Phillips 66 070644 Seattle LUST 591989

CONESTOGA-ROVERS & ASSOCIATES

20818 44th Ave. West, Suite 190
Lynnwood, Washington 98036
Telephone: (425) 563-6500 Fax: (425) 563-6599
http://www.craworld.com

July 23, 2013

Reference No. 061992

Mr. John Bails
Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008

Re: First Quarter 2013 Groundwater Monitoring and Sampling Report
Former Tidewater Site
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington
DOE Case 42746846

Dear Mr. Bails,

Conestoga-Rovers & Associates (CRA) is submitting this *First Quarter 2013 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Phillips 66 Company and Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by CRA. CRA's field forms are presented as Attachment A. Eurofins Lancaster Laboratories' *Analytical Results* report is included as Attachment B. Graphs depicting total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene concentrations over time for select wells are included as Attachment C. A summary of previous site investigations is included as Attachment D. A site map is presented on Figure 2.

RESULTS OF FIRST QUARTER 2013 EVENT

On February 26 and 27, 2013, CRA monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following.

- Groundwater Flow Direction — Southwest (Figure 3)
- Hydraulic Gradient — 0.03 foot/foot
- Approximate Depth to Water — 10.5 to 12 feet below grade
- Approximate Groundwater Elevation — 46 to 52 feet above mean sea level

Current and historical groundwater monitoring and sampling data are presented in Table 1, and current concentration data presented below in Table A and on Figure 4.

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MTCA Method A Cleanup Levels	*800/1000**	*500*	*500*	*5*	*1000*	*700*	*1000*
MW-1	<50	<30	<71	<0.5	<0.5	<0.5	<0.5
MW-2	770	150	<68	0.7	<0.5	<0.5	<0.5
MW-3	9,500	510	<66	<0.5	<0.5	190	620
MW-4	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-5	790	170	<69	<0.5	0.6	7	12
MW-6	<50	<30	<70	<0.5	<0.5	<0.5	<0.5
MW-7	<50	<29	<68	<0.5	<0.5	<0.5	<0.5
MW-8	12,000	780	<70	<0.5	0.6	100	800
MW-8 DUP	11,000	540	<69	<0.5	0.6	100	770
MW-9	Inaccessible						
MW-10	<50	71	<69	0.8	<0.5	<0.5	<0.5

Bold Indicates concentration exceed MTCA Method A cleanup level
* TPHg Cleanup Level for wells containing benzene is 800 µg/L; otherwise cleanup level is 1,000 µg/L.

CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling at the site indicate:

- TPHg concentrations exceeded the Washington State Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level in groundwater wells MW-3 and MW-8, with the highest concentration detected at MW-8 (Figure 5).
- TPHd concentrations exceeded the MTCA Method A cleanup level in groundwater in wells MW-3 and MW-8 (Figure 6).
- TPHo concentrations were below MTCA Method A cleanup levels in all wells.
- Benzene, toluene, ethylbenzene, and total xylenes concentrations were all below the MTCA Method A cleanup levels in groundwater.

- With the exception of source area well MW-8, hydrocarbon concentrations exhibit decreasing concentration trends over time. Hydrocarbon concentrations in MW-8 have been stable.

CRA recommends continuing quarterly monitoring and sampling to further evaluate concentration trends over time.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
CRA will monitor and sample site wells per the established schedule. The second quarter 2013 event is scheduled for May 2013. CRA will submit a groundwater monitoring and sampling report approximately 90 days following receipt of laboratory analytical results.

Remedial Investigation/Feasibility Study (RI/FS) Work Plan
CRA is currently preparing a RI/FS Work Plan to submit to the Department of Ecology during the second quarter of 2013.

Please contact Edwin Turner at (425) 563-6500 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Edwin J Turner

Edwin Turner

ET/aa/5
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	Groundwater Elevations and Contour Map
Figure 4	Groundwater Concentration Map
Figure 5	TPHg Isoconcentration Contour Map
Figure 6	TPHd Isoconcentration Contour Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Concentration Trend Graphs
Attachment D	Summary of Previous Investigations

cc: Mr. Rick Rittenberg, Chevron *(electronic copy)*
Mr. Ed Ralston, Phillips 66 *(electronic copy)*
Greg McCormick, EP Inc. *(electronic copy)*

FIGURES

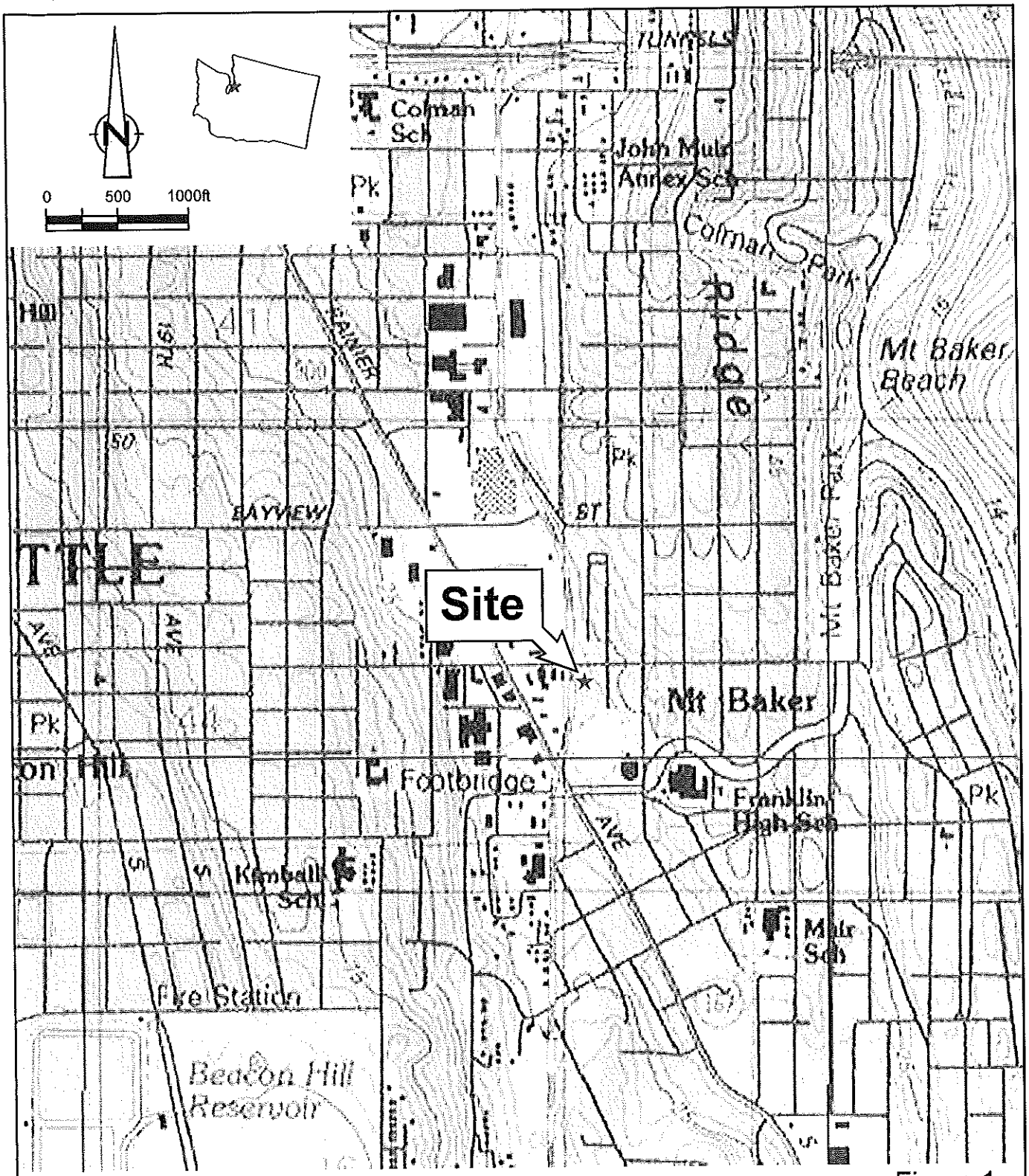


Figure 1

VICINITY MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington

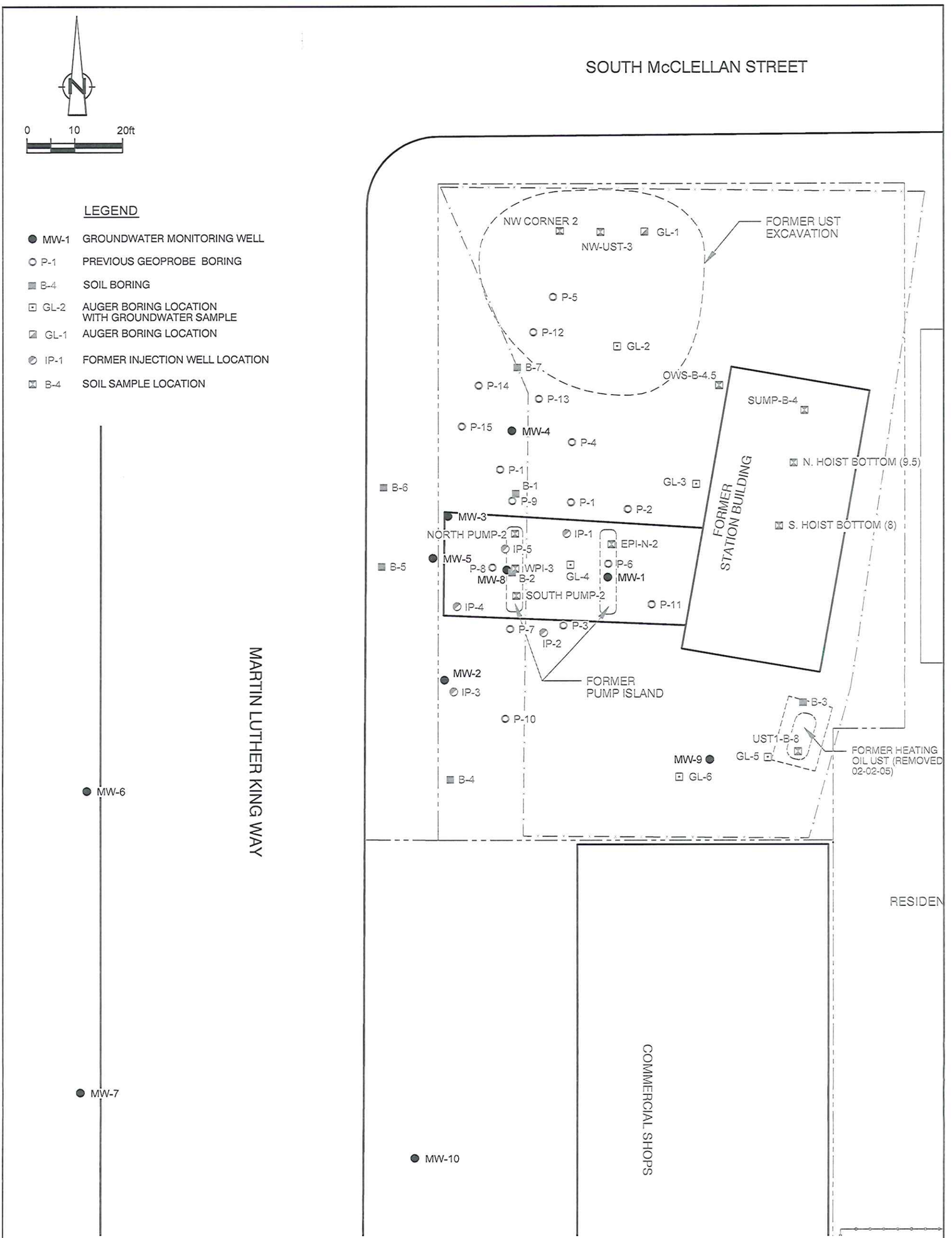


Figure 2

SITE PLAN
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington

61992-2013(005)GN-BR002 APR 1/2013

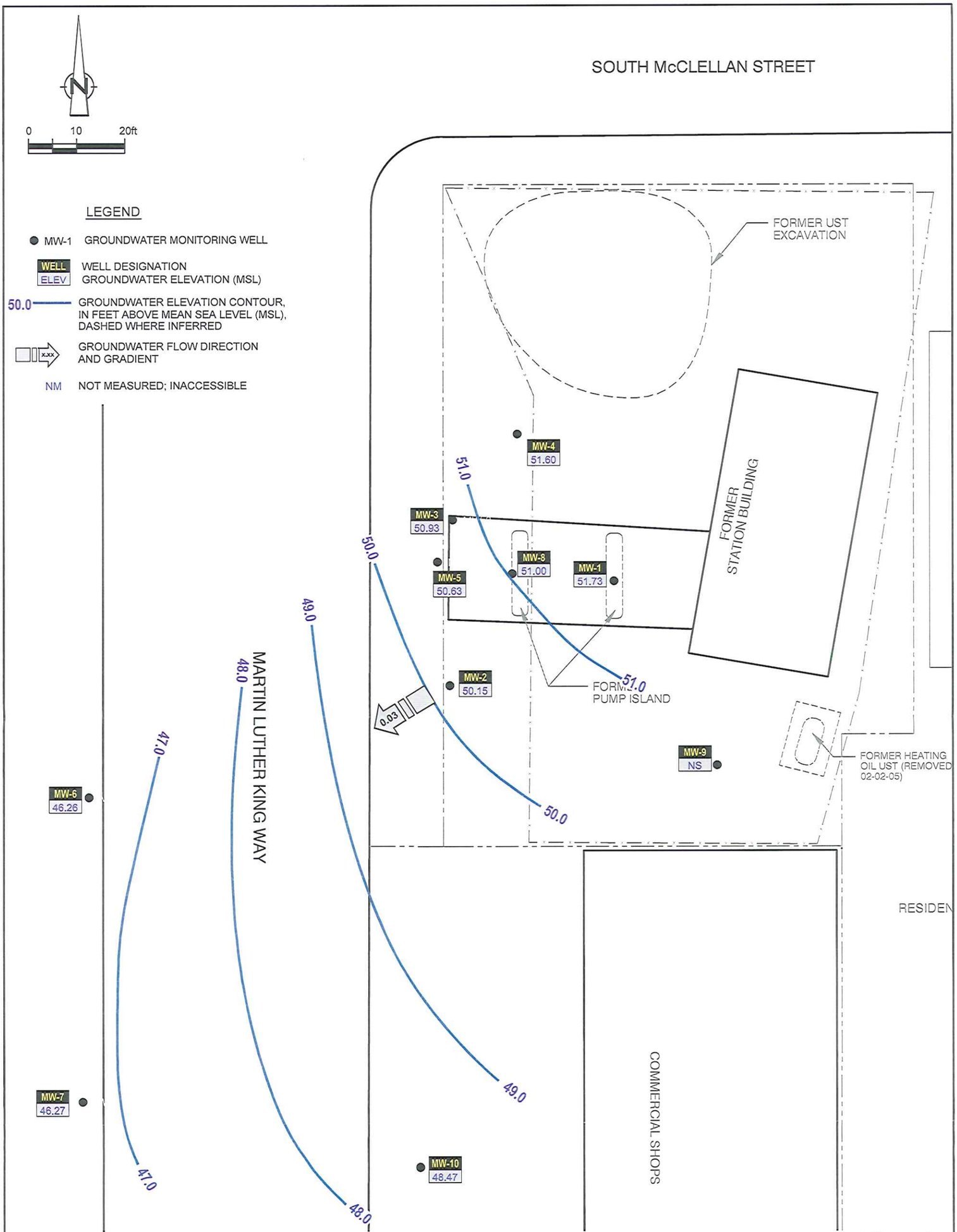


Figure 3

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
February 26, 2013

061992-2013(005)GN-BR003 APR 2/2013

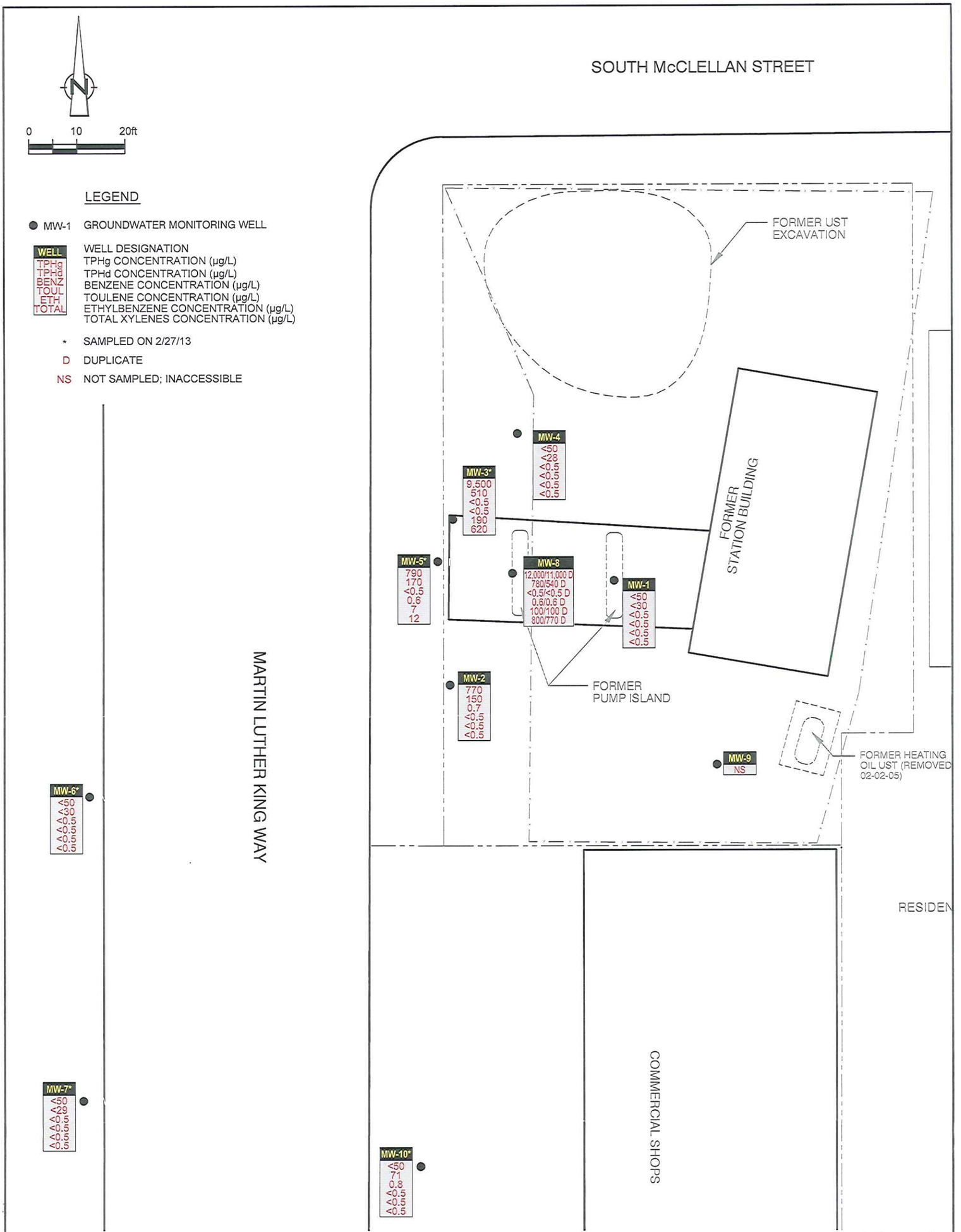


Figure 4

GROUNDWATER CONCENTRATION MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
February 26, 2013

061992-2013(005)GN-BR006 APR 2/2013

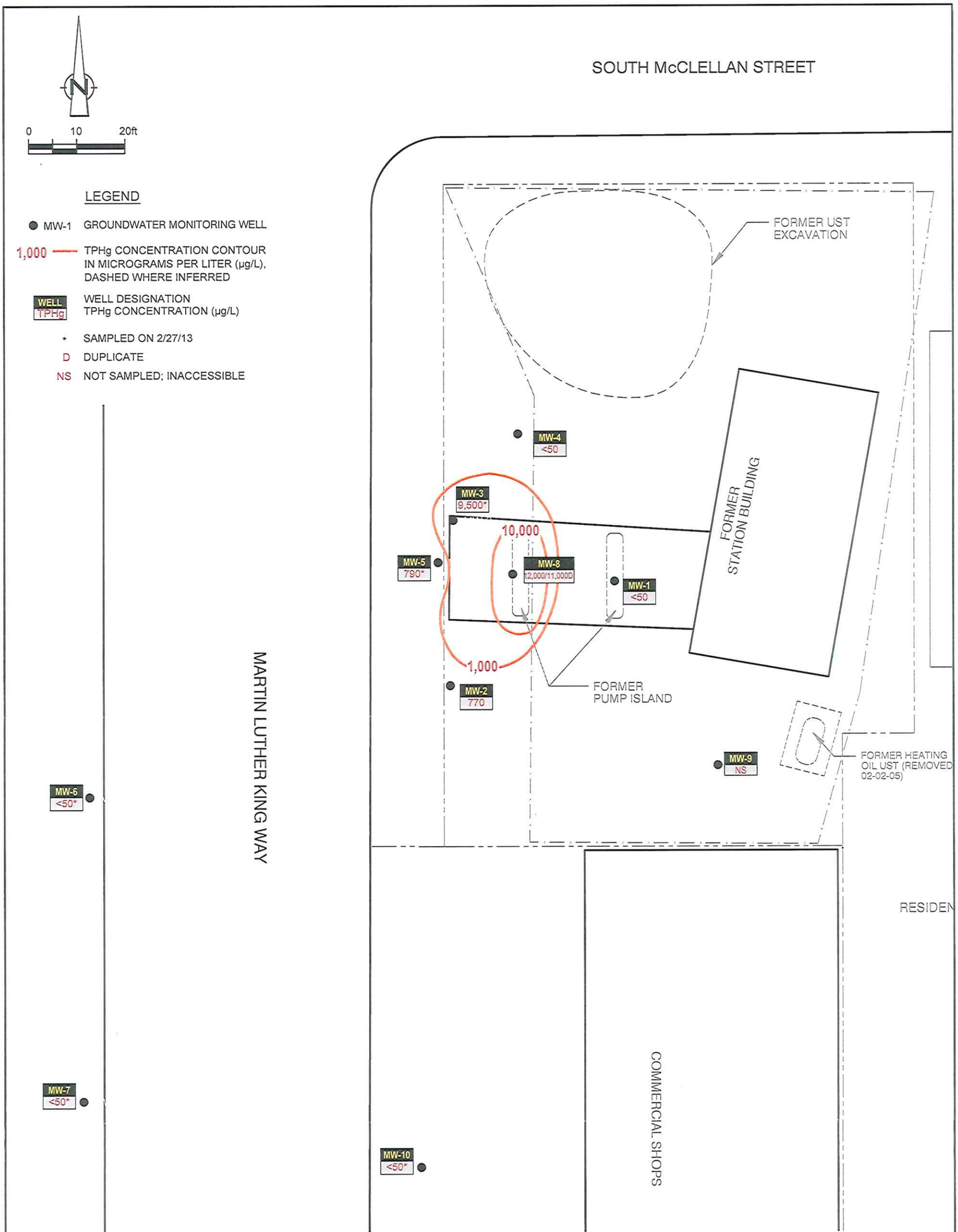


Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
February 26, 2013

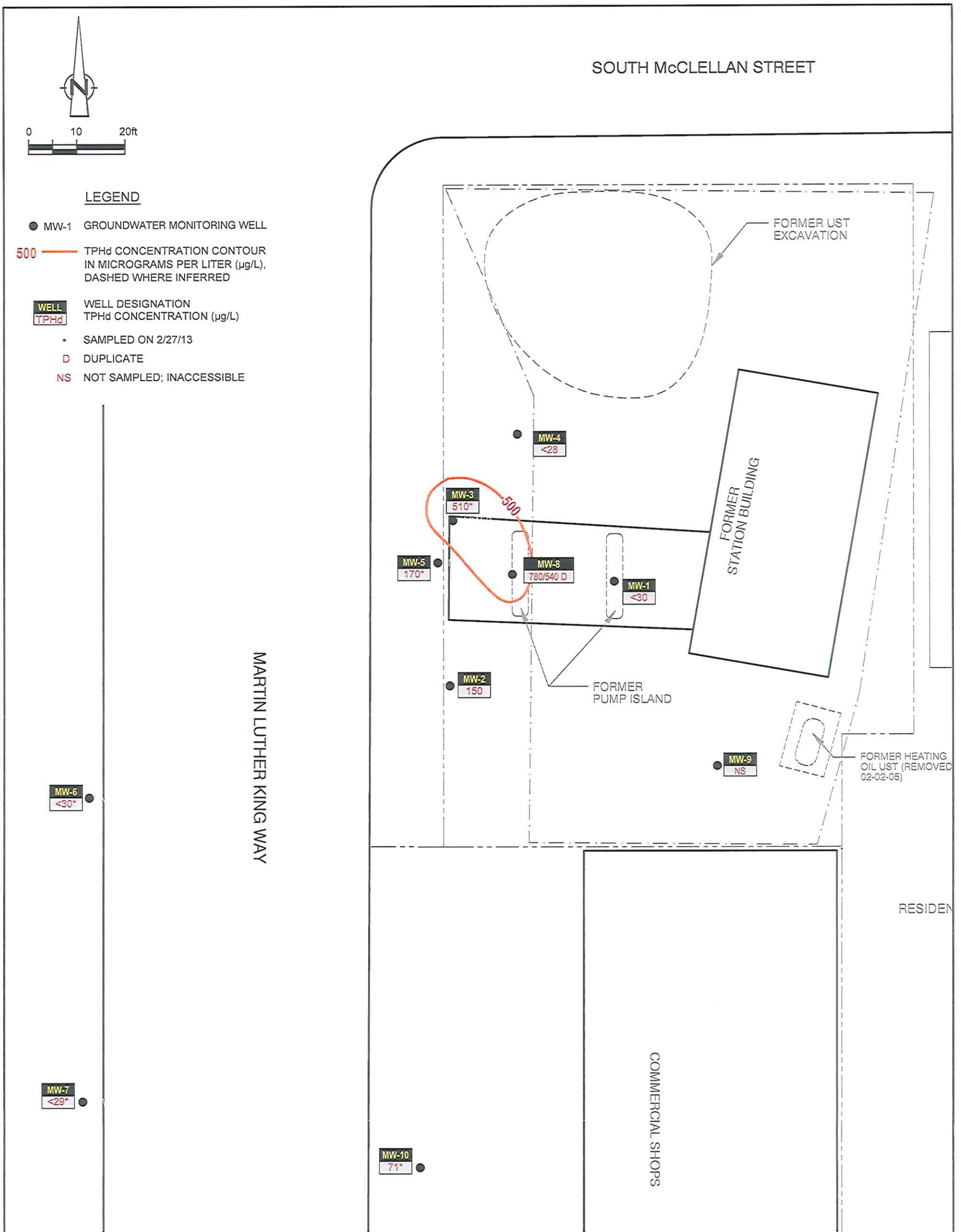


Figure 6

TPHd ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
February 26, 2013

TABLE

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	08/19/2005	97.92	13.01	84.91	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	10/27/2005	97.92	12.62	85.30	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	12/27/2005	97.92	-	-	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	01/12/2006	97.92	9.03	88.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/02/2006	97.92	10.56	87.36	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	06/28/2006	97.92	12.42	85.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/01/2006	97.92	9.33	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/06/2006	97.92	9.72	88.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/28/2007	97.92	11.04	86.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/07/2007	97.92	11.14	86.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	04/11/2007	97.92	11.06	86.86	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	11/12/2009	97.92	11.08	86.84	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-1	08/30/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/15/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/06/2012	62.35	9.84	52.51	260	430	620	<0.5	41	3	18	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-1	05/30/2012	62.35	10.63	51.72	<50	35	170	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.7	0.007399
MW-1	08/08/2012	62.35	11.36	50.99	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.32	-
MW-1	12/05/2012	62.35	9.51	52.84	<50	<29[4]	<69[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	27.7	-
MW-1	**02/26/2013**	**62.35**	**10.62**	**51.73**	<50	<30[4]	<71[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.42	-
MW-2	08/19/2005	96.25	13.02	83.23	2,000	-	-	ND	10	81	91	-	-	-	-	-	-	-	-	-	-
MW-2	10/27/2005	96.25	13.62	82.63	2,300	-	-	ND	ND	89	93	-	-	-	-	-	-	-	-	-	-
MW-2	12/27/2005	96.25	-	-	820	-	-	ND	ND	21	66	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2006	96.25	5.77	90.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	03/02/2006	96.25	11.82	84.43	1,300	-	-	ND	3.9	23	50	-	-	-	-	-	-	-	-	-	-
MW-2	04/13/2006	96.25	13.06	83.19	470	-	-	ND	1.4	6.9	15	-	-	-	-	-	-	-	-	-	-
MW-2	06/28/2006	96.25	12.40	83.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2006	96.25	13.64	82.61	580	-	-	ND	1.6	2.9	6.2	-	-	-	-	-	-	-	-	-	-
MW-2	12/01/2006	96.25	10.65	85.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/06/2006	96.25	10.20	86.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2007	96.25	11.06	85.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	02/12/2007	96.25	-	-	1,400	-	-	1.4	3.5	16	13	-	-	-	-	-	-	-	-	-	-
MW-2	02/28/2007	96.25	11.65	84.60	1,200	-	-	2	4	18	60	-	-	-	-	-	-	-	-	-	-
MW-2	03/07/2007	96.25	11.43	84.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	04/11/2007	96.25	11.07	85.18	1,200	-	-	ND	3	11	63	-	-	-	-	-	-	-	-	-	-
MW-2	11/12/2009	96.25	12.35	83.90	455	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-2	08/31/2011	60.72	11.96	48.76	960	590	-	1	<0.7	1	6	<1	<1	<0.5	<1	<1	<1	59	24	-	-
MW-2	12/15/2011	60.72	11.53	49.19	750	30	-	1	<0.7	1	<1.6	<1	<1	<0.5	<1	<1	<1	60	25	-	-
MW-2	02/06/2012	60.72	10.26	50.46	780	390	-	1	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	55	22	-	-
MW-2	05/30/2012	60.72	10.83	49.89	480	210	<67	0.8	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	47	21	3.8	0.007173
MW-2	08/08/2012	60.72	11.95	48.77	670	160[4]	<67[4]	0.9	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	24	8.3	-
MW-2	12/05/2012	60.72	10.61	50.11	590	250[4]	<73[4]	2	<0.5	3	11	<0.5	<0.5	<0.5	<1	<1	<1	37	17	13.1	-
MW-2	**02/26/2013**	**60.72**	**10.57**	**50.15**	770	150[4]	<68[4]	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.19	-
MW-3	08/19/2005	97.43	12.72	84.71	44,000	-	-	4.1	18	780	3,600	-	-	-	-	-	-	-	-	-	-
MW-3	12/27/2005	97.43	13.42	84.01	17,000	-	-	ND	38	580	3,000	-	-	-	-	-	-	-	-	-	-
MW-3	12/28/2005	-	-	-	6,600	-	-	5	22	200	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2006	97.43	8.84	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	03/02/2006	97.43	10.90	86.53	22,000	-	-	ND	26	450	4,200	-	-	-	-	-	-	-	-	-	-
MW-3	04/13/2006	97.43	11.92	85.51	33,000	-	-	ND	3	700	3,100	-	-	-	-	-	-	-	-	-	-
MW-3	06/28/2006	97.43	12.17	85.26	53,000	-	-	ND	17	530	2,600	-	-	-	-	-	-	-	-	-	-
MW-3	08/13/2006	97.43	13.91	83.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/11/2006	97.43	13.77	83.66	14,000	-	-	ND	5.6	180	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	10/13/2006	97.43	-	-	1,400	-	-	ND	1	26	98	-	-	-	-	-	-	-	-	-	-
MW-3	11/17/2006	97.43	10.56	86.87	48,000	-	-	ND	34	490	4,100	-	-	-	-	-	-	-	-	-	-
MW-3	12/01/2006	97.43	9.78	87.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/06/2006	97.43	10.01	87.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2007	97.43	10.90	86.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/12/2007	97.43	-	-	36,000	-	-	ND	10	280	1,800	-	-	-	-	-	-	-	-	-	-
MW-3	02/28/2007	97.43	11.12	86.31	22,000	-	-	ND	6	200	1,400	-	-	-	-	-	-	-	-	-	-
MW-3	03/07/2007	97.43	11.17	86.26	21,000	-	-	ND	18	170	1,000	-	-	-	-	-	-	-	-	-	-
MW-3	04/11/2007	97.43	11.04	86.39	19,000	-	-	ND	6	110	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	11/12/2009	97.43	11.98	85.45	71.7	-	-	ND	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-3	08/31/2011	61.81	12.10	49.71	7,400	370	<68	<1.0	<1	190	554	<2	<2	<1	67	1,300	330	140	47	-	-
MW-3	12/15/2011	61.81	11.38	50.43	5,400	<29	<67	<0.5	<0.7	120	400	<1	<1	<0.5	50	950	210	110	37	-	-
MW-3	02/06/2012	61.81	10.33	51.48	6,300	1,200	<68	<1	<1	130	523	<2	<2	<1	49	870	190	74	27	-	-
MW-3	05/30/2012	61.81	10.87	50.94	7,400	520	<66	<1	<1	160	660	<2	<2	<1	66	1,100	220	100	38	1.1	0.012868
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290[4]	<67[4]	<1	<1	140	610	<1	<1	<1	71	830	140	86	33	0.98	-
MW-3	12/06/2012	61.81	9.91	51.90	6,700	290[4]	<69[4]	<0.5	<0.5	160	480	<0.5	<0.5	<0.5	75	860	160	100	41	0.36	-
MW-3	**02/27/2013**	**61.81**	**10.88**	**50.93**	**9,500**	**510[5]**	**<66[4]**	**<0.5**	**<0.5**	**190**	**620**	**<0.5**	**<0.5**	**<0.5**	**73**	**1,200**	**240**	**130**	**51**	**0.70**	**-**
MW-4	06/28/2006	98.36	12.40	85.96	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS												
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropylbenzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	12/01/2006	98.36	9.90	88.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	12/06/2006	98.36	10.21	88.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	02/28/2007	98.36	11.43	86.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/07/2007	98.36	11.49	86.87	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-4	04/11/2007	98.36	11.27	87.09	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-4	11/12/2009	98.36	11.82	86.54	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-4	08/31/2011	62.75	12.42	50.33	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	12/15/2011	62.75	11.69	51.06	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	02/06/2012	62.75	10.50	52.25	<50	55	<67	<0.5	<0.7	<0.8	<1.6	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	05/30/2012	62.75	11.11	51.64	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	0.007248
MW-4	08/07/2012	62.75	11.76	50.99	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.34	-
MW-4	12/05/2012	62.75	10.19	52.56	<50	<32[4]	<75[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	4.0	-
MW-4	02/26/2013	62.75	11.15	51.60	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.16	-
MW-5	06/28/2006	97.20	12.09	85.11	21,000	-	-	ND	14	290	920	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2006	97.20	13.63	83.57	2,500	-	-	ND	ND	34	60	-	-	-	-	-	-	-	-	-	-
MW-5	11/17/2006	97.20	10.57	86.63	23,000	-	-	ND	52	450	1,700	-	-	-	-	-	-	-	-	-	-
MW-5	12/01/2006	97.20	9.75	87.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	01/12/2007	97.20	10.85	86.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/12/2007	97.20	-	-	37,000	-	-	ND	33	1,600	2,800	-	-	-	-	-	-	-	-	-	-
MW-5	02/28/2007	97.20	11.05	86.15	29,000	-	-	ND	24	550	1,800	-	-	-	-	-	-	-	-	-	-
MW-5	03/07/2007	97.20	11.11	86.09	42,000	-	-	11	24	740	2,500	-	-	-	-	-	-	-	-	-	-
MW-5	04/11/2007	97.20	10.96	86.24	65,000	-	-	ND	79	850	4,000	-	-	-	-	-	-	-	-	-	-
MW-5	11/12/2009	97.20	12.10	85.10	2,340	-	-	1	36	<1.0	125	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	08/31/2011	61.66	12.80	48.86	3,100	770	<67	2	1	72	124	<1	<1	<0.5	120	130	18	210	78	-	-
MW-5	12/15/2011	61.66	11.41	50.25	1,900	66	<67	1	0.9	24	33	<1	<1	<0.5	81	43	3	120	43	-	-
MW-5	02/06/2012	61.66	10.54	51.12	1,200	34	<68	0.8	<0.7	12	43	<1	<1	<0.5	37	31	6	55	21	-	-
MW-5	05/30/2012	61.66	10.91	50.75	260	54	<66	<0.5	<0.7	3	7	<1	<1	<0.5	12	4	<1	24	9	0.48	0.009168
MW-5	08/07/2012	61.66	11.39	50.27	610	190[4]	<66[4]	<0.5	<0.5	11	22	<0.5	<0.5	<0.5	21	33	12	32	13	5.1	-
MW-5	12/06/2012	61.66	9.74	51.92	170	40[4]	<76[4]	<0.5	<0.5	2	8	<0.5	<0.5	<0.5	8	3	<1	12	4	0.17	-
MW-5	**02/27/2013**	**61.66**	**11.03**	**50.63**	790	**170[4]**	**<69[4]**	**<0.5**	**0.6**	**7**	**12**	**<0.5**	**<0.5**	**<0.5**	25	**9**	**1**	**42**	**19**	**0.76**	-
MW-6	08/31/2011	58.03	12.33	45.70	<50	44	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	1	<1	<1	<1	<1	-	-
MW-6	12/15/2011	58.03	12.09	45.94	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-6	02/06/2012	58.03	11.80	46.23	<50	<29	<68	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-6	05/30/2012	58.03	12.03	46.00	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	2.5	-
MW-6	08/07/2012	58.03	12.21	45.82	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-6	12/06/2012	58.03	11.60	46.43	<50	<31[4]	<73[4]	<0.5	<0.5	1	6	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.1	-
MW-6	**02/27/2013**	**58.03**	**11.77**	**46.26**	<50	**<30[4]**	**<70[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.68**	-
MW-7	08/31/2011	56.96	11.15	45.81	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	12/15/2011	56.96	10.93	46.03	<50	45	89	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	02/06/2012	56.96	10.75	46.21	<50	<29	<68	<0.5	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	05/30/2012	56.96	10.93	46.03	<50	37	160	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	13.8	0.097
MW-7	08/07/2012	56.96	11.70	45.26	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	31.7	-
MW-7	12/06/2012	56.96	10.46	46.50	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	40.3	-
MW-7	**02/27/2013**	**56.96**	**10.69**	**46.27**	<50	**<29[4]**	**<68[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**76.5**	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-8	08/31/2011	61.71	12.01	49.70	4,400	240	<67	<0.5	<0.7	41	442	<1	<1	<0.5	33	500	130	26	11	-	-
MW-8	12/15/2011	61.71	11.25	50.46	8,100	96	<67	<0.5	<0.7	79	880	<1	<1	<0.5	72	900	230	46	20	-	-
MW-8	02/06/2012	61.71	10.00	51.71	13,000	290	<69	<1	<1	110	1,280	<2	<2	<1	89	1,400	450	36	18	-	-
MW-8	05/30/2012	61.71	10.69	51.02	9,500	700	<68	<1	<1	110	1,300	<2	<2	<1	96	1,100	310	59	28	7.1	0.007324
MW-8 DUP	05/30/2012	61.71	10.69	51.02	10,000	450	<66	<1	<1	110	1,300	<2	<2	<1	93	1,300	340	58	27	5.3	0.007248
MW-8	08/08/2012	61.71	11.30	50.41	9,300	290[4]	<66[4]	<1	<1	92	850	<1	<1	<1	73	910	190	49	22	3.4	-
MW-8 DUP	08/08/2012	61.71	11.30	50.41	11,000	240[4]	<66[4]	<1	<1	83	710	<1	<1	<1	67	680	140	44	20	3.6	-
MW-8	12/05/2012	61.71	9.61	52.10	13,000	2,600[4]	200[4]	<0.5	0.8	95	1,100	<0.5	<0.5	<0.5	93	1,400	380	61	27	27.6	-
MW-8 DUP	12/05/2012	61.71	9.61	52.10	12,000	2,600[4]	240[4]	<0.5	0.8	91	1,100	<0.5	<0.5	<0.5	91	1,400	360	58	26	27.4	-
MW-8	**02/26/2013**	**61.71**	**10.71**	**51.00**	**12,000**	**780[4]**	**<70[4]**	**<0.5**	**0.6**	**100**	**800**	**<0.5**	**<0.5**	**<0.5**	**86**	**1,200**	**280**	**63**	**29**	**5.2**	**-**
MW-8 DUP	**02/26/2013**	**61.71**	**10.71**	**51.00**	**11,000**	**540[4]**	**<69[4]**	**<0.5**	**0.6**	**100**	**770**	**<0.5**	**<0.5**	**<0.5**	**72**	**1,100**	**280**	**60**	**29**	**5.3**	**-**
MW-9	08/31/2011	62.58	14.29	48.29	<50	78	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	12/15/2011	62.58	13.01	49.57	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	02/06/2012	62.58	12.04	50.54	66	<300	<700[1]	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	05/30/2012	52.58	12.53	40.05	66	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.31	0.007248
MW-9	08/08/2012	62.58	13.37	49.21	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.87	-
MW-9	12/05/2012	62.58	12.05	50.53	<50	39[4]	<69[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.33	-
MW-9	**02/26/2013[5]**	**62.58**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	08/31/2011	58.96	11.94	47.02	<50	260	100	2	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-10	12/15/2011	58.96	11.13	47.83	51	<28	<66	3	<0.7	<0.8	0.8	<1	<1	<0.5	<1	<1	<1	2	<1	-	-
MW-10	02/06/2012	58.96	10.44	48.52	<50[2]	<29	<68	1	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	3	1	-	-
MW-10	05/30/2012	58.96	10.77	48.19	<50	74	<66	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.46	0.007248

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-10 DUP	05/30/2012	58.96	10.77	48.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	-
MW-10	08/07/2012	58.96	11.41	47.55	110	130[4]	<68[4]	1	<0.5	<0.5	1	<0.5	<0.5	<0.5	<1	<1	<1	10	4	<0.034	-
MW-10	12/06/2012	58.96	11.31	47.65	130	220[4]	<72[4]	3	0.6	<0.5	4	<0.5	<0.5	<0.5	<1	<1	<1	24	10	0.28	-
MW-10	02/27/2013	58.96	10.49	48.47	<50	71[4]	<69[4]	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	2	<1	<0.073	-
Trip Blank	08/08/2012	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	12/05/2012	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	02/26/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-

Abbreviations and Notes

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-HRO = Total petroleum hydrocarbons - oil range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

Xylenes = o-xylene + m,p-xylene

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; except the April 25, 1990 sample from EW-1 analyzed by EPA Method 8020

EDB = 1,2 Dibromoethane analyzed by EPA Method 8011

EDC = 1,2 Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tert butyl ether

cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons analyzed by EPA Method 8270c Selective Ion Monitoring

Total Lead analyzed by EPA Method 6020

-- = Not available / not applicable.I286

<x = Not detected above laboratory method detection limit.

1 Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

2 A preserved vial was submitted for analysis. However, the pH at the time of analysis was 4.

3 Well not sampled - well not found.

4 Analysis with silica-gel cleanup.

5 Inaccessible.

ATTACHMENT A

MONITORING DATA PACKAGE

WATER LEVEL RECORD

PROJECT NAME: 060992 LOCATION: Seattle, WA

JOB NO.: 2800 MLK Way S. DATE: 2/26/13

CLIENT: Phillips 66 ENGINEER/GEOLOGIST: DE, NH

OBSERVATION WELL	TOP OF CASING ELEVATION A		DEPTH TO WATER B		WATER LEVEL ELEVATION A-B	
	feet	metres	feet	metres	feet	metres
MW-7			10.69			
MW-6			11.77			
MW-3			10.88			
MW-5			11.03			
MW-10			10.49			
MW-2			10.57			
MW-4			11.15			
MW-1			10.62			
MW-8			10.71			
MW-9	no access					

CRA

Former Tidewater Site
Seattle, WA

Date: 2/26/13

Water Quality Meter S/N: _____

Location: MW-1
Name of Sampler: D. Escobedo
Weather: Overcast, 41°F

Depth to Water: 10.02
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022613 - DE - MW1

Sample Method: peri pump
Purge Start: 13:05
Sample Time: 14:05

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
13:10	6.69	0.090	7000	0.00	11.90	-29	0.1	0.3	1/8	0.17	11.31	very turbid
13:15	6.54	0.090	7167	0.00	12.11	-18	0.0	0.3	1/4	0.16	11.34	
13:20	6.52	0.090	489	0.00	12.22	-12	0.0	0.3	3/8	0.18	11.34	
13:25	6.55	0.090	298	0.00	12.21	9	0.1	0.3	1/2	0.19	11.31	
13:30	6.55	0.090	263	0.00	12.23	17	0.0	0.3	5/8	0.18	11.31	
13:35	6.54	0.090	227	0.00	12.23	22	0.0	0.3	3/4	0.18	11.31	
13:40	6.49	0.090	228	0.00	12.22	23	0.0	0.3	7/8	0.18	11.32	

Analysis:

Groundwater		**Preservative**
GRO	X	HCL
DRO	X	HCL
VOCs	X	HCL
SVOCs	X	
Total Lead	X	

PAH

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Date: 2/26/13

Water Quality Meter S/N: _____

Location: MW-4
Name of Sampler: D. Escobedo
Weather: partly cloudy 39°F

Depth to Water: 11.15
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD X
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022613-DE-MW4

Sample Method: Peri Pump
Purge Start: 10:35
Sample Time: 11:35

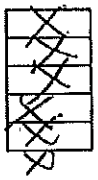
1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X 0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
10:40	6.16	0.082	>1000	0.00	12.04	-75	0.1	0.5	1/8	0.19	11.40	
10:45	6.41	0.090	920	0.00	12.17	-77	0.0	0.5	1/4	0.18	11.38	
10:50	6.49	0.091	343	0.00	12.24	-79	0.0	0.4	3/8	0.18	11.39	
10:55	6.48	0.090	191	0.00	12.27	-81	0.1	0.4	1/2	0.18	11.40	
11:00	6.52	0.0810	196	0.00	12.31	-81	0.1	0.4	5/8	0.18	11.41	

Analysis:

Groundwater
GRO
DRO
VOCs
SVOCs
Total Lead
PAH



Preservative
HCL
HCL
HCL

Signed _____

Notes:

6

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 02/26/13

Location: MW2
Name of Sampler: N. Hingorani
Weather: CLEAR

Depth to Water: 10.72
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022613 - NH - MW2

Sample Method: LOW FLOW
Purge Start: 13:14
Sample Time: 14:30

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
13:26	6.03	0.490	165.0	0.0	12.18	-36	0.0	0.31		0.100	11.08	CLEAR
13:31	6.03	0.479	151.0	0.0	12.05	-39	0.0	0.31		0.100	11.11	" "
13:36	6.03	0.483	135.0	0.0	12.01	-40	0.0	0.31		0.100	11.13	" "
13:41	6.03	0.488	127.0	0.0	12.03	-42	0.0	0.32		0.100	11.15	" "

Analysis:
Groundwater
GRO
DRO
VOCs
SVOCs
Total Lead

	Preservative
✓	HCL
✓	HCL
✓	HCL
✓	
✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 02/26/13

Location: MW8
Name of Sampler: N. Hinspeugs
Weather: CLEAR

QA/QC
MS/MSD _____
Duplicate ✓
Blank _____

Depth to Water: 10.68
Depth to Bottom: _____

Sample Depth: _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022613-NH-MW8

QA/QC Sample ID
(GW-mmddyy-AA-XXX)

GW-022613-NH-FD1

Sample Method: Low Flow
Purge Start: 10:29
Sample Time: 11:36

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
10:38	6.00	0.505	98.6	0.77	10.17	-43	0.0	0.32		0.100	10.81	CLEAR
10:43	5.97	0.495	98.5	0.0	9.84	-48	0.0	0.32		0.100	10.82	" "
10:48	5.96	0.496	99.1	0.0	9.81	-52	0.0	0.32		0.100	10.84	" "
10:53	5.99	0.497	99.0	0.0	9.76	-53	0.0	0.32		0.100	10.86	" "

Analysis:

Groundwater		Preservative
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Date: 2/27/13

Water Quality Meter S/N: _____

Location: MW-7
Name of Sampler: D. FRANCOEUR
Weather: Partly cloudy 40s

Depth to Water: 10.70
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022713 - DF - MW7

Sample Method: Peri pump
Purge Start: 0915
Sample Time: 1015

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X 0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
0920	6.78	0.090	2010	0.00	13.73	-120	0.1	0.5	1/8	0.19	10.69	
0925	6.74	0.090	917	0.00	13.96	-115	0.0	0.5	1/4	0.19	10.69	
0930	6.75	0.090	312	0.00	13.49	-112	0.1	0.5	3/8	0.19	10.68	
0935	6.80	0.090	248	0.00	13.50	-108	0.1	0.5	1/2	0.19	10.68	
0940	6.80	0.090	215	0.00	13.63	-109	0.1	0.5	5/8	0.19	10.68	
0945	6.80	0.090	12.6	0.00	13.08	-106	0.1	0.5	3/4	0.19	10.66	
0950	6.80	0.090	12.1	0.00	13.11	-105	0.1	0.5	7/8	0.19	10.66	

Analysis:

Groundwater		**Preservative**
GRO	X	HCL
DRO	X	HCL
VOCs	X	HCL
SVOCs	X	
Total Lead	X	

PAHs

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 2/27/13

Location: MW-10
Name of Sampler: D. J. Scholefield
Weather: Cloudy 40°F

Depth to Water: 10.73
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022713-DE-MW10

Sample Method: Peri Pump
Purge Start: 11:25
Sample Time: 12:25

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
11:30	6.64	0.229	102	1.37	12.46	-80	0.1	1.5	1/8	0.19	10.98	
11:35	6.68	0.227	76.1	0.00	12.45	-82	0.1	1.5	1/4	0.19	10.89	
11:40	6.68	0.227	49.6	0.00	12.40	-86	0.1	1.5	3/8	0.19	10.84	
11:45	6.68	0.228	47.9	0.00	12.40	-86	0.1	1.5	1/2	0.19	10.95	
11:50	6.68	0.228	45.8	0.00	12.39	-88	0.1	1.5	5/8	0.19	10.95	

Analysis:

Groundwater		**Preservative**
GRO		HCL
DRO		HCL
VOCs	X	HCL
SVOCs	X	
Total Lead	X	
PAHs	X	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 02/27/13

Location: MW3
Name of Sampler: N. Hinspeter
Weather: CLEAR

Depth to Water: 10.91
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022713 - NH - MW3

Sample Method: Low Flow
Purge Start: 11:02
Sample Time: 12:00

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
10:10	6.21	0.463	675.0	1.00	11.50	-57	0.0	0.30		0.150	11.01	TURBID
11:15	6.17	0.466	272.0	0.0	11.95	-61	0.0	0.30		0.150	11.01	" "
11:20	6.13	0.468	188.0	0.16	11.52	-64	0.0	0.30		0.150	11.05	" "
11:25	6.11	0.469	223.0	0.16	11.57	-65	0.0	0.30		0.150	11.06	" "
11:30	6.11	0.469	167.0	0.14	11.63	-67	0.0	0.30		0.150	11.06	

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 02/27/13

Location: MW6
Name of Sampler: N. Hinspeter
Weather: CLEAR

Depth to Water: 11.72
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

QA/QC Sample ID
(GW-mmddyy-AA-XXX)
_____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022713 - NH - MW6

Sample Method: Low Flow
Purge Start: 9:17
Sample Time: 10:20

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
9:27	6.32	0.915	135.0	0.17	12.23	-85	0.0	0.59		0.100	11.72	CLEAR
9:32	6.33	0.908	127.0	0.09	12.46	-90	0.0	0.58		0.100	11.72	" "
9:37	6.35	0.905	126.0	0.0	13.11	-94	0.0	0.58		0.100	11.72	" "
9:42	6.37	0.901	127.0	0.0	13.17	-96	0.0	0.58		0.100	11.72	" "
9:47	6.39	0.903	127.0	0.0	13.23	-99	0.0	0.58		0.100	11.72	" "

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 02/27/13

Location: MW5
Name of Sampler: N. Hinsperger
Weather: CLEAR

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

Depth to Water: 11.02
Depth to Bottom: _____

Sample Depth: _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 022713 - NH - MW5

QA/QC Sample ID
(GW-mmddyy-AA-XXX)

_____

Sample Method: Low Flow
Purge Start: 12:45
Sample Time: 13:30

1 Well Volume: _____
3 Well Volumes: _____

water column height(ft) X
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
12:53	6.10	0.492	207.0	1.36	12.67	-32	0.0	0.32		0.100	11.02	CLEAR
12:58	6.08	0.486	219.0	0.55	12.47	-35	0.0	0.32		0.100	11.02	" "
13:03	6.08	0.481	231.0	0.0	12.35	-35	0.0	0.32		0.100	11.02	" "
13:08	6.09	0.479	232.0	0.0	12.32	-36	0.0	0.32		0.100	11.02	" "
13:13	6.05	0.478	224.0	0.0	12.29	-37	0.0	0.32		0.100	11.02	" "

Analysis:

Groundwater		Preservative
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

CHAIN OF CUSTODY RECORD

COC NO.: 37478
PAGE 1 OF 1
(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES

Address: 1117 TACOMA AVE SOUTH, TACOMA, WA.
Phone: 253.573.1218 Fax: 253.573.1663

Project No/ Phase/Task Code: 061992	Laboratory Name: LANCASTER	Lab Location: LANCASTER, PA.	SSOW ID:
Project Name: TIDEWATER - SEATTLE	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: MLK WAY S. SEATTLE, WA.			Carrier:
Chemistry Contact: M. DAVIS / J. CLOUD			Airbill No:
Sampler(s): D. ESCOBEDO / N. HINSPERGER			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x6-g, 1x25-g	Other:	Total Containers/Sample	DRO	GRO	VOC's	SVOC's	Total PAH	MS/MSD Request	Comments/ Special Instructions:
1	GW-022613-NH-MW8	02/26/13	11:30	WG	G									10	X	X	X	X	X		
2	GW-022613-NH-FD1	02/26/13		WG	G									10	X	X	X	X	X		
3	GW-022613-NH-MW2	02/26/13	14:30	WG	G									11	X	X	X	X	X		
4	GW-022713-NH-MW6	02/27/13	10:20	WG	G									11	X	X	X	X	X		
5	GW-022713-NH-MW3	02/27/13	12:00	WG	G									11	X	X	X	X	X		
6	GW-022713-NH-MW5	02/27/13	13:30	WG	G									11	X	X	X	X	X		
7	GW-022713-DE-MW10	02/27/13	12:25	WG	G									11	X	X	X	X	X		
8	GW-022613-DE-MW4	02/26/13	11:35	WG	G									22	X	X	X	X	X	X	MS/MSD
9	GW-022713-DE-MW7	02/27/13	10:15	WG	G									11	X	X	X	X	X		
10	GW-022613-DE-MW1	02/26/13	14:05	WG	G									11	X	X	X	X	X		
11	TRIP BLANKS															X	X				
12																					
13																					
14																					
15																					

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: STANDARD

Total Number of Containers: 121
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	02/26/13	1600	1.			
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10B (20110804)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES (CRA)

Address: 1117 TACOMA AVE SOUTH, TACOMA, WA.
Phone: 253.573.1218 Fax: 253.573.1665

COC NO.: 37478
PAGE ___ OF ___
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 061972
Project Name: TIDEWATER - SEATTLE
Project Location: MLK WAY S. SEATTLE, WA.
Chemistry Contact: M. DAVIS / J. CLOUD
Sampler(s): D. ESCOBEDO / N. LINSBERGER

Laboratory Name: LANCASTER
Lab Contact:
Lab Location: LANCASTER, PA.
Lab Quote No:

SSOW ID:
Cooler No:
Carrier:
Airbill No:
Date Shipped:

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	DRO	GRO	VOC	[illegible]	[illegible]	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-022613-NH-MW8	02/26/13	11:30	WG	G									10	X	X	X	X	X		
2	GW-022613-NH-FD1	02/26/13		WG	G									8	X	X	X	X	X		
3	GW-022613-NH-MW2	02/26/13	14:30	WG	G									11	X	X	X	X	X		
4	GW-022713-NH-MW6	02/27/13	10:20	WG	G									11	X	X	X	X	X		
5	GW-022713-NH-MW3	02/27/13	12:00	WG	G									11	X	X	X	X	X		
6	GW-022713-NH-MW5	02/27/13	13:30	WG	G									11	X	X	X	X	X		
7	GW-022713-DE-MW10	02/27/13	12:25	WG	G									11	X	X	X	X	X		
8	GW-022613-DE-MW4	02/26/13	[illegible]	WG	G									32	X	X	X	X	X	X	MS/MSD
9	GW-022713-DE-MW7	02/27/13	[illegible]	WG	G									11	X	X	X	X	X		
10	GW-022613-DE-MW1	02/26/13	14:05	WG	G									11	X	X	X	X	X		
11	TRIP BLANKS															X	X				
12																					
13																					
14																					
15																					

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: STANDARD

Total Number of Containers: 121
All Samples in Cooler must be on COC

Notes/ Special Requirements:

	RELINQUISHED BY	COMPANY	DATE	TIME		RECEIVED BY	COMPANY	DATE	TIME
1.	[signature]	CRA	02/26/13	1600	1.				
2.					2.				
3.					3.				

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT — ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE — Fully Executed Copy (CRA) YELLOW — Receiving Laboratory Copy PINK — Shipper GOLDENROD — Sampling Crew

CRA Form: COC-10B (20110804)

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

March 14, 2013

Project: 301233 Tidewater Seattle

Submittal Date: 03/01/2013
Group Number: 1372475
PO Number: 4055960
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
GW-022613-NH-MW8 Grab Groundwater	6969727
GW-022613-NH-FD1 Grab Groundwater	6969728
GW-022613-NH-MW2 Grab Groundwater	6969729
GW-022713-NH-MW6 Grab Groundwater	6969730
GW-022713-NH-MW3 Grab Groundwater	6969731
GW-022713-NH-MW5 Grab Groundwater	6969732
GW-022713-DE-MW10 Grab Groundwater	6969733
GW-022613-DE-MW4 Grab Groundwater	6969734
GW-022613-DE-MW4 MS Grab Groundwater	6969735
GW-022613-DE-MW4 MSD Grab Groundwater	6969736
GW-022713-DE-MW7 Grab Groundwater	6969737
GW-022613-DE-MW1 Grab Groundwater	6969738
TRIP BLANK Water	6969739

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Haroon Rahmani
ELECTRONIC COPY TO	CRA	Attn: Edwin Turner
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Jeffrey Cloud
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Matt Davis
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact

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Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: GW-022613-NH-MW8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969727
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	5	3	1
10335	n-Butylbenzene	104-51-8	13	1	1
10335	sec-Butylbenzene	135-98-8	10	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	100	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	29	1	1
10335	p-Isopropyltoluene	99-87-6	8	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	86	1	1
10335	n-Propylbenzene	103-65-1	63	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

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Analysis Report

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Sample Description: GW-022613-NH-MW8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969727
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	0.6	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,200	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	280	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	600	5	10
10335	o-Xylene	95-47-6	220	0.5	1
10335	Xylene (Total)	1330-20-7	800	5	10
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	19	0.21	20
08357	2-Methylnaphthalene	91-57-6	28	0.21	20
08357	Naphthalene	91-20-3	57	0.62	20
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	12,000	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	780	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	5.2	0.073	1

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: GW-022613-NH-MW8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969727
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N130642AA	03/06/2013 03:59	Brett W Kenyon	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N130642AA	03/06/2013 04:22	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130642AA	03/06/2013 03:59	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N130642AA	03/06/2013 04:22	Brett W Kenyon	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/08/2013 11:55	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 08:17	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 18:43	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 18:43	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 13:27	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:35	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022613-NH-FD1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969728
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSEFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	5	3	1
10335	n-Butylbenzene	104-51-8	14	1	1
10335	sec-Butylbenzene	135-98-8	10	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	100	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	29	1	1
10335	p-Isopropyltoluene	99-87-6	7	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	72	1	1
10335	n-Propylbenzene	103-65-1	60	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022613-NH-FD1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969728
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSEFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	0.6	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,100	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	280	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	580	5	10
10335	o-Xylene	95-47-6	220	0.5	1
10335	Xylene (Total)	1330-20-7	770	5	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0095	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	1
08357	Chrysene	218-01-9	N.D.	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	1-Methylnaphthalene	90-12-0	17	0.19	20
08357	2-Methylnaphthalene	91-57-6	25	0.19	20
08357	Naphthalene	91-20-3	52	0.57	20
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	11,000	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	540	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	5.3	0.073	1

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Analysis Report

Sample Description: GW-022613-NH-FD1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969728
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSEFD

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 12:02	Christopher G Torres	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 12:26	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 12:02	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130671AA	03/08/2013 12:26	Christopher G Torres	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/08/2013 12:26	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 08:48	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 21:34	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 21:34	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 13:50	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:37	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022613-NH-MW2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969729
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.7	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	3	1	1
10335	sec-Butylbenzene	135-98-8	4	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	19	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	39	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022613-NH-MW2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969729
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0098	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0098	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0098	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0098	1
08357	Chrysene	218-01-9	N.D.	0.0098	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0098	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0098	1
08357	1-Methylnaphthalene	90-12-0	0.11	0.0098	1
08357	2-Methylnaphthalene	91-57-6	0.012	0.0098	1
08357	Naphthalene	91-20-3	0.14	0.029	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	770	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	150	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.19	0.073	1

Sample Description: GW-022613-NH-MW2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969729
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE02

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 06:27	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 06:27	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/08/2013 12:57	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 16:09	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 16:09	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 11:09	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:39	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022713-NH-MW6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969730
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 10:20 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022713-NH-MW6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969730
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 10:20 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.68	0.073	1

Sample Description: GW-022713-NH-MW6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969730
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 10:20 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE06

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 06:51	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 06:51	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/08/2013 13:28	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 16:31	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 16:31	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 11:32	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:40	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

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Analysis Report

Sample Description: GW-022713-NH-MW3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969731
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:00 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	4	3	1
10335	n-Butylbenzene	104-51-8	12	1	1
10335	sec-Butylbenzene	135-98-8	10	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	7	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	190	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	51	1	1
10335	p-Isopropyltoluene	99-87-6	5	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	73	1	1
10335	n-Propylbenzene	103-65-1	130	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

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Analysis Report

Sample Description: GW-022713-NH-MW3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969731
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:00 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,200	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	240	1	1
10335	Vinyl Chloride	75-01-4	1	1	1
10335	m+p-Xylene	179601-23-1	550	0.5	1
10335	o-Xylene	95-47-6	69	0.5	1
10335	Xylene (Total)	1330-20-7	620	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.				
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0095	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	1
08357	Chrysene	218-01-9	N.D.	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	1-Methylnaphthalene	90-12-0	10	0.19	20
08357	2-Methylnaphthalene	91-57-6	12	0.19	20
08357	Naphthalene	91-20-3	61	0.57	20
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	9,500	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	510	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.70	0.073	1

Sample Description: GW-022713-NH-MW3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969731
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:00 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE03

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 13:55	Christopher G Torres	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 14:18	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 13:55	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130671AA	03/08/2013 14:18	Christopher G Torres	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/08/2013 13:58	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 09:19	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 19:27	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 19:27	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 14:28	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:42	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022713-NH-MW5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969732
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 13:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	2	1	1
10335	sec-Butylbenzene	135-98-8	2	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	7	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	19	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	25	1	1
10335	n-Propylbenzene	103-65-1	42	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

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Analysis Report

Sample Description: GW-022713-NH-MW5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969732
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 13:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	0.6	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	9	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	1	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	10	0.5	1
10335	o-Xylene	95-47-6	2	0.5	1
10335	Xylene (Total)	1330-20-7	12	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.				
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	2.3	0.010	1
08357	2-Methylnaphthalene	91-57-6	1.3	0.010	1
08357	Naphthalene	91-20-3	14	0.15	5
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	790	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	170	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.76	0.073	1

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Analysis Report

Sample Description: GW-022713-NH-MW5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969732
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 13:30 by NH

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE05

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 07:15	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 07:15	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 05:41	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 09:51	Mark A Clark	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 16:53	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 16:53	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 11:54	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:44	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022713-DE-MW10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969733
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:25 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.8	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	2	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022713-DE-MW10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969733
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:25 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	32	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0098	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0098	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0098	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0098	1
08357	Chrysene	218-01-9	N.D.	0.0098	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0098	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0098	1
08357	1-Methylnaphthalene	90-12-0	0.21	0.0098	1
08357	2-Methylnaphthalene	91-57-6	0.099	0.0098	1
08357	Naphthalene	91-20-3	0.11	0.029	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	71	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	N.D.	0.073	1

Sample Description: GW-022713-DE-MW10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969733
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 12:25 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE10

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 07:39	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 07:39	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 06:13	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 21:12	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 21:12	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 15:14	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130636050004A	03/11/2013 13:46	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130636050004	03/05/2013 11:36	James L Mertz	1

Sample Description: GW-022613-DE-MW4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969734
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022613-DE-MW4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969734
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.				
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0099	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0099	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0099	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0099	1
08357	Chrysene	218-01-9	N.D.	0.0099	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0099	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0099	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.0099	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.0099	1
08357	Naphthalene	91-20-3	0.045	0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.16	0.047	1

Sample Description: GW-022613-DE-MW4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969734
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 08:03	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 08:03	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 06:44	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 17:37	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 17:37	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 12:18	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130666050002A	03/14/2013 07:57	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130666050002	03/09/2013 08:00	James L Mertz	1

Sample Description: GW-022613-DE-MW4 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969735
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	140	6	1
10335	Benzene	71-43-2	25	0.5	1
10335	Bromobenzene	108-86-1	25	1	1
10335	Bromochloromethane	74-97-5	24	1	1
10335	Bromodichloromethane	75-27-4	24	1	1
10335	Bromoform	75-25-2	20	1	1
10335	Bromomethane	74-83-9	14	1	1
10335	2-Butanone	78-93-3	140	3	1
10335	n-Butylbenzene	104-51-8	23	1	1
10335	sec-Butylbenzene	135-98-8	24	1	1
10335	tert-Butylbenzene	98-06-6	25	1	1
10335	Carbon Disulfide	75-15-0	21	1	1
10335	Carbon Tetrachloride	56-23-5	27	1	1
10335	Chlorobenzene	108-90-7	25	0.8	1
10335	Chloroethane	75-00-3	13	1	1
10335	Chloroform	67-66-3	25	0.8	1
10335	Chloromethane	74-87-3	13	1	1
10335	2-Chlorotoluene	95-49-8	24	1	1
10335	4-Chlorotoluene	106-43-4	25	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	18	2	1
10335	Dibromochloromethane	124-48-1	24	1	1
10335	1,2-Dibromoethane	106-93-4	24	0.5	1
10335	Dibromomethane	74-95-3	25	1	1
10335	1,2-Dichlorobenzene	95-50-1	25	1	1
10335	1,3-Dichlorobenzene	541-73-1	24	1	1
10335	1,4-Dichlorobenzene	106-46-7	24	1	1
10335	Dichlorodifluoromethane	75-71-8	17	2	1
10335	1,1-Dichloroethane	75-34-3	25	1	1
10335	1,2-Dichloroethane	107-06-2	28	0.5	1
10335	1,1-Dichloroethene	75-35-4	26	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	27	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	26	0.8	1
10335	1,2-Dichloropropane	78-87-5	23	1	1
10335	1,3-Dichloropropane	142-28-9	23	1	1
10335	2,2-Dichloropropane	594-20-7	24	1	1
10335	1,1-Dichloropropene	563-58-6	27	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	24	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	21	1	1
10335	Ethylbenzene	100-41-4	25	0.5	1
10335	Hexachlorobutadiene	87-68-3	23	2	1
10335	2-Hexanone	591-78-6	90	3	1
10335	Isopropylbenzene	98-82-8	25	1	1
10335	p-Isopropyltoluene	99-87-6	24	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	24	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	95	3	1
10335	Methylene Chloride	75-09-2	25	2	1
10335	Naphthalene	91-20-3	20	1	1
10335	n-Propylbenzene	103-65-1	24	1	1
10335	Styrene	100-42-5	24	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	24	1	1

Sample Description: GW-022613-DE-MW4 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969735
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	20	1	1
10335	Tetrachloroethene	127-18-4	28	0.8	1
10335	Toluene	108-88-3	24	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	23	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	23	1	1
10335	1,1,1-Trichloroethane	71-55-6	27	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	23	0.8	1
10335	Trichloroethene	79-01-6	27	1	1
10335	Trichlorofluoromethane	75-69-4	23	2	1
10335	1,2,3-Trichloropropane	96-18-4	23	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	24	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	24	1	1
10335	Vinyl Chloride	75-01-4	16	1	1
10335	m+p-Xylene	179601-23-1	51	0.5	1
10335	o-Xylene	95-47-6	25	0.5	1
10335	Xylene (Total)	1330-20-7	75	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	920	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 08:27	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 08:27	Christopher G Torres	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 17:59	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 17:59	Catherine J Schwarz	1

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Analysis Report

Sample Description: GW-022613-DE-MW4 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969735
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 10:22	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1

Sample Description: GW-022613-DE-MW4 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969736
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	130	6	1
10335	Benzene	71-43-2	23	0.5	1
10335	Bromobenzene	108-86-1	23	1	1
10335	Bromochloromethane	74-97-5	25	1	1
10335	Bromodichloromethane	75-27-4	22	1	1
10335	Bromoform	75-25-2	18	1	1
10335	Bromomethane	74-83-9	14	1	1
10335	2-Butanone	78-93-3	130	3	1
10335	n-Butylbenzene	104-51-8	21	1	1
10335	sec-Butylbenzene	135-98-8	22	1	1
10335	tert-Butylbenzene	98-06-6	23	1	1
10335	Carbon Disulfide	75-15-0	19	1	1
10335	Carbon Tetrachloride	56-23-5	25	1	1
10335	Chlorobenzene	108-90-7	23	0.8	1
10335	Chloroethane	75-00-3	13	1	1
10335	Chloroform	67-66-3	23	0.8	1
10335	Chloromethane	74-87-3	14	1	1
10335	2-Chlorotoluene	95-49-8	23	1	1
10335	4-Chlorotoluene	106-43-4	23	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	16	2	1
10335	Dibromochloromethane	124-48-1	22	1	1
10335	1,2-Dibromoethane	106-93-4	21	0.5	1
10335	Dibromomethane	74-95-3	23	1	1
10335	1,2-Dichlorobenzene	95-50-1	22	1	1
10335	1,3-Dichlorobenzene	541-73-1	23	1	1
10335	1,4-Dichlorobenzene	106-46-7	23	1	1
10335	Dichlorodifluoromethane	75-71-8	17	2	1
10335	1,1-Dichloroethane	75-34-3	23	1	1
10335	1,2-Dichloroethane	107-06-2	25	0.5	1
10335	1,1-Dichloroethene	75-35-4	25	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	24	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	24	0.8	1
10335	1,2-Dichloropropane	78-87-5	21	1	1
10335	1,3-Dichloropropane	142-28-9	21	1	1
10335	2,2-Dichloropropane	594-20-7	22	1	1
10335	1,1-Dichloropropene	563-58-6	25	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	22	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	20	1	1
10335	Ethylbenzene	100-41-4	23	0.5	1
10335	Hexachlorobutadiene	87-68-3	22	2	1
10335	2-Hexanone	591-78-6	82	3	1
10335	Isopropylbenzene	98-82-8	23	1	1
10335	p-Isopropyltoluene	99-87-6	23	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	22	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	88	3	1
10335	Methylene Chloride	75-09-2	22	2	1
10335	Naphthalene	91-20-3	19	1	1
10335	n-Propylbenzene	103-65-1	23	1	1
10335	Styrene	100-42-5	22	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	22	1	1

Sample Description: GW-022613-DE-MW4 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969736
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	19	1	1
10335	Tetrachloroethene	127-18-4	26	0.8	1
10335	Toluene	108-88-3	23	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	22	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	21	1	1
10335	1,1,1-Trichloroethane	71-55-6	25	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	22	0.8	1
10335	Trichloroethene	79-01-6	25	1	1
10335	Trichlorofluoromethane	75-69-4	23	2	1
10335	1,2,3-Trichloropropane	96-18-4	21	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	22	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	22	1	1
10335	Vinyl Chloride	75-01-4	16	1	1
10335	m+p-Xylene	179601-23-1	47	0.5	1
10335	o-Xylene	95-47-6	22	0.5	1
10335	Xylene (Total)	1330-20-7	69	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.				
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	960	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 08:51	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 08:51	Christopher G Torres	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 18:21	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 18:21	Catherine J Schwarz	1

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Analysis Report

Sample Description: GW-022613-DE-MW4 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969736
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 11:35 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 10:45	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1

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Analysis Report

Sample Description: GW-022713-DE-MW7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969737
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 10:15 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	16	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022713-DE-MW7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969737
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/27/2013 10:15 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE07

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 09:15	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 09:15	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 07:15	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 11:45	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 11:45	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 13:03	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130666050002A	03/14/2013 08:08	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130666050002	03/09/2013 08:00	James L Mertz	1

Sample Description: GW-022613-DE-MW1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969738
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:05 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	25	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-022613-DE-MW1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969738
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:05 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	5	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	6	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	1	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.				
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0097	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0097	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0097	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0097	1
08357	Chrysene	218-01-9	N.D.	0.0097	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0097	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0097	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.0097	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.0097	1
08357	Naphthalene	91-20-3	N.D.	0.029	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	71	1
Metals	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.42	0.047	1

Sample Description: GW-022613-DE-MW1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969738
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013 14:05 by DE

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSE01

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 10:03	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 10:03	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13061WAD026	03/09/2013 07:46	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13061WAD026	03/03/2013 07:15	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 12:07	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 12:07	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	130630019A	03/07/2013 12:41	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	130630019A	03/05/2013 12:30	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	130666050002A	03/14/2013 08:15	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	130666050002	03/09/2013 08:00	James L Mertz	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: TRIP BLANK Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969739
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSETB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: TRIP BLANK Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6969739
LLI Group # 1372475
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2013

Submitted: 03/01/2013 09:15
Reported: 03/14/2013 10:55

Conestoga-Rovers & Associates
Suite 190
20818 44th Ave W
Lynnwood WA 98036

TSETB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: chloromethane.

GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W130671AA	03/08/2013 05:16	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130671AA	03/08/2013 05:16	Christopher G Torres	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13063D20A	03/05/2013 11:23	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13063D20A	03/05/2013 11:23	Catherine J Schwarz	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/14/13 at 10:55 AM

Group Number: 1372475

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: N130642AA	Sample number(s): 6969727							
Acetone	N.D.	6.	ug/l	105		49-234		
Benzene	N.D.	0.5	ug/l	101		77-121		
Bromobenzene	N.D.	1.	ug/l	102		80-120		
Bromochloromethane	N.D.	1.	ug/l	101		80-121		
Bromodichloromethane	N.D.	1.	ug/l	100		73-120		
Bromoform	N.D.	1.	ug/l	98		61-120		
Bromomethane	N.D.	1.	ug/l	83		51-120		
2-Butanone	N.D.	3.	ug/l	102		57-141		
n-Butylbenzene	N.D.	1.	ug/l	100		73-130		
sec-Butylbenzene	N.D.	1.	ug/l	103		74-124		
tert-Butylbenzene	N.D.	1.	ug/l	101		80-120		
Carbon Disulfide	N.D.	1.	ug/l	94		68-121		
Carbon Tetrachloride	N.D.	1.	ug/l	105		65-137		
Chlorobenzene	N.D.	0.8	ug/l	104		80-120		
Chloroethane	N.D.	1.	ug/l	83		60-120		
Chloroform	N.D.	0.8	ug/l	105		77-122		
Chloromethane	N.D.	1.	ug/l	79		54-123		
2-Chlorotoluene	N.D.	1.	ug/l	101		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	103		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	96		56-120		
Dibromochloromethane	N.D.	1.	ug/l	102		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		76-120		
Dibromomethane	N.D.	1.	ug/l	105		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	105		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	102		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	84		35-122		
1,1-Dichloroethane	N.D.	1.	ug/l	104		79-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	110		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	105		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	102		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	102		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	104		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	104		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	103		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	107		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	101		66-124		
Ethylbenzene	N.D.	0.5	ug/l	104		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	86		58-120		
2-Hexanone	N.D.	3.	ug/l	99		59-125		
Isopropylbenzene	N.D.	1.	ug/l	105		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	103		77-121		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates

Group Number: 1372475

Reported: 03/14/13 at 10:55 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	102		68-121		
4-Methyl-2-pentanone	N.D.	3.	ug/l	100		65-122		
Methylene Chloride	N.D.	2.	ug/l	106		84-118		
Naphthalene	N.D.	1.	ug/l	96		47-126		
n-Propylbenzene	N.D.	1.	ug/l	103		77-130		
Styrene	N.D.	1.	ug/l	107		77-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	102		79-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	100		70-129		
Tetrachloroethene	N.D.	0.8	ug/l	106		79-120		
Toluene	N.D.	0.5	ug/l	102		79-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	96		67-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	96		65-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	114		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	104		80-120		
Trichloroethene	N.D.	1.	ug/l	103		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	95		65-130		
1,2,3-Trichloropropane	N.D.	1.	ug/l	100		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	104		69-122		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	104		68-124		
Vinyl Chloride	N.D.	1.	ug/l	88		63-120		
m+p-Xylene	N.D.	0.5	ug/l	103		77-120		
o-Xylene	N.D.	0.5	ug/l	104		77-120		
Xylene (Total)	N.D.	0.5	ug/l	104		77-120		
Batch number: W130671AA	Sample number(s): 6969728-6969739							
Acetone	N.D.	6.	ug/l	81		49-234		
Benzene	N.D.	0.5	ug/l	101		77-121		
Bromobenzene	N.D.	1.	ug/l	105		80-120		
Bromochloromethane	N.D.	1.	ug/l	114		80-121		
Bromodichloromethane	N.D.	1.	ug/l	100		73-120		
Bromoform	N.D.	1.	ug/l	84		61-120		
Bromomethane	N.D.	1.	ug/l	63		51-120		
2-Butanone	N.D.	3.	ug/l	83		57-141		
n-Butylbenzene	N.D.	1.	ug/l	92		73-130		
sec-Butylbenzene	N.D.	1.	ug/l	96		74-124		
tert-Butylbenzene	N.D.	1.	ug/l	101		80-120		
Carbon Disulfide	N.D.	1.	ug/l	81		68-121		
Carbon Tetrachloride	N.D.	1.	ug/l	104		65-137		
Chlorobenzene	N.D.	0.8	ug/l	104		80-120		
Chloroethane	N.D.	1.	ug/l	55*		60-120		
Chloroform	N.D.	0.8	ug/l	102		77-122		
Chloromethane	N.D.	1.	ug/l	59		54-123		
2-Chlorotoluene	N.D.	1.	ug/l	102		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	102		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	77		56-120		
Dibromochloromethane	N.D.	1.	ug/l	100		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		76-120		
Dibromomethane	N.D.	1.	ug/l	103		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	104		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	103		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	55		35-122		
1,1-Dichloroethane	N.D.	1.	ug/l	101		79-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	114		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	101		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	106		80-120		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates

Group Number: 1372475

Reported: 03/14/13 at 10:55 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	103		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	96		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	99		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	94		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	101		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	102		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90		66-124		
Ethylbenzene	N.D.	0.5	ug/l	101		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	91		58-120		
2-Hexanone	N.D.	3.	ug/l	77		59-125		
Isopropylbenzene	N.D.	1.	ug/l	102		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	100		77-121		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		68-121		
4-Methyl-2-pentanone	N.D.	3.	ug/l	82		65-122		
Methylene Chloride	N.D.	2.	ug/l	99		84-118		
Naphthalene	N.D.	1.	ug/l	87		47-126		
n-Propylbenzene	N.D.	1.	ug/l	98		77-130		
Styrene	N.D.	1.	ug/l	98		77-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	103		79-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	89		70-129		
Tetrachloroethene	N.D.	0.8	ug/l	110		79-120		
Toluene	N.D.	0.5	ug/l	100		79-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		67-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	97		65-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	106		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	100		80-120		
Trichloroethene	N.D.	1.	ug/l	108		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	84		65-130		
1,2,3-Trichloropropane	N.D.	1.	ug/l	98		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	99		69-122		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	99		68-124		
Vinyl Chloride	N.D.	1.	ug/l	64		63-120		
m+p-Xylene	N.D.	0.5	ug/l	103		77-120		
o-Xylene	N.D.	0.5	ug/l	101		77-120		
Xylene (Total)	N.D.	0.5	ug/l	102		77-120		
Batch number: 13061WAD026	Sample number(s): 6969727-6969734,6969737-6969738							
Benzo(a)anthracene	N.D.	0.010	ug/l	92	94	75-115	2	30
Benzo(a)pyrene	N.D.	0.010	ug/l	89	90	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	95	97	74-130	3	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	89	91	74-118	2	30
Chrysene	N.D.	0.010	ug/l	87	88	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	95	96	66-122	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	94	96	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	ug/l	92	91	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	ug/l	98	97	74-119	1	30
Naphthalene	N.D.	0.030	ug/l	88	87	67-118	1	30
Batch number: 13063D20A	Sample number(s): 6969727-6969739							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	99		75-135		
Batch number: 130630019A	Sample number(s): 6969727-6969738							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	80		50-120		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 130636050004A	Sample number(s): 6969727-6969733							

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1372475
Reported: 03/14/13 at 10:55 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	N.D.	0.073	ug/l	100		90-115		
Batch number: 130666050002A	Sample number(s): 6969734,6969737-6969738							
Lead	N.D.	0.047	ug/l	103		90-115		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: N130642AA	Sample number(s): 6969727 UNSPK: P967869								
Acetone	104	105	33-159	1	30				
Benzene	106	108	72-134	2	30				
Bromobenzene	104	106	82-115	2	30				
Bromochloromethane	103	105	76-134	2	30				
Bromodichloromethane	101	104	78-125	3	30				
Bromoform	96	99	48-118	3	30				
Bromomethane	85	87	47-129	3	30				
2-Butanone	101	104	57-138	3	30				
n-Butylbenzene	104	106	59-156	1	30				
sec-Butylbenzene	109	111	79-125	2	30				
tert-Butylbenzene	105	108	81-121	3	30				
Carbon Disulfide	101	103	67-135	2	30				
Carbon Tetrachloride	113	116	72-135	2	30				
Chlorobenzene	108	110	87-124	2	30				
Chloroethane	87	88	51-145	1	30				
Chloroform	110	112	81-134	2	30				
Chloromethane	82	85	46-137	3	30				
2-Chlorotoluene	105	107	82-118	2	30				
4-Chlorotoluene	105	107	84-122	2	30				
1,2-Dibromo-3-chloropropane	93	95	54-134	2	30				
Dibromochloromethane	103	106	74-116	3	30				
1,2-Dibromoethane	102	104	77-116	2	30				
Dibromomethane	104	105	83-119	1	30				
1,2-Dichlorobenzene	105	105	84-119	0	30				
1,3-Dichlorobenzene	107	107	86-121	0	30				
1,4-Dichlorobenzene	103	106	85-121	3	30				
Dichlorodifluoromethane	87	91	52-129	4	30				
1,1-Dichloroethane	110	112	84-129	1	30				
1,2-Dichloroethane	113	113	68-131	0	30				
1,1-Dichloroethene	115	115	75-155	0	30				
cis-1,2-Dichloroethene	105	108	80-141	2	30				
trans-1,2-Dichloroethene	110	110	81-142	0	30				
1,2-Dichloropropane	107	110	83-124	4	30				
1,3-Dichloropropane	104	106	81-120	2	30				
2,2-Dichloropropane	110	112	69-135	2	30				
1,1-Dichloropropene	111	113	86-137	2	30				
cis-1,3-Dichloropropene	108	110	70-116	2	30				
trans-1,3-Dichloropropene	100	103	74-119	3	30				
Ethylbenzene	109	111	71-134	2	30				
Hexachlorobutadiene	92	95	56-134	4	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1372475
Reported: 03/14/13 at 10:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Hexanone	97	99	55-127	3	30				
Isopropylbenzene	110	112	75-128	2	30				
p-Isopropyltoluene	107	108	76-123	2	30				
Methyl Tertiary Butyl Ether	102	106	72-126	3	30				
4-Methyl-2-pentanone	100	103	63-123	3	30				
Methylene Chloride	108	110	78-133	1	30				
Naphthalene	94	98	52-125	4	30				
n-Propylbenzene	107	109	74-134	2	30				
Styrene	109	112	78-125	3	30				
1,1,1,2-Tetrachloroethane	105	107	74-136	2	30				
1,1,2,2-Tetrachloroethane	102	103	72-128	1	30				
Tetrachloroethene	111	114	80-128	3	30				
Toluene	108	110	80-125	2	30				
1,2,3-Trichlorobenzene	94	97	69-119	3	30				
1,2,4-Trichlorobenzene	97	99	70-124	2	30				
1,1,1-Trichloroethane	122	124	69-140	2	30				
1,1,2-Trichloroethane	104	108	71-141	3	30				
Trichloroethene	109	110	88-133	1	30				
Trichlorofluoromethane	105	108	64-146	3	30				
1,2,3-Trichloropropane	101	101	76-118	0	30				
1,2,4-Trimethylbenzene	106	108	72-130	2	30				
1,3,5-Trimethylbenzene	108	109	65-132	1	30				
Vinyl Chloride	94	97	66-133	4	30				
m+p-Xylene	108	110	79-125	2	30				
o-Xylene	107	110	79-125	2	30				
Xylene (Total)	108	110	79-125	2	30				

Batch number: W130671AA Sample number(s): 6969728-6969739 UNSPK: 6969734

Acetone	95	84	33-159	12	30
Benzene	126	115	72-134	8	30
Bromobenzene	126*	115	82-115	9	30
Bromochloromethane	120	124	76-134	3	30
Bromodichloromethane	122	111	78-125	9	30
Bromoform	99	92	48-118	7	30
Bromomethane	70	71	47-129	1	30
2-Butanone	96	89	57-138	7	30
n-Butylbenzene	115	106	59-156	8	30
sec-Butylbenzene	119	111	79-125	7	30
tert-Butylbenzene	123*	113	81-121	8	30
Carbon Disulfide	107	97	67-135	10	30
Carbon Tetrachloride	135	125	72-135	8	30
Chlorobenzene	127*	116	87-124	9	30
Chloroethane	66	65	51-145	2	30
Chloroform	126	115	81-134	9	30
Chloromethane	65	70	46-137	7	30
2-Chlorotoluene	122*	114	82-118	7	30
4-Chlorotoluene	125*	117	84-122	6	30
1,2-Dibromo-3-chloropropane	88	82	54-134	8	30
Dibromochloromethane	119*	108	74-116	10	30
1,2-Dibromoethane	119*	107	77-116	10	30
Dibromomethane	124*	115	83-119	8	30
1,2-Dichlorobenzene	123*	112	84-119	9	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/14/13 at 10:55 AM

Group Number: 1372475

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	122*	114	86-121	7	30				
1,4-Dichlorobenzene	122*	113	85-121	8	30				
Dichlorodifluoromethane	87	85	52-129	3	30				
1,1-Dichloroethane	126	113	84-129	11	30				
1,2-Dichloroethane	138*	126	68-131	9	30				
1,1-Dichloroethene	131	123	75-155	6	30				
cis-1,2-Dichloroethene	134	122	80-141	10	30				
trans-1,2-Dichloroethene	130	120	81-142	8	30				
1,2-Dichloropropane	114	106	83-124	7	30				
1,3-Dichloropropane	116	107	81-120	8	30				
2,2-Dichloropropane	122	110	69-135	10	30				
1,1-Dichloropropene	133	123	86-137	8	30				
cis-1,3-Dichloropropene	120*	111	70-116	8	30				
trans-1,3-Dichloropropene	106	98	74-119	8	30				
Ethylbenzene	124	114	71-134	8	30				
Hexachlorobutadiene	115	108	56-134	7	30				
2-Hexanone	90	82	55-127	10	30				
Isopropylbenzene	127	116	75-128	9	30				
p-Isopropyltoluene	121	113	76-123	7	30				
Methyl Tertiary Butyl Ether	118	108	72-126	9	30				
4-Methyl-2-pentanone	95	88	63-123	8	30				
Methylene Chloride	123	110	78-133	11	30				
Naphthalene	101	95	52-125	7	30				
n-Propylbenzene	121	113	74-134	7	30				
Styrene	121	110	78-125	10	30				
1,1,1,2-Tetrachloroethane	121	112	74-136	8	30				
1,1,2,2-Tetrachloroethane	102	95	72-128	7	30				
Tetrachloroethene	138*	128	80-128	7	30				
Toluene	122	113	80-125	7	30				
1,2,3-Trichlorobenzene	116	108	69-119	7	30				
1,2,4-Trichlorobenzene	117	107	70-124	9	30				
1,1,1-Trichloroethane	134	123	69-140	9	30				
1,1,2-Trichloroethane	115	108	71-141	6	30				
Trichloroethene	135*	124	88-133	9	30				
Trichlorofluoromethane	116	114	64-146	2	30				
1,2,3-Trichloropropane	113	105	76-118	8	30				
1,2,4-Trimethylbenzene	119	111	72-130	7	30				
1,3,5-Trimethylbenzene	122	112	65-132	9	30				
Vinyl Chloride	81	80	66-133	1	30				
m+p-Xylene	127*	116	79-125	9	30				
o-Xylene	123	112	79-125	10	30				
Xylene (Total)	126*	115	79-125	9	30				
Batch number: 13063D20A	Sample number(s): 6969727-6969739 UNSPK: 6969734								
NWTPH-Gx water C7-C12	84	87	75-135	4	30				
Batch number: 130630019A	Sample number(s): 6969727-6969738 UNSPK: 6969734								
DRO C12-C24 w/Si Gel	84	82	60-120	0	20				
Batch number: 130636050004A	Sample number(s): 6969727-6969733 UNSPK: P969574 BKG: P969574								
Lead	102	98	83-120	4	20	N.D.	N.D.	0 (1)	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates

Group Number: 1372475

Reported: 03/14/13 at 10:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 130666050002A	Sample number(s): 6969734,6969737-6969738 UNSPK: 6969734 BKG: 6969734								
Lead	104	101	83-120	3	20	0.16	0.15	10 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: N130642AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6969727	99	99	99	100
Blank	100	100	99	99
LCS	101	100	101	102
MS	101	100	100	101
MSD	102	100	100	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: W130671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6969728	106	105	97	96
6969729	104	100	97	97
6969730	106	105	95	92
6969731	106	104	97	95
6969732	105	106	96	96
6969733	105	102	95	93
6969734	104	104	96	92
6969735	107	103	97	96
6969736	106	101	97	96
6969737	106	103	95	93
6969738	105	103	96	92
6969739	105	101	96	93
Blank	106	105	95	92
LCS	104	102	97	97
MS	107	103	97	96
MSD	106	101	97	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 13061WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1372475
Reported: 03/14/13 at 10:55 AM

Surrogate Quality Control

6969727	103	109	111
6969728	102	111	112
6969729	99	102	101
6969730	105	112	104
6969731	106	108	109
6969732	104	109	102
6969733	106	107	106
6969734	104	107	104
6969737	107	105	105
6969738	105	109	100
Blank	100	106	101
LCS	102	107	101
LCSD	103	110	103
Limits:	64-120	62-141	58-134

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 13063D20A

	Trifluorotoluene-F
6969727	93
6969728	92
6969729	97
6969730	86
6969731	98
6969732	101
6969733	85
6969734	84
6969735	103
6969736	103
6969737	86
6969738	87
6969739	84
Blank	83
LCS	105
MS	103
MSD	103
Limits:	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 130630019A

	Orthoterphenyl
6969727	98
6969728	97
6969729	92
6969730	93
6969731	77
6969732	92
6969733	97
6969734	89
6969735	93
6969736	90
6969737	90
6969738	90

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1372475
Reported: 03/14/13 at 10:55 AM

Surrogate Quality Control

Blank	91
LCS	97
MS	93
MSD	90
Limits:	50-150

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13534 Cip#1572475 Sample# 6464781-94

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES (CRA)

COC NO.: **37478**
PAGE 1 OF 1
(See Reverse Side for Instructions)

Address: 1117 TACOMA AVE SOUTH, TACOMA, WA.
Phone: 253.573.1218 Fax: 253.573.1663

Project No/ Phase/Task Code: 061992	Laboratory Name: LANCASTER	Lab Location: LANCASTER, PA.	SSOW ID:
Project Name: TIDEWATER - SEATTLE	Lab Contact:	Lab Quote No:	Cooler No:
Project Location: MLK WAY S. SEATTLE, WA.			Carrier:
Chemistry Contact: M. DAVIS / J. CLOUD			Airbill No:
Sampler(s): D. ESCOBEDO / N. HINSPERGER			Date Shipped:

#	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	DRO	GRO	VOC's	SVOC's	TOTAL Pb	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-022613-NH-MW8	02/26/13	11:30	WG	G									10	X	X	X	X	X		SVOCs = cPAHs and
2	GW-022613-NH-FD1	02/26/13		WG	G									10	X	X	X	X	X		naphthalenes. No
3	GW-022613-NH-MW2	02/26/13	14:30	WG	G									11	X	X	X	X	X		PAHs or Pb on MS/MSD
4	GW-022713-NH-MW6	02/27/13	10:20	WG	G									11	X	X	X	X	X		per M. Davis.
5	GW-022713-NH-MW3	02/27/13	12:00	WG	G									11	X	X	X	X	X		JMP 3/1/13
6	GW-022713-NH-MW5	02/27/13	13:30	WG	G									11	X	X	X	X	X		
7	GW-022713-DE-MW10	02/27/13	12:25	WG	G									11	X	X	X	X	X		
8	GW-022613-DE-MW4	02/26/13	11:35	WG	G									12	X	X	X	X	X	X	MS/MSD
9	GW-022713-DE-MW7	02/27/13	10:15	WG	G									11	X	X	X	X	X		
10	GW-022613-DE-MW1	02/26/13	14:05	WG	G									11	X	X	X	X	X		
11	TRIP BLANKS															X	X				
12																					
13																					
14																					
15																					

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other STANDARD

Total Number of Containers: 121
All Samples in Cooler must be on COC

Notes/ Special Requirements:

	RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1.	[signature]	CRA	02/26/13	1600	1.		3/1/13	
2.					2.			
3.					3. [signature]	LLI	3/1/13	915

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10B (20110804)

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

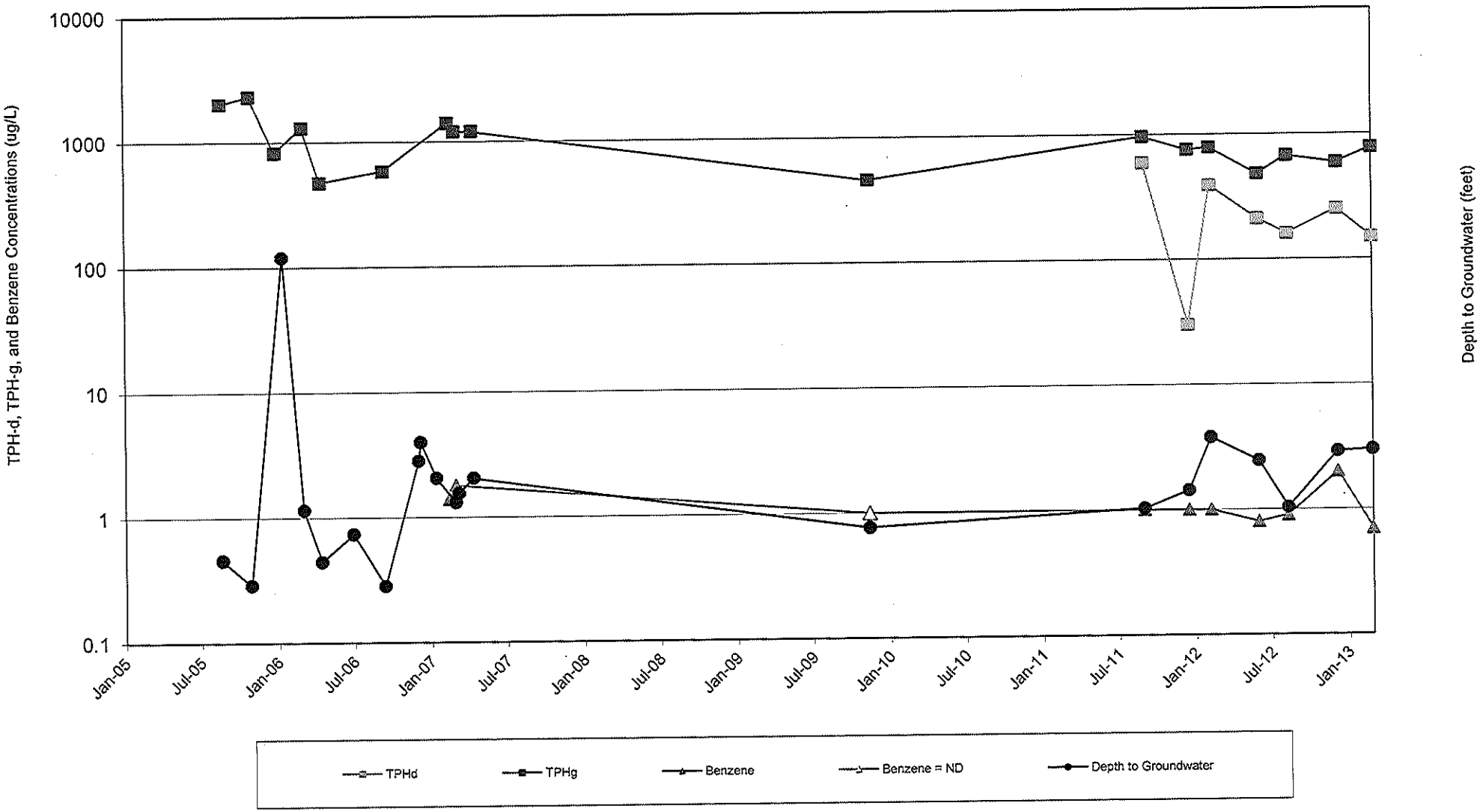
Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

ATTACHMENT C

CONCENTRATION TREND GRAPHS

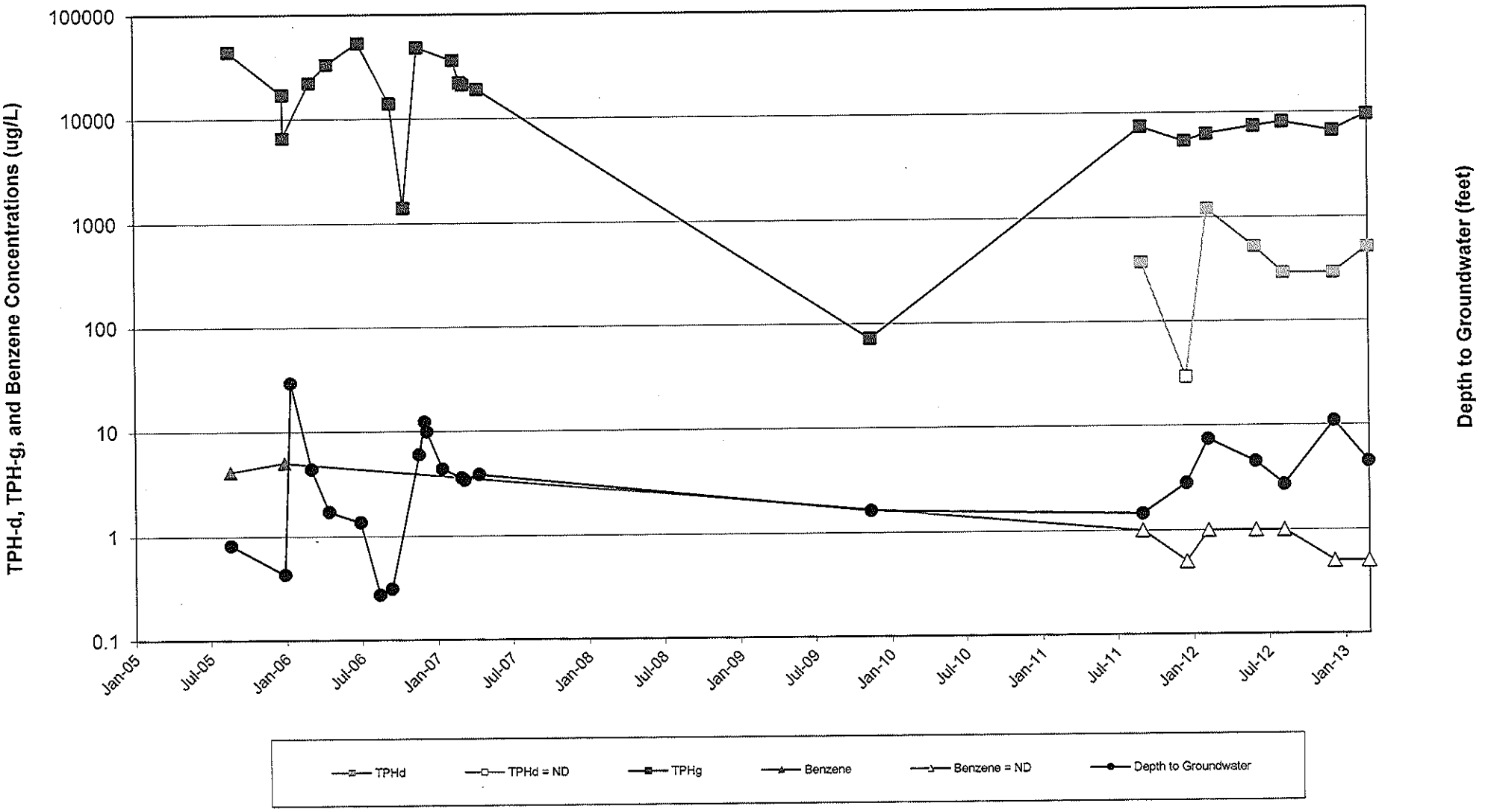
GRAPH 1

CHEMICAL CONCENTRATION VERSUS TIME
MW-2
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



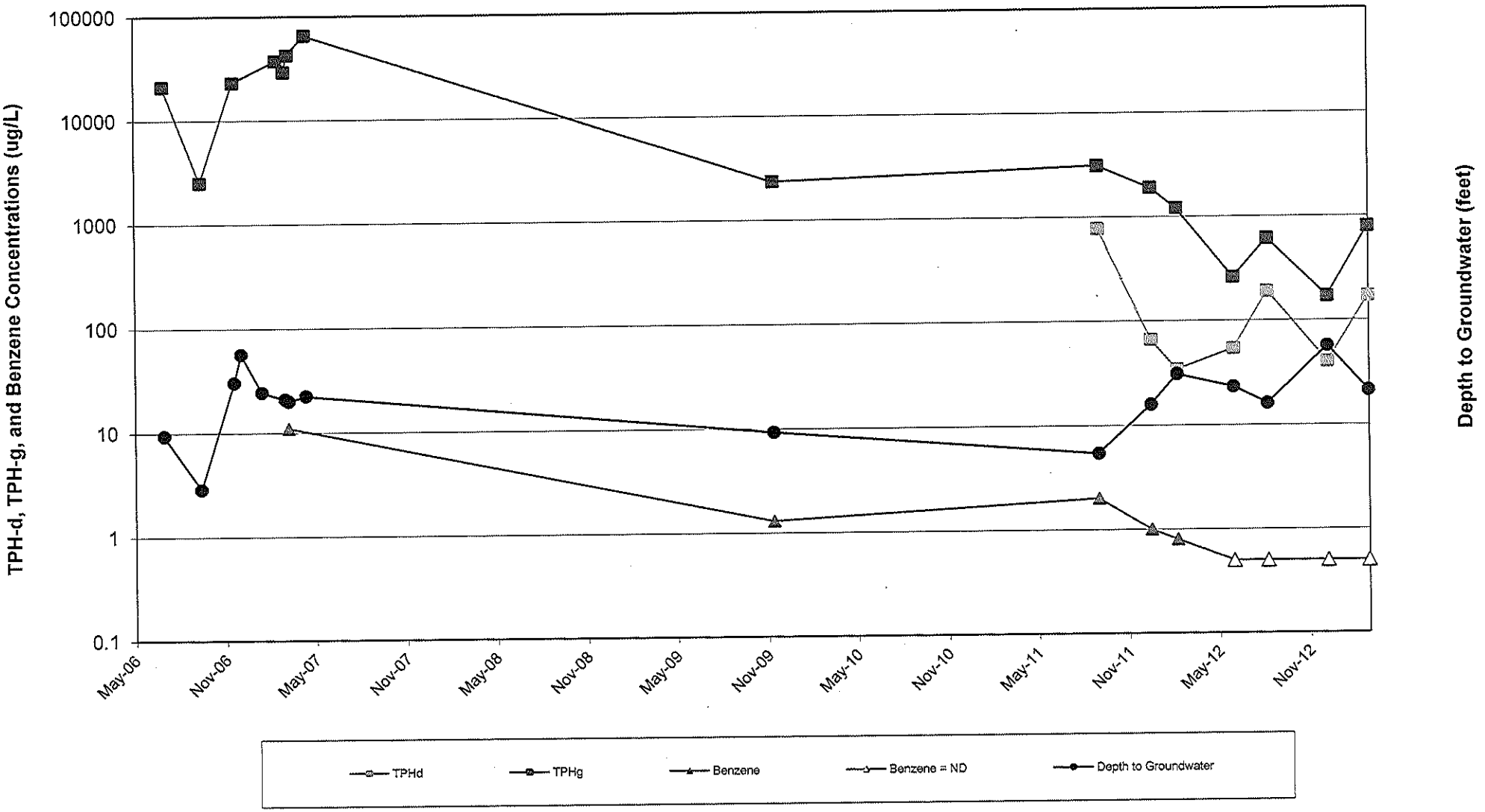
GRAPH 2

CHEMICAL CONCENTRATION VERSUS TIME
MW-3
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



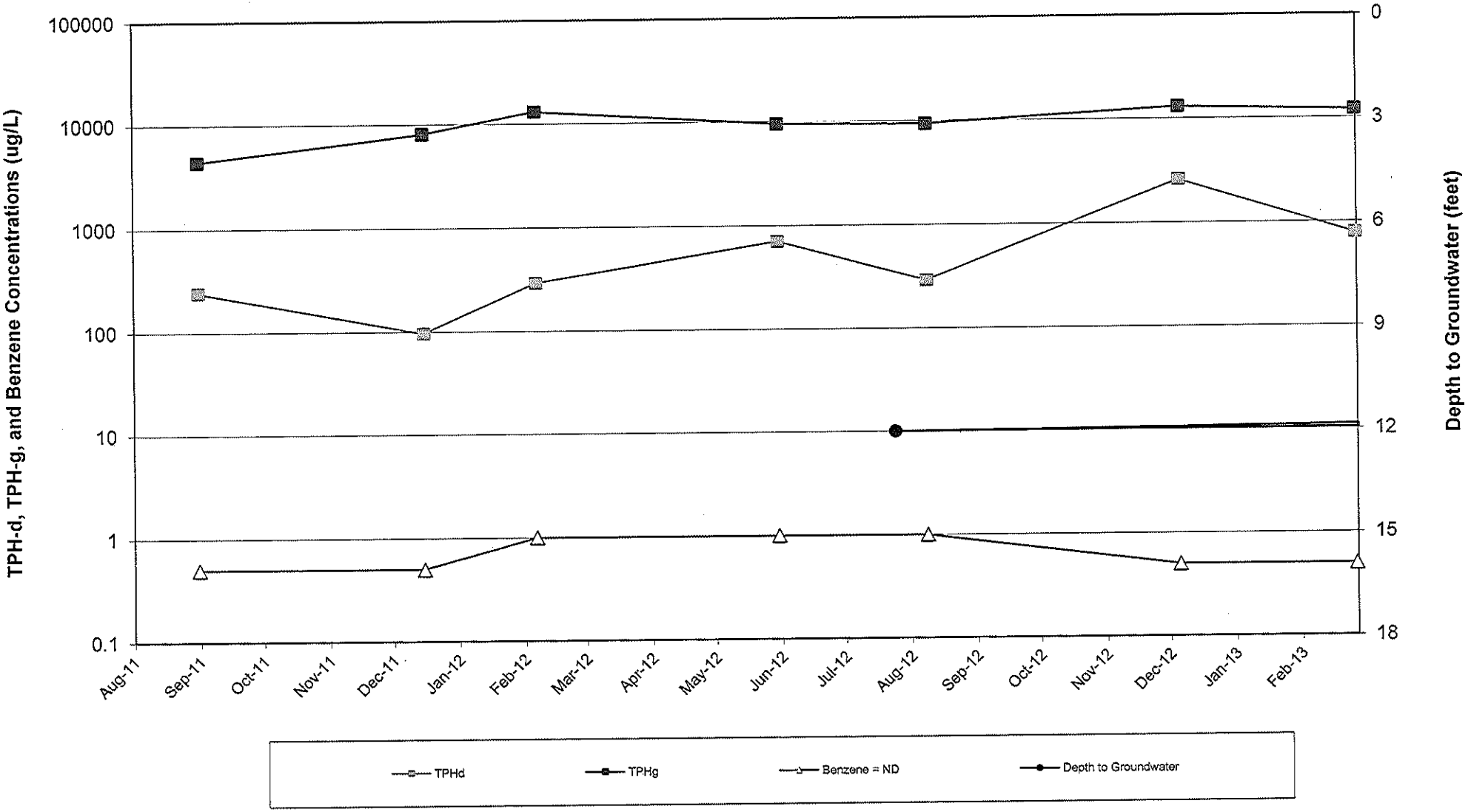
GRAPH 3

CHEMICAL CONCENTRATION VERSUS TIME
MW-5
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



GRAPH 4

CHEMICAL CONCENTRATION VERSUS TIME
MW-8
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



ATTACHMENT D

SUMMARY OF PREVIOUS INVESTIGATIONS

SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIATION

Former Tidewater Site
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington

1989

Soil and groundwater investigations at the Site began with the UST removals in 1989. All soil samples collected from the UST excavation, in the northwest corner of the Property, were documented below the Model Toxics Control Act (MTCA) Method A Cleanup Levels for constituents of concern (COC). (Stantec, 2012).

February 2005

Additional soil and groundwater investigations were conducted by G-Logics in February 2005. A groundwater sample collected from boring GL-4, contained total petroleum hydrocarbons (TPH) in the gasoline range (TPHg) at 5,900 micrograms per liter (µg/L). The sample area was located between the former western and eastern pump islands. G-Logics also conducted an investigation beneath the former heating oil UST. Impacted soil was found in this location but it did not exceed MTCA Method A cleanup levels. (Stantec, 2012).

June 2005

Further soil and groundwater investigation of the western and eastern pump island area was conducted by G-Logics in June 2005 (soil borings P1 through P11). Laboratory results confirmed that the highest concentrations of petroleum-impacted soil, mostly in the gasoline range, were from soil borings P7, P8, and P9 in the vicinity of the western pump island, which all exceeded MTCA Method A cleanup levels. The impact was primarily observed between 15 and 20 feet below ground surface (bgs). (Stantec, 2012).

August 2005

In August 2005, G-Logics began the installation and operation of an ozone treatment system. Five ozone injection points (IP-1 through IP-5) and monitoring wells MW-1, MW-2, and MW-3 were installed. The ozone system began operation on August 26, 2005. (Stantec, 2012).

June 2006

Elevated concentrations of TPHg were regularly detected at MW-3, located west of the western pump island. As a result, G-Logics continued soil investigations in the vicinity

of MW-3 in June 2006 due to elevated concentrations of TPHg detected in the groundwater well during quarterly sampling activities. Petroleum related compounds were either non-detect or were below the MTCA Method A cleanup levels in the borings, supporting that the source area was concentrated in the area of the west pump island. (Stantec, 2012).

August 2006

In August 2006, a second compressor was added to augment the ozone injection system. The second compressor was dedicated to providing a primary source of air flow to the wells; the original compressor was dedicated to providing air flow to the ozone generator. (Stantec, 2012).

December 2006 through June 2007

To supplement the ozone treatment system, in December 2006, G-Logics oversaw the installation of a horizontal pipe for In-Situ Chemical Oxidation (ISCO) in an area up-gradient of the western pump island. The pipe was installed at approximately 6 to 7 feet; installation at a greater depth was unfeasible due to soil caving. Between January and March 2007, ISCO using Fenton's Reagent was performed to supplement ozone injection remediation efforts. On January 4, 2007, a buffered, iron-catalyst was introduced with the Fenton's application. In March 2007, a Fenton's application treatment well (TW-1) was installed directly west of the west pump island source area. The ozone system was shut down in June 2007. (Stantec, 2012).

April through July 2011

In April and July 2011, Stantec Consulting oversaw Cascade Drilling, L.P. advance seven soil borings (B-1 through B-7) and install five 2-inch diameter groundwater monitoring wells (MW-6 through MW-10). Analytical results from the smear zone and water bearing zone from soil collected between 10 and 17 feet bgs contained relatively low to non-detectable concentrations for TPHg, TPH in the diesel range (TPHd), TPH in the heavy oil range (TPHo) and benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) except for the samples collected from the former heating oil UST area (B-3 and MW-9) at 10 and 15 feet bgs. Soil samples screened in the vadose zone, in general, contained low to non-detectable concentrations of TPHg, TPHd, TPHo, and BTEX. Groundwater samples collected in borings B-1 through B-7 showed slightly elevated concentrations of TPHg and total xylenes near the former pump island (borings B-2 and B-6). Down-gradient of the Site, in borings B-4 and B-5, concentrations of TPHg and BTEX were below the laboratory method detection limit (MDL). (Stantec, 2012).

References

Stantec Consulting Corporation (Stantec, 2012), First Quarter 2012 Monitoring and Sampling Report, April 27, 2012.