< 99	< 99	
Phenanthrene					5.6 J	< 9.8	190	2.3 J	4 J	210	8.3 J	8.1 J	8.2 J	7.7 J	
Pyrene			2.4E+06		6.6 J	< 9.8	290	3.1 J	6.8 J	150 J	12	4.5 J	3.8 J	2.8 J	
NWTPH (mg/kg)															
Diesel Range Hydrocarbons	2.0E+03				1.5 J	< 31	90 NJ	2.7 J	19 J	1,100 J	< 15 U	< 11 U	56 J	< 2.3 U	
Residual Range Organics (RRO)	2.0E+03				< 9.5 U	< 9.3 U	480 J	< 21 U	< 88 U	810 J	180 NJ	< 99 U	< 32 U	< 19 U	
Gasoline Range Hydrocarbons	30				< 0.83 U	< 2 U	< 2.9 U	< 5.8	< 0.73 U	14 NJ	< 6.9	< 6.1	< 5.9	< 6	

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)

Italics and Bold - Detection limit exceeds CUL

Table F-3-5 Monitoring Well Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotients (TEQ)

Chemical Name	TEFs	Location ID Sample ID Sample Date Unit	MW-2 MW-2-0-0.5 03/18/08		MW-2 MW-2-1.5-2 03/18/08		MW-2 MW-2-6.5-8 03/18/08		MW-2 MW-2-14-15.5 03/18/08		MW-3 MW-3-0-0.5 03/18/08		MW-3 MW-3-1.5-2 03/18/08		MW-3 MW-3-6.5-8 03/18/08		MW-3 MW-3-14-15.5 03/18/08		MW-4 MW-4-0-0.5 03/17/08		MW-4 MW-4-1.5-2 03/17/08	
			Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	12,300	3.69 J	12.9	0.00387 J	21.0	0.0063 J	910	0.273 J	608	0.182	880	0.264	890	0.267	16.1	0.00483	295,000	88.5	9,340	2.80 J
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	1,520	0.456 J	< 1.88	0.000282	< 2.89	0.0004335	98.3	0.02949	77.6	0.0233	71.6	0.0215	101	0.0303	< 1.16	0.000174	75,400	22.6	1,260	0.378
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	998	9.98 J	< 2.42	0.0121	2.35	0.0235	75.9	0.759	67	0.670	87	0.870	98.7	0.987	< 1.76	0.0088	81,300	813	909	9.09
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	258	2.58	< 0.668	0.00334	< 0.625	0.003125	17.7	0.177	18.3	0.183	20.6	0.206	24.2	0.242	< 0.266	0.00133	19,200	192	251	2.51
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	12.3	0.123	< 0.063	0.0003	< 0.0572	0.000286	0.706	0.00706 J	0.577	0.00577 J	1.17	0.0117 J	0.937	0.00937 J	< 0.0395	0.0002	897	8.97	9.86	0.0986
1,2,3,4,7,8-HxCDD	0.1	ng/kg	4.27	0.427	< 0.0331	0.001655	< 0.0243	0.001215	0.224	0.0224 NJ+	0.381	0.0381 J	0.641	0.0641 J	0.737	0.0737 J	< 0.0265	0.001	506	50.6 J	6.33	0.633
1,2,3,4,7,8-HxCDF	0.1	ng/kg	8.94	0.894	0.0614	0.00614 NJ+	< 0.0235	0.001	0.276	0.0276 J	0.946	0.0946 J	1.74	0.174 J	0.97	0.0970 J	< 0.0231	0.001	619	61.9 J	5.1	0.510
1,2,3,6,7,8-HxCDD	0.1	ng/kg	23.2	2.32	< 0.0321	0.002	0.0989	0.00989 J	1.81	0.181 J	1.73	0.173 J	3.26	0.326	2.82	0.282 J	0.0966	0.00966 J	3,560	356	32.7	3.27
1,2,3,6,7,8-HxCDF	0.1	ng/kg	3.33	0.333	< 0.0239	0.001	< 0.0241	0.001	0.171	0.0171 J	0.575	0.0575 J	1.01	0.101 J	0.885	0.0885 J	< 0.0235	0.001	354	35.4	3.1	0.310
1,2,3,7,8,9-HxCDD	0.1	ng/kg	12.3	1.23	0.164	0.0164 J	0.0976	0.00976 J	1.43	0.143 J	1.44	0.144 J	1.78	0.178 J	2.45	0.245 J	0.0946	0.00946 J	2,550	255	28.3	2.83
1,2,3,7,8,9-HxCDF	0.1	ng/kg	< 0.198	0.010	< 0.0317	0.002	< 0.0319	0.002	< 0.0349	0.002	< 0.0458	0.002	< 0.0594	0.003	< 0.19	0.010	< 0.0313	0.002	15.2	1.52 NJ+	< 0.757	0.038
1,2,3,7,8-PeCDD	1	ng/kg	2.87	2.87	< 0.0362	0.02	< 0.0172	0.01	0.296	0.296 NJ+	0.301	0.301 NJ+	0.453	0.453 J	0.47	0.470 NJ+	< 0.0162	0.01	511	511 J	6.48	6.48
1,2,3,7,8-PeCDF	0.03	ng/kg	0.802	0.0241 J	< 0.0191	0.0003	< 0.0139	0.0002	< 0.021	0.0003	0.0999	0.002997 NJ+	0.284	0.00852 J	< 0.0606	0.0009	< 0.0118	0.0002	35.1	1.05 NJ+	0.449	0.0135 J
2,3,4,6,7,8-HxCDF	0.1	ng/kg	2.99	0.299 NJ+	< 0.0265	0.001	< 0.0266	0.001	0.144	0.0144 NJ+	0.238	0.0238 J	0.691	0.0691 J	0.595	0.0595 J	< 0.026	0.001	273	27.3	3.04	0.304
2,3,4,7,8-PeCDF	0.3	ng/kg	1.75	0.525 J	< 0.0185	0.003	< 0.0134	0.002	0.0429	0.0129 NJ+	0.276	0.0828 J	0.376	0.113 J	0.491	0.147 J	< 0.0114	0.002	89.1	26.7	1.01	0.303 J
2,3,7,8-TCDD	1	ng/kg	4.38	4.38	< 0.0538	0.027	< 0.0208	0.010	0.114	0.114 NJ+	< 0.0345	0.017	< 0.0197	0.010	0.098	0.0980 NJ+	< 0.02	0.010	121	121	1.59	1.59
2,3,7,8-TCDF	0.1	ng/kg	0.917	0.0917 J	< 0.0641	0.0032	< 0.0287	0.0014	< 0.0214	0.0011	< 0.138	0.0069	< 0.136	0.0068	< 0.14	0.0070	< 0.0142	0.0007	20.9	2.09	< 0.0895	0.0045
Total TCDD TEQ (1)				30.2		0.10		0.082		2.08		2.01		2.88		3.11		0.062		2575		31.2

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

Value Exceeds Method B CUL

Table F-3-5 Monitoring Well Soils Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotients (TEQ)

Chemical Name	TEFs	Location ID Sample ID Sample Date Unit	MW-4 MW-4-9-10.5 03/17/08			MW-4 MW-4-14-15.5 03/17/08			MW-5 MW-5-0-0.5 03/17/08			MW-5 MW-5-1.5-2 03/17/08			MW-5 MW-5-6.5-8 03/17/08			MW-5 MW-5-11.5-13 03/17/08			MW-6 MW-6-0-0.5 03/18/08			MW-6 MW-6-1.5-2 03/18/08			MW-6 MW-6-11.5-13 03/18/08			MW-6 MW-6-19-21.5 03/18/08			
			Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	Reported Value	TEQ	J	
1,2,3,4,6,7,8,9-OCDD	0.0003	ng/kg	35,800	10.7	J	1,390	0.417	J	657,000	197	J	6,450	1.94	J	164,000	49.2	J	27,700	8.31	J	2,950	0.885	J	1,170	0.351	J	37.6	0.0113		14.1	0.00423		
1,2,3,4,6,7,8,9-OCDF	0.0003	ng/kg	4,530	1.36		187	0.0561		110,000	33.0		771	0.231		20,800	6.24		3,490	1.05		401	0.120		121	0.0363	<	4.66	0.000699	<	0.645	0.00009675		
1,2,3,4,6,7,8-HpCDD	0.01	ng/kg	5,700	57.0	J	155	1.55		109,000	1090		767	7.67	J	20,200	202		2,490	24.9		342	3.42		141	1.41		4.16	0.0416	<	1.79	0.0090		
1,2,3,4,6,7,8-HpCDF	0.01	ng/kg	1,080	10.8		34.6	0.346		23,600	236		150	1.50		4,160	41.6		458	4.58		70.1	0.701		22.5	0.225	<	0.887	0.004435	<	0.183	0.000915		
1,2,3,4,7,8,9-HpCDF	0.01	ng/kg	38.6	0.386		1.81	0.0181	J	722	7.22	NJ+	6.35	0.0635		236	2.36		33.5	0.335		3.01	0.0301	J	1.51	0.0151	J	<	0.0541	0.0003	<	0.0513	0.0003	
1,2,3,4,7,8-HxCDD	0.1	ng/kg	19.3	1.93		2.18	0.218	J	539	53.9		3.67	0.367		110	11.0		9.12	0.912		1.62	0.162	J	0.735	0.0735	J	<	0.0308	0.002	<	0.0275	0.001	
1,2,3,4,7,8-HxCDF	0.1	ng/kg	17.1	1.71		0.932	0.0932	J	462	46.2	NJ+	4.27	0.427		99.6	9.96		11.3	1.13		3.33	0.333		1.33	0.133	J	<	0.026	0.001	<	0.0333	0.002	
1,2,3,6,7,8-HxCDD	0.1	ng/kg	95.8	9.58		5.03	0.503		3,750	375		21.8	2.18		570	57.0		71.7	7.17		8.61	0.861		3.44	0.344		0.145	0.0145	NJ+	<	0.0266	0.001	
1,2,3,6,7,8-HxCDF	0.1	ng/kg	9.95	0.995		0.684	0.0684	J	290	29.0		2.59	0.259	J	59.7	5.97		5.86	0.586		1.42	0.142	J	0.567	0.0567	J	<	0.0265	0.001	<	0.0341	0.002	
1,2,3,7,8,9-HxCDD	0.1	ng/kg	81.3	8.13		6.86	0.686		3,350	335		16.9	1.69		464	46.4		30.4	3.04		5.32	0.532		2.26	0.226	J	<	0.0322	0.002	<	0.0287	0.001	
1,2,3,7,8,9-HxCDF	0.1	ng/kg	<	0.463	0.023	<	0.283	0.014	12.9	1.29		<	0.229	0.011	1.94	0.194	NJ+	<	0.398	0.020	<	0.106	0.005	<	0.0698	0.003	<	0.0351	0.002	<	0.0451	0.002	
1,2,3,7,8-PeCDD	1	ng/kg	18.1	1.81		1.88	1.88	J	547	54.7		5.41	5.41		107	10.7		5.34	5.34		1.04	1.04	J	0.368	0.368	NJ+	<	0.0341	0.02	<	0.0304	0.0152	
1,2,3,7,8-PeCDF	0.03	ng/kg	1.23	0.0369	NJ+	<	0.0639	0.0010	38	1.14	NJ+	0.473	0.0142	J	8.76	0.263		0.717	0.0215	J	0.394	0.0118	NJ+	0.232	0.00696	J	<	0.0158	0.0002	<	0.0225	0.0003	
2,3,4,6,7,8-HxCDF	0.1	ng/kg	7.81	0.781		0.498	0.0498	J	209	20.9		1.93	0.193	J	46.8	4.68		5.59	0.559		0.823	0.0823	J	0.595	0.0595	J	<	0.0294	0.001	<	0.0377	0.002	
2,3,4,7,8-PeCDF	0.3	ng/kg	2.59	0.777		<	0.0617	0.009	73.9	22.2		1.28	0.384	J	16.8	5.04		1.25	0.375	J	0.791	0.237	J	0.428	0.128	J	<	0.0152	0.002	<	0.0217	0.003	
2,3,7,8-TCDD	1	ng/kg	4.11	4.11		0.521	0.521	NJ+	102	10.2		1.55	1.55		22.6	22.6		1.3	1.30		1.29	1.29		0.656	0.656	J	<	0.0405	0.020	<	0.0516	0.026	
2,3,7,8-TCDF	0.1	ng/kg	0.333	0.0333	J	<	0.0482	0.0024	9.76	0.976		1	0.100	NJ+	4.14	0.414		<	0.51	0.0255	0.685	0.0685	J	0.396	0.0396	J	<	0.0494	0.0025	<	0.0444	0.0022	
Total TCDD TEQ (1)				126			6.43			3098			24.0			572			59.7			9.92			4.13			0.12			0.073		

Notes

Total TCDD TEQ calculated using Toxicity Equivalency Factors in MTCA Regulations revised November 2007.

(1) One-half the detection limit used in TEQ calculation for non-detect results

Qualifiers:

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

+ = biased high

Method B CUL - 11 ng/kg

Value Exceeds Method B CUL

Table F-3-6 Monitoring Well Soils Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ)

Location ID Sample ID Sample Date			MW-2 MW-2-0-0.5 03/18/08	MW-2 MW-2-1.5-2 03/18/08	MW-2 MW-2-6.5-8 03/18/08	MW-2 MW-2-14-15.5 03/18/08	MW-3 MW-3-0-0.5 03/18/08	MW-3 MW-3-1.5-2 03/18/08	MW-3 MW-3-6.5-8 03/18/08	MW-3 MW-3-14-15.5 03/18/08
Chemical Name (µg/kg)	TEFs	Unit								
Carcinogenic PAH			TEQ	TEQ	TEQ	TEQ	TEQ	TEQ	TEQ	TEQ
Benzo(a)anthracene	0.1	µg/kg	7.9 J	< 9.9	< 9.2	< 8.2	< 9	4.6 J	3.4 J	< 7.3
Benzo(a)pyrene	1	µg/kg	13	< 9.9	< 9.2	< 8.2	< 9	5.9 J	< 9.7	< 7.3
Benzo(b)fluoranthene	0.1	µg/kg	19	< 9.9	< 9.2	< 8.2	< 9	6.7 J	5.2 J	< 7.3
Benzo(k)fluoranthene	0.1	µg/kg	5.9 J	< 9.9	< 9.2	< 8.2	< 9	2.6 J	2.3 J	< 7.3
Chrysene	0.01	µg/kg	16	< 9.9	< 9.2	< 8.2	2.2 J	5.8 J	6 J	< 7.3
Dibenz(a,h)anthracene	0.1	µg/kg	< 10	< 9.9	< 9.2	< 8.2	< 9	< 9.9	< 9.7	< 7.3
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	14	< 9.9	< 9.2	< 8.2	< 9	4.6 J	2.8 J	< 7.3
Total cPAH TEQ (1)			18.3	NC	NC	NC	6.8	8.3	6.8	NC

Location ID Sample ID Sample Date			MW-4 MW-4-0-0.5 03/17/08	MW-4 MW-4-1.5-2 03/17/08	MW-4 MW-4-9-10.5 03/17/08	MW-4 MW-4-14-15.5 03/17/08	MW-5 MW-5-0-0.5 03/17/08	MW-5 MW-5-1.5-2 03/17/08	MW-5 MW-5-6.5-8 03/17/08	MW-5 MW-5-11.5-13 03/17/08
Chemical Name (µg/kg)	TEFs	Unit								
Carcinogenic PAH			TEQ	TEQ	TEQ	TEQ	TEQ	TEQ	TEQ	TEQ
Benzo(a)anthracene	0.1	µg/kg	91 J	< 9.9	2.7 J	< 9.8	100	< 9.9	3 J	35 J
Benzo(a)pyrene	1	µg/kg	99	1.9 J	4 J	< 9.8	180	< 9.9	4.2 J	< 200*
Benzo(b)fluoranthene	0.1	µg/kg	190	2 J	4.3 J	< 9.8	220	< 9.9	6.7 J	< 200*
Benzo(k)fluoranthene	0.1	µg/kg	64 J	< 9.9	1.5 J	< 9.8	79	< 9.9	2.8 J	< 200*
Chrysene	0.01	µg/kg	200	2.5 J	4.2 J	< 9.8	160	3.3 J	5.3 J	58 J
Dibenz(a,h)anthracene	0.1	µg/kg	25 J	< 9.9	< 9.9	< 9.8	27 J	< 9.9	< 9.9	< 200*
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	110	1.8 J	3 J	< 9.8	190	< 9.9	5 J	< 200*
Total cPAH TEQ (1)			149	3.8	5.7	NC	243	7.5	6.5	144

Location ID Sample ID Sample Date			MW-6 MW-6-0-0.5 03/18/08	MW-6 MW-6-1.5-2 03/18/08	MW-6 MW-6-11.5-13 03/18/08	MW-6 MW-6-19-21.5 03/18/08
Chemical Name (µg/kg)	TEFs	Unit				
Carcinogenic PAH			TEQ	TEQ	TEQ	TEQ
Benzo(a)anthracene	0.1	µg/kg	6.2 J	2.2 J	2 J	< 9.9
Benzo(a)pyrene	1	µg/kg	7.8 J	< 9.6	< 9.9	< 9.9
Benzo(b)fluoranthene	0.1	µg/kg	12	3.4 J	< 9.9	< 9.9
Benzo(k)fluoranthene	0.1	µg/kg	4 J	< 9.6	< 9.9	< 9.9
Chrysene	0.01	µg/kg	10	2.9 J	1.7 J	< 9.9
Dibenz(a,h)anthracene	0.1	µg/kg	< 10	< 9.6	< 9.9	< 9.9
Indeno(1,2,3-cd)pyrene	0.1	µg/kg	7 J	2.1 J	< 9.9	< 9.9
Total cPAH TEQ (1)			11.3	6.6	7.2	NC

MTCA Method B CUL - 0.137 mg/kg (137 µg/kg)

Notes

Concentrations reported in µg/kg

(1) Total cPAH TEQs calculated using Toxicity Equivalency Factors from MTCA Regulations Revised November 2007. One-half the detection limit used for non-detect results.

Qualifiers:

U = non-detect

J = estimated concentration (value less than calculated reporting limit)

D = compounds at secondary dilution factor

highlight indicates exceedance of the MTCA Method B cleanup level of 137 µg/kg

NC= Not Calculated where all constituents are not detected

* = Elevated detection levels due to sample dilution.

Table F-4-1 Groundwater Analytical Results: Metals, VOCs, SVOCs, and TPH (March 2008)

Chemical Name	Method A	MCTA B Carcinogen	MCTA B Non-carcinogen	Location ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5	MW-6
				Sample ID	MW-1-0308	MW-2-0308	MW-3-0308	MW-4-0308	MW-5-0308	DUP-1-0308	MW-6-0308
				Sample Date	3/28/2008	3/28/2008	3/27/2008	3/27/2008	3/27/2008	3/27/2008	3/28/2008
Metals EPA Method 6020/7470A (µg/L)											
Antimony			6.4		0.237	0.056	0.258	0.341	0.063 J	0.071 J	0.188
Arsenic	5	0.058	4.8		10.5	< 0.33 U	< 1.39 U	< 1.38 U	3.44	3.58	1.66
Beryllium			32		< 0.02	< 0.02	< 0.02	0.008 J	< 0.04	< 0.04	0.035 J
Cadmium	5		8		0.01 J	0.026	0.018 J	0.024	0.035 J	0.051	0.117
Chromium	50				2.73 J	< 0.91 U	< 0.35 U	< 0.85 U	< 0.61 U	< 0.69 U	3.16 J
Copper			590		1.03	0.61	< 0.28 U	0.65	0.49	0.43	12.6
Lead	15				0.322	0.207	0.017 J	0.134	0.082 J	0.087 J	0.324
Zinc			4800		1.5	4.8	0.7	3.2	9.6 J	2.3 J	4
Mercury	2		4.8		0.01 J	J	0.01 J	J	J	0.01 J	0.02 J
Volatile Organic Compounds EPA Method 8260 (µg/L)											
1,2,4-Trimethylbenzene			400		3.1	0.72 J	< 2	< 2	< 2	< 2	0.17 J
1,3,5-Trimethylbenzene			400		< 2	0.21 J	< 2	< 2	< 2	< 2	< 2
4-Isopropyltoluene					0.58 J	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	700		800		0.33 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.5
Isopropylbenzene			800		0.31 J	< 2	< 2	< 2	< 2	< 2	1.8 J
m,p-Xylene	1000				0.37 J	0.55	< 0.5	< 0.5	< 0.5	< 0.5	0.33 J
Naphthalene	160		160		1.9 J	0.36 J	< 2	< 2	< 2	< 2	4
n-Butylbenzene					0.25 J	< 2	< 2	< 2	< 2	< 2	< 2
n-Propylbenzene					0.42 J	< 2	< 2	< 2	< 2	< 2	1.2 J
o-Xylene			16000		0.54	0.28 J	< 0.5	< 0.5	< 0.5	< 0.5	0.18 J
sec-Butylbenzene					0.47 J	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	5	0.08	80		0.23 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	1000		640		< 0.5	0.19 J	< 0.5	< 0.5	< 0.5	< 0.5	0.17 J
Trichloroethene	5	0.11	2.4		0.17 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Semivolatile Organic Compounds EPA Method 8270 (µg/L)											
2,4,5-Trichlorophenol			800		0.4 J	< 0.48	< 0.5	< 0.49	0.033 J	< 0.49	0.23 J
2,4,6-Trichlorophenol		4			1.5 J	< 0.48	< 0.5	< 0.49	< 0.5	< 0.49	< 2.5
2-Methylnaphthalene			32		< 0.97	0.16 J	< 0.2	< 0.2	0.038 J	0.028 J	< 1
2-Methylphenol			400		< 2.5	< 0.48	< 0.5	< 0.49	0.14 J	0.15 J	< 2.5
4-Methylphenol			40		< 2.5	< 0.48	< 0.5	< 0.49	0.12 J	0.13 J	< 2.5
Anthracene			4800		< 0.97	< 0.19	< 0.2	0.025 J	< 0.2	0.025 J	< 1
Benzo(a)anthracene					0.6 J	0.049 J	0.044 J	0.065 J	0.051 J	0.066 J	< 1
Benzo(a)pyrene		0.01			0.72 J	0.038 J	< 0.2	0.047 J	0.037 J	0.039 J	< 1
Benzo(b)fluoranthene					0.83 J	0.05 J	0.036 J	0.059 J	0.061 J	0.064 J	< 1
Benzo(g,h,i)perylene					0.37 J	0.034 J	0.022 J	0.035 J	0.035 J	0.044 J	< 1
Benzo(k)fluoranthene					0.37 J	0.04 J	0.027 J	0.047 J	0.053 J	0.053 J	< 1
Benzoic Acid			64000		6.9 J	< 4.8	1.2 J	1.2 J	1.2 J	1.2 J	6.3 J
Benzyl Alcohol			2400		< 25	0.21 J	< 5	< 4.9	0.22 J	0.21 J	< 25
bis(2-Ethylhexyl)phthalate		6.3	320		1.2 J	0.5 J	< 0.99	0.48 J	0.13 J	0.27 J	0.74 J
Chrysene					0.75 J	0.065 J	0.046 J	0.079 J	0.071 J	0.077 J	< 1
Dibenz(a,h)anthracene					< 0.97	0.027 J	0.024 J	0.041 J	0.045 J	0.041 J	< 1
Di-n-Octyl phthalate			320		< 0.97	0.045 J	0.024 J	0.059 J	0.048 J	0.055 J	< 1
Fluoranthene			640		0.85 J	0.079 J	0.052 J	0.094 J	0.081 J	0.081 J	< 1
Indeno(1,2,3-cd)pyrene					0.4 J	0.036 J	0.027 J	0.042 J	0.034 J	0.037 J	< 1
Naphthalene			160		0.39 J	0.15 J	0.029 J	0.045 J	0.042 J	0.038 J	< 1
Pentachlorophenol		0.73	480		16	< 0.95	< 0.99	< 0.97	0.97 J	1.1	< 5
Phenanthrene					< 0.97	0.041 J	0.022 J	0.04 J	0.03 J	0.037 J	< 1
Pyrene			480		2.6	0.072 J	0.047 J	0.089 J	0.077 J	0.083 J	< 1
NWTPH (µg/L)											
Diesel Range Hydrocarbons	500				6,300 J	< 39 U	< 18 U	< 19 U	< 57 U	< 130 U	7,300 J
Residual Range Organics (RRO)	500				8,300 J	< 73 U	< 34 U	< 43 U	< 46 U	< 100 U	890 NJ
Gasoline Range Organics-NWTPH	800				390 NJ	34 J	< 250	< 250	< 250	17 J	150 J

Shaded and Bold - Value exceed Method B CUL (or Method A if no Method B value available)

Italics and Bold - Detection limit exceeds CUL

Table F-4-2 Groundwater Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ) (March 2008)

Location ID Sample ID Sample Date			MW-1 MW-1-0308 03/28/08	MW-2 MW-2-0308 03/28/08	MW-3 MW-3-0308 03/27/08	MW-4 MW-4-0308 03/27/08	MW-5 MW-5-0308 03/27/08	MW-5 DUP-1-0308 03/27/08	MW-6 MW-6-0308 03/28/08					
Chemical Name	TEFs	Unit	Reported		Reported		Reported		Reported		Reported		Reported	
			Value	TEQ	Value	TEQ	Value	TEQ	Value	TEQ	Value	TEQ	Value	TEQ
Dioxins/Furans														
1,2,3,4,6,7,8,9-OCDD	0.0003	pg/l	109,000	32.7 J	73	0.0219 J	< 21.2	0.00318	101	0.0303 J	< 46.5	0.00698	< 28.2	0.00423
1,2,3,4,6,7,8,9-OCDF	0.0003	pg/l	3,590	1.08	3.45	0.00104 J	1.73	0.00052 NJ+	9.32	0.00280 J	4.1	0.00123 J	2.52	0.00076 J
1,2,3,4,6,7,8-HpCDD	0.01	pg/l	6,380	63.8 J	< 7.06	0.0353	< 2.25	0.01125	< 9.72	0.0486	< 5.9	0.0295	< 4.55	0.02275
1,2,3,4,6,7,8-HpCDF	0.01	pg/l	758	7.58	< 0.563	0.00282	< 0.365	0.002	< 3.6	0.018	< 0.937	0.00469	< 0.61	0.00305
1,2,3,4,7,8,9-HpCDF	0.01	pg/l	35.3	0.353	< 0.494	0.002	< 0.479	0.002	< 0.303	0.002	< 0.657	0.00329	< 0.474	0.00237
1,2,3,4,7,8-HxCDD	0.1	pg/l	10.2	1.02 J	< 0.421	0.02	< 0.413	0.02	< 0.383	0.02	< 0.405	0.02	< 0.264	0.01
1,2,3,4,7,8-HxCDF	0.1	pg/l	27.9	2.79	< 0.266	0.01	< 0.254	0.01	< 0.155	0.01	< 0.229	0.01	< 0.185	0.01
1,2,3,6,7,8-HxCDD	0.1	pg/l	213	21.3	< 0.418	0.02	< 0.409	0.02	< 0.379	0.02	< 0.401	0.02	< 0.262	0.01
1,2,3,6,7,8-HxCDF	0.1	pg/l	20.7	2.07 J	< 0.277	0.01	< 0.264	0.01	< 0.162	0.01	< 0.238	0.01	< 0.194	0.01
1,2,3,7,8,9-HxCDD	0.1	pg/l	147	14.7	< 0.423	0.02	< 0.414	0.02	< 0.384	0.02	< 0.406	0.02	< 0.265	0.01
1,2,3,7,8,9-HxCDF	0.1	pg/l	1.63	0.163 NJ+	< 0.342	0.02	< 0.327	0.02	< 0.199	0.01	< 0.294	0.01	< 0.239	0.01
1,2,3,7,8-PeCDD	1	pg/l	60.6	60.6 J	< 0.407	0.2	< 0.363	0.2	< 0.224	0.1	< 0.41	0.2	< 0.24	0.1
1,2,3,7,8-PeCDF	0.03	pg/l	14.6	0.438 J	< 0.211	0.003	< 0.166	0.002	< 0.14	0.002	< 0.216	0.00324	< 0.103	0.00155
2,3,4,6,7,8-HxCDF	0.1	pg/l	8.78	0.878 J	< 0.293	0.01	< 0.28	0.01	< 0.17	0.01	< 0.252	0.01	< 0.205	0.01
2,3,4,7,8-PeCDF	0.3	pg/l	12.1	3.63 J	< 0.207	0.03	< 0.163	0.02	< 0.138	0.02	< 0.212	0.03	< 0.101	0.02
2,3,7,8-TCDD	1	pg/l	19.5	19.5 J	< 0.858	0.43	< 0.702	0.35	< 0.751	0.38	< 0.474	0.24	< 0.673	0.34
2,3,7,8-TCDF	0.1	pg/l	9.7	0.970 J	< 0.395	0.020	< 0.427	0.021	< 0.282	0.014	< 0.384	0.0192	< 0.34	0.017
Total TCDD TEQ (1)				234		0.87		0.72		0.72		0.65		0.60
Total TCDD TEQ (2)				234		0.023		0.00052		0.033		0.0012		0.00076

Notes

Total TCDD and TCDF equivalents calculated using WHO 2005 Toxicity Equivalency Factors (MTCA, 2007).

(1) One-half the detection limit used for non-detect results

(2) Non-detect results excluded from TEQ calculation

Qualifiers

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

J+ = estimated concentration, biased high

Method B CUL - 5.8 pg/L

Value Exceeds Method B CUL

Table F-4-3 Groundwater Analytical Results: cPAH Total Toxic Equivalency Quotient (TEQ) (March 2008)

		Location ID Sample ID Sample Date	MW-1 MW-1-0308 03/28/08	MW-2 MW-2-0308 03/28/08	MW-3 MW-3-0308 03/27/08	MW-4 MW-4-0308 03/27/08	MW-5 MW-5-0308 03/27/08	MW-5 DUP-1-0308 03/27/08	MW-6 MW-6-0308 03/28/08	
Chemical Name	TEFs	Unit								
		µg/L								
Benzo(a)anthracene	0.1	µg/L	0.6 J	0.05 J	0.04 J	0.07 J	0.05 J	0.07 J	< 1	
Benzo(a)pyrene	1	µg/L	0.72 J	0.04 J	< 0.2	0.05 J	0.04 J	0.04 J	< 1	
Benzo(b)fluoranthene	0.1	µg/L	0.83 J	0.05 J	0.04 J	0.06 J	0.06 J	0.06 J	< 1	
Benzo(k)fluoranthene	0.1	µg/L	0.37 J	0.04 J	0.03 J	0.05 J	0.05 J	0.05 J	< 1	
Chrysene	0.01	µg/L	0.75 J	0.07 J	0.05 J	0.08 J	0.07 J	0.08 J	< 1	
Dibenz(a,h)anthracene	0.1	µg/L	< 0.97	0.03 J	0.02 J	0.04 J	0.05 J	0.04 J	< 1	
Indeno(1,2,3-cd)pyrene	0.1	µg/L	0.4 J	0.04 J	0.03 J	0.04 J	0.03 J	0.04 J	< 1	
Total cPAH TEQ (1)			1.00	0.06	0.17	0.07	0.06	0.07	NC	

MTCA Method B - 0.012 µg/L

Notes

(1) Total cPAH equivalents calculated using Toxicity Equivalency Factors from MTCA Regulations Revised November 2007.

Qualifiers

U = non-detect

J = estimated concentration (value less than calculated reporting limit)

D = compounds at secondary dilution factor

NC= Not calculated where all constituents are not detected


 Exceeds Method B

Table F-4-4 Groundwater Analytical Results: Metals, PCP, PAHs, TPH-Dx, Hardness and pH (August 2008)

Chemical Name	Method A	MCTA B Carcinogen	MCTA B Non-carcinogen	Location ID	MW-3	MW-4	MW-5	MW-8	MW-9	MW-9 (DUP)	MW-10	MW-11
				Sample ID	MW-3-081908	MW-4-082008	MW-5-082008	MW-8-081908	MW-9-081908	MW-9-081908	MW-10-081908	MW-11-081908
				Sample Date	8/19/2008	8/20/2008	8/20/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008
Metals EPA Method 6020/7470A (µg/L)												
Antimony			6.4		0.11	0.16	0.03 J	0.2	0.04 J	0.03 J	0.05	0.03 J
Arsenic	5	0.058	4.8		0.77	0.66	2.76	0.92	0.32 J	0.22 J	0.59	0.33 J
Beryllium			32		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Cadmium	5		8		< 0.024 J-	< 0.027 J-	< 0.039 J-	< 0.01 J-	< 0.02 J	< 0.02 J	< 0.01 J-	0.066
Chromium	50				< 0.42	< 0.45	< 0.27	< 0.7	< 0.46	< 0.41	< 0.57	< 0.35
Copper			590		< 0.34	< 0.3	< 0.3	< 0.57	< 0.47	< 0.44	< 0.23	< 0.26
Lead	15				< 0.026	< 0.025	< 0.023	< 0.054	< 0.007	< 0.02	< 0.019	< 0.026
Nickel					4.61	11.6	2.08	2.74	4.74	4.63	2.5	3.3
Selenium					< 0.2	< 0.3	< 2	< 1	< 1	< 1	< 0.4	< 1
Silver					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.019
Thallium					< 0.004	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.007
Zinc			4800		< 2.32	< 2.5	< 2.06	< 1.55	< 1.39	< 1.04	< 2.06	< 2.04
Mercury	2		4.8		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Semi-volatile Organic Compound EPA Method 8151M (µg/L)												
Pentachlorophenol		0.73	480		< 0.5	< 0.5	1.5	< 0.5	0.58 J	0.56 J	< 0.5	< 0.5
Polynuclear Aromatic Hydrocarbons EPA Method 8270C SIM (µg/L)												
2-Methylnaphthalene			32		< 0.016	< 0.016	< 0.016	0.0067 J	< 0.016	< 0.016	< 0.016	< 0.016
Acenaphthene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Acenaphthylene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Anthracene			4800		< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Benzo(a)anthracene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Benzo(a)pyrene		0.01			< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Benzo(b)fluoranthene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Benzo(g,h,i)perylene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Benzo(k)fluoranthene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Chrysene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Dibenz(a,h)anthracene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Dibenzofuran					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Fluoranthene			640		< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Fluorene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
* Indeno(1,2,3-cd)pyrene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Naphthalene	160		160		0.0078 J	0.023	0.016	0.015 J	0.011 J	0.01 J	0.0089 J	0.0088 J
Phenanthrene					< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Pyrene			480		< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
NWTPH-Dx (µg/L)												
Diesel Range Hydrocarbons	500				< 25	< 22	< 48	< 34	< 29	< 24	< 21	< 23
Residual Range Organics (RRO)	500				< 44	< 64	< 59	< 85	< 110	< 74	< 38	< 69
Conventional												
Hardness as CaCO ₃ (mg/L)					60	87	112	113	126	127	96	68
pH					6.57 J	6.51	6.68	6.7 J	6.37 J	6.39 J	6.72 J	6.59 J
Field Turbidity (NTU)					2.75	3.39	1.27	23.8	4.08	4.08	2.29	2.49

Shaded and Bold - Value exceeds Method B CUL (or Method A if no Method B value is available)
Bold - Value detected above the MRL
 J - Estimated concentration (value less than calculated reporting limit)
 * cPAH

Table F-4-5 Groundwater Analytical Results: Total Metals Results Compared to Surface Water Toxic Substance Criteria (WAC 173-201A-240) (August 2008)

Pollutant	Monitoring Well #	Hardness (µg/L)	Conversion Factor Acute	Conversion Factor Chronic	Analytical Value (µg/L)	Fresh Water Toxic Substance Criteria	
						Acute (µg/L)	Chronic (µg/L)
						Upper Limit	Upper Limit
Arsenic	3	60	—	—	0.770	360.000	190.000
	4	87	—	—	0.660	360.000	190.000
	5	112	—	—	2.760	360.000	190.000
	8	113	—	—	0.920	360.000	190.000
	9	127	—	—	0.220	360.000	190.000
	9	126	—	—	0.320	360.000	190.000
	10	96	—	—	0.590	360.000	190.000
	11	68	—	—	0.330	360.000	190.000
Cadmium	3	60	0.965	0.930	< 0.024	1.304	1.495
	4	87	0.950	0.915	< 0.027	1.950	1.968
	5	112	0.939	0.904	< 0.039	2.565	2.373
	8	113	0.939	0.904	< 0.010	2.589	2.388
	9	127	0.934	0.899	< 0.020	2.939	2.603
	9	126	0.934	0.899	< 0.020	2.914	2.588
	10	96	0.946	0.911	< 0.010	2.170	2.117
	11	68	0.960	0.925	0.066	1.493	1.640
Chromium**	3	60	—	—	< 0.420	15.000	10.000
	4	87	—	—	< 0.450	15.000	10.000
	5	112	—	—	< 0.270	15.000	10.000
	8	113	—	—	< 0.700	15.000	10.000
	9	127	—	—	< 0.410	15.000	10.000
	9	126	—	—	< 0.460	15.000	10.000
	10	96	—	—	< 0.570	15.000	10.000
	11	68	—	—	< 0.350	15.000	10.000
Copper	3	60	—	—	< 0.340	11.444	9.079
	4	87	—	—	< 0.300	16.242	12.472
	5	112	—	—	< 0.300	20.606	15.476
	8	113	—	—	< 0.570	20.779	15.594
	9	127	—	—	< 0.440	23.196	17.231
	9	126	—	—	< 0.470	23.024	17.115
	10	96	—	—	< 0.230	17.820	13.566
	11	68	—	—	< 0.260	12.877	10.104
Lead	3	60	0.865	0.865	< 0.026	24.754	0.398
	4	87	0.811	0.811	< 0.025	37.240	0.598
	5	112	0.774	0.774	< 0.023	49.034	0.788
	8	113	0.773	0.773	< 0.054	49.509	0.796
	9	127	0.756	0.756	< 0.020	56.181	0.903
	9	126	0.757	0.757	< 0.007	55.704	0.895
	10	96	0.797	0.797	< 0.019	41.466	0.666
	11	68	0.847	0.847	< 0.026	28.418	0.457
Mercury	3	60	—	—	< 0.200	2.100	0.012
	4	87	—	—	< 0.200	2.100	0.012
	5	112	—	—	< 0.200	2.100	0.012
	8	113	—	—	< 0.200	2.100	0.012
	9	127	—	—	< 0.200	2.100	0.012
	9	126	—	—	< 0.200	2.100	0.012
	10	96	—	—	< 0.200	2.100	0.012
	11	68	—	—	< 0.200	2.100	0.012
Nickel	3	60	—	—	4.610	547.514	85.283
	4	87	—	—	11.600	749.744	116.783
	5	112	—	—	2.080	928.363	144.606
	8	113	—	—	2.740	935.371	145.698
	9	127	—	—	4.630	1032.518	160.829
	9	126	—	—	4.740	1025.635	159.757
	10	96	—	—	2.500	814.856	126.926
	11	68	—	—	3.300	608.670	94.809
Selenium	3	60	—	—	< 0.200	20.000	5.000
	4	87	—	—	< 0.300	20.000	5.000
	5	112	—	—	< 2.000	20.000	5.000
	8	113	—	—	< 1.000	20.000	5.000
	9	127	—	—	< 1.000	20.000	5.000
	9	126	—	—	< 1.000	20.000	5.000
	10	96	—	—	< 0.400	20.000	5.000
	11	68	—	—	< 1.000	20.000	5.000
Silver	3	60	—	—	< 0.020	0.013	—
	4	87	—	—	< 0.020	0.025	—
	5	112	—	—	< 0.020	0.038	—
	8	113	—	—	< 0.020	0.039	—
	9	127	—	—	< 0.020	0.048	—
	9	126	—	—	< 0.020	0.047	—
	10	96	—	—	< 0.020	0.029	—
	11	68	—	—	< 0.020	0.016	—
Zinc	3	60	—	—	< 2.320	65.099	60.351
	4	87	—	—	< 2.500	89.187	82.682
	5	112	—	—	< 2.060	110.471	102.414
	8	113	—	—	< 1.550	111.306	103.188
	9	127	—	—	< 1.040	122.885	113.922
	9	126	—	—	< 1.390	122.065	113.162
	10	96	—	—	< 2.060	96.945	89.874
	11	68	—	—	< 2.040	72.382	67.103

If the Analytical Value is greater than the Chronic or Acute value.

** Note: Analytical results are reported as total chromium. The Toxic Substance Criteria chromium values are reported as either trivalent or hexavalent chromium. Hexavalent is more restrictive and used as the comparison in this table.

Table F-4-6 Groundwater Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ) (August 2008)

Location ID Sample ID Sample Date			MW-3 MW-3-081908 8/19/2008		MW-4 MW-4-082008 8/20/2008		MW-5 MW-5-082008 8/20/2008		MW-8 MW-8-081908 8/19/2008		MW-9 MW-9-081908 8/19/2008		MW-9 MW-90-081908 8/19/2008		MW-10 MW-10-081908 8/19/2008		MW-11 MW-11-081908 8/19/2008	
Chemical Name	TEFs	Unit	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ	Reported Value	TEQ
1,2,3,4,6,7,8,9-OCDD	0.0003	pg/L	< 5.01	0.0008 U	106	0.0318	366	0.1098	< 15.9	0.002385 U	292	0.0876 J	51.2	0.01536 J	7570	2.271	< 4.86	0.000729 U
1,2,3,4,6,7,8,9-OCDF	0.0003	pg/L	< 1.14	0.0002 U	< 15.3	0.00230 U	< 27	0.00405 U	< 3.06	0.00046	< 21.8	0.00327 U	< 7.04	0.001056 U	505	0.1515	< 0.44	0.000066
1,2,3,4,6,7,8-HpCDD	0.01	pg/L	< 1.43	0.0072 U	< 15.2	0.076 U	37.1	0.371	< 6.26	0.0313 U	39.4	0.394	< 12.3	0.0615 U	723	7.23	< 1	0.005 U
1,2,3,4,6,7,8-HpCDF	0.01	pg/L	< 0.757	0.003785 U	< 3.12	0.01560 U	< 4.57	0.023 U	< 0.91	0.00455	< 5.42	0.0271 U	< 0.971	0.004855	78	0.78	< 0.398	0.00199 U
1,2,3,4,7,8,9-HpCDF	0.01	pg/L	< 0.333	0.001665	< 0.952	0.005	< 0.948	0.005	< 1.19	0.006	< 0.493	0.002465	< 1.27	0.00635	4.13	0.0413 J	< 0.343	0.001715
1,2,3,4,7,8-HxCDD	0.1	pg/L	< 0.367	0.02	< 1.08	0.05	< 0.992	0.05	< 0.965	0.05	< 0.596	0.03	< 1.53	0.08	2.64	0.26 J	< 0.4	0.02
1,2,3,4,7,8-HxCDF	0.1	pg/L	< 0.265	0.01	< 0.494	0.02	< 0.697	0.03	< 0.534	0.03	< 0.328	0.02	< 0.771	0.04	1.86	0.19 J	< 0.211	0.01
1,2,3,6,7,8-HxCDD	0.1	pg/L	< 0.3	0.0	< 1.07	0.05	< 0.983	0.05	< 0.956	0.05	< 1.49	0.07 U	< 1.52	0.08	< 15.7	0.79 U	< 0.327	0.02
1,2,3,6,7,8-HxCDF	0.1	pg/L	< 0.247	0.01	< 0.516	0.03	< 0.727	0.04	< 0.558	0.03	< 0.306	0.02	< 0.805	0.04	0.716	0.07 NJ+	< 0.197	0.01
1,2,3,7,8,9-HxCDD	0.1	pg/L	< 0.329	0.0	< 1.08	0.05	< 0.995	0.05	< 0.968	0.05	< 0.532	0.03	< 1.54	0.08	8.01	0.80 J	< 0.357	0.02
1,2,3,7,8,9-HxCDF	0.1	pg/L	< 0.304	0.0152	< 0.638	0.03	< 0.899	0.04	< 0.689	0.03	< 0.377	0.02	< 0.994	0.05	< 0.459	0.02	< 0.243	0.01
1,2,3,7,8-PeCDD	1	pg/L	< 0.41	0.2	< 0.714	0.4	< 0.761	0.4	< 0.997	0.5	< 0.377	0.2	< 0.735	0.4	1.05	1.1 NJ+	< 0.372	0.2
1,2,3,7,8-PeCDF	0.03	pg/L	< 0.268	0.00402	< 0.598	0.009	< 0.342	0.005	< 0.526	0.008	< 0.258	0.00387	< 0.544	0.00816	< 0.322	0.00483	< 0.269	0.004035
2,3,4,6,7,8-HxCDF	0.1	pg/L	< 0.279	0.01395	< 0.546	0.03	< 0.77	0.04	< 0.59	0.03	< 0.346	0.02	< 0.851	0.04	1.24	0.12 J	< 0.223	0.01
2,3,4,7,8-PeCDF	0.3	pg/L	< 0.262	0.04	< 0.588	0.09	< 0.337	0.05	< 0.516	0.08	< 0.252	0.04	< 0.534	0.08	< 0.313	0.05	< 0.262	0.04
2,3,7,8-TCDD	1	pg/L	< 0.345	0.2	< 0.7	0.35	< 0.699	0.35	< 0.765	0.38	< 0.311	0.16	< 0.567	0.28	< 0.384	0.19	< 0.346	0.17
2,3,7,8-TCDF	0.1	pg/L	< 0.34	0.017	< 1.02	0.051	< 0.825	0.041	< 0.443	0.022	< 0.314	0.0157	< 0.667	0.03335	< 0.401	0.02005	< 0.276	0.0138
Total TCDD TEQ (1)				0.556		1.26		1.64		1.30		1.11		1.26		14.04		0.52
Total TCDD TEQ (2)				NA		0.032		0.481		NA		0.482		0.015		12.97		NA

Notes

Total TCDD and TCDF equivalents calculated using WHO 2005 Toxicity Equivalency Factors (MTCA, 2007).

(1) One-half the estimated detection limit used for non-detect results

(2) Non-detect results excluded from TEQ calculation

Qualifiers

J = estimated concentration (value less than calculated reporting limit)

N = analyte is tentatively identified (validator qualifier)

J+ = estimated concentration, biased high

U = false positive; non-detect at the original result

Method B CUL - 5.8 pg/L

Shaded value exceeds MTCA Method B CUL

Table F-4-7 Groundwater Analytical Results: Metals, PCP, TPH-Dx and Conventionals (December 2008)

				Location ID	MW-2	MW-6	MW-7	MW-7	MW-10
				Sample ID	LL-MW2-	LL-MW6-	LL-MW70-	LL-MW7-	LL-MW10-
				Sample Date	120308	120308	120308	120308	120308
					12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Chemical Name	MTCA A		MCTA B Non-Carcinogenic						
Conventionals									
Antimony			6.4	NA	0.139	< 0.05 U	< 0.05 U		NA
Arsenic	5	0.058	4.8	NA	0.73	0.6	0.7		NA
Metals EPA Method 6020/7470A (µg/L)									
Beryllium			32	NA	0.016 J	< 0.02	< 0.02		NA
Cadmium	5		8	NA	0.178	< 0.02	0.01 J		NA
Chromium	50			NA	1.15	< 0.2 U	< 0.2 U		NA
Copper			590	NA	7.91	0.21	0.19		NA
Lead	15			NA	0.117	< 0.02 U	0.023 J+		NA
Mercury	2		4.8	NA	< 0.2	< 0.2	< 0.2		NA
Nickel			320	NA	14.3	2.09	2.13		NA
Selenium			80	NA	< 1	< 1	< 1		NA
Silver				NA	0.153	< 0.02 U	< 0.02 U		NA
Thallium			1.1	NA	< 0.02 U	< 0.02	< 0.02 U		NA
Zinc			4800	NA	3.7	1.3 J	2.7 J		NA
Semi-volatile Organic Compound EPA Method 8151M (µg/L)									
Pentachlorophenol		0.73	480	< 0.50 U	< 0.5 U	< 0.5	< 0.5		NA
NWTPH-Dx (ug/L)									
Diesel Range Hydrocarbons	500			NA	3,600 J	13 J	19 J		NA
Residual Range Organics (RRO)	500			NA	710 NJ	< 520 U	< 520 U		NA
Conventionals									
pH				6.5 J	6.07 J	6.82 J	6.87 J		6.8 J
Total Organic Carbon (mg/L)				0.7	14	0.6	0.6		0.33 J
Total Suspended Solids (mg/L)				< 5	21	< 5	< 5		< 5

Shaded and Bold= Value exceeds Method B CUL (or Method A if no Method B value is available)

Bold= Value detected above the MRL

J= Estimated concentration

J+= Estimated concentration, biased high

N= Analyte is tentatively identified

U= False positive; non-detect at the original result

FD= Field duplicate

Table F-4-8 Groundwater Analytical Results: Dioxin-Furan Total Toxic Equivalency Quotient (TEQ) (December 2008)

Location ID Sample ID Sample Date			MW-2 LL-MW2-120308 12/3/2008			MW-6 LL-MW6-120308 12/3/2008			MW-7 LL-MW7-120308 12/3/2008			MW-7 DUP LL-MW70-120308 12/3/2008			MW-10 LL-MW10-120308 12/3/2008		
Chemical Name	TEFs	Unit	Reported			Reported			Reported			Reported			Reported		
			Value	TEQ		Value	TEQ		Value	TEQ		Value	TEQ		Value	TEQ	
1,2,3,4,6,7,8,9-OCDD	0.0003	pg/L	< 10.9	0.001635	U	< 11.5	0.001725	U	< 6.47	0.0009705	U	< 82.7	0.012405	U	< 9.73	0.0015	U
1,2,3,4,6,7,8,9-OCDF	0.0003	pg/L	< 0.934	0.00014	U	< 1.08	0.000162	U	< 0.295	0.00004	U	< 9.21	0.0013815	U	< 0.392	0.0001	U
1,2,3,4,6,7,8-HpCDD	0.01	pg/L	< 1.78	0.0089	U	< 1.39	0.00695	U	< 1.01	0.00505	U	< 15.6	0.078	U	< 1.78	0.0089	U
1,2,3,4,6,7,8-HpCDF	0.01	pg/L	< 0.417	0.00209	U	< 0.23	0.001		< 0.159	0.000795		< 2.02	0.0101	U	< 0.36	0.0018	U
1,2,3,4,7,8,9-HpCDF	0.01	pg/L	< 0.298	0.001		< 0.313	0.002		< 0.216	0.001		< 0.835	0.004175		< 0.292	0.00146	
1,2,3,4,7,8-HxCDD	0.1	pg/L	< 0.222	0.01		< 0.289	0.01		< 0.162	0.01		< 0.329	0.02		< 0.231	0.01	
1,2,3,4,7,8-HxCDF	0.1	pg/L	< 0.106	0.01		< 0.189	0.01		< 0.129	0.01		< 0.383	0.02		< 0.156	0.01	
1,2,3,6,7,8-HxCDD	0.1	pg/L	< 0.197	0.01		< 0.256	0.01		< 0.143	0.01		< 0.292	0.01		< 0.205	0.0	
1,2,3,6,7,8-HxCDF	0.1	pg/L	< 0.102	0.01		< 0.182	0.01		< 0.124	0.01		< 0.368	0.02		< 0.149	0.01	
1,2,3,7,8,9-HxCDD	0.1	pg/L	< 0.214	0.01		< 0.277	0.01		< 0.156	0.01		< 0.317	0.02		< 0.223	0.0	
1,2,3,7,8,9-HxCDF	0.1	pg/L	< 0.132	0.01		< 0.236	0.01		< 0.162	0.01		< 0.479	0.02		< 0.195	0.00975	
1,2,3,7,8-PeCDD	1	pg/L	< 0.238	0.1		< 0.245	0.1		< 0.225	0.1		< 0.354	0.2		< 0.227	0.1	
1,2,3,7,8-PeCDF	0.03	pg/L	< 0.189	0.003		< 0.215	0.003		< 0.147	0.002		< 0.295	0.004425		< 0.179	0.002685	
2,3,4,6,7,8-HxCDF	0.1	pg/L	< 0.114	0.01		< 0.202	0.01		< 0.138	0.01		< 0.411	0.02		< 0.167	0.00835	
2,3,4,7,8-PeCDF	0.3	pg/L	< 0.187	0.03		< 0.213	0.03		< 0.146	0.02		< 0.292	0.04		< 0.177	0.03	
2,3,7,8-TCDD	1	pg/L	< 0.167	0.08		< 0.228	0.11		< 0.148	0.07		< 0.148	0.07		< 0.198	0.1	
2,3,7,8-TCDF	0.1	pg/L	< 0.214	0.011		< 0.26	0.013		< 0.206	0.010		< 0.147	0.00735		< 0.179	0.009	
Total TCDD TEQ (1)				0.31			0.38			0.28			0.54			0.331	

Notes

Total TCDD and TCDF equivalents calculated using WHO 2005 Toxicity Equivalency Factors (MTCA, 2007).

(1) One-half the estimated detection limit used for non-detect results

Method B CUL - 5.8 pg/L

Qualifiers

B Organic: The analyte was found in the associated method blank at a level that is significant relative to the sample result.

J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

U Evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination

**Phase II Environmental Site Assessment Parcel 30R
Soil and Groundwater Data Tables**

TABLE 1 (page 2 of 2)
SUMMARY OF SOIL AND GROUND WATER SAMPLE DATA AND FIELD SCREENING RESULTS
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Sample Number ¹	Boring Number	Date	Matrix	Sample Depth (feet)	Location	Field Screening ²		Chemical Testing Performed ³									
						Headspace	Sheen	DRO	HO	PCBs	PAHs	PCP	Chlorinated Pesticides	Chlorinated Herbicides	Dioxins and Furans	Lead	
DP-10-2.0	DP-10	09-Jun-09	Soil	2.0	North of substation excavation	--	SS	X	X								
DP-10-8.0			Soil	8.0		--	SS										
DP-10-10.0			Soil	10.0		--	SS										
DP-11-1.0	DP-11		Soil	1.0	West side of substation	--	SS	X	X	X			X	X			
DP-11-8.0			Soil	8.0		--	SS										
DP-11-14.0			Soil	14.0		--	SS										

Notes:

¹ Soil sample locations are shown on Figure 4. The number following the second hyphen is the depth, in feet and tenths of feet, that the sample was obtained from

² Field screening methods are described in Appendix A. NS = no sheen, SS = slight sheen, MS = moderate sheen, HS = heavy sheen

³ Chemical analytical results are summarized in Table 2. DRO = diesel-range organics; HO = heavy oils; PCBs = polychlorinated biphenyls; PAHs = polycyclic aromatic hydrocarbons; PCP = pentachlorophenol. Laboratory testing methods are presented in Table 2.

TABLE 2 (page 1 of 3)
SUMMARY OF ANALYTES OF CONCERN IN SOIL ¹
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Sample Number ²	DRO ³ (mg/Kg) ^D / _Q	HO ³ (mg/Kg) ^D / _Q	PCBs ⁴ (µg/Kg) ^D / _Q	CPAHs - TEC ⁵ (µg/Kg) ^D / _Q	PCP ⁵ (mg/Kg) ^D / _Q	Other PAHs ⁵ (mg/Kg) ^D / _Q	Ds/Fs - TEC ⁶ (ng/Kg) ^D / _Q	Pesticides ⁷ (µg/Kg) ^D / _Q	Herbicides ⁸ (mg/Kg) ^D / _Q	Lead ⁹ (mg/Kg) ^D / _Q
DP-1-0.5	--	--	--	--	--	--	--	--	--	14.4
DP-1-2.0	--	--	--	--	--	--	0.29	--	--	--
DP-1-11.0	--	--	--	--	--	--	--	--	--	--
DP-2-1.0	--	--	--	--	--	--	1.61	--	--	7.67
DP-2-2.5	--	--	--	--	--	--	0.13	--	--	--
DP-2-17.5	--	--	--	--	--	--	--	--	--	--
DP-3-1.5	--	--	--	0.0129	0.02 U	Naphthalene = 2.5 2-Methylnaphthalene = 1.2 J Acenaphthylene = 2.1 J Acenaphthene = 0.54 J Fluorene = 1.1 J Phenanthrene = 8.2 Anthracene = 3.0 Fluoranthene = 16 Pyrene = 20 Benzo (g, h, i)perylene = 4.5	56	--	13.7	
DP-3-3.0	--	--	--	0.002	--	Naphthalene = 0.65 J Acenaphthylene = 0.33 J Anthracene = 0.93 J Fluoranthene = 0.95 J Pyrene = 0.82 J	0.09	--	--	--
DP-3-16.0	1.5 J	120 U	--	0.002	--	Naphthalene = 0.97 J Pyrene = 0.60 J	--	--	--	--
DP-4-5.0	--	--	--	--	--	--	--	--	--	--
DP-4-9.0	--	--	--	--	--	--	--	--	--	--
DP-4-19.5	--	--	--	--	--	--	--	--	--	--
DP-5-1.0	1.3 J	110 U	--	--	--	--	--	Heptachlor = 0.13 J 4,4'-DDE = 1.2 4,4'-DDT = 1.9 Endrin Ketone = 0.2 J	ND	--
DP-5-5.5	2.3 J	3.2 J	--	--	--	--	--	--	--	--
DP-5-15.0	--	--	--	--	--	--	--	--	--	--
MTCA Soil Cleanup Level ¹⁰	2,000	2,000	1,000	0.1	8.3 ¹¹	See footnote ¹²	11 ¹¹	See footnote ¹²	See footnote ¹²	250

TABLE 2 (page 2 of 3)
SUMMARY OF ANALYTES OF CONCERN IN SOIL ¹
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Sample Number ²	DRO ³ (mg/Kg) ^D / _Q	HO ³ (mg/Kg) ^D / _Q	PCBs ⁴ (µg/Kg) ^D / _Q	CPAHs - TEC ⁵ (µg/Kg) ^D / _Q	PCP ⁵ (mg/Kg) ^D / _Q	Other PAHs ⁵ (mg/Kg) ^D / _Q	Ds/Fs - TEC ⁶ (ng/Kg) ^D / _Q	Pesticides ⁷ (µg/Kg) ^D / _Q	Herbicides ⁸ (mg/Kg) ^D / _Q	Lead ⁹ (mg/Kg) ^D / _Q
DP-6-1.0	5.5 J	42 J	--	--	--	--	--	gamma-Chlordane = 0.24 J Dieldrin = 0.20 J 4,4'-DDE = 8.4 Endosulfan Sulfate = 0.82 JP 4,4'-DDT = 91 D	ND	--
DP-6-5.0	33 H	230 O	--	--	--	--	--	--	--	--
DP-6-10.0	--	--	--	--	--	--	--	--	--	--
DP-6-15.0	--	--	--	--	--	--	--	--	--	--
DP-7-7.5	45 Y	30 J	--	--	--	--	--	--	--	--
DP-7-15.0	--	--	--	--	--	--	--	--	--	--
DP-8-6.0	1,500 Y	150 L	Aroclor 1260 = 2.4 J	0.001	--	Naphthalene = 0.86 J 2-Methylnaphthalene = 0.41 J Acenaphthene = 0.32 J Fluoranthene = 2.4 J	--	--	--	--
DP-8-9.0	2.5 J	110 U	ND	0.001	--	Naphthalene = 0.48 J	--	--	--	--
DP-8-25.0	--	--	--	--	--	--	--	--	--	--
DP-9-1.0	13 J	61 J	ND	--	--	--	4.29	Heptachlor = 0.29 JP gamma-Chlordane = 0.24 J alpha-Chlordane = 0.15 JP Dieldrin = 2.1 4,4'-DDE = 5.5 4,4'-DDT = 33	ND	--
DP-9-5.0	--	--	--	--	--	--	--	--	--	--
DP-9-16.0	--	--	--	--	--	--	--	--	--	--
DP-10-2.0	2.1 J	5.5 J	--	--	--	--	--	--	--	--
DP-10-8.0	1.9 J	110 U	--	--	--	--	--	--	--	--
DP-10-10.0	--	--	--	--	--	--	--	--	--	--
DP-11-1.0	10 J	28 J	ND	--	--	--	--	Heptachlor = 0.25 JP 4,4'-DDE = 16 Endosulfan Sulfate = 2.7 P 4,4'-DDT = 21	ND	--
DP-11-8.0	--	--	--	--	--	--	--	--	--	--
DP-11-14.0	--	--	--	--	--	--	--	--	--	--
MTCA Soil Cleanup Level ¹⁰	2,000	2,000	1,000	0.1	8.3 ¹¹	See footnote ¹²	11 ¹¹	See footnote ¹²	See footnote ¹²	250

TABLE 2 (page 3 of 3)
SUMMARY OF ANALYTES OF CONCERN IN SOIL ¹
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Notes:

¹ Samples analyzed by Columbia Analytical Services, Inc. This table summarizes single analytes which when released are regulated under MTCA, or calculated TECs (Toxicity Equivalency Concentrations) for carcinogenic PAHs, and dioxins and furans
Concentrations of separate carcinogenic PAHs, and dioxins and furans are summarized in Tables 3 and 4.

² Soil sample locations are shown on Figure 4. The number following the second hyphen is the depth, in feet and tenths of feet, that the sample was obtained from

³ By Ecology Method NWTPH-Dx.

⁴ By EPA Method 8082.

⁵ By EPA Method 8270C.

⁶ By EPA CWA Method 1613B.

⁷ Chlorinated pesticides by EPA Method 8081A.

⁸ Chlorinated herbicides EPA Method 8151A.

⁹ By EPA Method 6020.

¹⁰ MTCA Method A Soil Cleanup Level for Unrestricted Land Use, Table 740-1, unless otherwise footnoted.

¹¹ MTCA Method B Carcinogen, Standard Formula Value. See CLARC Summary in Appendix C.

¹² MTCA Method B, Standard Formula Value, if researched. See CLARC Summary in Appendix C.

"-" = not tested; "mg/Kg" = milligrams per kilogram; "µg/Kg" = micrograms per kilogram; "ng/Kg" = nanograms per kilogram.

"CPAHs - TEC" = carcinogenic PAHs Total Toxicity Equivalency Concentration, calculated as specified in MTCA Section 173-340-708(8)(e) and the TEFs (Toxicity Equivalency Factors) in MTCA Section 173-340-900 Table 708-2

"Ds/Fs - TEC" = dioxins and furans Total Toxicity Equivalency Concentration, calculated as specified in MTCA Section 173-340-708(8)(d) and the TEFs (Toxicity Equivalency Factors) in MTCA Section 173-340-900 Table 708-1

DQ = data qualifier

U = not detected at or above the specified concentration

J = estimated concentration outside instrument calibration range

D = reported value is from a diluted sample.

P = confirmation criteria (RPD) was exceeded.

O, L, H and Y flags pertain to petroleum identification based on the chromatographic pattern. See lab report for precise descriptions

Stippled concentrations exceed the current MTCA soil cleanup levels.

TABLE 3
SOIL RESULTS SUMMARY - CARCINOGENIC PAHs SOIL SAMPLE ANALYSES
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Sample Collection Information ¹				Analytical Results ² - Expressed as milligrams per kilogram										
Sample Identity	Exploration Identity	Depth (feet)	Date Collected	Diesel-Range Organics ³ data qualifier	Lube Oil-Range Organics ³ data qualifier	Benzo(a)anthracene ⁴ data qualifier	Benzo(a)pyrene ⁴ data qualifier	Benzo(b)fluoranthene ⁴ data qualifier	Benzo(k)fluoranthene ⁴ data qualifier	Chrysene ⁴ data qualifier	Dibenzo(a,h)anthracene ⁴ data qualifier	Indeno(1,2,3-cd)pyrene ⁴ data qualifier	Total Toxic Equivalent Concentration ⁵	Multiple of Cleanup Level ⁶
DP-3-1.5	DP-3	1.5	6/8/2009	--	--	0.0085	0.0087	0.021	0.0058	0.014	0.00084 J	0.0043	0.0129	0.129
DP-3-3.0	DP-3	3.0	6/8/2009	--	--	0.00055 J	0.00014 U	0.00057 J	0.00015 U	0.00038 J	0.00028 U	0.00016 U	0.0002	0.002
DP-3-16.0	DP-3	16.0	6/8/2009	1.5 J	120 U	0.00048 U	0.00022 J	0.00037 J	0.00020 J	0.00026 J	0.00044 J	0.00039 J	0.0002	0.002
DP-8-6.0	DP-8	6.0	6/9/2009	1,500 Y	150 L	0.00048 U	0.00014 U	0.00025 U	0.00015 U	0.00025 U	0.00028 U	0.00016 U	0.0001	0.001
DP-8-9.0	DP-8	9.0	6/9/2009	2.5 J	110 U	0.00048 U	0.00014 U	0.00025 U	0.00015 U	0.00025 U	0.00028 U	0.00016 U	0.0001	0.001
MTCA Method A Cleanup Level ⁷				2,000	2,000								0.1	

Notes:

- ¹ Additional sample collection information is presented in the exploration logs in Appendix A.
- ² Analyses performed by Columbia Analytical Services, Inc. Final laboratory reports are included in Appendix B on CDR
- ³ By Ecology Method NWTPH-Dx.
- ⁴ By EPA Method 8270C SIMs.
- ⁵ Calculated in accordance with the methods described in WAC 173-340-708.
- ⁶ Multiple by which the Total Toxic Equivalent Concentration exceeds the cleanup level.
- ⁷ MTCA Method A Cleanup Levels for Unrestricted Land Use. Values that exceed cleanup levels are shaded.

Example Shading

Data Qualifiers: U = Not detected at or above the Method Detection Limit (the value shown). J = Analyte was detected at a concentration less than the Method Reporting Limit but greater than the Method Detection Level. These concentrations are outside the instrument calibration range, and thus should be considered approximate.

TABLE 4
SOIL RESULTS SUMMARY - DIOXINS AND FURANS SOIL SAMPLE ANALYSES
PHASE II STUDIES
PARCEL 30R
BURIEN, WASHINGTON

Sample Collection Information ¹			Analytical Results ² - Dioxins and Furans expressed as ng/Kg																			
Sample Identity	Exploration Identity	Depth (feet)	2,3,7,8-TCDD data qualifier	1,2,3,7,8-PeCDD data qualifier	1,2,3,4,7,8-HxCDD data qualifier	1,2,3,6,7,8-HxCDD data qualifier	1,2,3,7,8,9-HxCDD data qualifier	1,2,3,4,6,7,8-HpCDD data qualifier	1,2,3,4,6,7,8,9-OCDD data qualifier	2,3,7,8-TCDF data qualifier	1,2,3,7,8-PeCDF data qualifier	2,3,4,7,8-PeCDF data qualifier	1,2,3,4,7,8-HxCDF data qualifier	1,2,3,6,7,8-HxCDF data qualifier	1,2,3,7,8,9-HxCDF data qualifier	2,3,4,6,7,8-HxCDF data qualifier	1,2,3,4,6,7,8-HpCDF data qualifier	1,2,3,4,7,8,9-HpCDF data qualifier	1,2,3,4,6,7,8,9-OCDF data qualifier	Total Toxic Equivalent Concentration ⁴	Multiple of Cleanup Level ⁵	
DP-1-2.0	DP-1	2.0	0.0413 U	0.0361 U	0.0392 U	0.199 J	0.268 J	4.67 BJ	43.1 B	0.398 CJK	0.127 J	0.132 J	0.238 BJ	0.139 BJ	0.356 J	0.0549 U	1.36 BJ	0.0813 U	4.01 BJ	0.29	0.03	
DP-2-1.0	DP-2	1.0	0.0231 U	0.377 J	0.541 J	1.57 J	1.41 J	41.3 B	304 B	0.131 U	0.130 JK	0.186 JK	0.659 BJ	0.427 BJ	0.149 U	0.589 J	11.3 B	0.405 J	25.6 B	1.61	0.15	
DP-2-2.5	DP-2	2.5	0.0368 U	0.0383 U	0.0392 U	0.0512 U	0.0433 U	2.24	16.5	0.0606 U	0.0293 U	0.0262 U	0.226	0.101 U	0.151 U	0.100 U	0.766	0.0602 U	1.62	0.13	0.01	
DP-3-1.5	DP-3	1.5	0.404	5.06	10.4	66.0	44.9	2,850	15,600	0.296 U	0.399	0.807	4.73	4.53	0.322 U	7.92	305	8.64	1,480	56	5.12	
DP-3-3.0	DP-3	3.0	0.0420 U	0.0291 U	0.0341 U	0.0446 U	0.0377 U	1.65	19.1	0.0425 U	0.0294 U	0.0248 U	0.0398 U	0.0426 U	0.0567 U	0.0405 U	0.507	0.0474 U	1.49	0.09	0.01	
DP-9-1.0	DP-9	1.0	0.297	0.588	0.853	4.51	2.85	129	1,030	0.690	0.216	0.463	1.34	0.886	0.124 U	1.28	36.8	1.18	113	4.29	0.39	

Notes:

- ¹ Additional sample collection information is presented in Table 1 and the exploration logs in Appendix A.
 - ² Analyses performed by Columbia Analytical Services, Inc.
 - ³ By EPA CWA Method 1613B.
 - ⁴ Calculated in accordance with the methods described in WAC 173-340-708.
 - ⁵ Multiple by which the Total Toxic Equivalent Concentration exceeds the cleanup level.
- "ng/Kg" = nanograms per kilogram.
 U = Not detected at or above the Method Reporting Limit (the value shown).
 D = Sample concentration exceeded the calibration range of the testing instrument, and sample was diluted and retested.
 J = estimated concentration outside instrument calibration range
 B = analyte was detected in method blank. See lab report.
 C = confirmation performed on second column, and the confirmation column value is reported. See lab report.
 K = see lab report.