CONESTOGA-ROVERS & ASSOCIATES

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May 20, 2015 Reference No. 061992

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

Re: Fourth 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 *Fourth 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 FOURTH QUARTER 2014 EVENT

On December 10 and 11, 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 — 0.07
- Approximate Depth to Water — 9 to 12 feet below grade
- Approximate Groundwater Elevation — 46 to 52 feet above mean sea level

Current and historical groundwater monitoring and sampling data are presented in Table 1 and current concentration data 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	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-2	420	170	<66	<0.5	<0.5	<0.5	<0.5
MW-3	**7,800**	150	<67	<1	<1	150	510
MW-4	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-4 (DUP)	<50	<28	<65	<0.5	<0.5	<0.5	<0.5
MW-5	260	<29	<67	<0.5	<0.5	0.8 J	5
MW-6	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-7	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-8	**9,000**	**1,600**[a]	<66	<1	<1	94	350
MW-9	81 J	56 J	<67	<0.5	<0.5	<0.5	<0.5
MW-10	140 J	140	<65	1	<0.5	<0.5	2
MW-11	560	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-13	<50	<28	<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
a	Elevated TPHd concentration may be due to overlap of TPHg during analysis

CONCLUSIONS AND RECOMMENDATIONS

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

- TPHg concentrations exceeded the Washington State Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level in groundwater wells MW-3, and MW-8, with the highest concentration detected at MW-8 (Figure 5).

- TPHd concentrations exceeded the MTCA Method A cleanup level in groundwater well MW-8 (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 first quarter 2015 event will be performed in March 2015. 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 were installed in June 2014. The aquifer potability pumping test was completed in January 2015. The two remaining borings inside the building were completed in March 2015.

CONESTOGA-ROVERS & ASSOCIATES

May 20, 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/12
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*)
Alison Robinson, Veris Law Group (*electronic copy*)

FIGURES

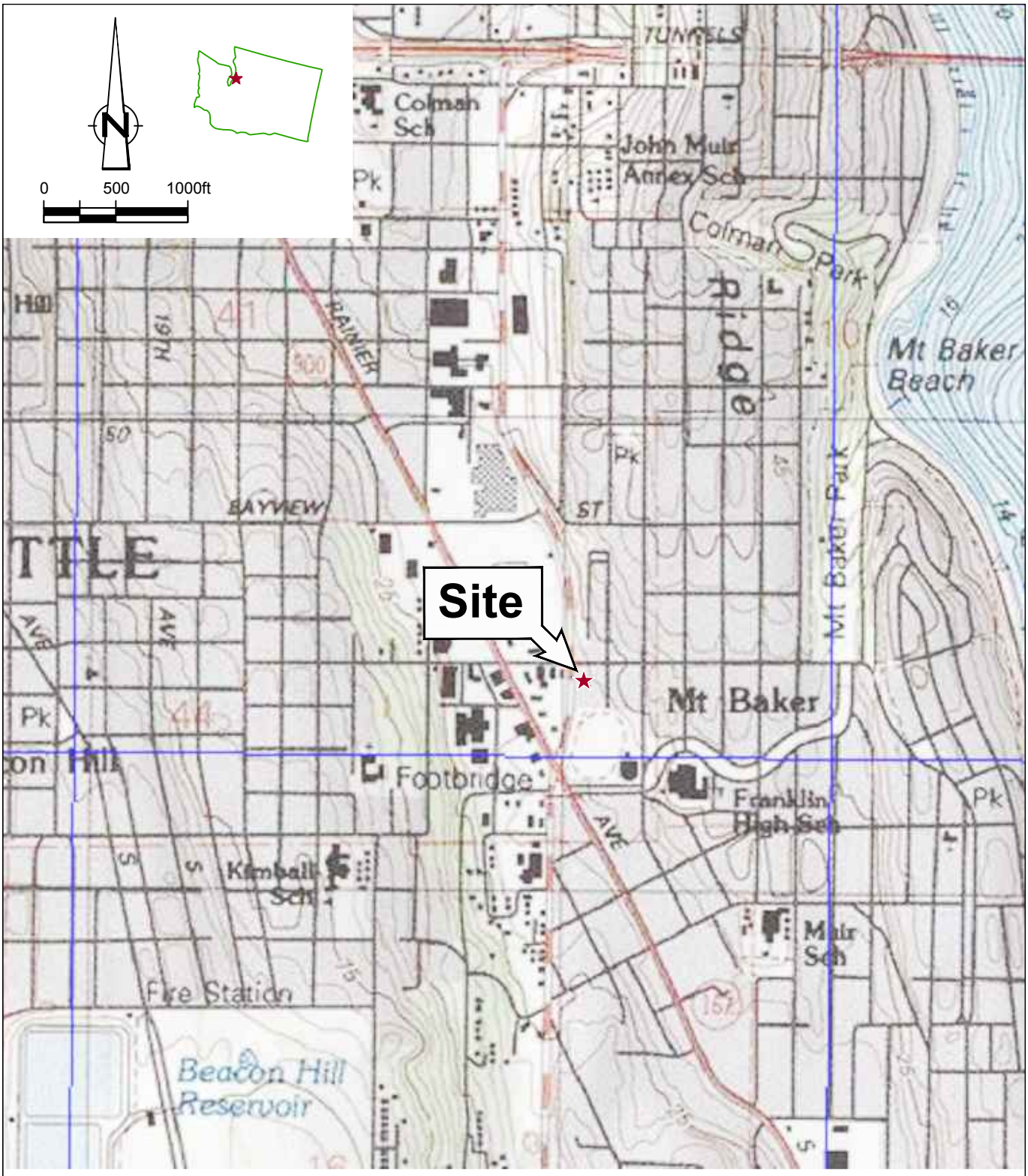


Figure 1

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

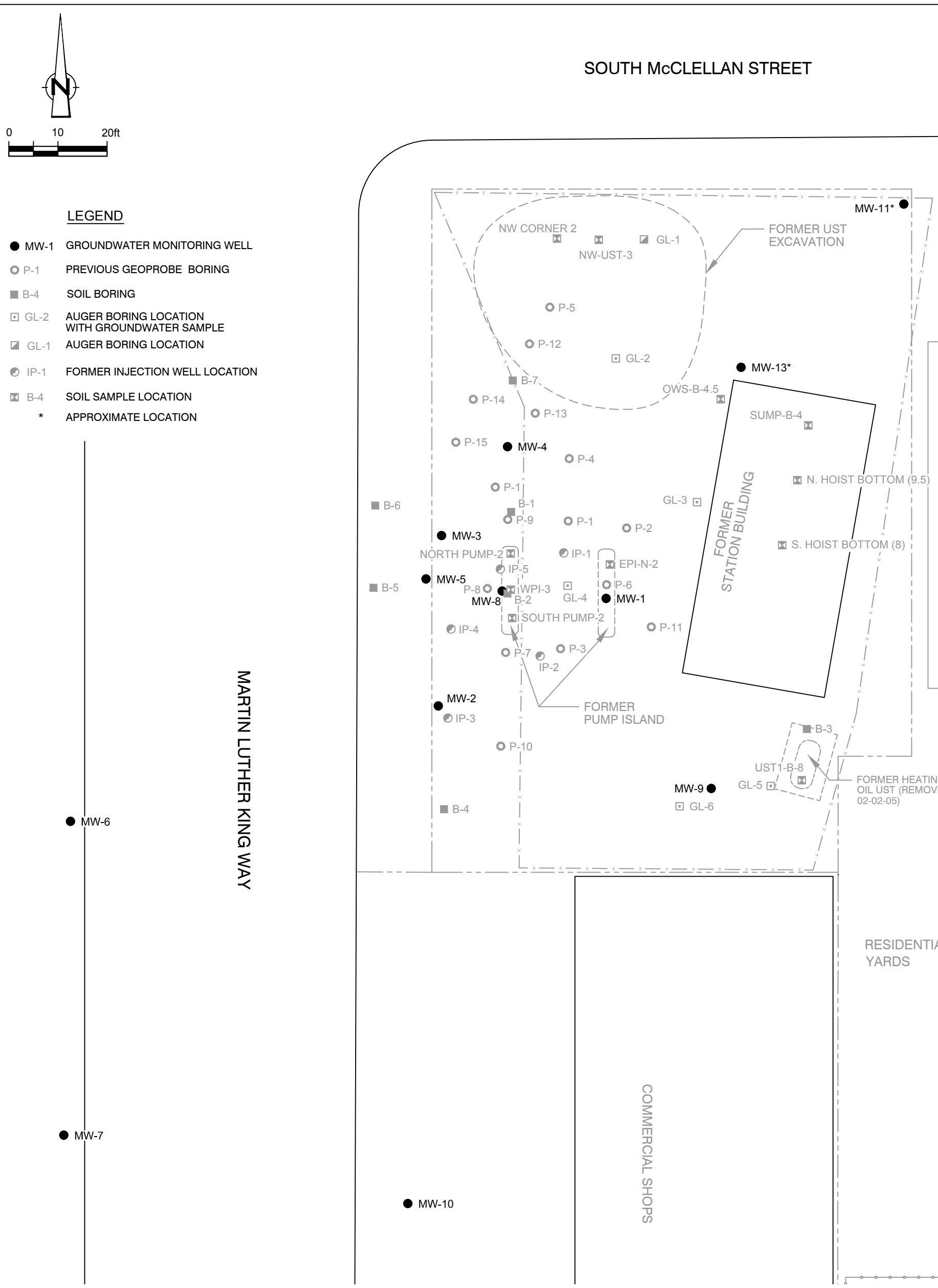


Figure 2

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

CRA

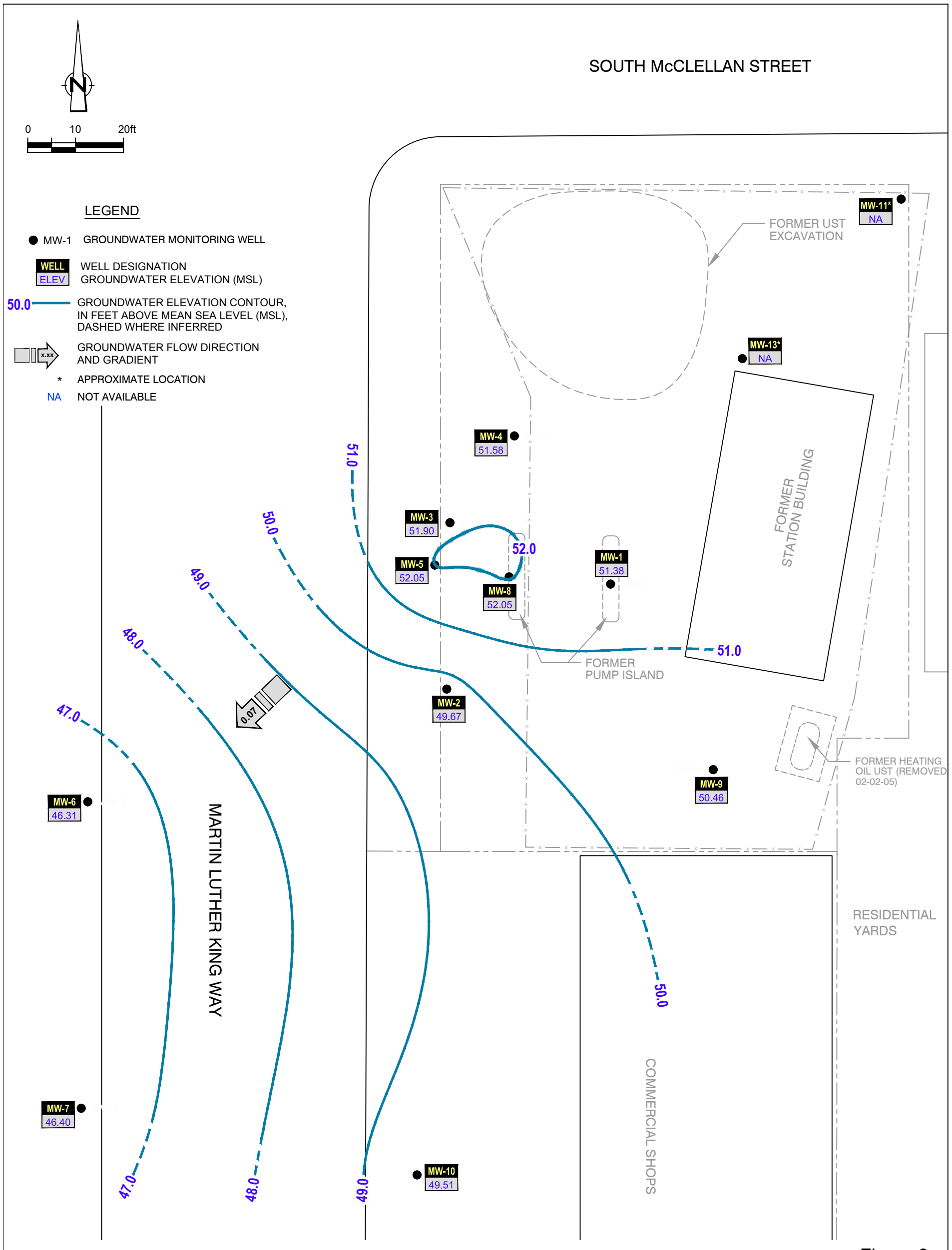
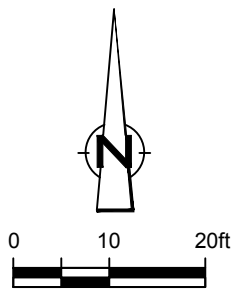


Figure 3

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
December 10, 2014

CRA

061992-95(012)GN-EM003 FEB 3/2015



LEGEND

- MW-1 — GROUNDWATER MONITORING WELL
- WELL — WELL DESIGNATION
- TPHg — TPHg CONCENTRATION (µg/L)
- TPHd — TPHd CONCENTRATION (µg/L)
- BENZ — BENZENE CONCENTRATION (µg/L)
- TOL — TOLUENE CONCENTRATION (µg/L)
- ETH — ETHYLBENZENE CONCENTRATION (µg/L)
- TOTAL — TOTAL XYLENES CONCENTRATION (µg/L)
- D — DUPLICATE
- J — ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT
- * — APPROXIMATE LOCATION

SOUTH McCLELLAN STREET

MW-11*
560
<28
<0.5
<0.5
<0.5
<0.5

FORMER UST EXCAVATION

MW-13*
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-4
<50 / <50 D
<29 / <29 D
<0.5 / <0.5 D
<0.5 / <0.5 D
<0.5 / <0.5 D
<0.5 / <0.5 D

MW-3
7,800
150
<1.0
<1.0
150
510

FORMER STATION BUILDING

MW-5
260
<29
<0.5
<0.5
0.8 J
5

MW-8
9,000
1,600
<1.0
<1.0
94
350

MW-1
<50
<29
<0.5
<0.5
<0.5
<0.5

MW-2
420
170
<0.5
<0.5
<0.5
<0.5

FORMER PUMP ISLAND

MW-9
81 J
56 J
<0.5
<0.5
<0.5
<0.5

FORMER HEATING OIL UST (REMOVED 02-02-05)

RESIDENTIAL YARDS

MARTIN LUTHER KING WAY

MW-6
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-7
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-10
140 J
140
1
<0.5
<0.5
2

COMMERCIAL SHOPS

Figure 4

GROUNDWATER CONCENTRATION MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
December 10-11, 2014

CRA

061992-95(012)GN-EM004 FEB 13/2015

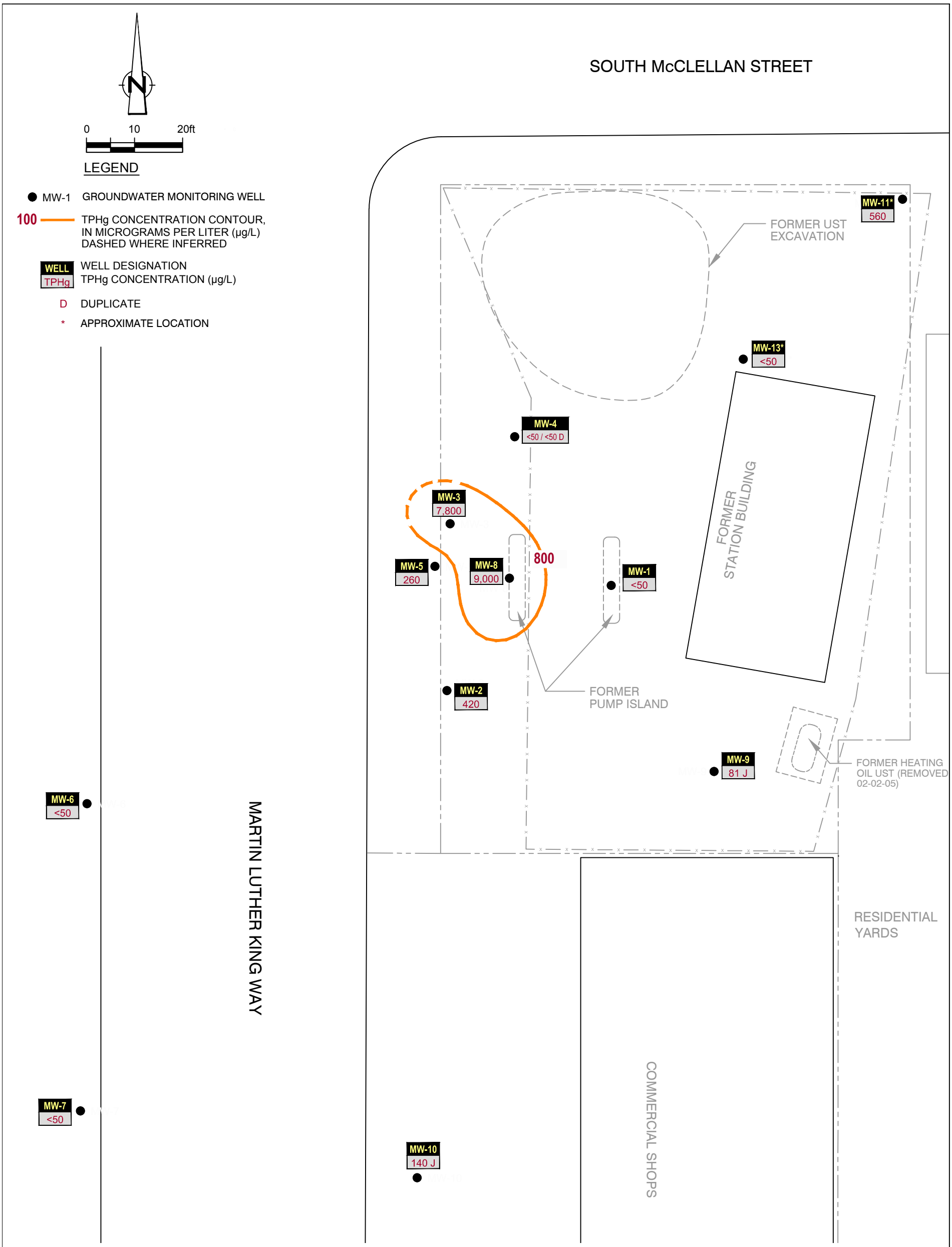


Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
December 10-11, 2014

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061992-95(012)GN-EM005 FEB 18/2015

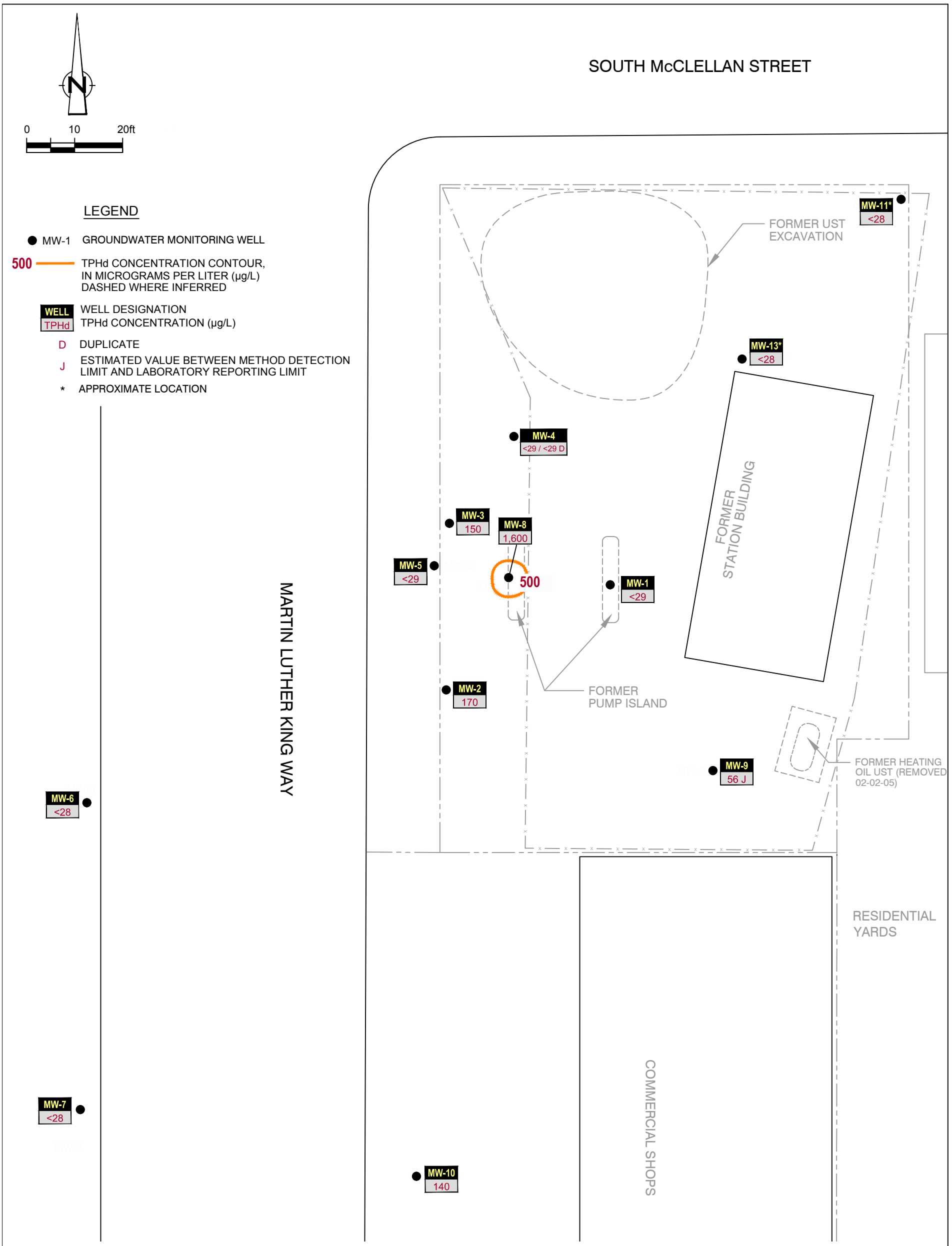

Figure 6

TPHd ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
December 10-11, 2014

CRA

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	-
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	-

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	**12/11/2014**	**62.35**	**10.97**	**51.38**	**<50**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.84 J**	**-**
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	-

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	08/29/2013	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	-
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	-
MW-2	**12/11/2014**	**60.72**	**11.05**	**49.67**	**420**	**170**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**21**	**11**	**0.93 J**	**-**
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	-	-	-	-	-	-	-	-	-	-

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	08/31/2011	61.81	12.10	49.71	7,400	370	<68	<1.0	<1	190	554	<2	<2	<1	67	1,300	330	140	47	-	-
MW-3	12/15/2011	61.81	11.38	50.43	5,400	<29	<67	<0.5	<0.7	120	400	<1	<1	<0.5	50	950	210	110	37	-	-
MW-3	02/06/2012	61.81	10.33	51.48	6,300	1,200	<68	<1	<1	130	523	<2	<2	<1	49	870	190	74	27	-	-
MW-3	05/30/2012	61.81	10.87	50.94	7,400	520	<66	<1	<1	160	660	<2	<2	<1	66	1,100	220	100	38	1.1	0.012868
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290[4]	<67[4]	<1	<1	140	610	<1	<1	<1	71	830	140	86	33	0.98	-
MW-3	12/06/2012	61.81	9.91	51.90	6,700	290[4]	<69[4]	<0.5	<0.5	160	480	<0.5	<0.5	<0.5	75	860	160	100	41	0.36	-
MW-3	02/27/2013	61.81	10.88	50.93	9,500	510[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	-
MW-3	**12/11/2014**	**61.81**	**9.91**	**51.90**	**7,800**	**150**	**<67**	**<1**	**<1**	**150**	**510**	**<1**	**<1**	**<1**	**69**	**1,200**	**100**	**110**	**44**	**0.45 J**	**-**
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

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	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	-
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	-
MW-4	**12/10/2014**	**62.75**	**11.17**	**51.58**	**<50**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.15 J**	**-**
MW-4 Dup	**12/10/2014**	**62.75**	**11.17**	**51.58**	**<50**	**<28**	**<65**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.12 J**	**-**
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

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-5	08/07/2012	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	-
MW-5	**12/11/2014**	**61.66**	**9.61**	**52.05**	**260**	**<29**	**<67**	**<0.5**	**<0.5**	**0.8 J**	**5**	**<0.5**	**<0.5**	**<0.5**	**1 J**	**6**	**2 J**	**4 J**	**2 J**	**1.3**	**-**
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	-
MW-6	**12/10/2014**	**58.03**	**11.72**	**46.31**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**20.5**	**-**

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-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	-
MW-7	**12/10/2014**	**56.96**	**10.56**	**46.40**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**35.6**	**-**
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	-

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	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	-
MW-8	**12/10/2014**	**61.71**	**9.66**	**52.05**	**9,000**	**1,600[6]**	**<66**	**<1**	**<1**	**94**	**350**	**<1**	**<1**	**<1**	**65**	**1,100**	**210**	**80**	**31**	**4.4**	**-**
MW-9	08/31/2011	62.58	14.29	48.29	<50	78	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	12/15/2011	62.58	13.01	49.57	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	02/06/2012	62.58	12.04	50.54	66	<300	<700[1]	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	05/30/2012	52.58	12.53	40.05	66	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.31	0.007248
MW-9	08/08/2012	62.58	13.37	49.21	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.87	-
MW-9	12/05/2012	62.58	12.05	50.53	<50	39[4]	<69[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.33	-
MW-9	02/26/2013[5]	62.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-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	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
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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	**12/10/2014**	**62.58**	**12.12**	**50.46**	**81 J**	**56 J**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**<0.082**	**-**
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	-
MW-10	**12/10/2014**	**58.96**	**9.45**	**49.51**	**140 J**	**140**	**<65**	**1**	**<0.5**	**<0.5**	**2**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**12**	**5**	**0.23 J**	**-**
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	-
MW-11	**12/10/2014**	**-**	**9.66**	**-**	**560**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.20 J**	**-**
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	-
MW-13	**12/10/2014**	**-**	**8.78**	**-**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.81 J**	**-**
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	-	-

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*
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	-	-
Trip Blank	**12/10/2014**	**-**	**-**	**-**	**<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

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

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*

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.

6 TPHd concentration may be due to overlap of TPHg during analysis

ATTACHMENT A

MONITORING DATA PACKAGE

WELL GAUGING DATA

Project # 141210-LB1 Date 12/10/14 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	0904	2					10.97	22.46		
MW-2	0851	2					11.05	21.31		
MW-3	0913	2					9.91	20.07		
MW-4	0909	2					11.17	18.97		
MW-5	0855	3/4					H: 9.61	19.18		
MW-6	0824	2					11.72	19.77		
MW-7	0828	2					10.56	19.78		
MW-8	0859	2					9.66	19.73		
MW-9	0847	2					12.12	23.53		
MW-10	0835	2					9.45	19.90		
MW-11	0839	2					9.66	19.41		
MW-13	0843	2					8.78	17.88		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 22.46	Depth to Water (ft.): 10.97
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: 1033 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.)
1036	14.01	6.56	461	18	1.27	-364	600	10.99
1039	14.09	6.52	460	16	1.23	-403	1200	10.99
1042	14.11	6.51	459	15	1.21	-416	1800	10.99
1045	14.12	6.50	458	14	1.20	-424	2400	10.99
1048	14.13	6.49	457	13	1.19	-438	3000	10.99

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

Sampling Time: 1049 Sampling Date: 12/11/14

Sample I.D.: GW-060199Z-121114-LB-MW-1 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 #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 21.31	Depth to Water (ft.): 11.05
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: 0833 Flow Rate: 200 mL/MIN Pump Depth: 16.5'

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.)
0836	15.26	6.47	437	21	1.63	77.4	600	11.08
0839	15.16	6.53	438	18	1.60	67.8	1200	11.08
0842	15.18	6.55	439	17	1.58	65.7	1800	11.08
0845	15.19	6.56	440	16	1.57	64.2	2400	11.08
0848	15.21	6.57	441	15	1.56	63.8	3000	11.08

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

Sampling Time: 0849 Sampling Date: 12/11/14

Sample I.D.: GW-061992-121114-LB-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 #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 20.07	Depth to Water (ft.): 9.91
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: 0948 Flow Rate: 200 mL/MIN Pump Depth: 15'

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.)
0951	14.30	6.47	409	18	0.95	-78.4	600	9.93
0954	14.49	6.46	408	16	0.91	-82.3	1200	9.93
0957	14.51	6.45	407	15	0.90	-84.6	1800	9.93
1000	14.53	6.46	408	14	0.89	-85.2	2400	9.93
1003	14.54	6.47	410	13	0.88	-86.4	3000	9.93

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

Sampling Time: 1004 Sampling Date: 12/11/14

Sample I.D.: GW-061992-121114-LB-MW-3 Laboratory: LANCASTER

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 1412 10-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 18.97	Depth to Water (ft.): 11.17
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: 1301 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.)
1304	15.36	6.48	613	25	1.21	-58.4	600	11.21
1307	15.48	6.51	616	21	1.17	-59.3	1200	11.21
1310	15.52	6.53	617	19	1.15	-62.4	1800	11.21
1313	15.51	6.54	618	18	1.14	-63.6	2400	11.21
1316	15.50	6.55	619	17	1.13	-64.5	3000	11.21

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

Sampling Time: 1317 Sampling Date: 12/10/14

Sample I.D.: GW-061992-121014-LB-MW-4 Laboratory: LANCASTER

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

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-061992-121014-LB-DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-5	Well Diameter (in.): 2 3 4 6 8 3/4
Total Well Depth (ft.): 19.18	Depth to Water (ft.): 9.61
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: 0911 Flow Rate: 200mL/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.)
0914	12.53	6.71	303	38	1.26	-30.4	600	9.65
0917	13.65	6.63	304	31	1.23	-32.6	1200	9.65
0920	13.67	6.61	305	29	1.21	-34.2	1800	9.65
0923	13.68	6.60	306	28	1.20	-35.6	2400	9.65
0926	13.69	6.58	305	27	1.19	-36.2	3000	9.65

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

Sampling Time: 0927 Sampling Date: 12/11/14

Sample I.D.: GW-061992-121114-LB-MW5 Laboratory: LANCASTER

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.77	Depth to Water (ft.): 11.72
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: 0924 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.)
0927	15.78	6.46	845	18	1.77	74.4	600	11.75
0930	15.87	6.52	830	17	1.72	72.4	1200	11.75
0933	15.85	6.51	829	15	1.70	68.9	1800	11.75
0936	15.84	6.56	828	14	1.69	67.3	2400	11.75
0939	15.83	6.57	826	13	1.68	66.8	3000	11.75

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 0940	Sampling Date: 12/10/14
Sample I.D.: GW-OG1992-121014-LB-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 #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.78	Depth to Water (ft.): 10.56
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: 0958 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.)
1001	14.80	6.52	660	32	1.79	55.2	600	10.58
1004	14.99	6.54	674	24	1.70	50.4	1200	10.58
1007	15.02	6.58	676	23	1.68	47.3	1800	10.58
1010	15.03	6.59	677	22	1.67	46.2	2400	10.58
1013	15.04	6.60	678	21	1.66	45.4	3000	10.58

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

Sampling Time: 1014 Sampling Date: 12/10/14

Sample I.D.: GW-061222-121014-LB-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 #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 19.73	Depth to Water (ft.): 9.66
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: 1351 Flow Rate: 200 mL/MIN Pump Depth: 15'

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.)
1354	15.24	6.42	607	23	0.93	-48.4	600	9.68
1357	15.29	6.41	609	18	0.90	-51.4	1200	9.68
1400	15.30	6.40	610	16	0.89	-53.6	1800	9.68
1403	15.32	6.42	611	15	0.89	-54.9	2400	9.68
1406	15.33	6.43	612	13	0.87	-55.3	3000	9.68

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1407	Sampling Date: 12/10/14
Sample I.D.: GW-OG19892-121014-LB-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 #: 141126-LBJ	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-9	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 23.53	Depth to Water (ft.): 12.12
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: 1115 Flow Rate: 200 mL/MIN Pump Depth: 18'

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.)
1118	14.76	7.18	636	25	1.75	46.3	600	12.15
1121	14.80	7.06	635	21	1.73	40.4	1200	12.18
1124	14.81	7.04	634	19	1.72	39.6	1800	12.15
1127	14.82	7.03	633	18	1.71	38.4	2400	12.15
1130	14.83	7.02	632	17	1.70	37.6	3000	12.15

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1131	Sampling Date: 12/10/14
Sample I.D.: GW-061992-121014-LB-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 #: 141210-LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-10	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.90	Depth to Water (ft.): 9.45
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: 1037 Flow Rate: 200 mL / MIN Pump Depth: 15'

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.)
1040	16.44	6.47	2144	14	1.48	15.7	600	9.48
1043	16.66	6.49	2143	13	1.45	14.3	1200	9.48
1046	16.63	6.50	2141	13	1.43	12.5	1800	9.48
1049	16.62	6.51	2140	12	1.42	11.8	2400	9.48
1052	16.61	6.52	2139	11	1.41	10.6	3000	9.48

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

Sampling Time: 1053 Sampling Date: 12/10/14

Sample I.D.: GW-061892-121014-LB-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 #: 141210 - LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-11	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.41	Depth to Water (ft.): 9.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: ____

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

Start Purge Time: 1153 Flow Rate: 200 mL/MIN Pump Depth: 15'

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.)
1156	16.23	7.12	467	24	1.34	76.3	600	9.69
1159	16.30	7.07	461	22	1.32	68.8	1200	9.69
1202	16.33	7.05	460	20	1.30	67.6	1800	9.69
1205	16.35	7.04	459	19	1.29	66.4	2400	9.69
1208	16.36	7.03	458	18	1.28	65.8	3000	9.69

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1209	Sampling Date: 12/10/14
Sample I.D.: GW-061992-121014-LB-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 #: 141210 - LB1	Client: CRA
Sampler: LB	Gauging Date: 12/10/14
Well I.D.: MW-13	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 17.88	Depth to Water (ft.): 8.78
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: 1228 Flow Rate: 200 ML/MIN Pump Depth: 13.5'

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.)
1231	15.53	6.46	654	32	1.61	47.6	600	8.81
1234	15.58	6.45	656	28	1.59	43.0	1200	8.81
1237	15.60	6.44	657	26	1.58	39.9	1800	8.81
1240	15.61	6.43	658	25	1.57	38.2	2400	8.81
1243	15.62	6.42	659	24	1.56	37.6	3000	8.81

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

Sampling Time: 1244 Sampling Date: 12/10/14

Sample I.D.: GW-061992-121014-LB-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: 12/10/14

Job # : 141210-LB1 Technician: L. Bures 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						3/3									
MW-2						2/3	1/3								
MW-3						3/3									
MW-4						2/2									
MW-5	Y														
MW-6	X														
MW-7	X														
MW-8						3/3									
MW-9	X														
MW-10	X														
MW-11	X														
MW-13	Y														

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	CRA @ Tidewater Seattle			PROJECT NUMBER	141210-4B1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	SEA #2	12/10/14 0600	PH 4.0 7.0 10.0	4.26 6.82 10.13	4.01 ✓ 7.00 ✓ 10.02 ✓	15.1	LB
			COND 3900	3824	3901 ✓	15.8	LB
			ORP 244	218.4%	244.3 ✓	15.5	LB
			DO 100%	78.4%	100.1% ✓	—	LB
YSI 556	SEA #2	12/11/14 0630	PH 4.0 7.0 10.0	4.03 698 10.00	—	15.4	LB
			COND 3900	3908	—	15.3	LB
			ORP 244	248.6	—	15.6	LB
			DO 100%	97.8%	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	12/10/14				
Number of drum(s) empty:	0	6				
Number of drum(s) 1/4 full:	0	0				
Number of drum(s) 1/2 full:	0	1				
Number of drum(s) 3/4 full:	0	0				
Number of drum(s) full:	10	10				
Total drum(s) on site:	10	11				
Are the drum(s) properly labeled?	YES	YES				
Drum ID & Contents:	NA	NA				
If any drum(s) are partially or totally filled, what is the first use date:	NA	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	12/11/14				
Number of drums empty:	0	6				
Number of drum(s) 1/4 full:	0	0				
Number of drum(s) 1/2 full:	1	6				
Number of drum(s) 3/4 full:	0	0				
Number of drum(s) full:	10	4				
Total drum(s) on site:	11	11				
Are the drum(s) properly labeled?	YES	YES				
Drum ID & Contents:	NA	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	0				
Date of inspection:	8/29/14	12/11/14				
Drum(s) labelled properly:	YES	YES				
Logged by BTS Field Tech:	LB	LB				
Office reviewed by:						

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # ______ Group # ______ Sample # ______
Instructions on reverse side correspond with circled numbers.

SCR #: ______

① Client Information

Facility #: P66 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.: Mathew Davis
Consultant Phone #: 253-507-6217
Sampler: Lee Rures

② Sample Identification / ③ / ④ Matrix / ⑤ Analyses Requested

Matrix: ☐ Sediment ☒ Ground ☐ Surface; Water: ☐ Potable ☐ NPDES; ☐ Air; ☐ Soil; ☐ Oil

BTEX + MTBE: ☐ 8021 ☐ 8260 ☐ Naphth; NWTPH DX ☐ Silica Gel Cleanup ☒ (6/20); Lead: Total ☒ Diss. ☐ Method ☐; WAVPH ☐ WAEPH ☐

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Lead	WAVPH	PAHs (8270C SIM)	EDB (8011)
GW-061992-121114-LB-MW-1	12/10/14	1049	X			X	11	11		X		X	X	X		X	X
GW-061992-121114-LB-MW-2	12/10/14	0849	X			X		11		X		X	X	X		X	X
GW-061992-121114-LB-MW-3	12/10/14	1004	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-4	12/10/14	1317	X			X		11		X		X	X	X		X	X
GW-061992-121114-LB-MW-5	12/10/14	0927	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-6	12/10/14	0940	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-7	12/10/14	1014	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-8	12/10/14	1407	X			X				X		X	X	X		X	X
GW-061992-121014-LB-MW-9	12/10/14	1131	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-10	12/10/14	1053	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-11	12/10/14	1209	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-13	12/10/14	1244	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-DUP	12/10/14	—	X			X		11		X		X	X	X		X	X

☐ 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

⑥ Remarks

MS/MSD for NWTPH-Gx, NWTPH-Dx, 8260 Full scan and EDB only

MS/MSD

⑦ Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

⑧ Data Package Options (please circle if required)

Type I - Full Type VI (Raw Data)

⑨

Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/11/14				

Relinquished by Commerical Carrier: UPS ______ FedEx ______ Other ______ | Received by | Date | Time

Temperature Upon Receipt ______ °C
Custody Seals Intact? Yes No

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 140
15575 SW Sequoia Parkway
Portland OR 97224

December 29, 2014

Project: 301233 Tidewater Seattle

Submittal Date: 12/13/2014
Group Number: 1525382
PO Number: 4071016
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
GW-061992-121114-LB-MW-1 Grab Groundwater	7711062
GW-061992-121114-LB-MW-2 Grab Groundwater	7711063
GW-061992-121114-LB-MW-3 Grab Groundwater	7711064
GW-061992-121014-LB-MW-4 Grab Groundwater	7711065
GW-061992-121114-LB-MW-5 Grab Groundwater	7711066
GW-061992-121014-LB-MW-6 Grab Groundwater	7711067
GW-061992-121014-LB-MW-7 Grab Groundwater	7711068
GW-061992-121014-LB-MW-8 Grab Groundwater	7711069
GW-061992-121014-LB-MW-8 MS Grab Groundwater	7711070
GW-061992-121014-LB-MW-8 MSD Grab Groundwater	7711071
GW-061992-121014-LB-MW-9 Grab Groundwater	7711072
GW-061992-121014-LB-MW-10 Grab Groundwater	7711073
GW-061992-121014-LB-MW-11 Grab Groundwater	7711074
GW-061992-121014-LB-MW-13 Grab Groundwater	7711075
GW-061992-121014-LB-DUP Grab Groundwater	7711076

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	CRA	Attn: Edwin Turner
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Jeffrey Cloud
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Matt Davis

ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	CRA	Attn: Chevron GWRT

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: GW-061992-121114-LB-MW-1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711062
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK01

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	20	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-061992-121114-LB-MW-1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711062
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK01

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	4		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	5		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	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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0096	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	0.84	J	0.082	1

Sample Description: GW-061992-121114-LB-MW-1 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711062
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK01

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.

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	Y143551AA	12/21/2014 12:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 12:54	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 20:23	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 04:48	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 04:48	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/21/2014 23:16	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 07:17	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:19	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121114-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711063
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 08:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK02

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	11		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	21		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-061992-121114-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711063
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 08:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK02

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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.013	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.093		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	420		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0096	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	0.93	J	0.082	1

Sample Description: GW-061992-121114-LB-MW-2 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711063
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 08:49 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK02

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.

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	Y143551AA	12/21/2014 13:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 13:15	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 20:51	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 05:16	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 05:16	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 00:04	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 08:44	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:21	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121114-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711064
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:04 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK03

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.		12	2
10335	Benzene	71-43-2	N.D.		1	2
10335	Bromobenzene	108-86-1	N.D.		2	2
10335	Bromochloromethane	74-97-5	N.D.		2	2
10335	Bromodichloromethane	75-27-4	N.D.		1	2
10335	Bromoform	75-25-2	N.D.		1	2
10335	Bromomethane	74-83-9	N.D.		1	2
10335	2-Butanone	78-93-3	N.D.		6	2
10335	n-Butylbenzene	104-51-8	10		2	2
10335	sec-Butylbenzene	135-98-8	9	J	2	2
10335	tert-Butylbenzene	98-06-6	N.D.		2	2
10335	Carbon Disulfide	75-15-0	N.D.		2	2
10335	Carbon Tetrachloride	56-23-5	N.D.		1	2
10335	Chlorobenzene	108-90-7	N.D.		1	2
10335	Chloroethane	75-00-3	N.D.		1	2
10335	Chloroform	67-66-3	N.D.		1	2
10335	Chloromethane	74-87-3	N.D.		1	2
10335	2-Chlorotoluene	95-49-8	N.D.		2	2
10335	4-Chlorotoluene	106-43-4	N.D.		2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		4	2
10335	Dibromochloromethane	124-48-1	N.D.		1	2
10335	1,2-Dibromoethane	106-93-4	N.D.		1	2
10335	Dibromomethane	74-95-3	N.D.		1	2
10335	1,2-Dichlorobenzene	95-50-1	N.D.		2	2
10335	1,3-Dichlorobenzene	541-73-1	N.D.		2	2
10335	1,4-Dichlorobenzene	106-46-7	N.D.		2	2
10335	Dichlorodifluoromethane	75-71-8	N.D.		1	2
10335	1,1-Dichloroethane	75-34-3	N.D.		1	2
10335	1,2-Dichloroethane	107-06-2	N.D.		1	2
10335	1,1-Dichloroethene	75-35-4	N.D.		1	2
10335	cis-1,2-Dichloroethene	156-59-2	2		1	2
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		1	2
10335	1,2-Dichloropropane	78-87-5	N.D.		1	2
10335	1,3-Dichloropropane	142-28-9	N.D.		1	2
10335	2,2-Dichloropropane	594-20-7	N.D.		1	2
10335	1,1-Dichloropropene	563-58-6	N.D.		2	2
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	2
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	2
10335	Ethylbenzene	100-41-4	150		1	2
10335	Hexachlorobutadiene	87-68-3	N.D.		4	2
10335	2-Hexanone	591-78-6	N.D.		6	2
10335	Isopropylbenzene	98-82-8	44		2	2
10335	p-Isopropyltoluene	99-87-6	4	J	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1	2
10335	4-Methyl-2-pentanone	108-10-1	N.D.		6	2
10335	Methylene Chloride	75-09-2	N.D.		4	2
10335	Naphthalene	91-20-3	69		2	2
10335	n-Propylbenzene	103-65-1	110		2	2
10335	Styrene	100-42-5	N.D.		2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	2

Sample Description: GW-061992-121114-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711064
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:04 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	2
10335	Tetrachloroethene	127-18-4	N.D.		1	2
10335	Toluene	108-88-3	N.D.		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		2	2
10335	1,1,1-Trichloroethane	71-55-6	N.D.		1	2
10335	1,1,2-Trichloroethane	79-00-5	N.D.		1	2
10335	Trichloroethene	79-01-6	N.D.		1	2
10335	Trichlorofluoromethane	75-69-4	N.D.		1	2
10335	1,2,3-Trichloropropane	96-18-4	N.D.		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	1,200		20	20
10335	1,3,5-Trimethylbenzene	108-67-8	100		2	2
10335	Vinyl Chloride	75-01-4	N.D.		1	2
10335	m+p-Xylene	179601-23-1	480		1	2
10335	o-Xylene	95-47-6	34		1	2
10335	Xylene (Total)	1330-20-7	510		1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	9.9		0.010	1
08357	2-Methylnaphthalene	91-57-6	7.2		0.010	1
08357	Naphthalene	91-20-3	53		1.5	50
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	7,800		500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0097	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	150		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.45	J	0.082	1

Sample Description: GW-061992-121114-LB-MW-3 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711064
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 10:04 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK03

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.

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	Y143551AA	12/21/2014 16:23	Jason M Long	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y143551AA	12/21/2014 16:44	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 16:23	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y143551AA	12/21/2014 16:44	Jason M Long	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 21:18	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 12:36	Catherine E Bachman	50
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 16:22	Miranda P Tillinghast	10
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 16:22	Miranda P Tillinghast	10
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 00:20	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 09:06	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:26	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711065
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 13:17 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK04

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-061992-121014-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711065
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 13:17 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK04

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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0096	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	0.15	J	0.082	1

Sample Description: GW-061992-121014-LB-MW-4 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711065
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 13:17 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK04

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.

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	Y143551AA	12/21/2014 13:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 13:36	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 21:46	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14355A20A	12/22/2014 20:38	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14355A20A	12/22/2014 20:38	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 00:36	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 07:39	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:28	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121114-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711066
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 09:27 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK05

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	0.8	J	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	2	J	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	1	J	1	1
10335	n-Propylbenzene	103-65-1	4	J	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-061992-121114-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711066
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 09:27 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK05

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	0.6	J	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	6		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	2	J	1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	4		0.5	1
10335	o-Xylene	95-47-6	0.7	J	0.5	1
10335	Xylene (Total)	1330-20-7	5		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.17		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.034	J	0.010	1
08357	Naphthalene	91-20-3	0.34		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	260		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0097	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	1.3		0.082	1

Sample Description: GW-061992-121114-LB-MW-5 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711066
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/11/2014 09:27 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK05

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.

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	Y143551AA	12/21/2014 13:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 13:57	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 22:14	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 08:54	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 08:54	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 00:52	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 08:00	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:30	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711067
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 09:40 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK06

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-061992-121014-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711067
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 09:40 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK06

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.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0098	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	20.5	0.082	1

Sample Description: GW-061992-121014-LB-MW-6 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711067
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 09:40 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK06

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.

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	Y143551AA	12/21/2014 14:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 14:18	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 22:41	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14355A20A	12/22/2014 21:05	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14355A20A	12/22/2014 21:05	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 01:08	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 09:27	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:32	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711068
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:14 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK07

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	7	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-061992-121014-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711068
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:14 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK07

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	2	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	3	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.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0098	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	35.6	0.082	1

Sample Description: GW-061992-121014-LB-MW-7 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711068
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:14 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK07

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.

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	Y143551AA	12/21/2014 14:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 14:39	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/26/2014 23:09	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14355A20A	12/22/2014 21:32	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14355A20A	12/22/2014 21:32	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 01:24	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143510040A	12/20/2014 08:22	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143510040A	12/18/2014 09:30	David S Schrum	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:33	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711069
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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.		12	2
10335	Benzene	71-43-2	N.D.		1	2
10335	Bromobenzene	108-86-1	N.D.		2	2
10335	Bromochloromethane	74-97-5	N.D.		2	2
10335	Bromodichloromethane	75-27-4	N.D.		1	2
10335	Bromoform	75-25-2	N.D.		1	2
10335	Bromomethane	74-83-9	N.D.		1	2
10335	2-Butanone	78-93-3	N.D.		6	2
10335	n-Butylbenzene	104-51-8	18		2	2
10335	sec-Butylbenzene	135-98-8	11		2	2
10335	tert-Butylbenzene	98-06-6	N.D.		2	2
10335	Carbon Disulfide	75-15-0	N.D.		2	2
10335	Carbon Tetrachloride	56-23-5	N.D.		1	2
10335	Chlorobenzene	108-90-7	N.D.		1	2
10335	Chloroethane	75-00-3	N.D.		1	2
10335	Chloroform	67-66-3	N.D.		1	2
10335	Chloromethane	74-87-3	N.D.		1	2
10335	2-Chlorotoluene	95-49-8	N.D.		2	2
10335	4-Chlorotoluene	106-43-4	N.D.		2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		4	2
10335	Dibromochloromethane	124-48-1	N.D.		1	2
10335	1,2-Dibromoethane	106-93-4	N.D.		1	2
10335	Dibromomethane	74-95-3	N.D.		1	2
10335	1,2-Dichlorobenzene	95-50-1	N.D.		2	2
10335	1,3-Dichlorobenzene	541-73-1	N.D.		2	2
10335	1,4-Dichlorobenzene	106-46-7	N.D.		2	2
10335	Dichlorodifluoromethane	75-71-8	N.D.		1	2
10335	1,1-Dichloroethane	75-34-3	N.D.		1	2
10335	1,2-Dichloroethane	107-06-2	N.D.		1	2
10335	1,1-Dichloroethene	75-35-4	N.D.		1	2
10335	cis-1,2-Dichloroethene	156-59-2	2	J	1	2
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		1	2
10335	1,2-Dichloropropane	78-87-5	N.D.		1	2
10335	1,3-Dichloropropane	142-28-9	N.D.		1	2
10335	2,2-Dichloropropane	594-20-7	N.D.		1	2
10335	1,1-Dichloropropene	563-58-6	N.D.		2	2
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	2
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	2
10335	Ethylbenzene	100-41-4	94		1	2
10335	Hexachlorobutadiene	87-68-3	N.D.		4	2
10335	2-Hexanone	591-78-6	N.D.		6	2
10335	Isopropylbenzene	98-82-8	31		2	2
10335	p-Isopropyltoluene	99-87-6	8	J	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1	2
10335	4-Methyl-2-pentanone	108-10-1	N.D.		6	2
10335	Methylene Chloride	75-09-2	N.D.		4	2
10335	Naphthalene	91-20-3	65		2	2
10335	n-Propylbenzene	103-65-1	80		2	2
10335	Styrene	100-42-5	N.D.		2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	2

Sample Description: GW-061992-121014-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711069
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	2
10335	Tetrachloroethene	127-18-4	N.D.	1	2
10335	Toluene	108-88-3	N.D.	1	2
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	2
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	2
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	2
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	2
10335	Trichloroethene	79-01-6	N.D.	1	2
10335	Trichlorofluoromethane	75-69-4	N.D.	1	2
10335	1,2,3-Trichloropropane	96-18-4	N.D.	2	2
10335	1,2,4-Trimethylbenzene	95-63-6	1,100	20	20
10335	1,3,5-Trimethylbenzene	108-67-8	210	2	2
10335	Vinyl Chloride	75-01-4	N.D.	1	2
10335	m+p-Xylene	179601-23-1	250	1	2
10335	o-Xylene	95-47-6	100	1	2
10335	Xylene (Total)	1330-20-7	350	1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.10	10
08357	Benzo(a)pyrene	50-32-8	N.D.	0.10	10
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.10	10
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.10	10
08357	Chrysene	218-01-9	N.D.	0.10	10
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.10	10
08357	1-Methylnaphthalene	90-12-0	22	0.10	10
08357	2-Methylnaphthalene	91-57-6	21	0.10	10
08357	Naphthalene	91-20-3	49	0.30	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	9,000	1,000	20
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0097	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,600	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	4.4	0.082	1

Sample Description: GW-061992-121014-LB-MW-8 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711069
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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.

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	Y143551AA	12/21/2014 11:30	Jason M Long	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y143551AA	12/21/2014 12:33	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 11:30	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y143551AA	12/21/2014 12:33	Jason M Long	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 13:03	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 14:59	Miranda P Tillinghast	20
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 14:59	Miranda P Tillinghast	20
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 01:40	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 18:45	Lisa A Reinert	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:59	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-8 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711070
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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	280	12	2
10335	Benzene	71-43-2	37	1	2
10335	Bromobenzene	108-86-1	38	2	2
10335	Bromochloromethane	74-97-5	39	2	2
10335	Bromodichloromethane	75-27-4	36	1	2
10335	Bromoform	75-25-2	30	1	2
10335	Bromomethane	74-83-9	29	1	2
10335	2-Butanone	78-93-3	300	6	2
10335	n-Butylbenzene	104-51-8	54	2	2
10335	sec-Butylbenzene	135-98-8	47	2	2
10335	tert-Butylbenzene	98-06-6	37	2	2
10335	Carbon Disulfide	75-15-0	25	2	2
10335	Carbon Tetrachloride	56-23-5	28	1	2
10335	Chlorobenzene	108-90-7	38	1	2
10335	Chloroethane	75-00-3	29	1	2
10335	Chloroform	67-66-3	38	1	2
10335	Chloromethane	74-87-3	39	1	2
10335	2-Chlorotoluene	95-49-8	37	2	2
10335	4-Chlorotoluene	106-43-4	37	2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	38	4	2
10335	Dibromochloromethane	124-48-1	35	1	2
10335	1,2-Dibromoethane	106-93-4	41	1	2
10335	Dibromomethane	74-95-3	39	1	2
10335	1,2-Dichlorobenzene	95-50-1	39	2	2
10335	1,3-Dichlorobenzene	541-73-1	38	2	2
10335	1,4-Dichlorobenzene	106-46-7	39	2	2
10335	Dichlorodifluoromethane	75-71-8	39	1	2
10335	1,1-Dichloroethane	75-34-3	33	1	2
10335	1,2-Dichloroethane	107-06-2	39	1	2
10335	1,1-Dichloroethene	75-35-4	28	1	2
10335	cis-1,2-Dichloroethene	156-59-2	39	1	2
10335	trans-1,2-Dichloroethene	156-60-5	33	1	2
10335	1,2-Dichloropropane	78-87-5	39	1	2
10335	1,3-Dichloropropane	142-28-9	40	1	2
10335	2,2-Dichloropropane	594-20-7	29	1	2
10335	1,1-Dichloropropene	563-58-6	33	2	2
10335	cis-1,3-Dichloropropene	10061-01-5	36	1	2
10335	trans-1,3-Dichloropropene	10061-02-6	35	1	2
10335	Ethylbenzene	100-41-4	130	1	2
10335	Hexachlorobutadiene	87-68-3	30	4	2
10335	2-Hexanone	591-78-6	200	6	2
10335	Isopropylbenzene	98-82-8	66	2	2
10335	p-Isopropyltoluene	99-87-6	45	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	38	1	2
10335	4-Methyl-2-pentanone	108-10-1	200	6	2
10335	Methylene Chloride	75-09-2	37	4	2
10335	Naphthalene	91-20-3	100	2	2
10335	n-Propylbenzene	103-65-1	110	2	2
10335	Styrene	100-42-5	41	2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	35	1	2

Sample Description: GW-061992-121014-LB-MW-8 MS Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711070
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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	40		1	2
10335	Tetrachloroethene	127-18-4	33		1	2
10335	Toluene	108-88-3	37		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	37		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	38		2	2
10335	1,1,1-Trichloroethane	71-55-6	27		1	2
10335	1,1,2-Trichloroethane	79-00-5	47		1	2
10335	Trichloroethene	79-01-6	36		1	2
10335	Trichlorofluoromethane	75-69-4	37		1	2
10335	1,2,3-Trichloropropane	96-18-4	39		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	770	E	2	2
10335	1,3,5-Trimethylbenzene	108-67-8	230		2	2
10335	Vinyl Chloride	75-01-4	40		1	2
10335	m+p-Xylene	179601-23-1	330		1	2
10335	o-Xylene	95-47-6	140		1	2
10335	Xylene (Total)	1330-20-7	460		1	2
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	35,000		1,000	20
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	3,800		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	81	J	66	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	Y143551AA	12/21/2014 11:51	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 11:51	Jason M Long	2
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 15:27	Miranda P Tillinghast	20
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 15:27	Miranda P Tillinghast	20
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 19:07	Lisa A Reinert	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1

Sample Description: GW-061992-121014-LB-MW-8 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711071
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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	280	12	2
10335	Benzene	71-43-2	36	1	2
10335	Bromobenzene	108-86-1	38	2	2
10335	Bromochloromethane	74-97-5	39	2	2
10335	Bromodichloromethane	75-27-4	36	1	2
10335	Bromoform	75-25-2	30	1	2
10335	Bromomethane	74-83-9	29	1	2
10335	2-Butanone	78-93-3	300	6	2
10335	n-Butylbenzene	104-51-8	53	2	2
10335	sec-Butylbenzene	135-98-8	48	2	2
10335	tert-Butylbenzene	98-06-6	36	2	2
10335	Carbon Disulfide	75-15-0	25	2	2
10335	Carbon Tetrachloride	56-23-5	28	1	2
10335	Chlorobenzene	108-90-7	37	1	2
10335	Chloroethane	75-00-3	28	1	2
10335	Chloroform	67-66-3	37	1	2
10335	Chloromethane	74-87-3	39	1	2
10335	2-Chlorotoluene	95-49-8	37	2	2
10335	4-Chlorotoluene	106-43-4	37	2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	38	4	2
10335	Dibromochloromethane	124-48-1	35	1	2
10335	1,2-Dibromoethane	106-93-4	40	1	2
10335	Dibromomethane	74-95-3	38	1	2
10335	1,2-Dichlorobenzene	95-50-1	39	2	2
10335	1,3-Dichlorobenzene	541-73-1	38	2	2
10335	1,4-Dichlorobenzene	106-46-7	39	2	2
10335	Dichlorodifluoromethane	75-71-8	38	1	2
10335	1,1-Dichloroethane	75-34-3	33	1	2
10335	1,2-Dichloroethane	107-06-2	38	1	2
10335	1,1-Dichloroethene	75-35-4	27	1	2
10335	cis-1,2-Dichloroethene	156-59-2	39	1	2
10335	trans-1,2-Dichloroethene	156-60-5	33	1	2
10335	1,2-Dichloropropane	78-87-5	39	1	2
10335	1,3-Dichloropropane	142-28-9	39	1	2
10335	2,2-Dichloropropane	594-20-7	29	1	2
10335	1,1-Dichloropropene	563-58-6	33	2	2
10335	cis-1,3-Dichloropropene	10061-01-5	35	1	2
10335	trans-1,3-Dichloropropene	10061-02-6	35	1	2
10335	Ethylbenzene	100-41-4	130	1	2
10335	Hexachlorobutadiene	87-68-3	31	4	2
10335	2-Hexanone	591-78-6	200	6	2
10335	Isopropylbenzene	98-82-8	66	2	2
10335	p-Isopropyltoluene	99-87-6	44	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	38	1	2
10335	4-Methyl-2-pentanone	108-10-1	200	6	2
10335	Methylene Chloride	75-09-2	36	4	2
10335	Naphthalene	91-20-3	100	2	2
10335	n-Propylbenzene	103-65-1	110	2	2
10335	Styrene	100-42-5	41	2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	34	1	2

Sample Description: GW-061992-121014-LB-MW-8 MSD Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711071
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 14:07 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK08

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	40		1	2
10335	Tetrachloroethene	127-18-4	33		1	2
10335	Toluene	108-88-3	37		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	37		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	38		2	2
10335	1,1,1-Trichloroethane	71-55-6	27		1	2
10335	1,1,2-Trichloroethane	79-00-5	46		1	2
10335	Trichloroethene	79-01-6	36		1	2
10335	Trichlorofluoromethane	75-69-4	37		1	2
10335	1,2,3-Trichloropropane	96-18-4	40		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	780	E	2	2
10335	1,3,5-Trimethylbenzene	108-67-8	230		2	2
10335	Vinyl Chloride	75-01-4	39		1	2
10335	m+p-Xylene	179601-23-1	320		1	2
10335	o-Xylene	95-47-6	130		1	2
10335	Xylene (Total)	1330-20-7	450		1	2
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	35,000		1,000	20
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	1,400		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	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	Y143551AA	12/21/2014 12:12	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 12:12	Jason M Long	2
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 15:54	Miranda P Tillinghast	20
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 15:54	Miranda P Tillinghast	20
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 19:28	Lisa A Reinert	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1

Sample Description: GW-061992-121014-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711072
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 11:31 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK09

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	0.7	J	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	120		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	0.7	J	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-061992-121014-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711072
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 11:31 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK09

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	140		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	87		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	13		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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.026	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	81	J	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0097	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.	56	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	N.D.		0.082	1

Sample Description: GW-061992-121014-LB-MW-9 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711072
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 11:31 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK09

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.

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	Y143551AA	12/21/2014 15:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 15:00	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 00:04	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 05:43	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 05:43	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 01:55	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 16:57	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:35	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711073
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:53 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	1		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	5		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	12		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-061992-121014-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711073
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:53 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	10		0.5	1
10335	m+p-Xylene	179601-23-1	2		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	2		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.46		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.19		0.010	1
08357	Naphthalene	91-20-3	0.16		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	140	J	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0097	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.	140		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		65	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.23	J	0.082	1

Sample Description: GW-061992-121014-LB-MW-10 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711073
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 10:53 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK10

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.

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	Y143551AA	12/21/2014 15:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 15:21	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 00:32	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 06:10	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 06:10	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 02:12	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 18:24	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:37	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711074
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:09 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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-061992-121014-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711074
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:09 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	37		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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.017	J	0.010	1
08357	Naphthalene	91-20-3	0.031	J	0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	560		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0096	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	0.20	J	0.082	1

Sample Description: GW-061992-121014-LB-MW-11 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711074
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:09 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK11

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.

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	Y143551AA	12/21/2014 17:05	Jason M Long	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y143551AA	12/21/2014 17:26	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 17:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y143551AA	12/21/2014 17:26	Jason M Long	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 01:00	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 06:38	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 06:38	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 02:27	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 17:19	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:08	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711075
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:44 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	39	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-061992-121014-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711075
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:44 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	1		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	26		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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0097	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	0.81	J	0.082	1

Sample Description: GW-061992-121014-LB-MW-13 Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711075
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 12:44 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLK13

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.

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	Y143551AA	12/21/2014 15:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 15:41	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 01:27	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 07:32	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 07:32	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 03:15	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 18:02	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:39	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Sample Description: GW-061992-121014-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711076
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	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-061992-121014-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711076
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

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	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.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0098	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.		65	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.12	J	0.082	1

Sample Description: GW-061992-121014-LB-DUP Grab Groundwater
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7711076
LL Group # 1525382
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 12/10/2014 by LB

Submitted: 12/13/2014 09:30
Reported: 12/29/2014 10:48

Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MLKFD

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.

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	Y143551AA	12/21/2014 16:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y143551AA	12/21/2014 16:02	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14350WAO026	12/27/2014 01:55	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14350WAO026	12/17/2014 09:30	Jessica M Velez	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14356A20A	12/23/2014 08:00	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14356A20A	12/23/2014 08:00	Miranda P Tillinghast	1
10398	EDB by 8011	SW-846 8011	1	143520034A	12/22/2014 03:31	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	143520034A	12/21/2014 11:30	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	143520046A	12/20/2014 17:41	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	143520046A	12/19/2014 14:50	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	143566050005A	12/24/2014 04:41	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	143566050005	12/23/2014 09:14	Micaela L Dishong	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1525382
Reported: 12/29/14 at 10:48 AM

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: Y143551AA	Sample number(s): 7711062-7711076							
Acetone	N.D.	6.	ug/l	93		55-129		
Benzene	N.D.	0.5	ug/l	100		78-120		
Bromobenzene	N.D.	1.	ug/l	99		80-120		
Bromochloromethane	N.D.	1.	ug/l	97		80-121		
Bromodichloromethane	N.D.	0.5	ug/l	90		73-120		
Bromoform	N.D.	0.5	ug/l	78		61-120		
Bromomethane	N.D.	0.5	ug/l	75		53-130		
2-Butanone	N.D.	3.	ug/l	99		54-133		
n-Butylbenzene	N.D.	1.	ug/l	105		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	108		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	104		80-120		
Carbon Disulfide	N.D.	1.	ug/l	78		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	90		74-130		
Chlorobenzene	N.D.	0.5	ug/l	101		80-120		
Chloroethane	N.D.	0.5	ug/l	67		56-120		
Chloroform	N.D.	0.5	ug/l	98		80-122		
Chloromethane	N.D.	0.5	ug/l	100		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	101		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	100		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	88		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	92		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	102		80-120		
Dibromomethane	N.D.	0.5	ug/l	97		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	101		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	103		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	95		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	95		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		65-135		
1,1-Dichloroethene	N.D.	0.5	ug/l	90		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	98		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	100		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	87		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	102		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	92		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	91		76-120		
Ethylbenzene	N.D.	0.5	ug/l	101		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	90		51-125		
2-Hexanone	N.D.	3.	ug/l	99		57-127		
Isopropylbenzene	N.D.	1.	ug/l	104		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	104		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: 1525382
Reported: 12/29/14 at 10:48 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	98		51-124		
Methylene Chloride	N.D.	2.	ug/l	96		80-120		
Naphthalene	N.D.	1.	ug/l	98		47-126		
n-Propylbenzene	N.D.	1.	ug/l	106		80-120		
Styrene	N.D.	1.	ug/l	101		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	93		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	99		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	99		80-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	93		68-123		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	97		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	82		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	101		80-120		
Trichloroethene	N.D.	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	95		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	99		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	105		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	105		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	100		63-120		
m+p-Xylene	N.D.	0.5	ug/l	103		80-120		
o-Xylene	N.D.	0.5	ug/l	101		80-120		
Xylene (Total)	N.D.	0.5	ug/l	102		80-120		
Batch number: 14350WAO026	Sample number(s): 7711062-7711069,7711072-7711076							
Benzo(a)anthracene	N.D.	0.010	ug/l	96	98	79-122	2	30
Benzo(a)pyrene	N.D.	0.010	ug/l	97	100	72-126	3	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	106	109	79-136	3	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	99	104	72-129	4	30
Chrysene	N.D.	0.010	ug/l	103	104	77-122	1	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	81	87	42-143	6	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	83	87	53-136	5	30
1-Methylnaphthalene	N.D.	0.010	ug/l	103	102	75-117	1	30
2-Methylnaphthalene	N.D.	0.010	ug/l	99	98	68-124	1	30
Naphthalene	N.D.	0.030	ug/l	94	93	78-117	1	30
Batch number: 14355A20A	Sample number(s): 7711065,7711067-7711068							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	102	102	75-135	0	30
Batch number: 14356A20A	Sample number(s): 7711062-7711064,7711066,7711069-7711076							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	103		75-135		
Batch number: 143520034A	Sample number(s): 7711062-7711069,7711072-7711076							
Ethylene dibromide	N.D.	0.010	ug/l	114	106	60-140	7	20
Batch number: 143510040A	Sample number(s): 7711062-7711068							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	82	78	32-117	4	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 143520046A	Sample number(s): 7711069-7711076							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	68		32-117		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 143566050005A	Sample number(s): 7711062-7711069,7711072-7711076							
Lead	N.D.	0.082	ug/l	106		80-120		

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1525382
Reported: 12/29/14 at 10:48 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y143551AA	Sample number(s): 7711062-7711076 UNSPK: 7711069								
Acetone	94	92	35-144	2	30				
Benzene	91	91	72-134	1	30				
Bromobenzene	94	94	82-115	0	30				
Bromochloromethane	97	97	76-134	0	30				
Bromodichloromethane	90	91	73-125	1	30				
Bromoform	76	74	48-118	2	30				
Bromomethane	72	72	47-129	0	30				
2-Butanone	100	98	44-135	2	30				
n-Butylbenzene	89	88	74-134	1	30				
sec-Butylbenzene	90	90	74-137	1	30				
tert-Butylbenzene	91	91	81-121	1	30				
Carbon Disulfide	63	63	53-149	0	30				
Carbon Tetrachloride	70*	69*	75-148	2	30				
Chlorobenzene	96	93	87-124	3	30				
Chloroethane	72	71	55-130	2	30				
Chloroform	96	94	81-134	2	30				
Chloromethane	97	97	61-125	1	30				
2-Chlorotoluene	92	92	82-118	0	30				
4-Chlorotoluene	93	93	84-122	0	30				
1,2-Dibromo-3-chloropropane	94	94	50-123	0	30				
Dibromochloromethane	89	87	74-116	2	30				
1,2-Dibromoethane	103	101	77-116	2	30				
Dibromomethane	96	95	83-119	1	30				
1,2-Dichlorobenzene	99	99	84-119	0	30				
1,3-Dichlorobenzene	95	95	86-121	1	30				
1,4-Dichlorobenzene	98	97	85-121	1	30				
Dichlorodifluoromethane	97	96	58-156	1	30				
1,1-Dichloroethane	83*	83*	84-129	0	30				
1,2-Dichloroethane	98	96	63-142	2	30				
1,1-Dichloroethene	69*	68*	79-137	1	30				
cis-1,2-Dichloroethene	92	92	80-141	0	30				
trans-1,2-Dichloroethene	83*	83*	86-131	0	30				
1,2-Dichloropropane	97	96	83-124	1	30				
1,3-Dichloropropane	99	98	81-120	1	30				
2,2-Dichloropropane	71	71	69-135	0	30				
1,1-Dichloropropene	83*	82*	86-137	1	30				
cis-1,3-Dichloropropene	89	88	70-116	2	30				
trans-1,3-Dichloropropene	88	88	74-119	0	30				
Ethylbenzene	88	84	71-134	1	30				
Hexachlorobutadiene	75	77	56-134	4	30				
2-Hexanone	102	100	38-131	2	30				
Isopropylbenzene	89	87	75-128	1	30				
p-Isopropyltoluene	91	90	76-123	1	30				
Methyl Tertiary Butyl Ether	95	95	72-126	0	30				
4-Methyl-2-pentanone	100	99	45-128	1	30				
Methylene Chloride	92	91	78-133	1	30				
Naphthalene	96	96	52-125	0	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: 1525382
Reported: 12/29/14 at 10:48 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
n-Propylbenzene	83	84	74-134	0	30				
Styrene	103	102	78-125	1	30				
1,1,1,2-Tetrachloroethane	88	86	80-123	2	30				
1,1,2,2-Tetrachloroethane	100	99	72-128	1	30				
Tetrachloroethene	83	82	80-128	2	30				
Toluene	92	92	80-125	1	30				
1,2,3-Trichlorobenzene	92	92	62-133	0	30				
1,2,4-Trichlorobenzene	95	95	56-137	0	30				
1,1,1-Trichloroethane	68*	67*	69-140	1	30				
1,1,2-Trichloroethane	118	115	71-141	3	30				
Trichloroethene	91	89	88-133	2	30				
Trichlorofluoromethane	94	92	63-163	1	30				
1,2,3-Trichloropropane	98	99	76-118	1	30				
1,2,4-Trimethylbenzene	-27 (2)	-17 (2)	72-130	1	30				
1,3,5-Trimethylbenzene	57 (2)	58 (2)	65-132	0	30				
Vinyl Chloride	100	98	66-133	1	30				
m+p-Xylene	93	85	79-125	2	30				
o-Xylene	85	82	79-125	1	30				
Xylene (Total)	90	84	79-125	2	30				
Batch number: 14356A20A	Sample number(s): 7711062-7711064,7711066,7711069-7711076 UNSPK: 7711069								
NWTPH-Gx water C7-C12	118	118	75-135	0	30				
Batch number: 143520034A	Sample number(s): 7711062-7711069,7711072-7711076 UNSPK: P714444 BKG: P714445								
Ethylene dibromide	107		60-140			N.D.	N.D.	0 (1)	30
Batch number: 143520046A	Sample number(s): 7711069-7711076 UNSPK: 7711069								
DRO C12-C24 w/Si Gel	142*	-14*	48-115	93*	20				
Batch number: 143566050005A	Sample number(s): 7711062-7711069,7711072-7711076 UNSPK: 7711074 BKG: 7711074								
Lead	104	104	75-125	0	20	0.20 J	0.20 J	0 (1)	20

Surrogate Quality Control

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

Analysis Name: 8260 Solvent Compound - Water
Batch number: Y143551AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7711062	97	99	100	98
7711063	97	100	100	101
7711064	96	98	100	100
7711065	96	98	100	99
7711066	97	99	100	98
7711067	97	99	99	98
7711068	97	99	100	98
7711069	98	101	100	102
7711070	97	100	100	103

*- 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: 1525382
Reported: 12/29/14 at 10:48 AM

Surrogate Quality Control

7711071	97	99	100	102
7711072	97	99	99	98
7711073	98	100	100	98
7711074	97	99	99	97
7711075	97	99	100	98
7711076	97	100	100	98
Blank	97	99	99	98
LCS	96	99	100	99
MS	97	100	100	103
MSD	97	99	100	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 14350WAO026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7711062	97	87	89
7711063	91	76	94
7711064	96	108	104
7711065	94	86	90
7711066	95	93	87
7711067	88	85	91
7711068	83	67	82
7711069	84	59	98
7711072	93	101	92
7711073	88	94	93
7711074	99	101	92
7711075	96	85	95
7711076	94	73	88
Blank	90	89	86
LCS	98	106	95
LCSD	99	110	94
Limits:	56-134	36-156	59-132

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14355A20A

	Trifluorotoluene-F
7711065	88
7711067	82
7711068	87
Blank	89
LCS	94
LCSD	93
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14356A20A

	Trifluorotoluene-F
7711062	90
7711063	88
7711064	92
7711066	90
7711069	88
7711070	94
7711071	97

*- 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: 1525382
Reported: 12/29/14 at 10:48 AM

Surrogate Quality Control

7711072	89
7711073	90
7711074	89
7711075	88
7711076	89
Blank	89
LCS	96
MS	94
MSD	97
Limits:	63-135

Analysis Name: EDB by 8011
Batch number: 143520034A

	1,1,2,2-Tetrachloroethane
7711062	109
7711063	103
7711064	105
7711065	105
7711066	102
7711067	108
7711068	97
7711069	102
7711072	99
7711073	103
7711074	103
7711075	104
7711076	109
Blank	100
DUP	97
LCS	116
LCSD	109
MS	102
Limits:	46-136

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 143510040A

	Orthoterphenyl
7711062	100
7711063	106
7711064	107
7711065	102
7711066	95
7711067	109
7711068	102
Blank	96
LCS	112
LCSD	109
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 143520046A

	Orthoterphenyl
7711069	85
7711070	61

*- 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: 1525382
Reported: 12/29/14 at 10:48 AM

Surrogate Quality Control

7711071	81
7711072	93
7711073	95
7711074	84
7711075	91
7711076	91
Blank	88
LCS	89
MS	61
MSD	81
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 13534 Group # 1525382 Sample # 7711062-76
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #: P6605173 / 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.: Mathew Davis
Consultant Phone #: 253-507-6217
Sampler: Lee Bures

4 Matrix: Sediment ☐ Ground ☒ Surface ☐ / Potable ☐ NPDES ☐ / Air ☐ / Soil ☐ / Water / Oil

5 Analyses Requested: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐; 8260 full scan; Oxygenates; NWTPH GX; NWTPH DX ☐ Silica Gel Cleanup ☒ 6020; Lead Total ☒ Diss. ☐ Method 6020; WAVPH ☐ WAEPH ☐; PAHs (8270C SIM); EDB (8011)

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	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Lead	WAVPH	PAHs (8270C SIM)	EDB (8011)
GW-061992-121114-LB-MW-1	12/11/14	1049	X			X	11	11		X		X	X	X		X	X
GW-061992-121114-LB-MW-2	12/11/14	0849	X			X		11		X		X	X	X		X	X
GW-061992-121114-LB-MW-3	12/11/14	1004	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-4	12/10/14	1317	X			X		11		X		X	X	X		X	X
GW-061992-121114-LB-MW-5	12/11/14	0927	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-6	12/10/14	0940	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-7	12/10/14	1014	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-8	12/10/14	1407	X			X				X		X	X	X		X	X
GW-061992-121014-LB-MW-9	12/10/14	1131	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-10	12/10/14	1053	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-11	12/10/14	1209	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-MW-13	12/10/14	1244	X			X		11		X		X	X	X		X	X
GW-061992-121014-LB-DUP	12/10/14	—	X			X		11		X		X	X	X		X	X

6 Remarks

MS/MSD for NWTPH-Gx, NWTPH-Dx, 8260 Full scan and EDB only

MS/MSD

7 Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

8 Data Package Options (please circle if required)

Type I - Full Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/11/14		[signature]	12/12/14	17:00
Relinquished by			Received by		
Relinquished by Commerical Carrier: UPS X FedEx ____ Other ______			Received by [signature]	12/13/14	930

Temperature Upon Receipt 0.1-0.8 °C

Custody Seals Intact? (Yes) No

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		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	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.