

SCS ENGINEERS

June 11, 2012
File No. 04209040.00

Ms. Maura O'Brien
Washington State Department of Ecology
3910 160th Avenue Southeast
Bellevue, Washington 98008

Subject: Wet-Season Monitoring 2012, Kenmore Industrial Park

Dear Maura:

This letter report documents 2012 wet-season groundwater monitoring at the Kenmore Industrial Park, Ecology site No. 2348. This monitoring event was conducted at the request of the Washington Department of Ecology to evaluate groundwater conditions related to deferred industrial maintenance work at the site.

Groundwater monitoring was conducted on April 3 and 27, 2012. Samples were collected from four monitoring wells on April 3 (AW-6, AW-9, AW-10R, and AW-12) and from one well on April 27 (AW-11R). A duplicate sample was collected at well AW-6. The groundwater samples were collected by SCS Engineers and analyzed by OnSite Environmental, Inc., of Redmond, Washington. Field procedures consisted of using low-flow sampling techniques following the guidelines outlined in the *Groundwater Monitoring Work Plan, Kenmore Industrial Park*, July 21, 2009. Field parameters measured at the time of sampling included temperature, pH, conductivity, dissolved oxygen, and turbidity. Laboratory analyses included semi-volatile organic compounds (SVOCs), dissolved arsenic, dissolved barium, dissolved lead, and total petroleum hydrocarbon (TPH) products in the diesel and oil ranges. In addition, monitoring wells AW-6 and AW-11 were analyzed for dissolved copper, dissolved cadmium, and dissolved zinc.

During the original monitoring event, well AW-11 was found to be damaged and required replacement. The replacement well, AW-11R, was drilled and installed to a depth of 20 feet below ground surface on April 20 by Cascade Drilling. A copy of the well log for AW-11R is attached.

Depth to groundwater level measurements were collected on April 3 and April 27. On April 3, a water level measurement was not obtained in damaged well AW-11. On April 27, a water level measurement was not obtained in well AW-12 due to access restrictions. Groundwater level measurements were compared to Lake Washington surface water elevations recorded by the U.S. Army Corps of Engineers at a gage located in Kenmore. The surface water level measurements collected by the Corps of Engineers are relative to the mean lower low water (MLLW) datum.

The monitoring well elevations at the site are relative to the King County Aerial Survey Datum, which uses the North American Vertical Datum of 1988 (NAVD 88). The vertical difference in the datums is 2.44 feet. Therefore, Lake Washington surface water elevations reported by the Corps of Engineers need to be corrected by -2.44 feet to be on the same datum as the Kenmore Industrial Park monitoring wells (see attached information published by the Corps of Engineers).

On April 3, 2012 the lake level was reported at 19.17 feet (see attached Lake Washington gage data). The lake elevation was 0.93 to 3.83 feet lower than the groundwater elevations measured at wells AW-9 and AW-10, and 0.76 to 0.83 feet higher than the groundwater elevations measured at wells AW-6 and AW-12. Therefore, the groundwater gradient beneath the site was from the upland to the lake, with a slightly inward gradient at AW-6, AW-11 (assumed), and AW-12 (see Figure 3). A similar water level relationship was present on April 27.

The laboratory results are considered acceptable without qualifiers. Samples were preserved on ice until delivered to the laboratory the same day as collected. Samples were analyzed at the laboratory within USEPA recommended holding times. No detections were reported in the laboratory method blanks, which were analyzed for each method. Results for laboratory duplicate analyses, surrogate recovery analyses, and spike analyses met USEPA recommendations. Laboratory results for the duplicate samples were acceptable. Test results were generally within 20% relative percent difference or five times the method reporting limit (see Table 3).

The analytical results for this sampling event are presented on Tables 1 through 3. Analytical results are consistent with previous results and none of the analytical results exceeded the cleanup standards listed in the Cleanup Action Plan. These results indicate that deferred maintenance work at the facility has not adversely impacted groundwater quality. A dry-season monitoring event will be conducted in September 2012.

Test results were input into the Ecology Environmental Information Management (EIM) database. Copies of the field sampling data sheets and laboratory reports are attached.

Ms. Maura O'Brien
June 12, 2012
Page 3

If you have any questions regarding the sampling program or test results please do not hesitate to call me at (425) 746-4600.

Sincerely,



Kevin Lakey, LHG, PE **KEVIN G. LAKEY**
Project Director
SCS ENGINEERS

Sam Adlington
Associate Staff Engineer
SCS ENGINEERS

Attachments: Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Water Level Map
Table 1: Field Parameters
Table 2: Groundwater Monitoring Results
Table 3: Groundwater Monitoring Results
Laboratory Reports
Field Sampling Data Sheets
AW-11R Boring Log
Lake Washington Surface Elevations for April 3, 2012

cc: Gary Sergeant, Pioneer Towing
Paul Beveridge, Beveridge Law
Kate Snider, Floyd & Snider



SOURCE:

SCS ENGINEERS
 Environmental Consultants and Contractors
 2405 140th Avenue NE, Suite 107
 Bellevue, Washington 98005
 (425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04209040.00	DES BY S.A.
SCALE AS SHOWN	CHK BY E.S.
CAD FILE FIGURE 1	APP BY K.L.

SITE VICINITY
KENMORE INDUSTRIAL PARK
KENMORE, WASHINGTON

DATE JUNE 2012
FIGURE 1



SOURCE:

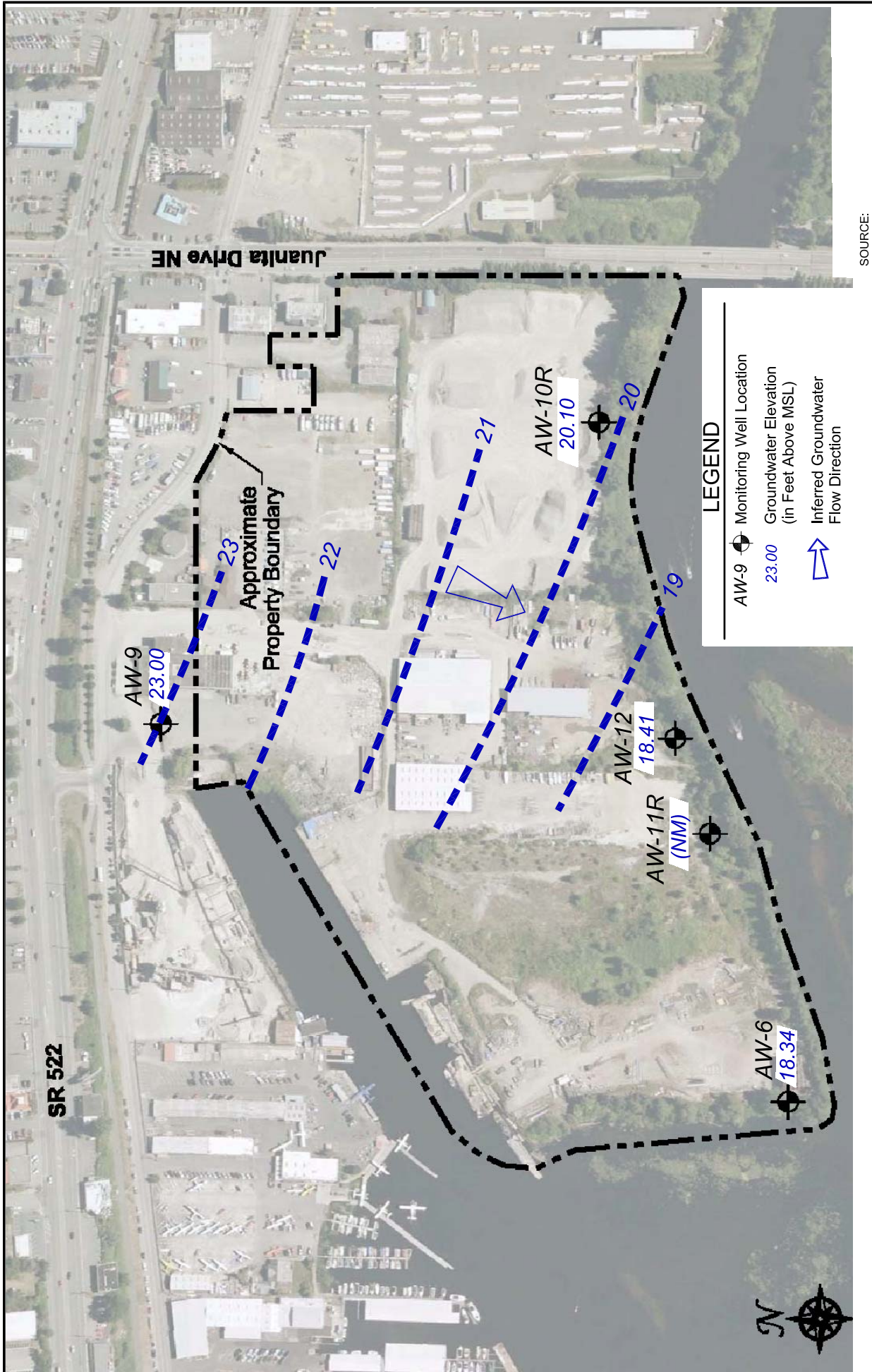
DATE	JUNE 2012
FIGURE	2

SITE PLAN
KENMORE INDUSTRIAL PARK
KENMORE, WASHINGTON

DESIGN BY	S.A.
CHECKED BY	E.S.
APPROVED BY	K.L.

PROJECT NO.	04209040.00
SCALE	AS SHOWN
CAD FILE	FIGURE 2

SCS ENGINEERS
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SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	PROJECT NO. 04209040.00	DES BY S.A.	DATE JUNE 2012
	SCALE AS SHOWN	CHK BY E.S.	FIGURE 3
CAD FILE FIGURE 3		WATER LEVEL MAP APRIL 3, 2012 KENMORE INDUSTRIAL PARK KENMORE, WASHINGTON	

Table 1
Kenmore Industrial Park, Groundwater Monitoring Results
Field Parameters

Well	Sample No.	Sample Date	Depth to Water	Water Level Elevation	pH	Conductivity (µS)	Dissolved Oxygen (mg/L)	Temperature (°C)
AW-9								
Background	KIP-0909-01	9/9/2009	8.56	21.66	5.99	165	1.31	19.6
AW-9								
Background	KIP-0110-01	1/18/2010	7.01	23.21	5.26	224	0.26	13.1
AW-9								
Background	KIP-0412-01	4/3/2012	7.22	23.00	6.06	190	0.27	12.2
AW-9								
Background	KIP-0412-01	4/27/2012	7.46	22.76	—	—	—	—
AW-6	KIP-0909-05R	9/9/2009	10.96	17.50	6.53	1252	1.52	15.6
AW-6	KIP-0110-05	1/19/2010	11.08	17.38	6.29	1429	0.25	11.9
AW-6	KIP-0412-01	4/3/2012	10.12	18.34	6.52	1127	0.18	11.0
AW-6	KIP-0412-01	4/27/2012	9.67	18.79	—	—	—	—
AW-10R	KIP-0909-02	9/9/2009	10.75	19.3	6.73	1059	1.05	12.6
AW-10R	KIP-0110-02	1/18/2010	10.15	19.9	6.17	525	0.20	9.6
AW-10R	KIP-0412-01	4/3/2012	9.86	20.1	6.19	306	0.10	7.7
AW-10R	KIP-0412-01	4/27/2012	9.84	20.2	—	—	—	—
AW-11	KIP-0909-04	9/9/2009	11.76	17.83	6.54	1314	1.17	14.8
AW-11	KIP-0110-04	1/18/2010	11.75	17.84	6.39	908	0.14	9.5
AW-11R	KIP-0412-05'	4/3/2027	—	—	—	—	—	—
AW-11R	KIP-0412-05'	4/27/2012	15.51	—	6.37	1140	0.14	11.2
AW-12	KIP-0909-03	9/9/2009	12.11	17.71	6.51	1042	0.51	14.0
AW-12	KIP-0110-03	1/18/2010	12.07	17.75	6.38	1081	0.19	12.6
AW-12	KIP-0412-01	4/3/2012	11.41	18.41	6.49	942	0.19	11.2
AW-12	KIP-0412-01	4/27/2012	—	—	—	—	—	—

Notes: (-) indicates not measured.
Water level elevations for AW-10R are approximate, based on an assumed elevation from abandoned well AW-10.

Table 2
Kenmore Industrial Park, Groundwater Monitoring Results
Dissolved Metals and Total petroleum Products (TPH)
All concentrations are presented in milligrams per liter (mg/l)

Well	Sample No.	Sample Date	TPH			Dissolved Metals													
			Diesel Range	Oil Range		As	Ba	Pb	Cd	Cu	Zn								
AW-9																			
Background	KIP-0909-01	9/9/2009	<0.25	<0.40		<0.003	<0.025	<0.001											
AW-9																			
Background	KIP-0110-01	1/18/2010	<0.27	<0.43		<0.003	<0.025	<0.001											
AW-9																			
Background	KIP-0412-01	4/3/2012	<0.27	<0.43		<0.003	<0.025	<0.001											
AW-6																			
AW-6																			
AW-6	3/26/2001		—	—		0.001	0.54	0.002											
AW-6	9/10/2009		<0.27	<0.43		<0.003	0.86	<0.001											
AW-6 DUPL	KIP-0909-5R	9/10/2009	<0.25	<0.40		<0.003	0.89	<0.001											
AW-6	KIP-0909-06	9/10/2009	<0.25	<0.40		<0.003	0.89	<0.001											
AW-6	KIP-0110-05	1/19/2010	<0.26	<0.41		<0.003	0.54	<0.001											
AW-6 DUPL	KIP-0110-06	1/19/2010	<0.26	<0.42		<0.003	0.55	<0.001											
AW-6	KIP-0412-04	4/3/2012	<0.28	<0.44		<0.003	0.41	0.002	<0.004										
AW-6 DUPL	KIP-0412-05	4/3/2012	<0.26	<0.42		<0.003	0.40	0.002	<0.004										
AW-10R																			
AW-10R	KIP-0909-02	9/9/2009	<0.25	<0.40		<0.003	0.25	<0.001											
AW-10R	KIP-0110-02	1/18/2010	<0.26	<0.41		<0.003	0.12	0.003											
AW-10R	KIP-0412-02	4/3/2012	<0.26	<0.42		<0.003	0.11	0.001											
AW-11																			
AW-11	3/26/2001		<.25	<.75		0.001	0.86	<0.001											
AW-11	KIP-0909-04	9/9/2009	<0.25	<0.40		<0.003	0.87	<0.001											
AW-11	KIP-0110-04	1/18/2010	<0.28	<0.45		<0.003	0.49	<0.001											
AW-11R	KIP-0412-05'	4/27/2012	<0.28	<0.45		<0.003	0.55	0.002	<0.004										
AW-12																			
AW-12	3/26/2001		<0.25	<0.75		0.002	0.19	<0.001											
AW-12	KIP-0909-03	9/9/2009	<0.25	<0.40		<0.003	0.24	<0.001											
AW-12	KIP-0110-03	1/18/2010	<0.27	<0.43		<0.003	0.12	<0.001											
AW-12	KIP-0412-03	4/3/2012	<0.27	<0.42		<0.003	0.12	<0.001											
			0.50	0.50		0.005	1.0	0.014											
			Site Cleanup Levels	0.50		0.005	1.0	0.014											

Notes:
 DUPL = duplicate sample

Table 3
Kenmore Industrial Park, Groundwater Monitoring Results
Polynuclear Aromatic Hydrocarbons
All concentrations are presented in micrograms per liter (µg/l)

Well	Sample No.	Sample Date	Polynuclear Aromatic Hydrocarbons																Total PAH	Total cPAH	TEF-Corrected Total cPAH
			NAPH	2-MN	1-MN	ACEN	ACE	FLUOR	PHEN	ANTH	FLUORA	PYR	B(a)A	CHRY	B(b)F	B(k)F	B(a)P	I(1,2,3-cd)P			
AW-6	KIP-0909-5R	9/10/2009	0.20	0.10	0.19	<0.10	2.10	0.73	<0.10	<0.10	0.13	0.13	0.053	0.054	0.019	0.038	0.018	<0.01	0.020	0.262	0.054
AW-6 DUPL	KIP-0909-6	9/10/2009	0.19	0.11	0.20	<0.10	2.20	1.00	<0.10	<0.10	<0.10	0.023	0.019	<0.01	0.021	0.013	<0.01	0.015	0.332	0.116	0.027
AW-6	KIP-0110-05	1/19/2010	<0.10	<0.10	<0.10	<0.10	1.20	0.59	<0.10	<0.10	<0.10	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.80	0.011	0.001
AW-6 DUPL	KIP-0110-06	1/19/2010	<0.10	<0.10	<0.10	<0.10	1.30	0.68	<0.10	<0.10	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.98	0.000	0.000
AW-6	KIP-0412-04	4/3/2012	0.10	<0.10	<0.10	<0.10	0.74	0.34	<0.10	<0.10	<0.10	0.025	0.059	0.052	0.012	<0.01	0.019	<0.01	1.26	0.184	0.011
AW-6 Dupl	KIP-0412-05	4/3/2012	<0.10	<0.10	<0.10	<0.10	0.64	0.29	<0.10	<0.10	<0.10	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.94	0.014	0.001
AW-11	KIP-0909-4	9/9/2009	<0.10	<0.10	<0.10	<0.10	1.30	0.64	<0.10	<0.10	0.15	0.033	0.031	0.036	0.012	0.028	0.016	<0.01	2.37	0.174	0.038
AW-11	KIP-0110-04	1/18/2010	<0.10	<0.10	<0.10	<0.10	0.99	0.78	<0.10	0.10	0.20	0.040	0.039	0.044	0.030	0.044	0.026	<0.01	2.48	0.255	0.058
AW-11R	KIP-0412-05'	4/27/2012	0.23	0.11	0.16	<0.099	1.00	0.51	<0.099	<0.099	<0.099	0.030	0.022	0.077	0.057	0.057	0.055	<0.050	1.88	0.369	0.079
M TCA Method A Unrestricted Use Groundwater Cleanup Levels			160																		0.1*

Notes:
 DUPL = duplicate sample
 PAH = polynuclear aromatic hydrocarbons
 PAHs analyzed by EPA Method 8270
 ACE = acenaphthene
 ACEN = acenaphthylene
 ANTH = Anthracene
 B(a)A = Benzo(a)Anthracene
 B(a)P = Benzo(a)Pyrene
 B(b)F = Benzo(b)Fluoranthene
 TEF = toxicity equivalency factor for Benzo(e)Pyrene

B(ghi)P = Benzo(g,h,i)Perylene
 B(k)F = Benzo(k)Fluoranthene
 CHRY = Chrysene
 DB(a,h)A = Dibenzo(a,h)Anthracene
 FLUOR = Fluorene
 FLUORA = Fluoranthene

I(1,2,3-cd)P = Indeno(1,2,3-cd)Pyrene
 NAPH = Naphthalene
 1-MN = 1-Methylnaphthylene
 2-MN = 2-Methylnaphthylene
 PHEN = Phenanthrene
 PYR = Pyrene

2405 140th Avenue NE, Suite 107
 Bellevue, Washington 98005-1877

BORING NUMBER: AW-11R

Page 1 of 1

**Kenmore Industrial Park
 AW-11 Replacement Well
 Kenmore, Washington**

JOB NUMBER: 04209040.00

REMARKS:
 Start card number BHM-200

Depth	Sample Information					Graphic Log	Description	Completion Detail
	Sample Location	Sample Number	Blow Counts	OMV (ppm)	USCS Soil Class.			
0								8-inch diameter locking monument
1			4		GP	Fill. Grey/brown coarse sand with fine to cobble gravel, moist to wet, very loose to loose. Recently placed.		Steel monument casing in concrete.
5								Bentonite powder seal. Hydrated in 1' intervals.
3			16		GP	Fill with wood debris, grey/brown coarse sand with fine to cobble gravel and abundant dark brown woody debris, approximately 50% dark brown organic soil, wet, very loose to loose.		2" PVC solid pipe in 20/40 sand.
10								
4			3 4 4		GP	Same as above.		
15								
6			8 13 15			Same as above. Little to no recovery.		2" PVC, #10 slotted screen with 20/40 sand pre-pack filter. Boring backfilled with 20/40 sand.
20								

STANDARD_LOG_KENMORE INDUSTRIAL PARK_04209040.00.GPJ STD_LOG_GDT_4/23/12

Drilling Company: **Cascade**
 Drilling Method: **Hollow Stem Auger**
 Logged By: **Sam Adlington**
 Sampling Method: **Automatic 140 lb. hammer, 18-inch drop**

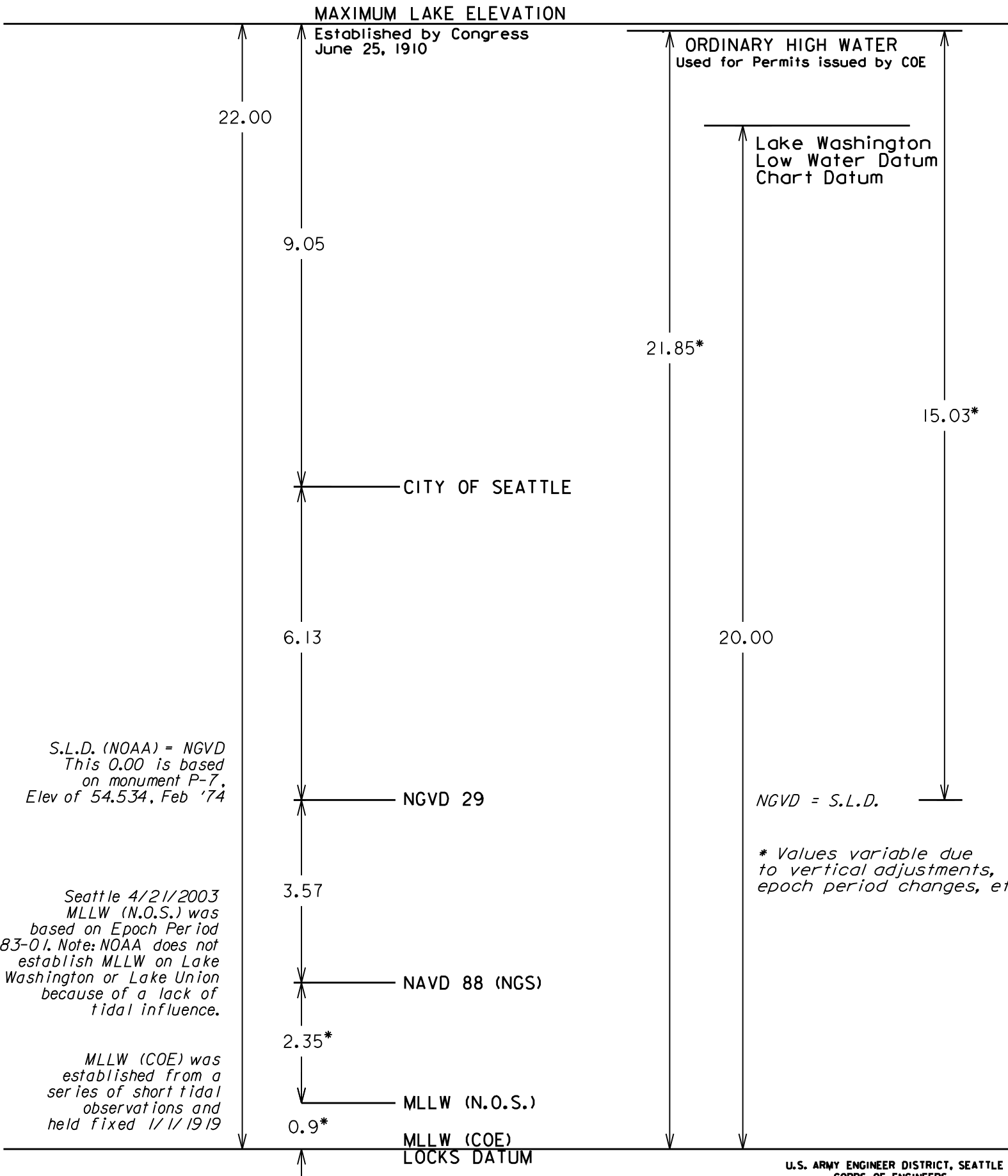
Date Started: **4/20/12**
 Date Ended: **4/20/12**
 Boring Diameter: **10-inch**

Depth to Water: **12.5 ft.**
 Total Depth: **20.0 ft.**

**Lake Washington Elevation; April 3 & 4, 2012
Kenmore Station**

Date-Time	Surface Elevation (MLLW datum)	Average (MLLW datum)	Datum Adjustment	Average (NAVD 88 datum)
4/3/2012 1:00	21.58			
4/3/2012 2:00	21.58			
4/3/2012 3:00	21.58			
4/3/2012 4:00	21.57			
4/3/2012 5:00	21.61			
4/3/2012 6:00	21.58			
4/3/2012 7:00	21.6			
4/3/2012 8:00	21.6			
4/3/2012 9:00	21.64			
4/3/2012 10:00	21.6			
4/3/2012 11:00	21.62			
4/3/2012 12:00	21.64			
4/3/2012 13:00	21.67			
4/3/2012 14:00	21.65			
4/3/2012 15:00	21.63			
4/3/2012 16:00	21.65			
4/3/2012 17:00	21.65			
4/3/2012 18:00	21.63			
4/3/2012 19:00	21.61			
4/3/2012 20:00	21.62			
4/3/2012 21:00	21.61			
4/3/2012 22:00	21.57			
4/3/2012 23:00	21.57			
4/3/2012 24:00	21.58	21.61	-2.44	19.17
4/4/2012 1:00	21.57			
4/4/2012 2:00	21.57			
4/4/2012 3:00	21.57			
4/4/2012 4:00	21.55			
4/4/2012 5:00	21.55			
4/4/2012 6:00	21.54			
4/4/2012 7:00	21.55			
4/4/2012 8:00	21.55			
4/4/2012 9:00	21.53			
4/4/2012 10:00	21.52			
4/4/2012 11:00	21.54			
4/4/2012 12:00	21.55			
4/4/2012 13:00	21.54			
4/4/2012 14:00	21.55			
4/4/2012 15:00	21.56			
4/4/2012 16:00	21.56			
4/4/2012 17:00	21.56			
4/4/2012 18:00	21.57			
4/4/2012 19:00	21.57			
4/4/2012 20:00	21.57			
4/4/2012 21:00	21.57			
4/4/2012 22:00	21.57			
4/4/2012 23:00	21.56			
4/4/2012 24:00	21.57	21.56	-2.44	19.12

DATUM PLANES VICINITY OF LAKE WASHINGTON



Groundwater Sampling Data Sheet

Project #: 04209040.00
 Site: Kenmore Industrial Park
 Well ID: **AW-9**
 Sample ID: KIP-0412-01
 Date: April 3, 2012
 Weather: **OVERCAST**
 Filtered? N
 Locked? N
 Sample Containers: 1000 ml Poly
 500 ml HNO3
 125 ml NaOH
 Water in Protector? N
 500 ml Poly
 500 ml H2SO4
 2 x 500 ml HCL
 250 ml Poly
 40 ml VOA
 1000 ml Amber

CONTROL SETTINGS:

7.22 DTW
 TOS
 Intake
 BOS
 Total Depth
 12.57
 Refill
 Discharge
 Pressure
 Damage? Y N
 125 ml Poly
 1000 ml Amber

Notes:
 SPLIT SAMPLES FOR
 TOTAL METALS AND
 DISSOLVED METALS (FILTERED)
 TAKEN BY MAURA O'BRIAN (ECY)

Observations (color, odor, anomalies, etc)
 PURGE START LV 7

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0915								
0921		12.22	189	0.30	6.09	116	2.00	350
0924		12.19	189	0.27	6.09	119	1.15	
0927		12.17	189	0.26	6.07	122		
0930		12.15	190	0.27	6.06	124	0.64	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Adlington
 Printed Name

Signature

SCS ENGINEERS 2405
140th ave NE #107 Bellevue Wa
98005

Groundwater Sampling Data Sheet

(425)746-4600

Project #: 04209040.00
 Site: Kenmore Industrial Park
 Well ID: AW-10R
 Sample ID: KIP-0412-02
 Date: April 3, 2012
 Weather: RAIN
 Filtered? N Locked? N
 Sample Containers: 1000 ml Poly
 500 ml HNO₃
 125 ml NaOH
 Water in Protector: N
 500 ml Poly
 500 ml H₂SO₄
 2X 500ml HCl
 250 ml Poly
 40 ml VOA
 CONTROL SETTINGS:
 Refill 6.2
 Discharge 3.8
 Pressure 15
 Damage? N
 125 ml Poly
 1000 ml Amber

Sampling Method: SP

Notes:
SPLITS TAKEN FOR TOTAL 7 DISSOLVED METALS BY MAURA OBRIAN (ECL)

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1020								
1027		7.62	374	0.15	6.17	-81	77.87	500
1030		7.69	376	0.15	6.17	-90	66.54	
1033		7.68	376	0.13	6.19	-91	57.84	
1036		7.67	311	0.10	6.18	-93	54.21	
1039		7.66	306	0.10	6.19	-94	52.73	

Observations (color, odor, anomalies, etc)
PURGE START

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

Signature:

Printed Name: Sam Adlington
 Signature

Groundwater Sampling Data Sheet

Project #: 04209040.00
 Site: Kenmore Industrial Park
 Well ID: AW-12
 Sample ID: KIP-0412-03
 Date: April 3, 2012
 Weather: RAIN

DTW: 11.41
 TOS: _____
 Intake: _____
 BOS: _____
 Total Depth: 19.30

CONTROL SETTINGS:
 Refill: _____
 Discharge: _____
 Pressure: _____

Filtered? N
 Sample Containers: 1000 ml Poly
 500 ml HNO3
 125 ml NaOH

Water in Protector? N
 500 ml Poly
 500 ml H2SO4
 250 ml Poly
 40 ml VOA
 1000 ml Amber

Damage? N
 125 ml Poly
 1000 ml Amber

Sampling Method: PERISTALTIC

Notes:
 4" CASING
 SPLITS COLLECTED FOR
 TOTAL & DISSOLVED METALS
 BY MAURA O'BRIAN

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1151								
1157		10.98	942	0.66	6.47	-93	138.0	
1200		10.96	947	0.29	6.48	-106	106.9	
1203		11.02	944	0.22	6.48	-115	93.41	
1206		11.00	945	0.20	6.47	-119	76.20	
1209		11.14	942	0.19	6.46	-124	59.48	
1212		11.05	945	0.19	6.49	-127	32.01	
1215		11.15	942	0.19	6.49	-130	32.07	

Observations (color, odor, anomalies, etc):
 PURGE START LV 8

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Adlington
 Printed Name
 Signature:

Groundwater Sampling Data Sheet

Project #: 04209040.00
Site: Kenmore Industrial Park
Well ID: MW-11
Sample ID: ~~11-04-12~~
Date: April 3, 2012
Weather: RAIN
Filtered? Y N Locked? Y N Water in Protector? Y N
Sample Containers: 1000 ml Poly 500 ml Poly 250 ml Poly 125 ml Poly
500 ml HNO3 500 ml H2SO4 40 ml VOA 4000 ml Amber XS
125 ml NaOH 2x 500 ml HCL

CONTROL SETTINGS:
DTW
TOS
Intake
BOS
Total Depth
9.95
Refill
Discharge
Pressure
Damage? Y N
125 ml Poly
4000 ml Amber XS

Notes:
SILENED IN @ 9.95'
TOTAL BORING 14'

Sampling Method:

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
Dry								
NO SAMPLE TAKEN								
Observations (color, odor, anomalies, etc)								

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Adlington Printed Name
Sam Adlington Signature

Groundwater Sampling Data Sheet

Sampling Method: PERISTALTIC

Project #: 04209040.00
 Site: Kenmore Industrial Park
 Well ID: AW-6
 Sample ID: KIP-0412-04
 Date: April 3, 2012
 Weather: RAIN
 Filtered? N
 Sample Containers: 1000 ml Poly
500 ml HNO3
125 ml NaOH

CONTROL SETTINGS:
 DTW: 10.12
 TOS: _____
 Intake: _____
 BOS: _____
 Total Depth: 16.40
 Water in Protector? Y N
 500 ml Poly
 500 ml H2SO4
2x1000ml Amber HCL
 1000 ml Amber
 125 ml Poly
 1000 ml Amber
 Damage? Y N
 Refill: _____
 Discharge: _____
 Pressure: _____

Notes:
DUP TAKEN AS
KIP-0412-05
SPLIT COLLECTED
FOR TOTAL 3
Q.SOLVED METALS
BY MAURA O'BRENN (ECL)
 AW-3 OTW = 9.21
 OTB = 15.98

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1328								
1334		10.96	1146	0.24	6.53	-149		
1337		11.03	1130	0.25	6.49	-156	4.14	
1340		11.00	1130	0.21	6.52	-160	3.96	
1343		11.04	1126	0.20	6.50	-163	3.80	
1346		11.04	1127	0.18	6.52	-166	3.57	

Observations (color, odor, anomalies, etc)
PURGE START LV9

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Adlington
 Printed Name
 Signature: [Signature]

Groundwater Sampling Data Sheet

Sampling Method: Peristaltic

Project # 042081040

Site KIF

Well ID: AW-11R

Sample ID: kip-0412-05

Date: 4/27/12

Weather: CLOUDY

Filtered? N

Sample Containers: 1000 ml Poly

500 ml HNO3

125 ml NaOH

Locked? Y

Water in Protector? Y

500 ml Poly

500 ml H2SO4

500 ml HCl AMPER x 2

CONTROL SETTINGS:

15.51 DTW

13.49 TOS

~20 Intake

23.49 BOS

23.49 Total Depth

Refill N/A

Discharge N/A

Pressure N/A

Damage? Y

125 ml Poly

1000 ml Amber x 2

Notes:

SPLIT SAMPLES TAKEN BY MAURA O'BRIEN FROM DEPARTMENT OF ECOLOGY

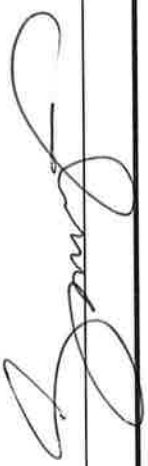
TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q/Vol.	
0928	15.51							~150	
0935	15.54	11.21	1.136	0.37	6.32	-141	13.70		
0938	15.54	11.24	1.140	0.28	6.35	-145	10.22		
0941	15.54	11.24	1.137	0.22	6.38	-150	10.49		
0944	15.57	11.24	1.141	0.18	6.40	-155	8.75		
0947	15.57	11.21	1.144	0.18	6.35	-158	8.28		
0950	15.57	11.18	1.145	0.16	6.35	-159	7.49		
0953	15.53	11.15	1.138	0.15	6.38	-161	7.42		
0956		11.18	1.140	0.14	6.37	-162	7.04		
1027	15.51								
	<u>Well</u>	<u>DTW</u>	<u>DTB</u>	<u>NOTE</u>					
	AW-6	9.67		16.15					
	AW-10R	9.84		16.80					
	AW-3	8.77		15.75					
	AW-9	7.46		10.37					
	AW-12	NM		NM	<u>NOT SAFELY ACCESSIBLE</u>				

Observations (color, odor, anomalies, etc)
 PURGE START
 ~3 GAL PURGED

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Adlington
 Printed Name

Signature





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 9, 2012

Kevin Lakey
SCS Engineers
2405 140th Avenue NE, Suite 107
Bellevue, WA 98005

Re: Analytical Data for Project 04209040.00
Laboratory Reference No. 1204-009

Dear Kevin:

Enclosed are the analytical results and associated quality control data for samples submitted on April 3, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: April 9, 2012
Samples Submitted: April 3, 2012
Laboratory Reference: 1204-009
Project: 04209040.00

Case Narrative

Samples were collected on April 3, 2012 and received by the laboratory on April 3, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-01					
Laboratory ID:	04-009-01					
Diesel Range Organics	ND	0.27	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.43	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				
Client ID:	KIP-0412-02					
Laboratory ID:	04-009-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				
Client ID:	KIP-0412-03					
Laboratory ID:	04-009-03					
Diesel Range Organics	ND	0.27	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	KIP-0412-04					
Laboratory ID:	04-009-04					
Diesel Range Organics	ND	0.28	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.44	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	KIP-0412-05					
Laboratory ID:	04-009-05					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	4-5-12	4-5-12	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	4-5-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	04-009-01					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			92 104	50-150		

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-04					
Laboratory ID:	04-009-04					
n-Nitrosodimethylamine	ND	0.98	EPA 8270	4-4-12	4-6-12	
Pyridine	ND	0.98	EPA 8270	4-4-12	4-6-12	
Phenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
Aniline	ND	4.9	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Chlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,3-Dichlorobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,4-Dichlorobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Benzyl alcohol	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,2-Dichlorobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270	4-4-12	4-6-12	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270	4-4-12	4-6-12	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270	4-4-12	4-6-12	
Hexachloroethane	ND	0.98	EPA 8270	4-4-12	4-6-12	
Nitrobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Isophorone	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Nitrophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,4-Dimethylphenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,4-Dichlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Naphthalene	0.10	0.098	EPA 8270/SIM	4-4-12	4-5-12	
4-Chloroaniline	ND	0.98	EPA 8270	4-4-12	4-6-12	
Hexachlorobutadiene	ND	0.98	EPA 8270	4-4-12	4-6-12	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Methylnaphthalene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
1-Methylnaphthalene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,3-Dichloroaniline	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Chloronaphthalene	ND	0.98	EPA 8270	4-4-12	4-6-12	
2-Nitroaniline	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,4-Dinitrobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Dimethylphthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,3-Dinitrobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,6-Dinitrotoluene	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,2-Dinitrobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Acenaphthylene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
3-Nitroaniline	ND	0.98	EPA 8270	4-4-12	4-6-12	

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-04					
Laboratory ID:	04-009-04					
2,4-Dinitrophenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
Acenaphthene	0.74	0.098	EPA 8270/SIM	4-4-12	4-5-12	
4-Nitrophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,4-Dinitrotoluene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Dibenzofuran	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270	4-4-12	4-6-12	
Diethylphthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270	4-4-12	4-6-12	
4-Nitroaniline	ND	0.98	EPA 8270	4-4-12	4-6-12	
Fluorene	0.34	0.098	EPA 8270/SIM	4-4-12	4-5-12	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270	4-4-12	4-6-12	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270	4-4-12	4-6-12	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270	4-4-12	4-6-12	
Hexachlorobenzene	ND	0.98	EPA 8270	4-4-12	4-6-12	
Pentachlorophenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
Phenanthrene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
Anthracene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
Carbazole	ND	0.98	EPA 8270	4-4-12	4-6-12	
Di-n-butylphthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
Fluoranthene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
Benzidine	ND	4.9	EPA 8270	4-4-12	4-6-12	
Pyrene	ND	0.098	EPA 8270/SIM	4-4-12	4-5-12	
Butylbenzylphthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270	4-4-12	4-6-12	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270	4-4-12	4-6-12	
Benzo[a]anthracene	0.025	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Chrysene	0.059	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
bis(2-Ethylhexyl)phthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
Di-n-octylphthalate	ND	0.98	EPA 8270	4-4-12	4-6-12	
Benzo[b]fluoranthene	0.052	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Benzo(j,k)fluoranthene	0.012	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[a]pyrene	ND	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Indeno[1,2,3-cd]pyrene	0.019	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[g,h,i]perylene	0.017	0.0098	EPA 8270/SIM	4-4-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	43	18 - 86				
Phenol-d6	36	10 - 88				
Nitrobenzene-d5	66	37 - 112				
2-Fluorobiphenyl	72	42 - 108				
2,4,6-Tribromophenol	67	39 - 118				
Terphenyl-d14	78	49 - 122				

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-05					
Laboratory ID:	04-009-05					
n-Nitrosodimethylamine	ND	0.97	EPA 8270	4-4-12	4-6-12	
Pyridine	ND	0.97	EPA 8270	4-4-12	4-6-12	
Phenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
Aniline	ND	4.9	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Chlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,3-Dichlorobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,4-Dichlorobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Benzyl alcohol	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,2-Dichlorobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270	4-4-12	4-6-12	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270	4-4-12	4-6-12	
n-Nitroso-di-n-propylamine	ND	0.97	EPA 8270	4-4-12	4-6-12	
Hexachloroethane	ND	0.97	EPA 8270	4-4-12	4-6-12	
Nitrobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Isophorone	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Nitrophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,4-Dimethylphenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,4-Dichlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Naphthalene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
4-Chloroaniline	ND	0.97	EPA 8270	4-4-12	4-6-12	
Hexachlorobutadiene	ND	0.97	EPA 8270	4-4-12	4-6-12	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Methylnaphthalene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
1-Methylnaphthalene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,3-Dichloroaniline	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Chloronaphthalene	ND	0.97	EPA 8270	4-4-12	4-6-12	
2-Nitroaniline	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,4-Dinitrobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Dimethylphthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,3-Dinitrobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,6-Dinitrotoluene	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,2-Dinitrobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Acenaphthylene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
3-Nitroaniline	ND	0.97	EPA 8270	4-4-12	4-6-12	

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-05					
Laboratory ID:	04-009-05					
2,4-Dinitrophenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
Acenaphthene	0.64	0.097	EPA 8270/SIM	4-4-12	4-5-12	
4-Nitrophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,4-Dinitrotoluene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Dibenzofuran	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270	4-4-12	4-6-12	
Diethylphthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270	4-4-12	4-6-12	
4-Nitroaniline	ND	0.97	EPA 8270	4-4-12	4-6-12	
Fluorene	0.29	0.097	EPA 8270/SIM	4-4-12	4-5-12	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
n-Nitrosodiphenylamine	ND	0.97	EPA 8270	4-4-12	4-6-12	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270	4-4-12	4-6-12	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270	4-4-12	4-6-12	
Hexachlorobenzene	ND	0.97	EPA 8270	4-4-12	4-6-12	
Pentachlorophenol	ND	4.9	EPA 8270	4-4-12	4-6-12	
Phenanthrene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
Anthracene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
Carbazole	ND	0.97	EPA 8270	4-4-12	4-6-12	
Di-n-butylphthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
Fluoranthene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
Benzidine	ND	4.9	EPA 8270	4-4-12	4-6-12	
Pyrene	ND	0.097	EPA 8270/SIM	4-4-12	4-5-12	
Butylbenzylphthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270	4-4-12	4-6-12	
3,3'-Dichlorobenzidine	ND	0.97	EPA 8270	4-4-12	4-6-12	
Benzo[a]anthracene	0.014	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Chrysene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
bis(2-Ethylhexyl)phthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
Di-n-octylphthalate	ND	0.97	EPA 8270	4-4-12	4-6-12	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[a]pyrene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270/SIM	4-4-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	38	18 - 86				
Phenol-d6	32	10 - 88				
Nitrobenzene-d5	58	37 - 112				
2-Fluorobiphenyl	65	42 - 108				
2,4,6-Tribromophenol	62	39 - 118				
Terphenyl-d14	75	49 - 122				

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**SEMIVOLATILES by EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0404W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270	4-4-12	4-6-12	
Pyridine	ND	1.0	EPA 8270	4-4-12	4-6-12	
Phenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
Aniline	ND	5.0	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Chlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Benzyl alcohol	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	4-4-12	4-6-12	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	4-4-12	4-6-12	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	4-4-12	4-6-12	
Hexachloroethane	ND	1.0	EPA 8270	4-4-12	4-6-12	
Nitrobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Isophorone	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Nitrophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,4-Dimethylphenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,4-Dichlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Naphthalene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
4-Chloroaniline	ND	1.0	EPA 8270	4-4-12	4-6-12	
Hexachlorobutadiene	ND	1.0	EPA 8270	4-4-12	4-6-12	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,3-Dichloroaniline	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Chloronaphthalene	ND	1.0	EPA 8270	4-4-12	4-6-12	
2-Nitroaniline	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Dimethylphthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Acenaphthylene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
3-Nitroaniline	ND	1.0	EPA 8270	4-4-12	4-6-12	

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0404W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270	4-4-12	4-6-12	
Acenaphthene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
4-Nitrophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Dibenzofuran	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-4-12	4-6-12	
Diethylphthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	4-4-12	4-6-12	
4-Nitroaniline	ND	1.0	EPA 8270	4-4-12	4-6-12	
Fluorene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	4-4-12	4-6-12	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270	4-4-12	4-6-12	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	4-4-12	4-6-12	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	4-4-12	4-6-12	
Hexachlorobenzene	ND	1.0	EPA 8270	4-4-12	4-6-12	
Pentachlorophenol	ND	5.0	EPA 8270	4-4-12	4-6-12	
Phenanthrene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
Anthracene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
Carbazole	ND	1.0	EPA 8270	4-4-12	4-6-12	
Di-n-butylphthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
Fluoranthene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
Benzidine	ND	5.0	EPA 8270	4-4-12	4-6-12	
Pyrene	ND	0.10	EPA 8270/SIM	4-4-12	4-5-12	
Butylbenzylphthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270	4-4-12	4-6-12	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270	4-4-12	4-6-12	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Chrysene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
Di-n-octylphthalate	ND	1.0	EPA 8270	4-4-12	4-6-12	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	4-4-12	4-5-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	57	18 - 86				
Phenol-d6	45	10 - 88				
Nitrobenzene-d5	80	37 - 112				
2-Fluorobiphenyl	80	42 - 108				
2,4,6-Tribromophenol	69	39 - 118				
Terphenyl-d14	83	49 - 122				

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0404W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	18.8	20.5	40.0	40.0	47	51	26 - 70	9	29	
2-Chlorophenol	32.6	35.9	40.0	40.0	82	90	46 - 104	10	34	
1,4-Dichlorobenzene	15.0	16.8	20.0	20.0	75	84	46 - 92	11	29	
n-Nitroso-di-n-propylamine	15.2	16.4	20.0	20.0	76	82	30 - 102	8	25	
1,2,4-Trichlorobenzene	15.9	17.3	20.0	20.0	80	87	45 - 92	8	25	
4-Chloro-3-methylphenol	34.5	36.9	40.0	40.0	86	92	53 - 108	7	18	
Acenaphthene	17.0	18.0	20.0	20.0	85	90	57 - 103	6	15	
4-Nitrophenol	22.0	22.7	40.0	40.0	55	57	21 - 85	3	33	
2,4-Dinitrotoluene	17.2	18.1	20.0	20.0	86	91	60 - 118	5	20	
Pentachlorophenol	34.3	36.3	40.0	40.0	86	91	48 - 119	6	31	
Pyrene	18.5	19.7	20.0	20.0	93	99	62 - 111	6	19	
<i>Surrogate:</i>										
2-Fluorophenol					53	60	18 - 86			
Phenol-d6					44	48	10 - 88			
Nitrobenzene-d5					76	82	37 - 112			
2-Fluorobiphenyl					78	82	42 - 108			
2,4,6-Tribromophenol					68	74	39 - 118			
Terphenyl-d14					80	86	49 - 122			

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

DISSOLVED METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	04-009-01					
Client ID:	KIP-0412-01					
Arsenic	ND	3.0	200.8		4-4-12	
Barium	ND	25	200.8		4-4-12	
Lead	ND	1.0	200.8		4-4-12	

Lab ID:	04-009-02					
Client ID:	KIP-0412-02					
Arsenic	ND	3.0	200.8		4-4-12	
Barium	110	25	200.8		4-4-12	
Lead	1.3	1.0	200.8		4-4-12	

Lab ID:	04-009-03					
Client ID:	KIP-0412-03					
Arsenic	ND	3.0	200.8		4-4-12	
Barium	120	25	200.8		4-4-12	
Lead	ND	1.0	200.8		4-4-12	

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**DISSOLVED METALS
 EPA 200.8**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	04-009-04					
Client ID:	KIP-0412-04					
Arsenic	ND	3.0	200.8		4-4-12	
Barium	410	25	200.8		4-4-12	
Cadmium	ND	4.0	200.8		4-4-12	
Copper	ND	10	200.8		4-4-12	
Lead	1.8	1.0	200.8		4-4-12	
Zinc	ND	25	200.8		4-4-12	

Lab ID:	04-009-05					
Client ID:	KIP-0412-05					
Arsenic	ND	3.0	200.8		4-4-12	
Barium	400	25	200.8		4-4-12	
Cadmium	ND	4.0	200.8		4-4-12	
Copper	ND	10	200.8		4-4-12	
Lead	2.0	1.0	200.8		4-4-12	
Zinc	ND	25	200.8		4-4-12	

Date of Report: April 9, 2012
Samples Submitted: April 3, 2012
Laboratory Reference: 1204-009
Project: 04209040.00

**DISSOLVED METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 4-4-12
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0404D1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	ND	25
Cadmium	200.8	ND	4.0
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Zinc	200.8	ND	25

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**DISSOLVED METALS
 EPA 200.8
 DUPLICATE QUALITY CONTROL**

Date Analyzed: 4-4-12
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-009-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	
Barium	ND	ND	NA	25	
Cadmium	ND	ND	NA	4.0	
Copper	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Zinc	ND	ND	NA	25	

Date of Report: April 9, 2012
 Samples Submitted: April 3, 2012
 Laboratory Reference: 1204-009
 Project: 04209040.00

**DISSOLVED METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Analyzed: 4-4-12

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 04-009-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	210	105	211	105	0	
Barium	200	207	103	208	104	1	
Cadmium	200	198	99	197	99	1	
Copper	200	199	99	198	99	0	
Lead	200	196	98	200	100	2	
Zinc	200	222	111	203	102	9	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

Laboratory Number:

04-009

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days) (TPH analysis 5 Days)

_____ (other)

Company: **SCS ENGINEERS**

Project Number: **04209040.00**

Project Name: **KENMORE INDUSTRIAL PARK**

Project Manager: **KEVIN LAKEY**

Sampled by: **Sam Adumetom**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.
1	k1p-0412-01	4/3/12	0930	w	3
2	k1p-0412-02		1039		3
3	k1p-0412-03		1215		3
4	k1p-0412-04		1346		5
5	k1p-0412-05		1346		5

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	Comments/Special Instructions
1	k1p-0412-01	4/3/12	0930	w	3	
2	k1p-0412-02		1039		3	
3	k1p-0412-03		1215		3	
4	k1p-0412-04		1346		5	
5	k1p-0412-05		1346		5	

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	
Volatiles 8260B	
Halogenated Volatiles 8260B	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081A	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
DISS METALS *	
DISS METALS **	
% Moisture	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Signature: *[Handwritten Signature]*

Company: **SCS ENGINEERS**

Date: **4/3/12**

Time: **1:30 PM**

Comments/Special Instructions:
 *** DISS METALS
 AS, BA, Pb
 Se, Cd, Zn
 Cu
 4/10



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 8, 2012

Kevin Lakey
SCS Engineers
2405 140th Avenue NE, Suite 107
Bellevue, WA 98005

Re: Analytical Data for Project 04209040.00
Laboratory Reference No. 1204-174

Dear Kevin:

Enclosed are the analytical results and associated quality control data for samples submitted on April 27, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 8, 2012
Samples Submitted: April 27, 2012
Laboratory Reference: 1204-174
Project: 04209040.00

Case Narrative

Samples were collected on April 27, 2012 and received by the laboratory on April 27, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270D/SIM Analysis

The matrix spike dup had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-05					
Laboratory ID:	04-174-01					
Diesel Range Organics	ND	0.28	NWTPH-Dx	5-2-12	5-2-12	
Lube Oil Range Organics	ND	0.45	NWTPH-Dx	5-2-12	5-2-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	5-2-12	5-2-12	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	5-2-12	5-2-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>104</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	04-174-01					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			84 83	50-150		

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-05					
Laboratory ID:	04-174-01					
n-Nitrosodimethylamine	ND	0.99	EPA 8270	4-27-12	4-28-12	
Pyridine	ND	0.99	EPA 8270	4-27-12	4-28-12	
Phenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
Aniline	ND	5.0	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroethyl)ether	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Chlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,3-Dichlorobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,4-Dichlorobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Benzyl alcohol	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,2-Dichlorobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Methylphenol (o-Cresol)	ND	0.99	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroisopropyl)ether	ND	0.99	EPA 8270	4-27-12	4-28-12	
(3+4)-Methylphenol (m,p-Cresol)	6.5	0.99	EPA 8270	4-27-12	4-28-12	
n-Nitroso-di-n-propylamine	ND	0.99	EPA 8270	4-27-12	4-28-12	
Hexachloroethane	ND	0.99	EPA 8270	4-27-12	4-28-12	
Nitrobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Isophorone	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Nitrophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,4-Dimethylphenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroethoxy)methane	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,4-Dichlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,2,4-Trichlorobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Naphthalene	0.23	0.099	EPA 8270/SIM	4-27-12	4-30-12	
4-Chloroaniline	ND	0.99	EPA 8270	4-27-12	4-28-12	
Hexachlorobutadiene	ND	0.99	EPA 8270	4-27-12	4-28-12	
4-Chloro-3-methylphenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Methylnaphthalene	0.11	0.099	EPA 8270/SIM	4-27-12	4-30-12	
1-Methylnaphthalene	0.16	0.099	EPA 8270/SIM	4-27-12	4-30-12	
Hexachlorocyclopentadiene	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,4,6-Trichlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,3-Dichloroaniline	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,4,5-Trichlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Chloronaphthalene	ND	0.99	EPA 8270	4-27-12	4-28-12	
2-Nitroaniline	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,4-Dinitrobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Dimethylphthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,3-Dinitrobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,6-Dinitrotoluene	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,2-Dinitrobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Acenaphthylene	ND	0.099	EPA 8270/SIM	4-27-12	4-30-12	
3-Nitroaniline	ND	0.99	EPA 8270	4-27-12	4-28-12	

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KIP-0412-05					
Laboratory ID:	04-174-01					
2,4-Dinitrophenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
Acenaphthene	1.0	0.99	EPA 8270	4-27-12	4-28-12	
4-Nitrophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,4-Dinitrotoluene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Dibenzofuran	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,3,5,6-Tetrachlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
2,3,4,6-Tetrachlorophenol	ND	0.99	EPA 8270	4-27-12	4-28-12	
Diethylphthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
4-Chlorophenyl-phenylether	ND	0.99	EPA 8270	4-27-12	4-28-12	
4-Nitroaniline	ND	0.99	EPA 8270	4-27-12	4-28-12	
Fluorene	0.51	0.099	EPA 8270/SIM	4-27-12	4-30-12	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
n-Nitrosodiphenylamine	ND	0.99	EPA 8270	4-27-12	4-28-12	
1,2-Diphenylhydrazine	ND	0.99	EPA 8270	4-27-12	4-28-12	
4-Bromophenyl-phenylether	ND	0.99	EPA 8270	4-27-12	4-28-12	
Hexachlorobenzene	ND	0.99	EPA 8270	4-27-12	4-28-12	
Pentachlorophenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
Phenanthrene	ND	0.099	EPA 8270/SIM	4-27-12	4-30-12	
Anthracene	ND	0.099	EPA 8270/SIM	4-27-12	4-30-12	
Carbazole	ND	0.99	EPA 8270	4-27-12	4-28-12	
Di-n-butylphthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
Fluoranthene	ND	0.099	EPA 8270/SIM	4-27-12	4-30-12	
Benzidine	ND	5.0	EPA 8270	4-27-12	4-28-12	
Pyrene	ND	0.099	EPA 8270/SIM	4-27-12	4-30-12	
Butylbenzylphthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270	4-27-12	4-28-12	
3,3'-Dichlorobenzidine	ND	0.99	EPA 8270	4-27-12	4-28-12	
Benzo[a]anthracene	0.030	0.0099	EPA 8270/SIM	4-27-12	4-30-12	
Chrysene	0.022	0.0099	EPA 8270/SIM	4-27-12	4-30-12	
bis(2-Ethylhexyl)phthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
Di-n-octylphthalate	ND	0.99	EPA 8270	4-27-12	4-28-12	
Benzo[b]fluoranthene	0.077	0.050	EPA 8270/SIM	4-27-12	4-30-12	
Benzo(j,k)fluoranthene	0.057	0.050	EPA 8270/SIM	4-27-12	4-30-12	
Benzo[a]pyrene	0.057	0.050	EPA 8270/SIM	4-27-12	4-30-12	
Indeno[1,2,3-cd]pyrene	0.055	0.050	EPA 8270/SIM	4-27-12	4-30-12	
Dibenz[a,h]anthracene	ND	0.050	EPA 8270/SIM	4-27-12	4-30-12	
Benzo[g,h,i]perylene	0.071	0.050	EPA 8270/SIM	4-27-12	4-30-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>49</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>46</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>99</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>80</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>49 - 122</i>				

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0427W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270	4-27-12	4-28-12	
Pyridine	ND	1.0	EPA 8270	4-27-12	4-28-12	
Phenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
Aniline	ND	5.0	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Chlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Benzyl alcohol	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	4-27-12	4-28-12	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	4-27-12	4-28-12	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	4-27-12	4-28-12	
Hexachloroethane	ND	1.0	EPA 8270	4-27-12	4-28-12	
Nitrobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Isophorone	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Nitrophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,4-Dimethylphenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,4-Dichlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Naphthalene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
4-Chloroaniline	ND	1.0	EPA 8270	4-27-12	4-28-12	
Hexachlorobutadiene	ND	1.0	EPA 8270	4-27-12	4-28-12	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,3-Dichloroaniline	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Chloronaphthalene	ND	1.0	EPA 8270	4-27-12	4-28-12	
2-Nitroaniline	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Dimethylphthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Acenaphthylene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
3-Nitroaniline	ND	1.0	EPA 8270	4-27-12	4-28-12	

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0427W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
Acenaphthene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
4-Nitrophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Dibenzofuran	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	4-27-12	4-28-12	
Diethylphthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	4-27-12	4-28-12	
4-Nitroaniline	ND	1.0	EPA 8270	4-27-12	4-28-12	
Fluorene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270	4-27-12	4-28-12	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	4-27-12	4-28-12	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	4-27-12	4-28-12	
Hexachlorobenzene	ND	1.0	EPA 8270	4-27-12	4-28-12	
Pentachlorophenol	ND	5.0	EPA 8270	4-27-12	4-28-12	
Phenanthrene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
Anthracene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
Carbazole	ND	1.0	EPA 8270	4-27-12	4-28-12	
Di-n-butylphthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
Fluoranthene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
Benzidine	ND	5.0	EPA 8270	4-27-12	4-28-12	
Pyrene	ND	0.10	EPA 8270/SIM	4-27-12	4-27-12	
Butylbenzylphthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270	4-27-12	4-28-12	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270	4-27-12	4-28-12	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Chrysene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
Di-n-octylphthalate	ND	1.0	EPA 8270	4-27-12	4-28-12	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	4-27-12	4-27-12	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>46</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>39</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>73</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>62</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>49 - 122</i>				

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	04-166-06										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	282	307	160	160	127	97	113	25 - 113	8	29	
2-Chlorophenol	141	148	160	160	ND	88	93	47 - 100	5	24	
1,4-Dichlorobenzene	42.2	56.1	80.0	80.0	ND	53	70	43 - 92	28	33	
n-Nitroso-di-n-propylamine	91.1	70.1	80.0	80.0	ND	114	88	29 - 127	26	29	
1,2,4-Trichlorobenzene	47.3	51.4	80.0	80.0	ND	59	64	43 - 96	8	22	
4-Chloro-3-methylphenol	145	163	160	160	ND	91	102	64 - 109	12	21	
Acenaphthene	83.6	89.7	80.0	80.0	ND	105	112	61 - 113	7	18	
4-Nitrophenol	141	160	160	160	ND	88	100	19 - 121	13	28	
2,4-Dinitrotoluene	82.7	87.9	80.0	80.0	ND	103	110	54 - 110	6	23	
Pentachlorophenol	206	211	160	160	ND	129	132	29 - 143	2	30	
Pyrene	87.1	98.7	80.0	80.0	ND	109	123	63 - 124	12	14	
<i>Surrogate:</i>											
2-Fluorophenol						64	68	18 - 86			
Phenol-d6						99	100	10 - 100			
Nitrobenzene-d5						112	148	37 - 112			Q
2-Fluorobiphenyl						83	91	42 - 108			
2,4,6-Tribromophenol						88	91	39 - 118			
Terphenyl-d14						114	120	49 - 122			

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

DISSOLVED METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-174-01					
Client ID:	KIP-0412-05					
Arsenic	ND	3.0	200.8		4-30-12	
Barium	550	25	200.8		4-30-12	
Cadmium	ND	4.0	200.8		4-30-12	
Copper	ND	10	200.8		4-30-12	
Lead	1.8	1.0	200.8		4-30-12	
Zinc	ND	25	200.8		4-30-12	

Date of Report: May 8, 2012
Samples Submitted: April 27, 2012
Laboratory Reference: 1204-174
Project: 04209040.00

**DISSOLVED METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 4-30-12
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0425F1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	ND	25
Cadmium	200.8	ND	4.0
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Zinc	200.8	ND	25

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

**DISSOLVED METALS
 EPA 200.8
 DUPLICATE QUALITY CONTROL**

Date Analyzed: 4-30-12
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-138-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	
Barium	ND	ND	NA	25	
Cadmium	ND	ND	NA	4.0	
Copper	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Zinc	40.0	42.1	5	25	

Date of Report: May 8, 2012
 Samples Submitted: April 27, 2012
 Laboratory Reference: 1204-174
 Project: 04209040.00

**DISSOLVED METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Analyzed: 4-30-12
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: 04-138-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	197	98	199	99	1	
Barium	200	200	100	202	101	1	
Cadmium	200	195	97	196	98	0	
Copper	200	192	96	191	95	1	
Lead	200	195	97	194	97	0	
Zinc	200	240	100	236	98	2	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



MVA Onsite Environmental Inc.

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Chain of Custody

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Turnaround Request (in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days) (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **04-1774**

Company: SCS ENGINEERS

Project Number: 0420040.00

Project Name: KENMORE INDUSTRIAL PARK

Project Manager: KEVIN LAKEY

Sampled by: Sam Aounneton

Lab ID: | KIP-0412-05

Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture	
4/27/12	0956	H ₂ O	5				X			X										X	
* DISS METALS *																					

Signature	Company	Date	Time	Comments/Special Instructions
[Signature]	SCS ENGINEERS	4/27	1145	* DISSOLVED METALS: AS, Ba, Pb (TRA FILTERED) CO, Cd, Zn
[Signature]	OSRE	4/27	1145	

Data Package: Level III Level IV

Electronic Data Deliverables (EDDs)

Chromatograms with final report