CONESTOGA-ROVERS & ASSOCIATES

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February 13, 2015 Reference No. 061992

Ms. Maureen Sanchez
Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008

Re: Third Quarter 2014 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; VCP No. NW2612

Dear Ms. Sanchez,

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2014 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 Blaine Tech Services, Inc. (BTS). BTS's field forms are presented as Attachment A. Eurofins Lancaster Laboratory Environmental, LLCs' *Analytical Results* report is included as Attachment B. A summary of previous site investigations is included as Attachment C. A site map is presented on Figure 2.

RESULTS OF THIRD QUARTER 2014 EVENT

On August 28 and 29, 2014, BTS 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 — 0.009-0.04
- Approximate Depth to Water — 10 to 15 feet below grade
- Approximate Groundwater Elevation — 46 to 50.5 feet above mean sea level

Current and historical groundwater monitoring and sampling data are presented in Table 1 and current concentration data are 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	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-1 (DUP)	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-2	440	270	<66	<0.5	<0.5	<0.5	<0.5
MW-3	**2,800**	170	<66	<0.5	<0.5	34	34
MW-4	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-5	**3,900**	360	<66	<0.5	0.9 J	34	65
MW-6	<50	59 J	120 J	<0.5	<0.5	<0.5	<0.5
MW-7	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-8	**11,000**	500	<67	<0.5	0.8 J	170	590
MW-9	<50	44 J	<67	<0.5	<0.5	<0.5	<0.5
MW-10	<50	90 J	<67	<0.5	<0.5	<0.5	<0.5
MW-11	580	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-13	<50	41 J	<66	<0.5	<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.
µg/L micrograms per liter
TPHg total petroleum hydrocarbons as gasoline
TPHd total petroleum hydrocarbons as diesel
TPHo total petroleum hydrocarbons as oil
J Estimated value

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, MW-5, and MW-8, with the highest concentration detected at MW-8 (Figure 5).
- TPHd concentrations did not exceed the MTCA Method A cleanup level in groundwater (Figure 6).
- TPHo concentrations were below MTCA Method A cleanup levels in all wells.

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were below MTCA Method A cleanup levels in all wells.

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

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
BTS will monitor and sample site wells per the established schedule. The fourth quarter 2014 event was performed in December 2014. 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 submitted a RI/FS Work Plan to the Department of Ecology in November 2013, and began implementation of the work plan in June 2014. The proposed monitoring wells and soil borings outside the former station building have been installed, and the remaining work, including two borings inside the building and an aquifer potability pumping test are expected to be completed in the first quarter 2015.

CONESTOGA-ROVERS & ASSOCIATES

February 3, 2015 Reference No. 061992

Please contact Matthew Davis (253) 573-1218 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Matthew Davis

MD/aa/11
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	Summary of Previous Investigations

cc: Ms. Jillian Holloway, Chevron *(electronic copy)*
Mr. Ed Ralston, Phillips 66 (*electronic copy*)
Thom Morin, Environmental Partners, Inc. (*electronic copy*)

FIGURES

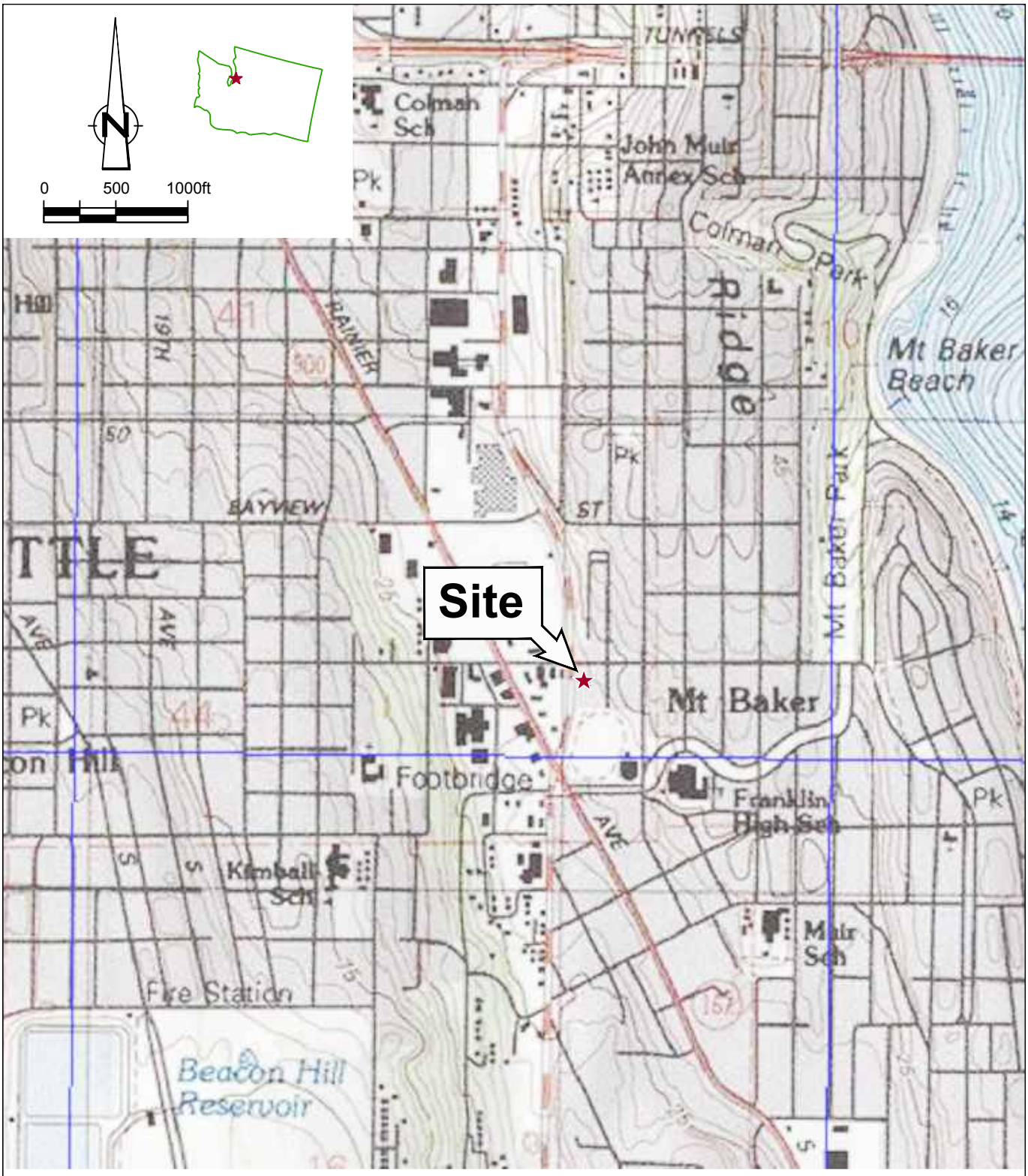

Figure 1

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

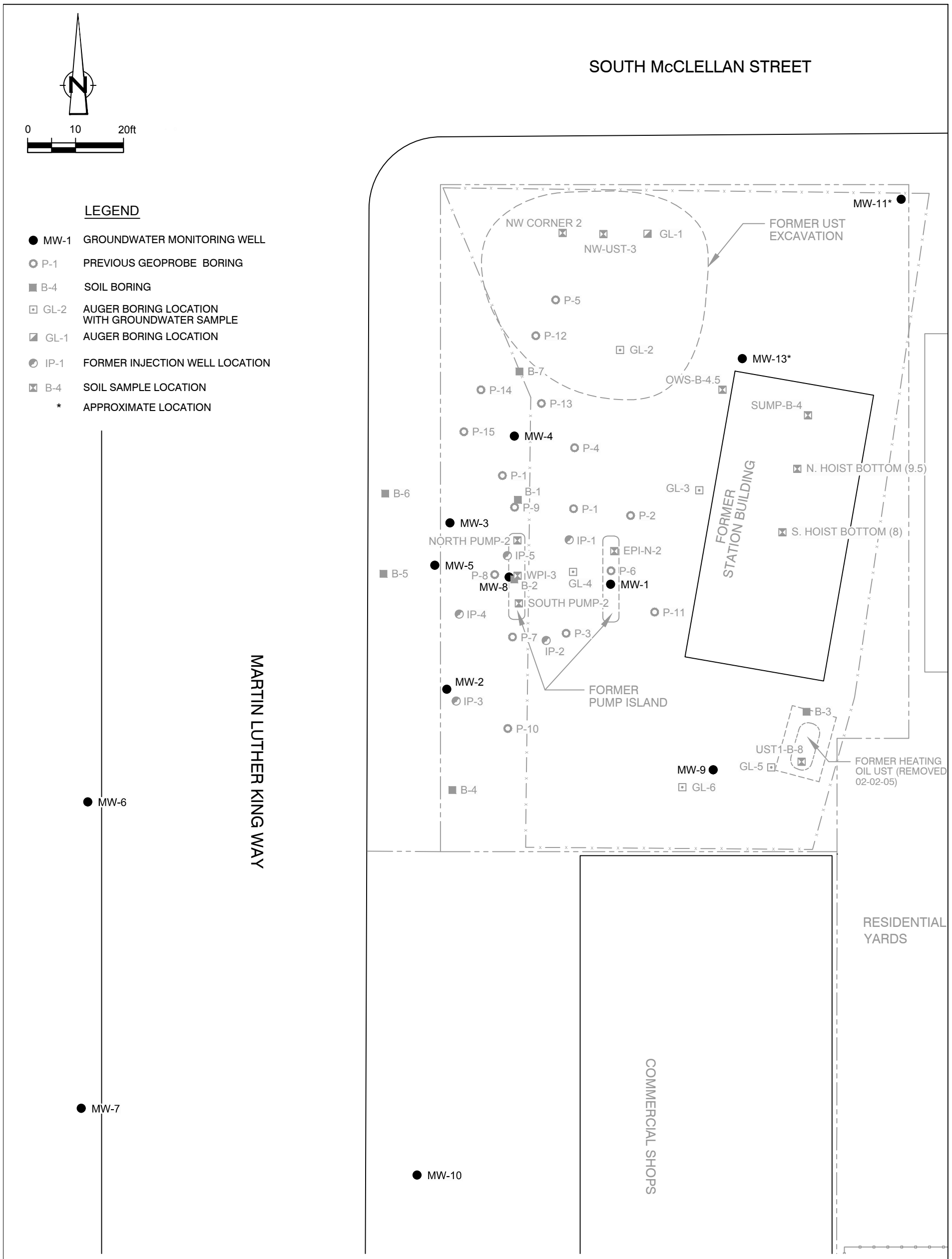

Figure 2

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

CRA

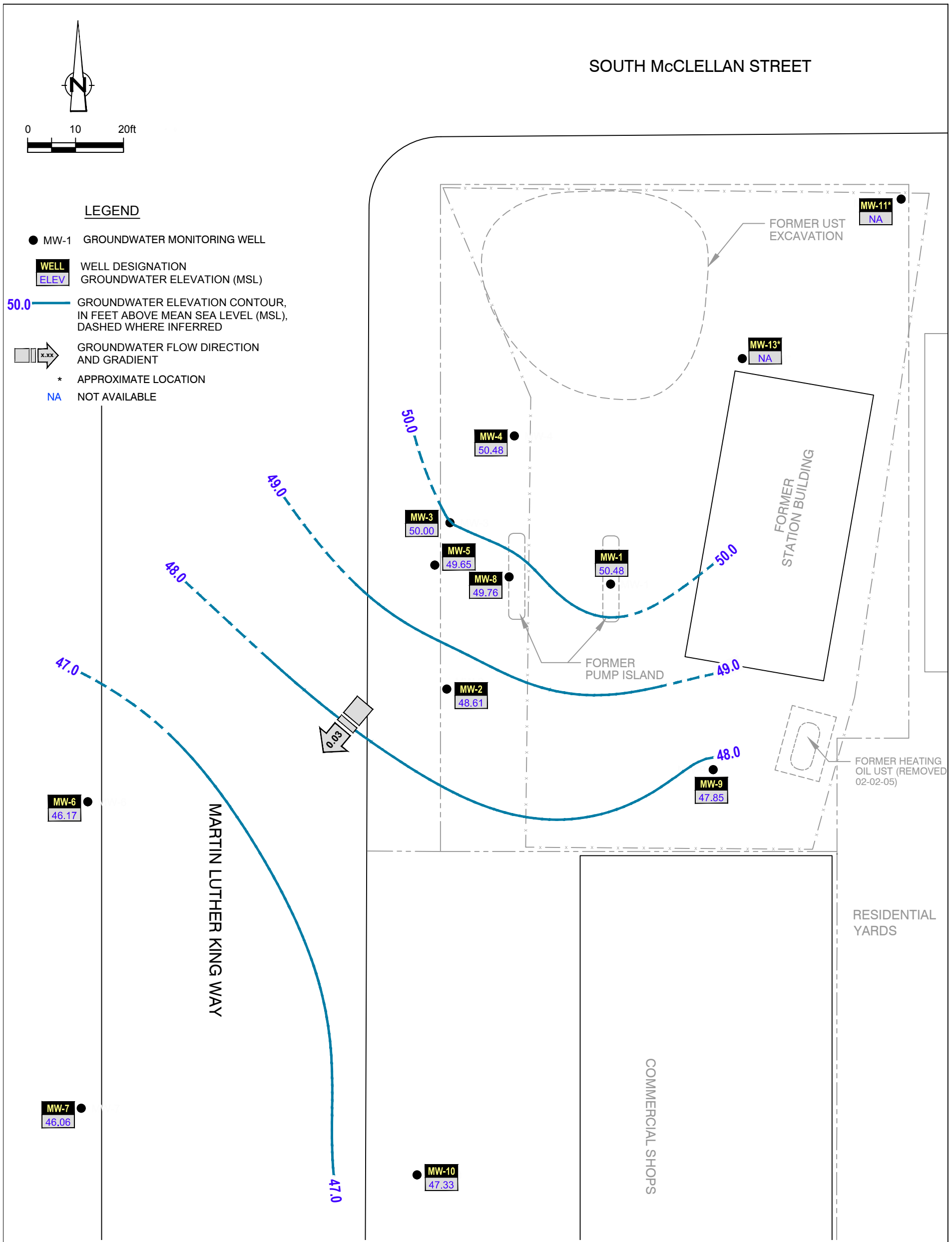

Figure 3

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 28, 2014

061992-95(011)GN-EM003 FEB 2/2014

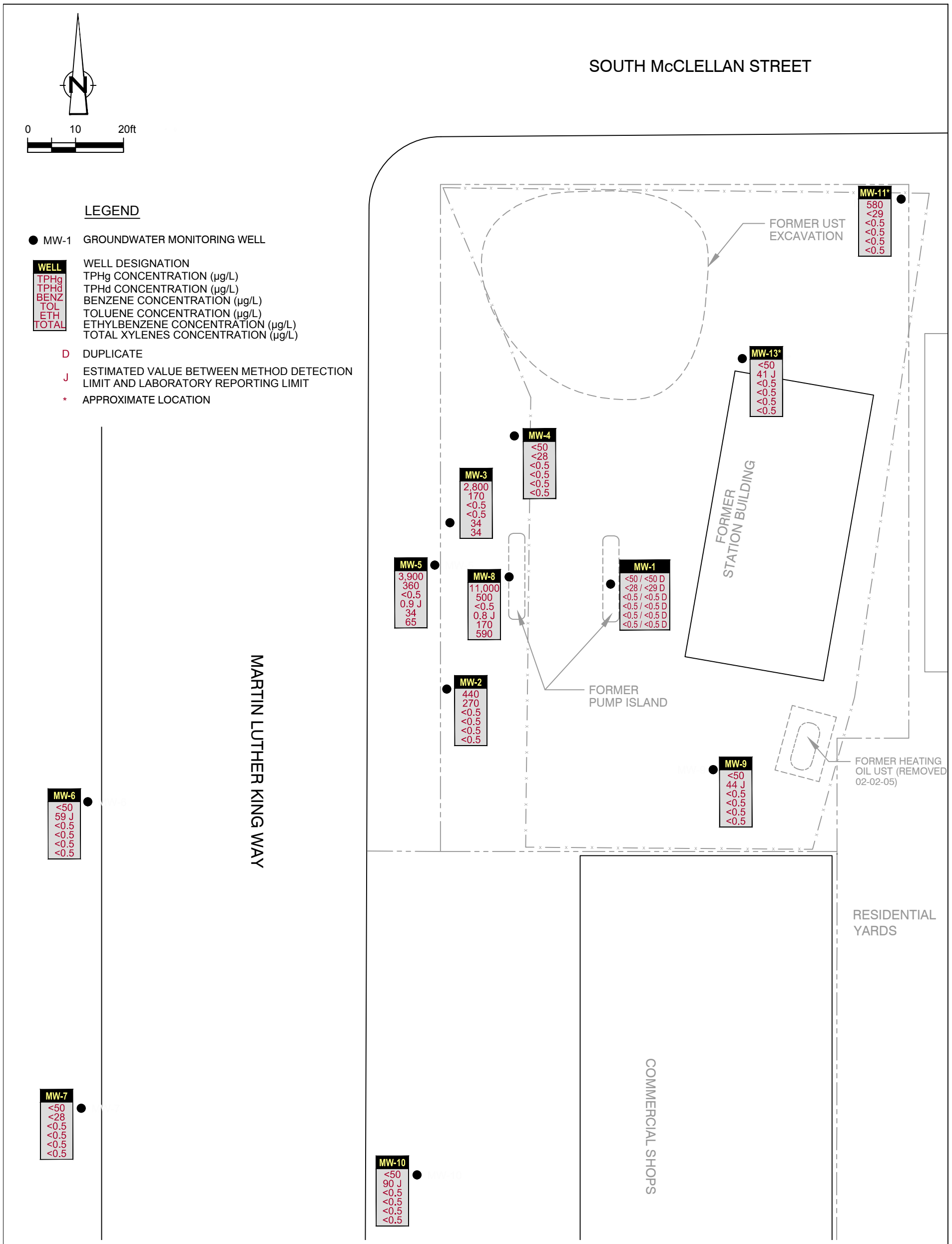

Figure 4

GROUNDWATER CONCENTRATION MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 28, 2014

CRA

061992-95(011)GN-EM004 FEB 2/2014

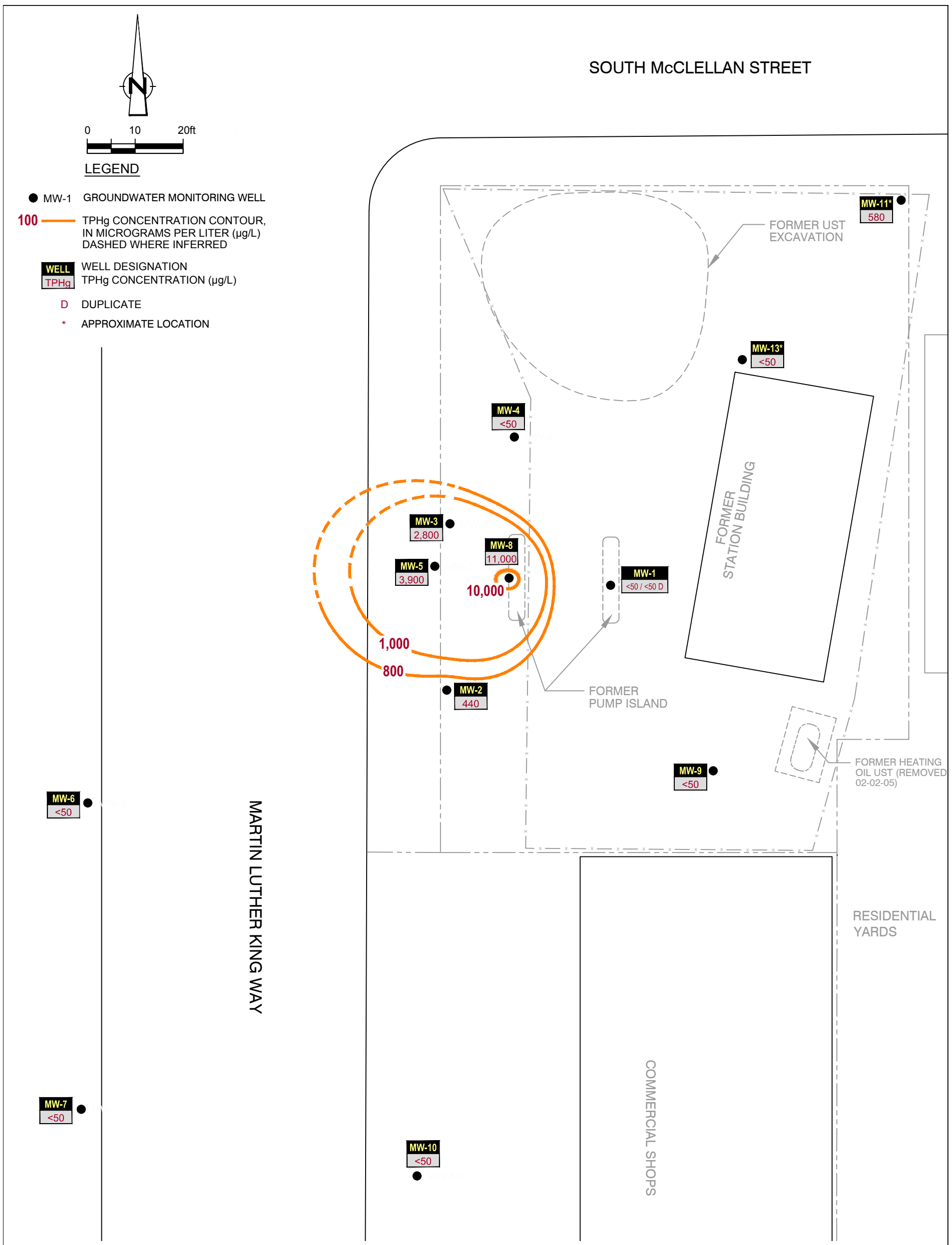

Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 28, 2014

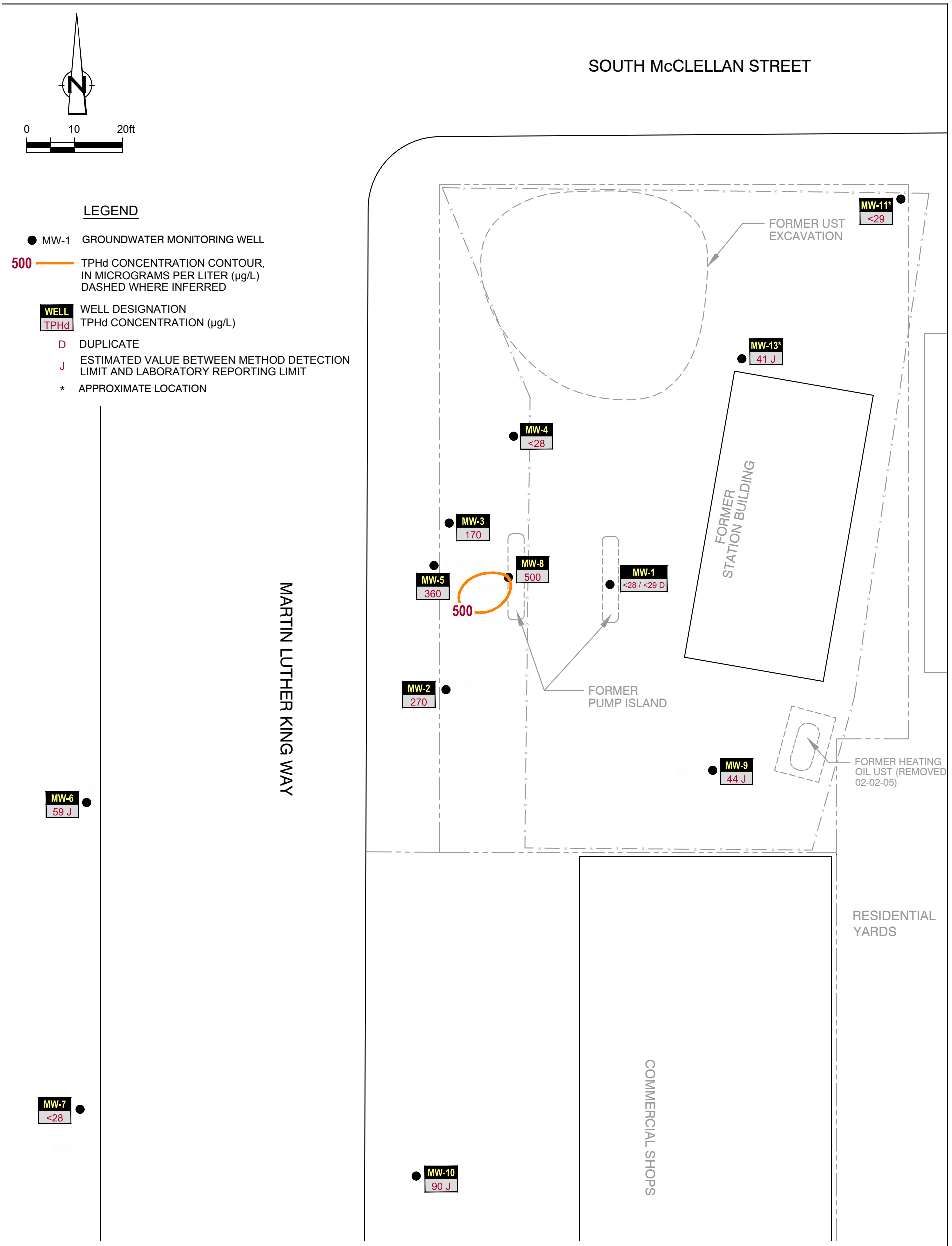

Figure 6

TPHd ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 28, 2014

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-1	05/23/2013	62.35	11.14	51.21	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.7	-
MW-1	08/29/2013	62.35	12.10	50.25	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.42	-
MW-1	11/13/2013	62.35	11.79	50.56	<50	<32[4]	<74[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-1	03/19/2014	62.35	8.69	53.66	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20	-
MW-1	05/27/2014	62.35	9.98	52.37	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.10	-
MW-1	**08/28/2014**	**62.35**	**11.87**	**50.48**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.40 J**	**<0.0095**
MW-1 DUP	**08/28/2014**	**62.35**	**11.87**	**50.48**	**<50**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.31 J**	**<0.0094**

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-2	05/23/2013	60.72	11.15	49.57	470	200[4]	<66[4]	0.7	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	<1	<1	46	21	0.12	-
MW-2	08/29/2013	60.72	12.11	48.61	740	200[4]	<67[4]	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<1	<1	36	17	0.36	-
MW-2	11/13/2013	60.72	11.69	49.03	700	160[4]	<67[4]	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	21	0.14	-
MW-2	03/18/2014	60.72	10.31	50.41	870	180[4]	<66[4]	0.9	<0.5	3	2	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.90	-

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	05/27/2014	60.72	10.25	50.47	370	300[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	23	9	0.42	-
MW-2	**08/28/2014**	**60.72**	**12.11**	**48.61**	**440**	**270**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**19**	**10**	**0.44 J**	**<0.0095**
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-

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	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[4]	<66[4]	<0.5	<0.5	190	620	<0.5	<0.5	<0.5	73	1,200	240	130	51	0.70	-
MW-3	05/23/2013	61.81	11.00	50.81	5,800	240[4]	<67[4]	<0.5	<0.5	160	550	<0.5	<0.5	<0.5	82	1,200	170	130	45	2.6	-
MW-3	08/30/2013	61.81	12.04	49.77	4,300	260[4]	<70[4]	<0.5	<0.5	54	190	<0.5	<0.5	<0.5	33	680	52	81	33	0.26	-
MW-3	11/13/2013	61.81	11.59	50.22	3,100	120[4]	<67[4]	<0.5	<0.5	33	120	<0.5	<0.5	<0.5	20	440	23	86	31	0.30	-
MW-3	03/19/2014	61.81	9.20	52.61	6,300	180[4]	<66[4]	<0.5	<0.5	100	410	<0.5	<0.5	<0.5	49	790	99	82	35	1.2	-
MW-3	05/27/2014	61.81	10.58	51.23	8,700	210[4]	<66[4]	<1	<1	180	460	<1	<1	<1	54	1,600	65	170	63	0.65	-
MW-3	**08/29/2014**	**61.81**	**11.81**	**50.00**	**2,800**	**170**	**<66**	**<0.5**	**<0.5**	**34**	**34**	**<0.5**	**<0.5**	**<0.5**	**9**	**370**	**11**	**61**	**27**	**0.20 J**	**<0.0096**
MW-4	06/28/2006	98.36	12.40	85.96	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
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-4	05/23/2013	62.75	11.35	51.40	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.74	-
MW-4	08/29/2013	62.75	12.41	50.34	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	11/13/2013	62.75	11.98	50.77	<50	<31[4]	<73[4]	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	03/18/2014	62.75	9.29	53.46	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.14	-

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-4	05/27/2014	62.75	10.89	51.86	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	**08/28/2014**	**62.75**	**12.27**	**50.48**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.14 J**	**<0.0095**
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	-	-	-	-	-	-	-	-	-	-
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-5	05/23/2013	61.66	10.90	50.76	360	64[4]	<67[4]	<0.5	<0.5	4	6	<0.5	<0.5	<0.5	25	4	<1	34	13	0.80	-
MW-5	08/30/2013	61.66	12.19	49.47	3,200	340[4]	<69[4]	0.7	1	49	89	<0.5	<0.5	<0.5	92	92	16	160	59	1.2	-
MW-5	11/14/2013	61.66	11.64	50.02	2,000	240[4]	<75[4]	0.7	0.7	19	14	<0.5	<0.5	<0.5	54	6	<1	130	44	0.31	-
MW-5	03/19/2014	61.66	9.21	52.45	1,700	110[4]	<67[4]	<0.5	<0.5	34	150	<0.5	<0.5	<0.5	26	170	27	52	19	0.17	-
MW-5	05/28/2014	61.66	10.62	51.04	570	100[4]	<67[4]	<0.5	<0.5	8	26	<0.5	<0.5	<0.5	9	16	6	41	14	0.16	-
MW-5	**08/28/2014**	**61.66**	**12.01**	**49.65**	**3,900**	**360**	**<66**	**<0.5**	**0.9 J**	**34**	**65**	**<0.5**	**<0.5**	**<0.5**	**36**	**65**	**15**	**170**	**61**	**0.49 J**	**<0.0095**

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-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-6	05/24/2013	58.03	11.91	46.12	<50	<30[4]	<70[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20	-
MW-6	08/29/2013	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	0.087	-
MW-6	11/14/2013	58.03	12.12	45.91	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-6	03/18/2014	58.03	11.38	46.65	<50	<29[4]	<68[4]	4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.97	-
MW-6	05/28/2014	58.03	11.87	46.16	<50	<28[4]	<66[4]	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	30.5	-
MW-6	**08/29/2014**	**58.03**	**11.86**	**46.17**	**<50**	**59 J**	**120 J**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**24.4**	**<0.0095**
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	-
MW-7	05/24/2013	56.96	10.81	46.15	<50	<31[4]	<72[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.9	-
MW-7	08/29/2013	56.96	11.05	45.91	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	2.9	-
MW-7	11/14/2013	56.96	10.96	46.00	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	22.7	-
MW-7	03/18/2014	56.96	10.39	46.57	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	79.3	-
MW-7	05/28/2014	56.96	10.78	46.18	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	9.7	-
MW-7	**08/29/2014**	**56.96**	**10.90**	**46.06**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**40.9**	**<0.0095**

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-8	05/23/2013	61.71	10.87	50.84	6,800	380[4]	<68[4]	<0.5	<0.5	87	700	<0.5	<0.5	<0.5	86	1,200	190	62	25	4.0	-
MW-8 DUP	05/23/2013	61.71	10.87	50.84	7,000	380[4]	<68[4]	<0.5	0.5	100	810	<0.5	<0.5	<0.5	94	1,300	240	73	29	3.5	-
MW-8	08/29/2013	61.71	12.00	49.71	6,600	340[4]	<66[4]	<0.5	<0.5	60	450	<0.5	<0.5	<0.5	49	680	110	47	20	2.1	-
MW-8 DUP	08/30/2013	61.71	12.00	49.71	3,500	220[4]	<66[4]	<0.5	<0.5	47	350	<0.5	<0.5	<0.5	39	510	83	45	18	1.2	-
MW-8	11/14/2013	61.71	11.52	50.19	8,900	390[4]	<67[4]	<0.5	0.5	79	740	<0.5	<0.5	<0.5	67	1,000	180	65	26	3.1	-
MW-8 DUP	11/14/2013	61.71	11.52	50.19	8,000	320[4]	<67[4]	<0.5	0.6	81	760	<0.5	<0.5	<0.5	66	1,100	180	65	27	3.2	-
MW-8	03/19/2014	61.71	8.73	52.98	8,400	2,400[4]	<67[4]	<0.5	<0.5	33	370	<0.5	<0.5	<0.5	57	800	250	28	12	12.6	-
MW-8 DUP	03/19/2014	61.71	8.73	52.98	8,800	2,200[4]	110[4]	<0.5	<0.5	42	480	<0.5	<0.5	<0.5	66	960	280	40	17	10.5	-
MW-8	05/28/2014	61.71	10.41	51.30	5,600	860[4]	<67[4]	<0.5	<0.5	50	270	<0.5	<0.5	<0.5	39	740	130	24	13	3.9	-
MW-8 DUP	05/28/2014	61.71	10.41	51.30	5,900	910[4]	<67[4]	<0.5	<0.5	67	330	<0.5	<0.5	<0.5	59	750	190	41	19	4.2	-
MW-8	**08/28/2014**	**61.71**	**11.95**	**49.76**	**11,000**	**500**	**<67**	**<0.5**	**0.8 J**	**170**	**590**	**<0.5**	**<0.5**	**<0.5**	**70**	**1,200**	**180**	**110**	**44**	**1.6**	**<0.0095**
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	-	-

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-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-9	05/24/2013	62.58	13.05	49.53	100	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.24	-
MW-9	08/29/2013	62.58	14.77	47.81	<50	51[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-9	11/13/2013	62.58	13.41	49.17	120	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.087	-
MW-9	03/18/2014	62.58	12.07	50.51	96	37[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.087	-
MW-9	05/27/2014	62.58	12.97	49.61	64	50[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.092	-
MW-9	**08/28/2014**	**62.58**	**14.73**	**47.85**	**<50**	**44 J**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.12 J**	**<0.0095**
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
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	-
MW-10	05/24/2013	58.96	10.94	48.02	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.073	-
MW-10	08/30/2013	58.96	12.13	46.83	<50	57[4]	<66[4]	0.8	<0.5	<0.5	1	<0.5	<0.5	<0.5	<1	<1	<1	3	1	0.10	-
MW-10	11/13/2013	58.96	11.76	47.20	210	50[4]	<67[4]	2	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	1	<1	13	5	0.39	-
MW-10	03/18/2014	58.96	11.29	47.67	520	190[4]	<66[4]	2	0.7	<0.5	6	<0.5	<0.5	<0.5	<1	<1	<1	40	20	<0.085	-
MW-10	05/27/2014	58.96	10.14	48.82	<50	74[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	2	<1	0.11	-
MW-10	**08/29/2014**	**58.96**	**11.63**	**47.33**	**<50**	**90 J**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.43 J**	**<0.0096**
MW-11	**08/28/2014**	**-**	**11.23**	**-**	**580**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.22 J**	**<0.0096**

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-13	**08/28/2014**	**-**	**10.10**	**-**	**<50**	**41 J**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**1.7**	**<0.0095**
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	-	-
Trip Blank	05/23/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	08/29/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	11/13/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	03/19/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	05/27/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	**08/28/2014**	**-**	**-**	**-**	**<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

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*

X = Xylene's (Total)

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

WELL GAUGING DATA

Project # 140828-L81 Date 8/28/14 Client CRA

Site CRA @ TIDEWATER SEATTLE

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0837	2					11.87	22.49		
MW-2	0849	2					12.11	21.29		
MW-3	0901	2					11.81	20.05		
MW-4	0824	2					12.27	19.08		
MW-5	0857	1					12.01	19.10		
MW-6	0801	2					11.86	19.70		
MW-7	0756	2					10.90	19.79		
MW-8	0830	2					11.95	19.77		
MW-9	0843	2					14.73	23.60		
MW-10	0810	2					11.63	19.91		
MW-11	0915	2					11.23	19.43		
MW-13	0919	2					10.10	17.91		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 22.49	Depth to Water (ft.): 11.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1215 Flow Rate: 200 mL/MIN Pump Depth: 17.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1218	16.29	6.40	1112	29	0.90	-68.2	600	11.93
1221	16.27	6.39	1116	18	0.87	-72.6	1200	11.93
1224	16.30	6.38	1117	17	0.86	-74.5	1800	11.93
1227	16.31	6.37	1118	16	0.85	-75.6	2400	11.93
1230	16.32	6.36	1117	15	0.84	-76.2	3000	11.93

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 1231 Sampling Date: 8/28/14

Sample I.D.: MW-1 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 21.29	Depth to Water (ft.): 12.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1355 Flow Rate: 200 mL/MIN Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1358	17.31	6.40	1013	17	1.82	73.4	600	~~21~~ 12.24
1401	17.28	6.41	1013	16	1.78	69.8	1200	12.24
1404	17.26	6.44	1010	14	1.76	68.2	1800	12.24
1407	17.25	6.45	1009	13	1.75	67.1	2400	12.24
1410	17.24	6.46	1008	12	1.74	66.5	3000	12.24

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 1411 Sampling Date: 8/28/14

Sample I.D.: MW-2 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-L81	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 20.05	Depth to Water (ft.): 11.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 0831 Flow Rate: 200 mL/MIN Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0834	16.93	6.31	992	18	2.20	124.3	600	11.86
0837	16.98	6.33	989	14	1.96	118.3	1200	11.86
0840	16.97	6.34	988	13	1.93	116.4	1800	11.86
0843	16.96	6.35	987	12	1.92	115.2	2400	11.86
0846	16.95	6.36	986	11	1.91	114.4	3000	11.86

Did well dewater? Yes (NO)	Amount actually evacuated: 3L
Sampling Time: 0847	Sampling Date: 8/29/14
Sample I.D.: MW-3	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828.LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.08	Depth to Water (ft.): 12.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump ✓ | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1042 Flow Rate: 200 mL/MIN Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1045	16.97	6.44	1419	89	1.56	-64.6	600	12.35
1048	17.09	6.45	1416	29	1.42	-71.4	1200	12.35
1051	17.09	6.47	1414	24	1.39	-72.4	1800	12.35
1054	17.08	6.48	1413	23	1.38	-73.6	2400	12.35
1057	17.07	6.49	1412	22	1.37	-74.2	3000	12.35

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1058	Sampling Date: 8/28/14
Sample I.D.: MW-4	Laboratory: LANCASTER
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 142828-LB1	Client: CPA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-5	Well Diameter (in.): ~~2~~ 3 4 6 8 (1)
Total Well Depth (ft.): 19.10	Depth to Water (ft.): 12.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other

Start Purge Time: 1432 Flow Rate: 200 mL/MIN Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1435	19.17	6.35	1152	48	2.26	93.4	600	12.10
1438	19.31	6.33	1148	36	2.18	91.2	1200	12.12
1441	19.33	6.31	1147	33	2.17	90.3	1800	12.13
1444	19.34	6.30	1146	32	2.16	89.6	2400	12.14
1447	19.35	6.29	1144	31	2.15	88.1	3000	12.14

Did well dewater? Yes ~~No~~ Amount actually evacuated: 3 L

Sampling Time: 1448 Sampling Date: 8/28/14

Sample I.D.: MW-5 Laboratory: LANCASTER

Analyzed for: ~~TPH-G~~ BTEX MTBE ~~TPH-D~~ Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.70	Depth to Water (ft.): 11.86
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other____

Start Purge Time: 0913 Flow Rate: 200 mL/min Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0916	17.17	6.56	2096	18	2.02	29.5	600	11.89
0919	17.30	6.58	2097	17	1.92	16.5	1200	11.89
0922	17.33	6.59	2095	16	1.90	15.2	1800	11.89
0925	17.34	6.60	2094	15	1.89	14.3	2400	11.89
0928	17.35	6.61	2092	14	1.88	13.6	3000	11.89

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 0929 Sampling Date: 8/28/14

Sample I.D.: MW-6 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE ~~TPH-D~~ Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.79	Depth to Water (ft.): 10.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 0951 Flow Rate: 200 mL/min Pump Depth: 15.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ~~ml~~)	Depth to Water (ft.)
0954	18.38	6.67	1642	38	1.84	60.3	600	10.94
0957	18.47	6.65	1634	29	1.79	53.4	1200	10.94
1000	18.48	6.63	1632	27	1.76	50.4	1800	10.94
1003	18.49	6.62	1631	26	1.75	49.6	2400	10.94
1006	18.50	6.61	1630	25	1.74	48.2	3000	10.94

Did well dewater? Yes ~~No~~ Amount actually evacuated: 3 L

Sampling Time: 1007 Sampling Date: 8/29/14

Sample I.D.: MW-7 Laboratory: LANCASTER

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.77	Depth to Water (ft.): 11.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other____

Start Purge Time: 1120 Flow Rate: 200 mL/MIN Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1123	16.60	6.42	1232	18	1.04	-72.4	600	12.02
1126	16.61	6.41	1230	13	1.02	-74.5	1200	12.02
1129	16.63	6.40	1229	12	1.01	-76.6	1800	12.02
1132	16.64	6.39	1228	11	1.00	-76.2	2400	12.02
1135	16.65	6.38	1227	10	0.99	-77.8	3000	12.02

Did well dewater? Yes (NO)	Amount actually evacuated: 3L
Sampling Time: 1136	Sampling Date: 8/28/14
Sample I.D.: MW-8	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828 - LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-9	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 23.60	Depth to Water (ft.): 14.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1317 Flow Rate: 200 mL/MIN Pump Depth: 19.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1320	15.41	6.68	1424	17	0.93	-99.7	600	14.86
1323	15.39	6.63	1417	15	0.92	-100.8	1200	14.86
1326	15.37	6.62	1415	14	0.90	-101.4	1800	14.86
1329	15.36	6.61	1414	13	0.89	-102.6	2400	14.86
1332	15.35	6.59	1413	12	0.88	-103.5	3000	14.86

Did well dewater? Yes (No) Amount actually evacuated: 3 L

Sampling Time: 1333 Sampling Date: 8/28/14

Sample I.D.: MW-9 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-10	Well Diameter (in.): ~~2~~ 3 4 6 8 ____
Total Well Depth (ft.): 19.91	Depth to Water (ft.): 11.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ~~Peristaltic~~ Pump Bladder Pump
Sampling Method: ~~Dedicated~~ Tubing New Tubing Other ____

Start Purge Time: 1028 Flow Rate: 200 mL/min Pump Depth: 16'

Time	Temp. (~~°C~~ or °F)	pH	Cond. (mS/cm or ~~uS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ~~mL~~)	Depth to Water (ft.)
1031	18.04	6.45	5399	31	1.03	-55.8	600	11.69
1034	17.97	6.46	5406	23	0.97	-59.3	1200	11.69
1037	19.94	6.47	5408	22	0.95	-60.4	1800	11.69
1040	19.93	6.48	5409	21	0.94	-61.2	2400	11.69
1043	19.92	6.49	5410	20	0.93	-62.6	3000	11.69

Did well dewater? Yes ~~No~~	Amount actually evacuated: 3L
Sampling Time: 1044	Sampling Date: 8/29/14
Sample I.D.: MW-10	Laboratory: LANCASTER
Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE ~~TPH-D~~	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-LB1	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-11	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.43	Depth to Water (ft.): 11.23
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 0921 Flow Rate: 200 mL/MIN Pump Depth: 15.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0924	17.11	7.02	1118	132	0.92	-19.2	600	11.41
0927	17.11	6.94	1111	78	0.85	-24.3	1200	11.41
0930	17.15	6.93	1108	69	0.83	-25.1	1800	11.41
0933	17.16	6.92	1107	68	0.82	-26.4	2400	11.41
0936	17.18	6.91	1106	67	0.81	-27.6	3000	11.41

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 0937	Sampling Date: 8/28/14
Sample I.D.: MW-11	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140828-L81	Client: CRA
Sampler: LB	Gauging Date: 8/28/14
Well I.D.: MW-13	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 17.91	Depth to Water (ft.): 10.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other____

Start Purge Time: 1003 Flow Rate: 200 mL/MIN Pump Depth: 14.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1006	17.96	6.46	1532	58	0.94	-70.5	600	10.21
1009	18.06	6.47	1538	31	0.93	-71.8	1200	10.21
1012	18.09	6.48	1540	27	0.92	-72.8	1800	10.21
1015	18.10	6.49	1541	26	0.91	-73.4	2400	10.21
1018	18.11	6.50	1542	25	0.90	-74.6	3000	10.21

Did well dewater? Yes (No)	Amount actually evacuated: 3 L
Sampling Time: 1019	Sampling Date: 8/28/14
Sample I.D.: MW-13	Laboratory: LANCASTER
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELLHEAD INSPECTION FORM

Client: CRA Site: CRA @ Tidewater Seattle Date: 8/28/14

Job #: 140828-LB1 Technician: L. Bores Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check Indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1				X		3/3									
MW-2	X						1/3								
MW-3						3/3									
MW-4				X		2/2									
MW-5	X														
MW-6	X			X											
MW-7	X			X											
MW-8				X		3/3									
MW-9	X			X											
MW-10	X			X											
MW-11	X			X											
MW-13	X			X											

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME CRA @ Tidewater Seattle				PROJECT NUMBER 140828-LB1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	06F1362AT	8/28/14 0530	PH 4.0 7.0 10.0	4.03 7.22 9.88	4.01 ✓ 7.00 ✓ 9.99 ✓	29.3	LB
			COND 3400	3918	3901 ✓	29.4	LB
			ORP 222	225.7	222.1 ✓	28.9	LB
			DO 100%	109.7%	100.1% ✓	—	LB
YSI 556	06F1362AT	8/29/14 0630	PH 4.0 7.0 10.0	3.98 7.03 10.01	—	30.1	LB
			COND 3900	3906	—	30.3	LB
			ORP 224.5	218.6	224.3 ✓	30.6	LB
			DO 100%	108.4%	100.1% ✓	—	LB

SPH or Purge Water Drum Log

Client: CRA

Site Address: 2801 Martin Luther King Jr Way S, Seattle, WA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	8/28/14					
Number of drum(s) empty:	0					
Number of drum(s) 1/4 full:	0					
Number of drum(s) 1/2 full:	0					
Number of drum(s) 3/4 full:	0					
Number of drum(s) full:	10					
Total drum(s) on site:	10					
Are the drum(s) properly labeled?	YES					
Drum ID & Contents:	NA					
If any drum(s) are partially or totally filled, what is the first use date:	NA					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	8/29/14					
Number of drums empty:	0					
Number of drum(s) 1/4 full:	0					
Number of drum(s) 1/2 full:	1					
Number of drum(s) 3/4 full:	0					
Number of drum(s) full:	10					
Total drum(s) on site:	11					
Are the drum(s) properly labeled?	YES					
Drum ID & Contents:	NA					

LOCATION OF DRUM(S)
Describe location of drum(s): SEE MAP

FINAL STATUS						
Number of new drum(s) left on site this event	1					
Date of inspection:	8/29/14					
Drum(s) labelled properly:	YES					
Logged by BTS Field Tech:	LB					
Office reviewed by:						

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

September 11, 2014

Project: 301233 Tidewater Seattle

Submittal Date: 08/30/2014
Group Number: 1499956
PO Number: 4071016
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
GW-301233-082814-LB-MW-1 Grab Groundwater	7583666
GW-301233-082814-LB-MW-2 Grab Groundwater	7583667
GW-301233-082814-LB-MW-3 Grab Groundwater	7583668
GW-301233-082814-LB-MW-4 Grab Groundwater	7583669
GW-301233-082814-LB-MW-5 Grab Groundwater	7583670
GW-301233-082814-LB-MW-6 Grab Groundwater	7583671
GW-301233-082814-LB-MW-7 Grab Groundwater	7583672
GW-301233-082814-LB-MW-8 Grab Groundwater	7583673
GW-301233-082814-LB-MW-8 MS Grab Groundwater	7583674
GW-301233-082814-LB-MW-8 MSD Grab Groundwater	7583675
GW-301233-082814-LB-MW-9 Grab Groundwater	7583676
GW-301233-082814-LB-MW-10 Grab Groundwater	7583677
GW-301233-082814-LB-MW-11 Grab Groundwater	7583678
GW-301233-082814-LB-MW-13 Grab Groundwater	7583679
GW-301233-082814-LB-DUP Grab Groundwater	7583680
Trip Blank Water	7583681

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

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	Chevron c/o CRA	Attn: Report Contact

COPY TO
ELECTRONIC CRA Attn: Chevron GWRT
COPY TO

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: GW-301233-082814-LB-MW-1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583666
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 12:31 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-1

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	12	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583666
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 12:31 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-1

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.		0.5	1
10335	Tetrachloroethene	127-18-4	6		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	6		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	0.9	J	0.5	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
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	N.D.		0.0095	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.0095	1
08357	Naphthalene	91-20-3	N.D.		0.028	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	0.40	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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.

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MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583666
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Suite 190
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Lynnwood WA 98036

MLK-1

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	Y142461AA	09/03/2014 11:48	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 11:48	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 04:27	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 18:21	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 18:21	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 13:48	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:42	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583667
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:11 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-2

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.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	2	J	1	1
10335	sec-Butylbenzene	135-98-8	3	J	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.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	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.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	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.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	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	10		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	19		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-301233-082814-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583667
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:11 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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MLK-2

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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.		0.5	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
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	0.077		0.0095	1
08357	2-Methylnaphthalene	91-57-6	0.024	J	0.0095	1
08357	Naphthalene	91-20-3	0.19		0.028	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	440		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.	270		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	0.44	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583667
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:11 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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MLK-2

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	Y142461AA	09/03/2014 12:09	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 12:09	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 05:00	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 19:15	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 19:15	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 14:32	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:44	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583668
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 08:47 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-3

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.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	8		1	1
10335	sec-Butylbenzene	135-98-8	8		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.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	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.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	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.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	2		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	34		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	27		1	1
10335	p-Isopropyltoluene	99-87-6	3	J	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	9		1	1
10335	n-Propylbenzene	103-65-1	61		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-301233-082814-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583668
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 08:47 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-3

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	370		10	10
10335	1,3,5-Trimethylbenzene	108-67-8	11		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	28		0.5	1
10335	o-Xylene	95-47-6	6		0.5	1
10335	Xylene (Total)	1330-20-7	34		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.0096	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.0096	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.0096	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.0096	1
08357	Chrysene	218-01-9	N.D.		0.0096	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0096	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0096	1
08357	1-Methylnaphthalene	90-12-0	4.3		0.0096	1
08357	2-Methylnaphthalene	91-57-6	0.94		0.0096	1
08357	Naphthalene	91-20-3	7.8		0.029	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	2,800		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		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	0.20	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583668
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 08:47 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-3

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	Y142461AA	09/03/2014 12:30	Sarah A Guill	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y142471AA	09/04/2014 10:36	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 12:30	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y142471AA	09/04/2014 10:36	Sarah A Guill	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 11:08	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14246A53A	09/04/2014 17:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14246A53A	09/04/2014 17:55	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 14:54	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:49	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583669
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:58 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-4

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583669
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:58 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-4

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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.		0.5	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
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	N.D.		0.0095	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.0095	1
08357	Naphthalene	91-20-3	N.D.		0.028	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	0.14	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583669
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:58 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-4

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	Y142461AA	09/03/2014 12:51	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 12:51	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 11:41	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 17:54	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 17:54	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 15:15	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:51	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583670
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:48 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-5

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.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	14		1	1
10335	sec-Butylbenzene	135-98-8	11		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.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	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.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	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.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	34		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	61		1	1
10335	p-Isopropyltoluene	99-87-6	2	J	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	36		1	1
10335	n-Propylbenzene	103-65-1	170		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-301233-082814-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583670
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:48 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-5

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	0.9	J	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	65		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	15		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	59		0.5	1
10335	o-Xylene	95-47-6	6		0.5	1
10335	Xylene (Total)	1330-20-7	65		0.5	1
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	20		0.19	20
08357	2-Methylnaphthalene	91-57-6	10		0.19	20
08357	Naphthalene	91-20-3	46		0.57	20
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	3,900		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.	360		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	0.49	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583670
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 14:48 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-5

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	Y142461AA	09/03/2014 13:12	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 13:12	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 12:15	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/10/2014 03:29	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14246A53A	09/04/2014 18:22	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14246A53A	09/04/2014 18:22	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 15:37	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:32	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583671
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 09:29 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-6

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583671
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 09:29 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-6

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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.		0.5	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
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	N.D.		0.0095	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.0095	1
08357	Naphthalene	91-20-3	N.D.		0.028	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.	59	J	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	120	J	67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	24.4		0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583671
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 09:29 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-6

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	Y142461AA	09/03/2014 13:33	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 13:33	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 12:49	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 15:12	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 15:12	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 15:59	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:53	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583672
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:07 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-7

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.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	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.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	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.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	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.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	1	J	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	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.		0.5	1

Sample Description: GW-301233-082814-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583672
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:07 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-7

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.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	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.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	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	2	0.5	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
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	N.D.	0.0095	1
08357	2-Methylnaphthalene	91-57-6	0.015 J	0.0095	1
08357	Naphthalene	91-20-3	N.D.	0.028	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	40.9	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583672
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:07 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-7

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	Y142461AA	09/03/2014 13:54	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 13:54	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/05/2014 13:22	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 17:27	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 17:27	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450005A	09/04/2014 14:10	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450005A	09/02/2014 18:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:55	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583673
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	20	1	1
10335	sec-Butylbenzene	135-98-8	12	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	170	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	44	1	1
10335	p-Isopropyltoluene	99-87-6	9	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	70	1	1
10335	n-Propylbenzene	103-65-1	110	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-301233-082814-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583673
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	0.8	J	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	180		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	460		0.5	1
10335	o-Xylene	95-47-6	130		0.5	1
10335	Xylene (Total)	1330-20-7	590		0.5	1
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	30		0.19	20
08357	2-Methylnaphthalene	91-57-6	35		0.19	20
08357	Naphthalene	91-20-3	68		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.	500		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	1.6		0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583673
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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	Y142461AA	09/03/2014 14:15	Sarah A Guill	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y142461AA	09/03/2014 15:18	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 14:15	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y142461AA	09/03/2014 15:18	Sarah A Guill	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 09:10	Mark A Clark	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/10/2014 04:02	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20B	09/05/2014 12:10	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20B	09/05/2014 12:10	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 23:37	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 20:21	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-8 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583674
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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	120	6	1
10335	Benzene	71-43-2	22	0.5	1
10335	Bromobenzene	108-86-1	19	1	1
10335	Bromochloromethane	74-97-5	20	1	1
10335	Bromodichloromethane	75-27-4	21	0.5	1
10335	Bromoform	75-25-2	15	0.5	1
10335	Bromomethane	74-83-9	13	0.5	1
10335	2-Butanone	78-93-3	130	3	1
10335	n-Butylbenzene	104-51-8	39	1	1
10335	sec-Butylbenzene	135-98-8	33	1	1
10335	tert-Butylbenzene	98-06-6	20	1	1
10335	Carbon Disulfide	75-15-0	21	1	1
10335	Carbon Tetrachloride	56-23-5	22	0.5	1
10335	Chlorobenzene	108-90-7	20	0.5	1
10335	Chloroethane	75-00-3	14	0.5	1
10335	Chloroform	67-66-3	23	0.5	1
10335	Chloromethane	74-87-3	22	0.5	1
10335	2-Chlorotoluene	95-49-8	20	1	1
10335	4-Chlorotoluene	106-43-4	20	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	22	2	1
10335	Dibromochloromethane	124-48-1	19	0.5	1
10335	1,2-Dibromoethane	106-93-4	20	0.5	1
10335	Dibromomethane	74-95-3	20	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	20	1	1
10335	1,3-Dichlorobenzene	541-73-1	20	1	1
10335	1,4-Dichlorobenzene	106-46-7	20	1	1
10335	Dichlorodifluoromethane	75-71-8	19	0.5	1
10335	1,1-Dichloroethane	75-34-3	23	0.5	1
10335	1,2-Dichloroethane	107-06-2	22	0.5	1
10335	1,1-Dichloroethene	75-35-4	21	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	25	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	19	0.5	1
10335	1,2-Dichloropropane	78-87-5	23	0.5	1
10335	1,3-Dichloropropane	142-28-9	20	0.5	1
10335	2,2-Dichloropropane	594-20-7	20	0.5	1
10335	1,1-Dichloropropene	563-58-6	24	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	19	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	19	0.5	1
10335	Ethylbenzene	100-41-4	190	0.5	1
10335	Hexachlorobutadiene	87-68-3	16	2	1
10335	2-Hexanone	591-78-6	72	3	1
10335	Isopropylbenzene	98-82-8	64	1	1
10335	p-Isopropyltoluene	99-87-6	29	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	17	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	75	3	1
10335	Methylene Chloride	75-09-2	21	2	1
10335	Naphthalene	91-20-3	85	1	1
10335	n-Propylbenzene	103-65-1	120	1	1
10335	Styrene	100-42-5	24	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	20	0.5	1

Sample Description: GW-301233-082814-LB-MW-8 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583674
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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	18		0.5	1
10335	Tetrachloroethene	127-18-4	21		0.5	1
10335	Toluene	108-88-3	22		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	17		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	18		1	1
10335	1,1,1-Trichloroethane	71-55-6	19		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	27		0.5	1
10335	Trichloroethene	79-01-6	23		0.5	1
10335	Trichlorofluoromethane	75-69-4	19		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	18		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	500	E	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	200		1	1
10335	Vinyl Chloride	75-01-4	20		0.5	1
10335	m+p-Xylene	179601-23-1	480		0.5	1
10335	o-Xylene	95-47-6	150		0.5	1
10335	Xylene (Total)	1330-20-7	630		0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	17,000		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.	1,900		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1

General Sample Comments

State of Washington Lab Certification No. C457

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	Y142461AA	09/03/2014 14:36	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 14:36	Sarah A Guill	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20B	09/05/2014 12:32	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20B	09/05/2014 12:32	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 23:58	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1

Sample Description: GW-301233-082814-LB-MW-8 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583675
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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	120	6	1
10335	Benzene	71-43-2	23	0.5	1
10335	Bromobenzene	108-86-1	20	1	1
10335	Bromochloromethane	74-97-5	20	1	1
10335	Bromodichloromethane	75-27-4	21	0.5	1
10335	Bromoform	75-25-2	16	0.5	1
10335	Bromomethane	74-83-9	13	0.5	1
10335	2-Butanone	78-93-3	130	3	1
10335	n-Butylbenzene	104-51-8	40	1	1
10335	sec-Butylbenzene	135-98-8	33	1	1
10335	tert-Butylbenzene	98-06-6	21	1	1
10335	Carbon Disulfide	75-15-0	22	1	1
10335	Carbon Tetrachloride	56-23-5	23	0.5	1
10335	Chlorobenzene	108-90-7	21	0.5	1
10335	Chloroethane	75-00-3	15	0.5	1
10335	Chloroform	67-66-3	24	0.5	1
10335	Chloromethane	74-87-3	23	0.5	1
10335	2-Chlorotoluene	95-49-8	21	1	1
10335	4-Chlorotoluene	106-43-4	21	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	22	2	1
10335	Dibromochloromethane	124-48-1	19	0.5	1
10335	1,2-Dibromoethane	106-93-4	20	0.5	1
10335	Dibromomethane	74-95-3	20	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	20	1	1
10335	1,3-Dichlorobenzene	541-73-1	20	1	1
10335	1,4-Dichlorobenzene	106-46-7	20	1	1
10335	Dichlorodifluoromethane	75-71-8	19	0.5	1
10335	1,1-Dichloroethane	75-34-3	21	0.5	1
10335	1,2-Dichloroethane	107-06-2	22	0.5	1
10335	1,1-Dichloroethene	75-35-4	22	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	25	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	22	0.5	1
10335	1,2-Dichloropropane	78-87-5	23	0.5	1
10335	1,3-Dichloropropane	142-28-9	20	0.5	1
10335	2,2-Dichloropropane	594-20-7	21	0.5	1
10335	1,1-Dichloropropene	563-58-6	25	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	20	0.5	1
10335	Ethylbenzene	100-41-4	180	0.5	1
10335	Hexachlorobutadiene	87-68-3	17	2	1
10335	2-Hexanone	591-78-6	73	3	1
10335	Isopropylbenzene	98-82-8	63	1	1
10335	p-Isopropyltoluene	99-87-6	29	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	76	3	1
10335	Methylene Chloride	75-09-2	21	2	1
10335	Naphthalene	91-20-3	83	1	1
10335	n-Propylbenzene	103-65-1	120	1	1
10335	Styrene	100-42-5	24	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	21	0.5	1

Sample Description: GW-301233-082814-LB-MW-8 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583675
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 11:36 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-8

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	18		0.5	1
10335	Tetrachloroethene	127-18-4	22		0.5	1
10335	Toluene	108-88-3	23		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	18		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	19		1	1
10335	1,1,1-Trichloroethane	71-55-6	19		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	28		0.5	1
10335	Trichloroethene	79-01-6	24		0.5	1
10335	Trichlorofluoromethane	75-69-4	19		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	18		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	520	E	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	190		1	1
10335	Vinyl Chloride	75-01-4	20		0.5	1
10335	m+p-Xylene	179601-23-1	460		0.5	1
10335	o-Xylene	95-47-6	140		0.5	1
10335	Xylene (Total)	1330-20-7	600		0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	17,000		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.	2,100		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1

General Sample Comments

State of Washington Lab Certification No. C457

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	Y142461AA	09/03/2014 14:57	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 14:57	Sarah A Guill	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20B	09/05/2014 12:54	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20B	09/05/2014 12:54	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/05/2014 00:20	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1

Sample Description: GW-301233-082814-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583676
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 13:33 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-9

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	89	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583676
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 13:33 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-9

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.		0.5	1
10335	Tetrachloroethene	127-18-4	71		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	41		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	8		0.5	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
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	N.D.		0.0095	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.0095	1
08357	Naphthalene	91-20-3	0.046	J	0.028	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.	44	J	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.12	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583676
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 13:33 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK-9

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	Y142461AA	09/03/2014 15:39	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 15:39	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 09:44	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 12:56	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 12:56	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 22:09	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:56	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583677
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:44 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK10

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.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	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.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	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.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	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.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.6	J	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	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.		0.5	1

Sample Description: GW-301233-082814-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583677
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:44 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK10

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	17		0.5	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
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.0096	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.0096	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.0096	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.0096	1
08357	Chrysene	218-01-9	N.D.		0.0096	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0096	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0096	1
08357	1-Methylnaphthalene	90-12-0	0.13		0.0096	1
08357	2-Methylnaphthalene	91-57-6	0.065		0.0096	1
08357	Naphthalene	91-20-3	0.053	J	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.	90	J	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.43	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583677
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/29/2014 10:44 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK10

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	Y142461AA	09/03/2014 16:00	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 16:00	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 10:18	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 13:24	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 13:24	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/05/2014 00:42	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 19:58	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583678
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 09:37 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK11

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	2	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	15	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583678
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 09:37 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK11

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.		0.5	1
10335	Tetrachloroethene	127-18-4	1,200		5	10
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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	38		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	0.6	J	0.5	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
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.0096	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.0096	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.0096	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.0096	1
08357	Chrysene	218-01-9	N.D.		0.0096	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0096	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0096	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.0096	1
08357	2-Methylnaphthalene	91-57-6	0.012	J	0.0096	1
08357	Naphthalene	91-20-3	0.041	J	0.029	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	580		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.		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.22	J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583678
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 09:37 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK11

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	Y142461AA	09/03/2014 16:21	Sarah A Guill	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y142471AA	09/04/2014 10:57	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 16:21	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y142471AA	09/04/2014 10:57	Sarah A Guill	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 10:52	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 13:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 13:51	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 22:31	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 20:00	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583679
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:19 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK13

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	57	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583679
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:19 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK13

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.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	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.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	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	27		0.5	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
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	N.D.		0.0095	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.0095	1
08357	Naphthalene	91-20-3	N.D.		0.028	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.	41	J	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	1.7		0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583679
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 10:19 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLK13

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	Y142471AA	09/04/2014 11:19	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142471AA	09/04/2014 11:19	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 11:26	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 14:18	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 14:18	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 23:15	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 20:02	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

Sample Description: GW-301233-082814-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583680
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLKFD

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	13	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

Sample Description: GW-301233-082814-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583680
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLKFD

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.	0.5	1
10335	Tetrachloroethene	127-18-4	6	0.5	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.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	6	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	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	0.5	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
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0094	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0094	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0094	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0094	1
08357	Chrysene	218-01-9	N.D.	0.0094	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0094	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0094	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.0094	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.0094	1
08357	Naphthalene	91-20-3	0.049 J	0.028	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.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.31 J	0.082	1

General Sample Comments

State of Washington Lab Certification No. C457
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-301233-082814-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7583680
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014 by LB

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLKFD

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	Y142461AA	09/03/2014 17:03	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 17:03	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14246WAE026	09/06/2014 12:00	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14246WAE026	09/04/2014 09:00	Katheryne V Sponheimer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 14:45	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 14:45	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	142450023A	09/04/2014 22:53	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	142450023A	09/03/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	142466050006A	09/09/2014 20:03	Maria A Orrs	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	142466050006	09/04/2014 10:00	Micaela L Dishong	1

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

LL Sample # WW 7583681
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLKTB

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.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	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.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	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.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	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.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	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.	0.5	1

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

LL Sample # WW 7583681
LL Group # 1499956
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/28/2014

Submitted: 08/30/2014 08:45
Reported: 09/11/2014 18:05

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

MLKTB

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.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	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.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	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.	0.5	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
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. C457

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	Y142461AA	09/03/2014 17:24	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y142461AA	09/03/2014 17:24	Sarah A Guill	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14245A20A	09/03/2014 12:29	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14245A20A	09/03/2014 12:29	Marie D Beamenderfer	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

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: Y142461AA	Sample number(s): 7583666-7583678,7583680-7583681							
Acetone	N.D.	6.	ug/l	85		55-129		
Benzene	N.D.	0.5	ug/l	104		78-120		
Bromobenzene	N.D.	1.	ug/l	94		80-120		
Bromochloromethane	N.D.	1.	ug/l	98		80-121		
Bromodichloromethane	N.D.	0.5	ug/l	92		73-120		
Bromoform	N.D.	0.5	ug/l	79		61-120		
Bromomethane	N.D.	0.5	ug/l	57		53-130		
2-Butanone	N.D.	3.	ug/l	94		54-133		
n-Butylbenzene	N.D.	1.	ug/l	93		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	95		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	93		80-120		
Carbon Disulfide	N.D.	1.	ug/l	94		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	102		74-130		
Chlorobenzene	N.D.	0.5	ug/l	98		80-120		
Chloroethane	N.D.	0.5	ug/l	62		56-120		
Chloroform	N.D.	0.5	ug/l	104		80-122		
Chloromethane	N.D.	0.5	ug/l	93		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	95		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	96		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	86		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	91		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.5	ug/l	94		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	95		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	94		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	97		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	80		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	88		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	103		65-135		
1,1-Dichloroethene	N.D.	0.5	ug/l	99		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	97		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	93		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	109		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	95		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	94		76-120		
Ethylbenzene	N.D.	0.5	ug/l	98		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	85		51-125		
2-Hexanone	N.D.	3.	ug/l	76		57-127		
Isopropylbenzene	N.D.	1.	ug/l	96		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	94		76-120		

*- 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: 1499956
Reported: 09/11/14 at 06:05 PM

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	89		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	75		51-124		
Methylene Chloride	N.D.	2.	ug/l	95		80-120		
Naphthalene	N.D.	1.	ug/l	86		47-126		
n-Propylbenzene	N.D.	1.	ug/l	100		80-120		
Styrene	N.D.	1.	ug/l	95		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	97		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	91		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	100		80-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	89		68-123		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	91		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	87		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	94		80-120		
Trichloroethene	N.D.	0.5	ug/l	103		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	81		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	91		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	96		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	97		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	84		63-120		
m+p-Xylene	N.D.	0.5	ug/l	99		80-120		
o-Xylene	N.D.	0.5	ug/l	97		80-120		
Xylene (Total)	N.D.	0.5	ug/l	98		80-120		
Batch number: Y142471AA	Sample number(s): 7583668,7583678-7583679							
Acetone	N.D.	6.	ug/l	80	80	55-129	0	30
Benzene	N.D.	0.5	ug/l	101	104	78-120	3	30
Bromobenzene	N.D.	1.	ug/l	93	95	80-120	2	30
Bromochloromethane	N.D.	1.	ug/l	98	99	80-121	2	30
Bromodichloromethane	N.D.	0.5	ug/l	89	90	73-120	1	30
Bromoform	N.D.	0.5	ug/l	76	78	61-120	2	30
Bromomethane	N.D.	0.5	ug/l	60	59	53-130	1	30
2-Butanone	N.D.	3.	ug/l	89	89	54-133	0	30
n-Butylbenzene	N.D.	1.	ug/l	89	92	68-120	3	30
sec-Butylbenzene	N.D.	1.	ug/l	91	93	75-120	3	30
tert-Butylbenzene	N.D.	1.	ug/l	89	92	80-120	3	30
Carbon Disulfide	N.D.	1.	ug/l	77	89	58-126	15	30
Carbon Tetrachloride	N.D.	0.5	ug/l	98	100	74-130	2	30
Chlorobenzene	N.D.	0.5	ug/l	96	99	80-120	2	30
Chloroethane	N.D.	0.5	ug/l	68	65	56-120	4	30
Chloroform	N.D.	0.5	ug/l	101	103	80-122	2	30
Chloromethane	N.D.	0.5	ug/l	94	96	63-120	3	30
2-Chlorotoluene	N.D.	1.	ug/l	93	95	80-120	2	30
4-Chlorotoluene	N.D.	1.	ug/l	94	97	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	77	81	56-120	5	30
Dibromochloromethane	N.D.	0.5	ug/l	88	90	72-120	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	95	97	80-120	3	30
Dibromomethane	N.D.	0.5	ug/l	93	94	80-120	1	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	94	95	80-120	1	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	92	95	80-120	3	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	94	98	80-120	3	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	80	81	55-127	1	30
1,1-Dichloroethane	N.D.	0.5	ug/l	106	108	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	ug/l	103	104	65-135	0	30
1,1-Dichloroethene	N.D.	0.5	ug/l	89	94	76-124	5	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	102	104	80-120	2	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: 1499956
Reported: 09/11/14 at 06:05 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	89	90	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	101	104	80-120	3	30
1,3-Dichloropropane	N.D.	0.5	ug/l	97	98	80-120	1	30
2,2-Dichloropropane	N.D.	0.5	ug/l	90	93	67-124	3	30
1,1-Dichloropropene	N.D.	1.	ug/l	104	107	80-126	3	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	90	92	80-120	2	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	91	93	76-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	95	98	79-120	3	30
Hexachlorobutadiene	N.D.	2.	ug/l	75	78	51-125	4	30
2-Hexanone	N.D.	3.	ug/l	72	74	57-127	2	30
Isopropylbenzene	N.D.	1.	ug/l	94	96	80-120	3	30
p-Isopropyltoluene	N.D.	1.	ug/l	90	92	76-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	83	82	75-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	72	73	51-124	2	30
Methylene Chloride	N.D.	2.	ug/l	84	97	80-120	14	30
Naphthalene	N.D.	1.	ug/l	78	81	47-126	4	30
n-Propylbenzene	N.D.	1.	ug/l	96	99	80-120	3	30
Styrene	N.D.	1.	ug/l	92	95	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	96	97	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	86	89	70-120	4	30
Tetrachloroethene	N.D.	0.5	ug/l	103	100	80-120	4	30
Toluene	N.D.	0.5	ug/l	100	102	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	81	86	68-123	6	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	84	87	73-120	4	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	83	87	66-126	4	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	93	94	80-120	2	30
Trichloroethene	N.D.	0.5	ug/l	101	104	80-120	3	30
Trichlorofluoromethane	N.D.	0.5	ug/l	81	83	58-135	2	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	88	91	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	94	95	80-120	2	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	93	96	80-120	3	30
Vinyl Chloride	N.D.	0.5	ug/l	84	86	63-120	2	30
m+p-Xylene	N.D.	0.5	ug/l	97	100	80-120	3	30
o-Xylene	N.D.	0.5	ug/l	95	96	80-120	2	30
Xylene (Total)	N.D.	0.5	ug/l	96	98	80-120	2	30
Batch number: 14246WAE026	Sample number(s): 7583666-7583673,7583676-7583680							
Benzo(a)anthracene	N.D.	0.010	ug/l	108	109	79-122	0	30
Benzo(a)pyrene	N.D.	0.010	ug/l	108	109	72-126	2	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	112	114	79-136	1	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	112	116	72-129	4	30
Chrysene	N.D.	0.010	ug/l	109	109	77-122	0	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	108	109	42-143	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	104	106	53-136	2	30
1-Methylnaphthalene	N.D.	0.010	ug/l	107	106	75-117	0	30
2-Methylnaphthalene	N.D.	0.010	ug/l	107	108	68-124	1	30
Naphthalene	N.D.	0.030	ug/l	97	98	78-117	1	30
Batch number: 14245A20A	Sample number(s): 7583666-7583667,7583669,7583671-7583672,7583676-7583681							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	108		75-135		
Batch number: 14245A20B	Sample number(s): 7583673-7583675							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	108		75-135		
Batch number: 14246A53A	Sample number(s): 7583668,7583670							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	108	105	75-135	3	30

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 142450005A	Sample number(s): 7583666-7583672							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	88	98	32-117	11	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 142450023A	Sample number(s): 7583673-7583680							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	90		32-117		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 142466050006A	Sample number(s): 7583666-7583673,7583676-7583680							
Lead	N.D.	0.082	ug/l	101		90-110		

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: Y142461AA	Sample number(s): 7583666-7583678,7583680-7583681 UNSPK: 7583673								
Acetone	78	80	35-144	2	30				
Benzene	112	115	72-134	2	30				
Bromobenzene	97	99	82-115	2	30				
Bromochloromethane	102	102	76-134	0	30				
Bromodichloromethane	104	107	73-125	4	30				
Bromoform	77	79	48-118	2	30				
Bromomethane	63	66	47-129	4	30				
2-Butanone	89	90	44-135	1	30				
n-Butylbenzene	95	101	74-134	3	30				
sec-Butylbenzene	103	105	74-137	1	30				
tert-Butylbenzene	102	104	81-121	2	30				
Carbon Disulfide	106	110	53-149	4	30				
Carbon Tetrachloride	112	114	75-148	2	30				
Chlorobenzene	102	104	87-124	2	30				
Chloroethane	72	76	55-130	6	30				
Chloroform	117	119	81-134	1	30				
Chloromethane	111	117	61-125	5	30				
2-Chlorotoluene	101	103	82-118	2	30				
4-Chlorotoluene	101	103	84-122	2	30				
1,2-Dibromo-3-chloropropane	109	110	50-123	2	30				
Dibromochloromethane	93	95	74-116	2	30				
1,2-Dibromoethane	99	100	77-116	1	30				
Dibromomethane	99	101	83-119	2	30				
1,2-Dichlorobenzene	98	100	84-119	2	30				
1,3-Dichlorobenzene	99	100	86-121	1	30				
1,4-Dichlorobenzene	99	101	85-121	2	30				
Dichlorodifluoromethane	94	95	58-156	2	30				
1,1-Dichloroethane	116	103	84-129	12	30				
1,2-Dichloroethane	108	110	63-142	2	30				
1,1-Dichloroethene	107	110	79-137	3	30				
cis-1,2-Dichloroethene	110	112	80-141	2	30				
trans-1,2-Dichloroethene	97	110	86-131	12	30				
1,2-Dichloropropane	114	117	83-124	2	30				

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

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-Dichloropropane	98	101	81-120	2	30				
2,2-Dichloropropane	100	105	69-135	4	30				
1,1-Dichloropropene	120	123	86-137	2	30				
cis-1,3-Dichloropropene	97	100	70-116	3	30				
trans-1,3-Dichloropropene	96	99	74-119	3	30				
Ethylbenzene	76 (2)	34 (2)	71-134	5	30				
Hexachlorobutadiene	81	84	56-134	3	30				
2-Hexanone	72	73	38-131	1	30				
Isopropylbenzene	98	93	75-128	2	30				
p-Isopropyltoluene	100	102	76-123	1	30				
Methyl Tertiary Butyl Ether	85	98	72-126	14	30				
4-Methyl-2-pentanone	75	76	45-128	2	30				
Methylene Chloride	104	107	78-133	3	30				
Naphthalene	77	66	52-125	3	30				
n-Propylbenzene	87 (2)	79 (2)	74-134	1	30				
Styrene	120	121	78-125	0	30				
1,1,1,2-Tetrachloroethane	101	103	80-123	1	30				
1,1,2,2-Tetrachloroethane	90	91	72-128	1	30				
Tetrachloroethene	106	108	80-128	2	30				
Toluene	108	111	80-125	2	30				
1,2,3-Trichlorobenzene	86	88	62-133	2	30				
1,2,4-Trichlorobenzene	92	93	56-137	1	30				
1,1,1-Trichloroethane	95	97	69-140	3	30				
1,1,2-Trichloroethane	135	138	71-141	2	30				
Trichloroethene	117	118	88-133	1	30				
Trichlorofluoromethane	94	97	63-163	3	30				
1,2,3-Trichloropropane	91	92	76-118	2	30				
1,2,4-Trimethylbenzene	-27 (2)	48 (2)	72-130	3	30				
1,3,5-Trimethylbenzene	74 (2)	62 (2)	65-132	1	30				
Vinyl Chloride	98	101	66-133	3	30				
m+p-Xylene	57 (2)	13 (2)	79-125	4	30				
o-Xylene	90 (2)	68 (2)	79-125	3	30				
Xylene (Total)	68 (2)	31 (2)	79-125	4	30				
Batch number: 14245A20A	Sample number(s): 7583666-7583667,7583669,7583671-7583672,7583676-7583681 UNSPK: 7583673								
NWTPH-Gx water C7-C12	104	109	75-135	2	30				
Batch number: 14245A20B	Sample number(s): 7583673-7583675 UNSPK: 7583673								
NWTPH-Gx water C7-C12	104	109	75-135	2	30				
Batch number: 142450023A	Sample number(s): 7583673-7583680 UNSPK: 7583673								
DRO C12-C24 w/Si Gel	92	106	48-115	11	20				
Batch number: 142466050006A	Sample number(s): 7583666-7583673,7583676-7583680 UNSPK: 7583670 BKG: 7583670								
Lead	97	99	89-120	2	20	0.49 J	0.49 J	1 (1)	20

Surrogate Quality Control

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

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: VOCs- 5ml Water by 8260B
Batch number: Y142461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7583666	97	99	100	97
7583667	87	95	100	100
7583668	98	100	100	100
7583669	97	98	100	97
7583670	99	99	101	102
7583671	98	98	100	98
7583672	99	98	99	96
7583673	98	98	101	104
7583674	98	101	101	106
7583675	98	101	102	106
7583676	97	97	100	98
7583677	97	97	100	97
7583678	98	98	98	98
7583680	98	98	100	97
7583681	98	98	99	97
Blank	97	98	100	97
LCS	98	101	101	100
MS	98	101	101	106
MSD	98	101	102	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: Y142471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7583679	99	99	99	96
Blank	98	99	99	96
LCS	98	101	101	100
LCSD	97	101	101	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 14246WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7583666	90	99	98
7583667	107	103	97
7583668	111	108	101
7583669	97	107	98
7583670	106	108	97
7583671	95	105	97
7583672	101	110	97
7583673	113	102	77
7583676	97	102	92
7583677	102	103	94
7583678	99	103	93

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

Surrogate Quality Control

7583679	93	93	93
7583680	88	90	90
Blank	98	109	94
LCS	102	111	97
LCSD	99	111	96
Limits:	56-134	36-156	59-132

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14245A20A

	Trifluorotoluene-F
7583666	87
7583667	94
7583669	90
7583671	90
7583672	90
7583676	90
7583677	92
7583678	90
7583679	88
7583680	91
7583681	91
Blank	91
LCS	96
MS	101
MSD	101
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14245A20B

	Trifluorotoluene-F
7583673	99
7583674	101
7583675	101
Blank	91
LCS	96
MS	101
MSD	101
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14246A53A

	Trifluorotoluene-F
7583668	93
7583670	114
Blank	67
LCS	75
LCSD	74
Limits:	63-135

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1499956
Reported: 09/11/14 at 06:05 PM

Surrogate Quality Control

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 142450005A

	Orthoterphenyl
7583666	93
7583667	95
7583668	99
7583669	98
7583670	103
7583671	108
7583672	101
Blank	107
LCS	114
LCSD	150
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 142450023A

	Orthoterphenyl
7583673	110
7583674	112
7583675	126
7583676	90
7583677	112
7583678	103
7583679	115
7583680	100
Blank	92
LCS	112
MS	112
MSD	126
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 13534 Group # 1499456 Sample # 7583666-81
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # PBS 05173 / chevron 301233
WBS
Site Address 2800 Martin Luther King Jr. Way, Seattle, WA
Chevron PM
Lead Consultant CRA
Consultant/Office Seattle - Tacoma
Consultant Project Mgr. Matt Davis
Consultant Phone # 253-507-6217
Sampler LEE BURES

SCR #:

- [ ] Results in Dry Weight
- [ ] J value reporting needed
- [ ] Must meet lowest detection limits possible for 8260 compounds
- [ ] 8021 MTBE Confirmation
- [ ] Confirm MTBE + Naphthalene
- [ ] Confirm highest hit by 8260
- [ ] Confirm all hits by 8260
- [ ] Run _____ oxy's on highest hit
- [ ] Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Oil	Total Number of Containers	5 Analyses Requested: BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Diss.	Method 6020	WAVPH	WAEPH	PAHs (8270 SIM)
~~MW-1~~ GW-301233-082814-LB-MW-1	8/28/14	1231	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-2	8/28/14	1411	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-3	8/29/14	0847	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-4	8/28/14	1058	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-5	8/28/14	1448	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-6	8/29/14	0929	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-7	8/29/14	1007	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-8	8/28/14	1136	X			X		28					X		X	X		X						X
GW-301233-082814-LB-MW-9	8/28/14	1333	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-10	8/29/14	1044	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-11	8/28/14	0937	X			X		11					X		X	X		X						X
GW-301233-082814-LB-MW-13	8/28/14	1019	X			X		11					X		X	X		X						X
GW-301233-082814-LB-DUP	8/29/14	—	X			X		11					X		X	X		X						X

6 Remarks

→ MS/MSD for NWTPH-Gx NWTPH-Dx, and 8260 Full Scan

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
	8/29/14	1120		8/29/14	11:20
Relinquished by	Date	Time	Received by	Date	Time

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by Commerical Carrier: UPS X FedEx _____ Other _____

Received by — Date 8/30/14 — Time 845

Temperature Upon Receipt 0.6-4.7 °C

Custody Seals Intact? Yes / No

9

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

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

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

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

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.