CONESTOGA-ROVERS & ASSOCIATES

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June 16, 2015 Reference No. 061992

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

Re: First Quarter 2015 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 *First Quarter 2015 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 FIRST QUARTER 2015 EVENT

On March 12 and 13, 2015, 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 — 0.05
- Approximate Depth to Water — 9 to 13 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	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-2	360	330	<67	<0.5	<0.5	<0.5	<0.5
MW-3	**7,700**	310	<67	<1	<1	160	360
MW-3 (DUP)	**7,500**	240	<66	<0.5	0.8 J	190	420
MW-4	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-5	670	170	<66	<0.5	<0.5	5	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	**9,300**	**790**[a]	<66	<1	<1	92	390
MW-9	60 J	86 J	<67	<0.5	<0.5	<0.5	<0.5
MW-10	99 J	100	<67	0.5 J	<0.5	<0.5	0.6 J
MW-11	480[b]	<29	<67	<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 ≥ the Method Detection Limit (MDL) and the < Limit of Quantitation (LOQ)
a	Elevated TPHd concentration may be due to overlap of TPHg during analysis
b	The presence of TPHg may be due to PCE eluting within the gasoline range 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 second quarter 2015 event will be performed in May 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. A RI/FS report is in progress.

CONESTOGA-ROVERS & ASSOCIATES

June 16, 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/13
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

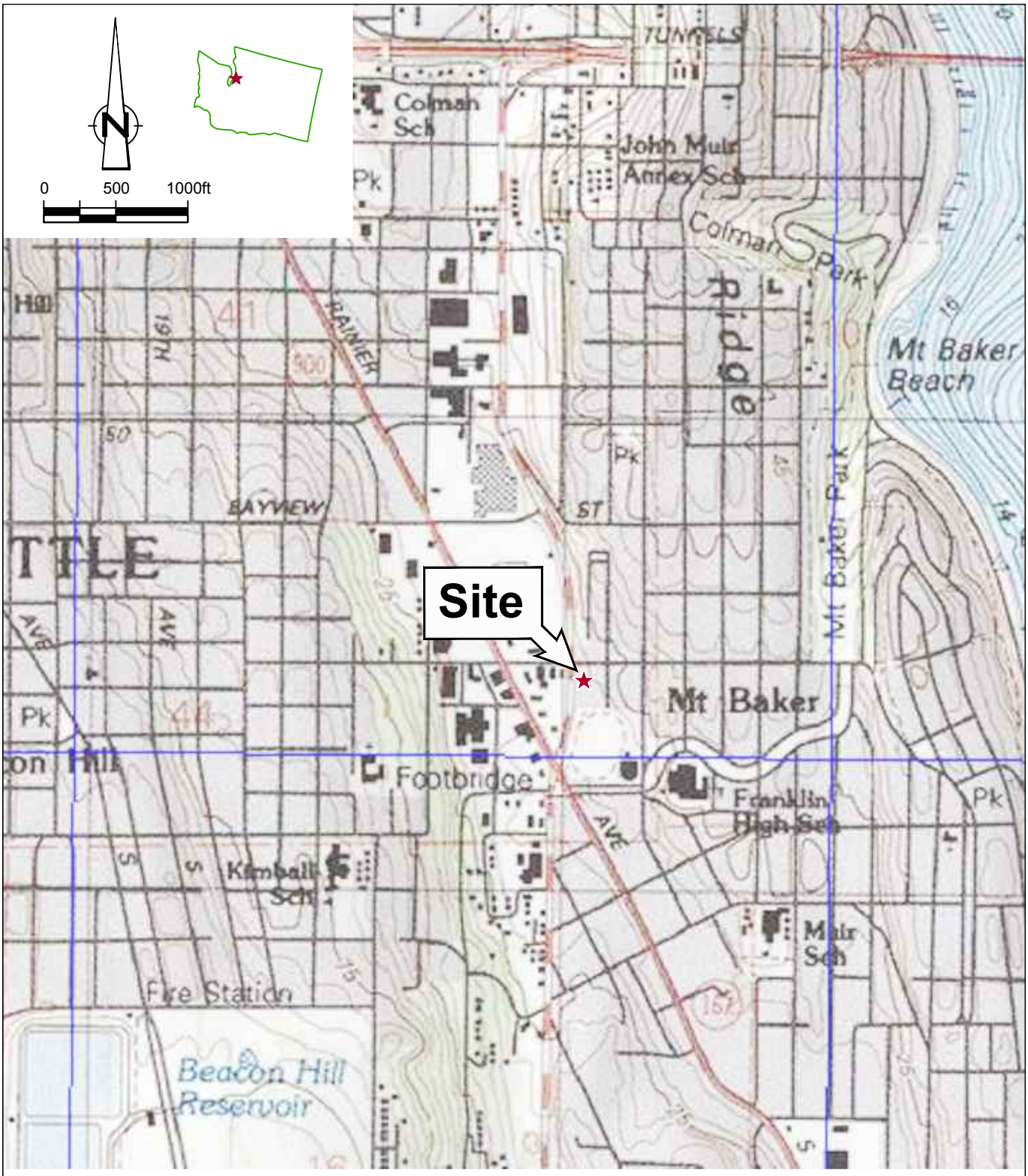


Figure 1

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

061992-95(013)GN-EM001 APR 21/2015

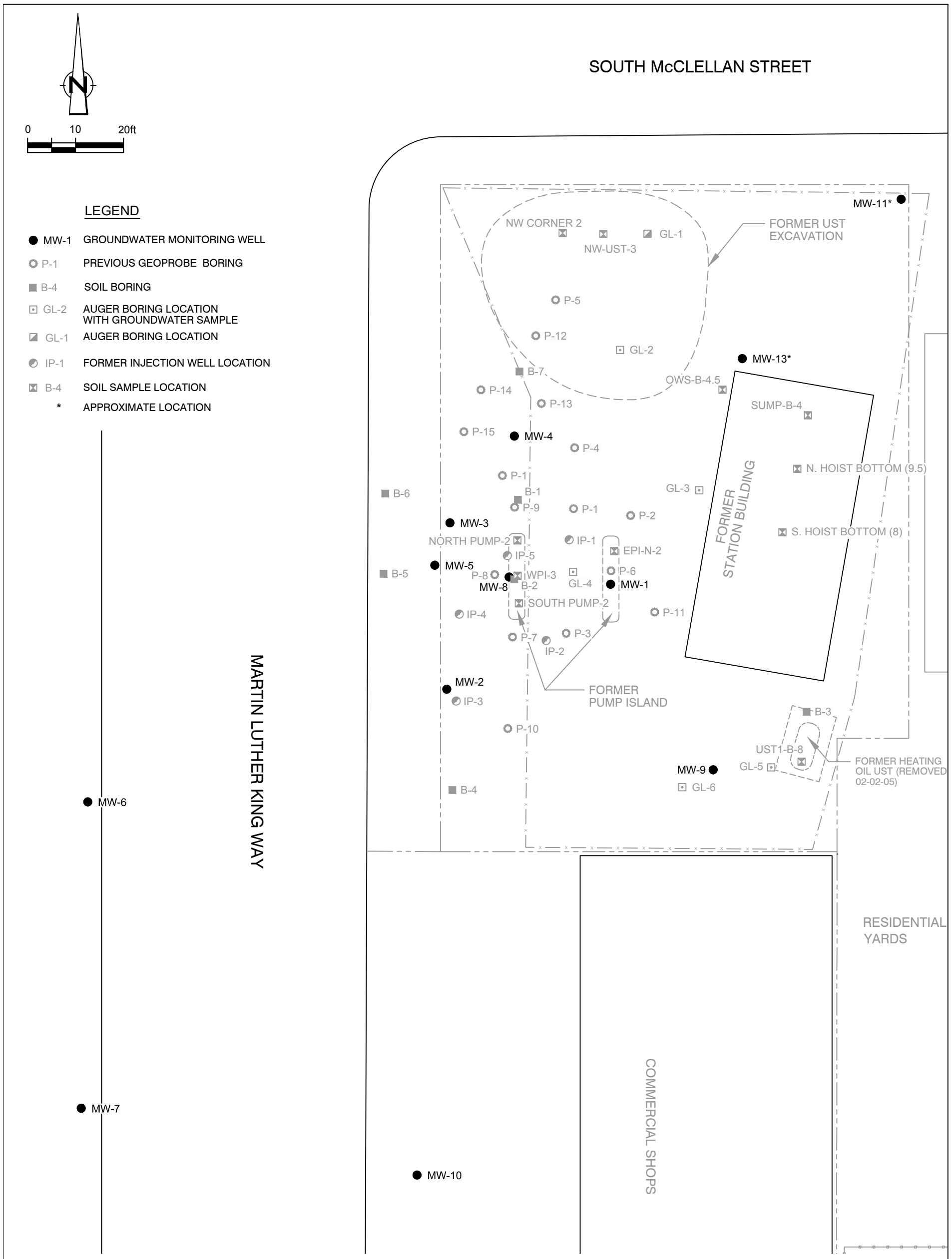


Figure 2

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

CRA

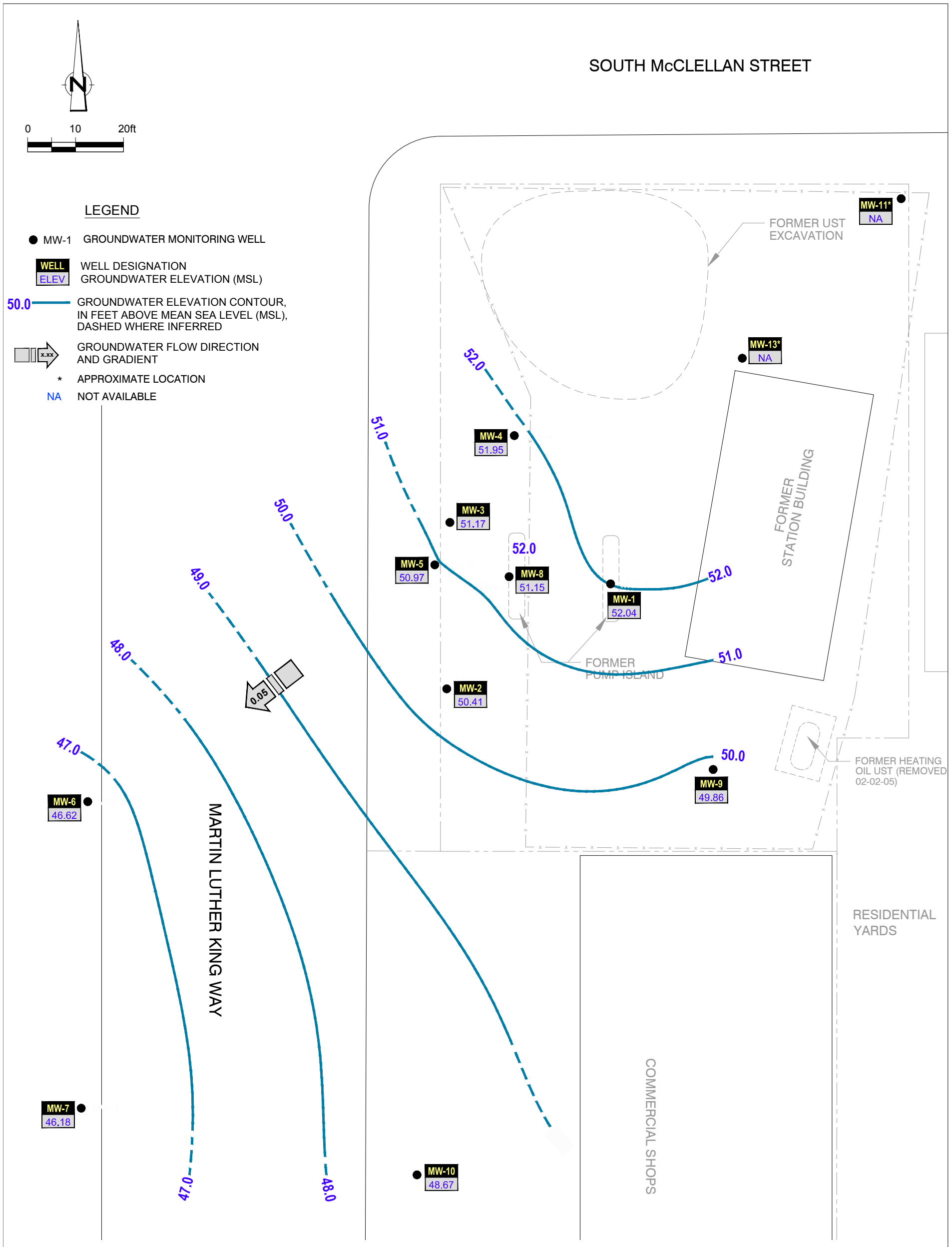
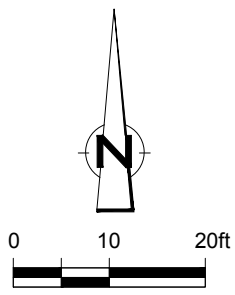


Figure 3

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
March 12, 2015

CRA



LEGEND

- ● MW-1 — GROUNDWATER MONITORING WELL
- WELL / TPHg / TPHd / BENZ / TOL / ETH / TOTAL — WELL DESIGNATION; TPHg CONCENTRATION (µg/L); TPHd CONCENTRATION (µg/L); BENZENE CONCENTRATION (µg/L); TOLUENE CONCENTRATION (µg/L); ETHYLBENZENE CONCENTRATION (µg/L); 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*
480
<29
<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
<28
<0.5
<0.5
<0.5
<0.5

MW-3
7,700 / 7,500 D
310 / 240 D
<1.0 / <0.5 D
<1.0 / 0.8 J
160 / 190
360 / 420

FORMER STATION BUILDING

MW-5
670
170
<0.5
<0.5
5
5

MW-8
9,300
790
<1.0
<1.0
92
390

MW-1
<50
<28
<0.5
<0.5
<0.5
<0.5

FORMER PUMP ISLAND

MW-2
360
330
<0.5
<0.5
<0.5
<0.5

MW-9
60 J
86 J
<0.5
<0.5
<0.5
<0.5

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

RESIDENTIAL YARDS

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

MARTIN LUTHER KING WAY

COMMERCIAL SHOPS

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

MW-10
99 J
100
0.5 J
<0.5
<0.5
0.6 J

Figure 4

GROUNDWATER CONCENTRATION MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
March 12, 2015

GRA

061992-95(013)GN-EM004 MAY 21/2015

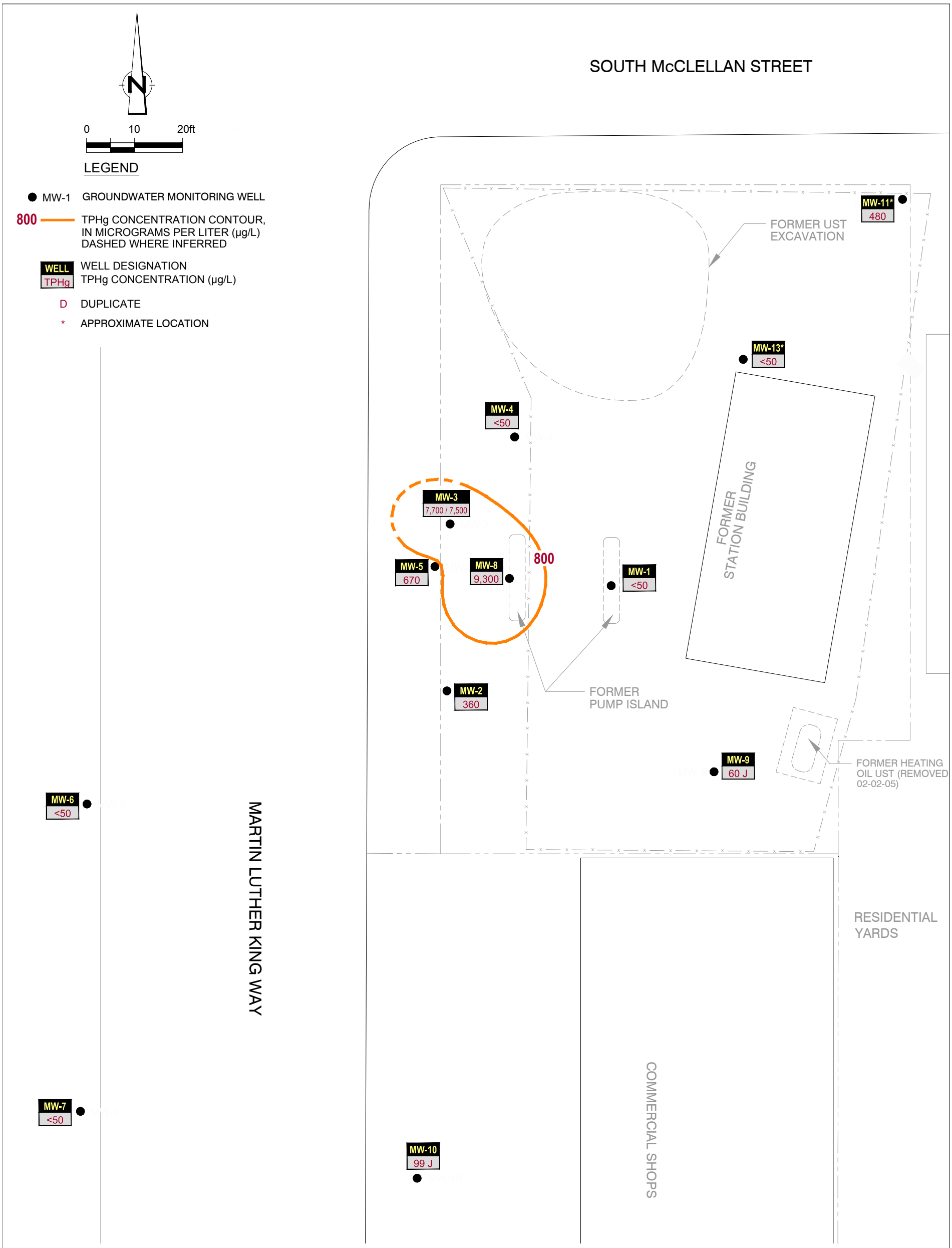
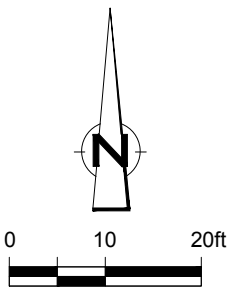


Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
March 12, 2015

061992-95(013)GN-EM005 MAY 21/2015



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- 500 TPHd CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L) DASHED WHERE INFERRED
- WELL / TPHd — WELL DESIGNATION; TPHd CONCENTRATION (µg/L)
- D DUPLICATE
- J ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT
- * APPROXIMATE LOCATION

SOUTH McCLELLAN STREET

MARTIN LUTHER KING WAY

COMMERCIAL SHOPS

RESIDENTIAL YARDS

FORMER UST EXCAVATION

FORMER STATION BUILDING

FORMER PUMP ISLAND

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

MW-11* <29

MW-13* <28

MW-4 <28

MW-3 310 / 240 D

MW-8 790

MW-5 170

500

MW-1 <28

MW-2 330

MW-9 86 J

MW-6 <28

MW-7 <28

MW-10 100

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
March 12, 2015

GRA

061992-95(013)GN-EM006 MAY 21/2015

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-1	**03/12/2015**	**62.35**	**10.31**	**52.04**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.29 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	-

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-2	05/23/2013	60.72	11.15	49.57	470	200[4]	<66[4]	0.7	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	<1	<1	46	21	0.12	-
MW-2	08/29/2013	60.72	12.11	48.61	740	200[4]	<67[4]	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<1	<1	36	17	0.36	-
MW-2	11/13/2013	60.72	11.69	49.03	700	160[4]	<67[4]	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	21	0.14	-
MW-2	03/18/2014	60.72	10.31	50.41	870	180[4]	<66[4]	0.9	<0.5	3	2	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.90	-
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-2	**03/12/2015**	**60.72**	**10.31**	**50.41**	**360**	**330**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**9**	**9**	**0.59 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	-	-	-	-	-	-	-	-	-	-

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	04/11/2007	97.43	11.04	86.39	19,000	-	-	ND	6	110	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	11/12/2009	97.43	11.98	85.45	71.7	-	-	ND	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-3	08/31/2011	61.81	12.10	49.71	7,400	370	<68	<1.0	<1	190	554	<2	<2	<1	67	1,300	330	140	47	-	-
MW-3	12/15/2011	61.81	11.38	50.43	5,400	<29	<67	<0.5	<0.7	120	400	<1	<1	<0.5	50	950	210	110	37	-	-
MW-3	02/06/2012	61.81	10.33	51.48	6,300	1,200	<68	<1	<1	130	523	<2	<2	<1	49	870	190	74	27	-	-
MW-3	05/30/2012	61.81	10.87	50.94	7,400	520	<66	<1	<1	160	660	<2	<2	<1	66	1,100	220	100	38	1.1	0.012868
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290[4]	<67[4]	<1	<1	140	610	<1	<1	<1	71	830	140	86	33	0.98	-
MW-3	12/06/2012	61.81	9.91	51.90	6,700	290[4]	<69[4]	<0.5	<0.5	160	480	<0.5	<0.5	<0.5	75	860	160	100	41	0.36	-
MW-3	02/27/2013	61.81	10.88	50.93	9,500	510[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-3	**03/13/2015**	**61.81**	**10.64**	**51.17**	**7,700**	**310**	**<67**	**<1**	**<1**	**160**	**360**	**<1**	**<1**	**<1**	**54**	**960**	**74**	**120**	**46**	**6.7**	**-**
MW-3 Dup	**03/13/2015**	**61.81**	**10.64**	**51.17**	**7,500**	**240**	**<66**	**<0.5**	**0.8 J**	**190**	**420**	**<0.5**	**<0.5**	**<0.5**	**61**	**1,300**	**78**	**150**	**55**	**2.1**	**-**
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	-	-	-	-	-	-	-	-	-	-

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	08/31/2011	62.75	12.42	50.33	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	12/15/2011	62.75	11.69	51.06	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	02/06/2012	62.75	10.50	52.25	<50	55	<67	<0.5	<0.7	<0.8	<1.6	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	05/30/2012	62.75	11.11	51.64	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	0.007248
MW-4	08/07/2012	62.75	11.76	50.99	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.34	-
MW-4	12/05/2012	62.75	10.19	52.56	<50	<32[4]	<75[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	4.0	-
MW-4	02/26/2013	62.75	11.15	51.60	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.16	-
MW-4	05/23/2013	62.75	11.35	51.40	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.74	-
MW-4	08/29/2013	62.75	12.41	50.34	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	11/13/2013	62.75	11.98	50.77	<50	<31[4]	<73[4]	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	03/18/2014	62.75	9.29	53.46	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.14	-
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-4	**03/13/2015**	**62.75**	**10.80**	**51.95**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**<0.082**	**-**
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	-	-	-	-	-	-	-	-	-	-

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	11/12/2009	97.20	12.10	85.10	2,340	-	-	1	36	<1.0	125	-	-	-	-	-	-	-	-	-	-
MW-5	08/31/2011	61.66	12.80	48.86	3,100	770	<67	2	1	72	124	<1	<1	<0.5	120	130	18	210	78	-	-
MW-5	12/15/2011	61.66	11.41	50.25	1,900	66	<67	1	0.9	24	33	<1	<1	<0.5	81	43	3	120	43	-	-
MW-5	02/06/2012	61.66	10.54	51.12	1,200	34	<68	0.8	<0.7	12	43	<1	<1	<0.5	37	31	6	55	21	-	-
MW-5	05/30/2012	61.66	10.91	50.75	260	54	<66	<0.5	<0.7	3	7	<1	<1	<0.5	12	4	<1	24	9	0.48	0.009168
MW-5	08/07/2012	61.66	11.39	50.27	610	190[4]	<66[4]	<0.5	<0.5	11	22	<0.5	<0.5	<0.5	21	33	12	32	13	5.1	-
MW-5	12/06/2012	61.66	9.74	51.92	170	40[4]	<76[4]	<0.5	<0.5	2	8	<0.5	<0.5	<0.5	8	3	<1	12	4	0.17	-
MW-5	02/27/2013	61.66	11.03	50.63	790	170[4]	<69[4]	<0.5	0.6	7	12	<0.5	<0.5	<0.5	25	9	1	42	19	0.76	-
MW-5	05/23/2013	61.66	10.90	50.76	360	64[4]	<67[4]	<0.5	<0.5	4	6	<0.5	<0.5	<0.5	25	4	<1	34	13	0.80	-
MW-5	08/30/2013	61.66	12.19	49.47	3,200	340[4]	<69[4]	0.7	1	49	89	<0.5	<0.5	<0.5	92	92	16	160	59	1.2	-
MW-5	11/14/2013	61.66	11.64	50.02	2,000	240[4]	<75[4]	0.7	0.7	19	14	<0.5	<0.5	<0.5	54	6	<1	130	44	0.31	-
MW-5	03/19/2014	61.66	9.21	52.45	1,700	110[4]	<67[4]	<0.5	<0.5	34	150	<0.5	<0.5	<0.5	26	170	27	52	19	0.17	-
MW-5	05/28/2014	61.66	10.62	51.04	570	100[4]	<67[4]	<0.5	<0.5	8	26	<0.5	<0.5	<0.5	9	16	6	41	14	0.16	-
MW-5	08/28/2014	61.66	12.01	49.65	3,900	360	<66	<0.5	0.9 J	34	65	<0.5	<0.5	<0.5	36	65	15	170	61	0.49 J	-
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-5	**03/13/2015**	**61.66**	**10.69**	**50.97**	**670**	**170**	**<66**	**<0.5**	**<0.5**	**5**	**5**	**<0.5**	**<0.5**	**<0.5**	**2 J**	**9**	**6**	**36**	**15**	**0.10 J**	**-**
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	-

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*												
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-6	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	-
MW-6	**03/13/2015**	**58.03**	**11.41**	**46.62**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**2.4**	**-**
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-7	**03/13/2015**	**56.96**	**10.78**	**46.18**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**11.8**	**-**
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	-	-

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	05/30/2012	61.71	10.69	51.02	9,500	700	<68	<1	<1	110	1,300	<2	<2	<1	96	1,100	310	59	28	7.1	0.007324
MW-8 DUP	05/30/2012	61.71	10.69	51.02	10,000	450	<66	<1	<1	110	1,300	<2	<2	<1	93	1,300	340	58	27	5.3	0.007248
MW-8	08/08/2012	61.71	11.30	50.41	9,300	290[4]	<66[4]	<1	<1	92	850	<1	<1	<1	73	910	190	49	22	3.4	-
MW-8 DUP	08/08/2012	61.71	11.30	50.41	11,000	240[4]	<66[4]	<1	<1	83	710	<1	<1	<1	67	680	140	44	20	3.6	-
MW-8	12/05/2012	61.71	9.61	52.10	13,000	2,600[4]	200[4]	<0.5	0.8	95	1,100	<0.5	<0.5	<0.5	93	1,400	380	61	27	27.6	-
MW-8 DUP	12/05/2012	61.71	9.61	52.10	12,000	2,600[4]	240[4]	<0.5	0.8	91	1,100	<0.5	<0.5	<0.5	91	1,400	360	58	26	27.4	-
MW-8	02/26/2013	61.71	10.71	51.00	12,000	780[4]	<70[4]	<0.5	0.6	100	800	<0.5	<0.5	<0.5	86	1,200	280	63	29	5.2	-
MW-8 DUP	02/26/2013	61.71	10.71	51.00	11,000	540[4]	<69[4]	<0.5	0.6	100	770	<0.5	<0.5	<0.5	72	1,100	280	60	29	5.3	-
MW-8	05/23/2013	61.71	10.87	50.84	6,800	380[4]	<68[4]	<0.5	<0.5	87	700	<0.5	<0.5	<0.5	86	1,200	190	62	25	4.0	-
MW-8 DUP	05/23/2013	61.71	10.87	50.84	7,000	380[4]	<68[4]	<0.5	0.5	100	810	<0.5	<0.5	<0.5	94	1,300	240	73	29	3.5	-
MW-8	08/29/2013	61.71	12.00	49.71	6,600	340[4]	<66[4]	<0.5	<0.5	60	450	<0.5	<0.5	<0.5	49	680	110	47	20	2.1	-
MW-8 DUP	08/30/2013	61.71	12.00	49.71	3,500	220[4]	<66[4]	<0.5	<0.5	47	350	<0.5	<0.5	<0.5	39	510	83	45	18	1.2	-
MW-8	11/14/2013	61.71	11.52	50.19	8,900	390[4]	<67[4]	<0.5	0.5	79	740	<0.5	<0.5	<0.5	67	1,000	180	65	26	3.1	-
MW-8 DUP	11/14/2013	61.71	11.52	50.19	8,000	320[4]	<67[4]	<0.5	0.6	81	760	<0.5	<0.5	<0.5	66	1,100	180	65	27	3.2	-
MW-8	03/19/2014	61.71	8.73	52.98	8,400	2,400[4]	<67[4]	<0.5	<0.5	33	370	<0.5	<0.5	<0.5	57	800	250	28	12	12.6	-
MW-8 DUP	03/19/2014	61.71	8.73	52.98	8,800	2,200[4]	110[4]	<0.5	<0.5	42	480	<0.5	<0.5	<0.5	66	960	280	40	17	10.5	-
MW-8	05/28/2014	61.71	10.41	51.30	5,600	860[4]	<67[4]	<0.5	<0.5	50	270	<0.5	<0.5	<0.5	39	740	130	24	13	3.9	-
MW-8 DUP	05/28/2014	61.71	10.41	51.30	5,900	910[4]	<67[4]	<0.5	<0.5	67	330	<0.5	<0.5	<0.5	59	750	190	41	19	4.2	-
MW-8	08/28/2014	61.71	11.95	49.76	11,000	500	<67	<0.5	0.8 J	170	590	<0.5	<0.5	<0.5	70	1,200	180	110	44	1.6	-
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-8	**03/12/2015**	**61.71**	**10.56**	**51.15**	**9,300**	**790[6]**	**<66**	**<1**	**<1**	**92**	**390**	**<1**	**<1**	**<1**	**83**	**930**	**260**	**55**	**24**	**3.5**	**-**
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

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-9	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	-
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-9	**03/12/2015**	**62.58**	**12.72**	**49.86**	**60 J**	**86 J**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.16 J**	**-**
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	-

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-10	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-10	**03/12/2015**	**58.96**	**10.29**	**48.67**	**99 J**	**100**	**<67**	**0.5 J**	**<0.5**	**<0.5**	**0.6 J**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**4 J**	**2 J**	**<0.082**	**-**
MW-11	08/28/2014	-	11.23	-	580[7]	<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[7]	<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-11	**03/12/2015**	**-**	**10.63**	**-**	**480[7]**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**10.0**	**-**
MW-12	**03/12/2015**	-	10.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-
MW-13	**03/12/2015**	**-**	**9.42**	**-**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.68 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	-	-
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	-	-
Trip Blank	**03/12/2015**	**-**	**-**	**-**	**<50**	**-**	**-**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**-**	**-**

Abbreviations and Notes

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*

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

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.

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*

4 Analysis with silica-gel cleanup.

5 Inaccessible.

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

7 The presence of TPHg may be due to PCE eluting within the gasoline range during analysis

ATTACHMENT A

MONITORING DATA PACKAGE

WELL GAUGING DATA

Project # 150312-LB1 Date 3/12/15 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	0913	2					10.31	22.46		
MW-2	0924	2					10.31	21.46		
MW-3	0937	2					10.64	20.08		
MW-4	0909	2					10.30	18.86		
MW-5	0932	1					10.69	18.94		
MW-6	0953	2					11.91	19.76		
MW-7	0958	2					10.78	19.83		
MW-8	0921	2					10.56	19.86		
MW-9	0904	2					12.72	23.66		
MW-10	0945	2					10.29	19.80		
MW-11	0936	2					10.63	19.43		
MW-13	0900	2					9.42	17.81		
MW-12	0917	4					10.43	23.01	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150312 - LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 22.46	Depth to Water (ft.): 10.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (TOC) 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: 1159 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.)
1202	14.03	6.65	375	21	1.46	67.2	600	10.35
1205	14.11	6.68	372	19	1.43	62.4	1200	10.35
1208	14.15	6.69	371	18	1.42	60.8	1800	10.35
1211	14.16	6.70	370	17	1.41	59.4	2400	10.35
1214	14.18	6.71	369	16	1.40	58.6	3000	10.35

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

Sampling Time: 1215 Sampling Date: 3/12/15

Sample I.D.: GW-031215-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 21.46	Depth to Water (ft.): 10.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 1230 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.)
1233	14.63	6.76	472	22	1.33	38.3	600	10.36
1236	14.64	6.79	473	19	1.30	35.6	1200	10.36
1239	14.65	6.81	474	18	1.29	34.3	1800	10.36
1242	14.64	6.82	475	19	1.28	33.3	2400	10.36
1245	14.63	6.83	476	18	1.27	32.6	3000	10.36

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

Sampling Time: 1246 Sampling Date: 3/12/15

Sample I.D.: GW-031215-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 20.08	Depth to Water (ft.): 10.64
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: 1122 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.)
1125	13.62	7.10	410	22	0.91	-60.0	600	10.68
1128	13.78	7.12	413	19	0.89	-64.1	1200	10.68
1131	13.79	7.13	416	19	0.88	-66.4	1800	10.68
1134	13.80	7.14	417	20	0.87	-67.8	2400	10.68
1137	13.81	7.15	418	21	0.86	-68.5	3000	10.68

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

Sampling Time: 1138 Sampling Date: 3/13/15

Sample I.D.: GW-03/13/15-LB-MW3 Laboratory: LANCASTER

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

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-03/13/15-LB-DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/13/15
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 18.86	Depth to Water (ft.): 10.80
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: 1207 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.)
1210	14.28	7.06	568	37	1.16	31.3	600	10.84
1213	14.24	6.98	571	31	1.08	25.8	1200	10.84
1216	14.26	6.96	573	29	1.06	24.6	1800	10.84
1219	14.27	6.95	574	28	1.05	23.1	2400	10.84
1222	14.28	6.94	575	27	1.04	22.6	3000	10.84

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

Sampling Time: 1223 Sampling Date: 3/13/15

Sample I.D.: GW-03131S-LB-MW-4 Laboratory: LANCASTER

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150312-181	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-5	Well Diameter (in.): 2 3 4 6 8 (1)
Total Well Depth (ft.): 18.94	Depth to Water (ft.): 10.69
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: 1046 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.)
1049	12.93	6.78	428	51	1.16	-39.2	600	10.73
1052	12.86	6.77	430	48	1.14	-42.3	1200	10.73
1055	12.87	6.76	429	46	1.13	-43.6	1800	10.73
1058	12.88	6.75	428	45	1.12	-44.8	2400	10.73
1101	12.89	6.74	427	44	1.11	-45.6	3000	10.73

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

Sampling Time: 1102 Sampling Date: 3/13/15

Sample I.D.: GW-031315-LB-MW5 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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: ~~MW-8~~ MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): ~~19.86~~ 19.76	Depth to Water (ft.): ~~10.56~~ 11.91
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: 0912 Flow Rate: 200 mL/MIN Pump Depth: ~~15.5~~ 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.)
0915	13.52	661	874	37	1.98	655	600	11.95
0918	13.57	662	872	24	1.95	64.0	1200	11.95
0921	13.58	665	871	23	1.94	62.8	1800	11.95
0924	13.59	667	870	22	1.93	61.4	2400	11.95
0927	13.60	668	869	21	1.92	603	3000	11.95

Did well dewater? Yes (NO)	Amount actually evacuated: 3L
Sampling Time: 0928	Sampling Date: 3/13/15
Sample I.D.: GW-031315-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 #: 150312-181	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.83	Depth to Water (ft.): 10.78
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: 0959 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.)
1002	13.49	6.81	415	30	1.92	64.6	600	10.81
1005	13.47	6.79	400	28	1.87	58.7	1200	10.81
1008	13.50	6.78	402	26	1.86	56.9	1800	10.81
1011	13.51	6.77	401	25	1.85	55.4	2400	10.81
1014	13.52	6.76	400	24	1.84	54.6	3000	10.81

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

Sampling Time: 1015 Sampling Date: 3/13/15

Sample I.D.: GW-03/13/15-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.86	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: 1309 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.)
1312	14.29	6.30	596	18	1.13	-11.4	600	10.59
1315	14.36	6.27	598	17	1.10	-18.6	1200	10.59
1318	14.37	6.29	599	16	1.09	-19.1	1800	10.59
1321	14.38	6.30	600	16	1.08	-20.4	2400	10.59
1324	14.39	6.31	601	15	1.07	-21.6	3000	1059

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

Sampling Time: 1325 Sampling Date: 3/12/15

Sample I.D.: GW-031215-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-9	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 23.66	Depth to Water (ft.): 12.72
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: 1116 Flow Rate: 200 mL/MIN Pump Depth: 18.5

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.)
1119	13.57	6.83	516	17	1.61	71.0	600	12.75
1122	13.65	6.75	515	17	1.56	69.1	1200	12.75
1125	13.61	6.78	514	15	1.54	67.8	1800	12.75
1128	13.62	6.77	513	15	1.53	66.2	2400	12.75
1131	13.63	6.76	512	16	1.52	65.4	3000	12.75

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

Sampling Time: 1132 Sampling Date: 3/12/15

Sample I.D.: GW-031215-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 #: 1503R-LBJ	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-10	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.80	Depth to Water (ft.): 10.29
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: 0827 Flow Rate: 200mL/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.)
0830	14.43	6.43	2185	21	1.98	37.6	600	10.33
0833	14.47	6.50	2192	19	1.96	36.1	1200	10.33
0836	14.48	6.51	2193	18	1.94	33.8	1800	10.33
0839	14.48	6.50	2193	17	1.93	32.4	2400	10.33
0842	14.49	6.49	2194	16	1.92	31.6	3000	10.33

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

Sampling Time: 0843 Sampling Date: 3/13/15

Sample I.D.: GW-031315-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-11	Well Diameter (in.) : (2) 3 4 6 8 ____
Total Well Depth (ft.) : 19.43	Depth to Water (ft.) : 10.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 1007 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.)
1010	14.97	7.09	441	28	1.50	82.4	600	10.68
1013	14.81	7.16	439	25	1.48	77.0	1200	10.68
1016	14.80	7.13	438	23	1.46	76.3	1800	10.68
1019	14.79	7.12	437	22	1.45	75.2	2400	10.68
1022	14.78	7.11	436	21	1.44	74.6	3000	10.68

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

Sampling Time: 1023 Sampling Date: 3/21/15

Sample I.D.: GW-031215-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 #: 150312-LB1	Client: CRA
Sampler: LB	Gauging Date: 3/12/15
Well I.D.: MW-13	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 17.81	Depth to Water (ft.): 9.42
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: 1041 Flow Rate: 200 mL/MIN Pump Depth: 14'

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.)
1044	13.82	6.67	678	24	1.46	53.2	600	9.45
1047	13.78	6.71	682	21	1.43	50.5	1200	9.45
1050	13.79	6.72	683	20	1.41	49.6	1800	9.45
1053	13.80	6.73	684	19	1.40	48.2	2400	9.45
1056	13.81	6.72	685	18	1.39	47.6	3000	9.45

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

Sampling Time: 1057 Sampling Date: 3/12/15

Sample I.D.: GW-031215-LB-MW-13 Laboratory: LANCASTER

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

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

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	CRA
SITE	Tidewater ~~McMinnville~~ SEATTLE
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: CRA - Matt Davis - 253.573.1218
mdavis@craworld.com

J Value reporting needed, Must meet lowest detection limit

~~**MS/MSD for NWTPH-Gx, NWTPH-Dx, VOCs, EDB Only**~~ LB

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW-031215-LB-MW-1	3/12/15	1215	W	14	VOA, POLY, AMBER		X	X	X	X	X	X				
GW-031215-LB-MW-2	3/12/15	1246	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-3	3/13/15	1138	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-4	3/13/15	1223	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-5	3/13/15	1102	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-6	3/13/15	0928	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-7	3/13/15	1015	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-8	3/12/15	1325	W	42			X	X	X	X	X	X				
GW-031215-LB-MW-9	3/12/15	1132	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-10	3/12/15	0843	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-11	3/12/15	1023	W	14			X	X	X	X	X	X				

SAMPLING COMPLETED	DATE	TIME
	3/13/15	1300

SAMPLING PERFORMED BY: LEE BURES

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	3/13/15				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	CRA
SITE	Tidewater ~~McMinnville~~ SEATTLE
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: CRA - Matt Davis - 253.573.1218
mdavis@craworld.com

J Value reporting needed, Must meet lowest detection limit

~~**MS/MSD for NWTPH-Gx, NWTPH-Dx, VOCs, EDB Only**~~ LB

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOCs Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAHs 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW-031215-LB-MW-13	3/12/15	1057	W	14	Vol, Poly, Amber		X	X	X	X	X	X				
GW-031315-LB-DUP	3/13/15	—	W	14	↓		X	X	X	X	X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	3/13/15	1300	LEE BURES	Standard TAT

RELEASED BY	DATE 3/13/15	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELLHEAD INSPECTION FORM

Client: CRA Site: CRA @ TIDEWATER SEATTLE Date: 3/12/15

Job #: 150312-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	X														
MW-2						2/3	1/3								
MW-3						3/3									
MW-4						2/2									
MW-5	X														
MW-6	X														
MW-7	X														
MW-8						3/3									
MW-9	X														
MW-10	X														
MW-11	X														
MW-13	X														
MW-12	X														

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	CRA & TIDEWATER SEATTLE			PROJECT NUMBER	150312-LB1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	SEA #2	3/12/15 0600	PH 4.0 7.0 10.0	4.20 7.18 10.33	4.01 ✓ 7.00 ✓ 10.00 ✓	15.4	LB
			COND 3900	3924	3901 ✓	15:3	LB
			ORP 244	228.6	244.3 ✓	15:3	LB
			DO 100%	108.4%	100.1% ✓	—	LB
YSI 556	SEA #2	3/13/15 0615	PH 4.0 7.0 10.0	4.06 7.03 10.02	—	15.5	LB
			COND 3900	3898	—	15.6	LB
			ORP 244	234.6	244.1 ✓	156	LB
			DO 100%	96.4%	100.1% ✓	—	LB

SPH or Purge Water Drum Log

Client: CRA

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

STATUS OF DRUM(S) UPON ARRIVAL						
Date	8/28/14	12/10/14	3/12/15			
Number of drum(s) empty:	0	6	0			
Number of drum(s) 1/4 full:	0	0	0			
Number of drum(s) 1/2 full:	0	1	0			
Number of drum(s) 3/4 full:	0	0	0			
Number of drum(s) full:	10	10	16			
Total drum(s) on site:	10	11	16			
Are the drum(s) properly labeled?	YES	YES	YES			
Drum ID & Contents:	NA	NA	NA			
If any drum(s) are partially or totally filled, what is the first use date:	NA	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	3/13/15			
Number of drums empty:	0	6	0			
Number of drum(s) 1/4 full:	0	0	1			
Number of drum(s) 1/2 full:	1	6	0			
Number of drum(s) 3/4 full:	0	0	0			
Number of drum(s) full:	10	11	16			
Total drum(s) on site:	11	11	17			
Are the drum(s) properly labeled?	YES	YES	YES			
Drum ID & Contents:	NA	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	1			
Date of inspection:	8/29/14	12/11/14	3/13/15			
Drum(s) labelled properly:	YES	YES	YES			
Logged by BTS Field Tech:	LB	LB	LB			
Office reviewed by:						

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 29, 2015

Project: 301233 Tidewater Seattle

Submittal Date: 03/18/2015
Group Number: 1546168
PO Number: 4071016
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
GW-031215-LB-MW-1 Water	7809731
GW-031215-LB-MW-2 Water	7809732
GW-031315-LB-MW-3 Water	7809733
GW-031315-LB-MW-4 Water	7809734
GW-031315-LB-MW-5 Water	7809735
GW-031315-LB-MW-6 Water	7809736
GW-031315-LB-MW-7 Water	7809737
GW-031215-LB-MW-8 Water	7809738
GW-031215-LB-MW-8 MS Water	7809739
GW-031215-LB-MW-8 MSD Water	7809740
GW-031215-LB-MW-9 Water	7809741
GW-031215-LB-MW-10 Water	7809742
GW-031215-LB-MW-11 Water	7809743
GW-031215-LB-MW-13 Water	7809744
GW-031315-LB-DUP Water	7809745

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-031215-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809731
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE01

CAT No.	Analysis Name	CAS Number	Result	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	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-031215-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809731
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE01

CAT No.	Analysis Name	CAS Number	Result		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	5		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	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.		0.031	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.		0.0095	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	0.29	J	0.082	1

Sample Description: GW-031215-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809731
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE01

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 21:07	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 21:07	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 18:31	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 14:53	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 14:53	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 00:14	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/23/2015 23:58	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:36	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031215-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809732
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:46 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE02

CAT No.	Analysis Name	CAS Number	Result		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	1	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	9		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	9		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-031215-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809732
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:46 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE02

CAT No.	Analysis Name	CAS Number	Result		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	0.040	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	0.13		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	360		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	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.	330		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	0.59	J	0.082	1

Sample Description: GW-031215-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809732
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 12:46 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE02

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 21:27	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 21:27	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 18:59	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 15:15	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 15:15	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 00:29	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 00:19	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:38	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809733
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:38 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE03

CAT No.	Analysis Name	CAS Number	Result		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	3		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	160		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	46		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	54		2	2
10335	n-Propylbenzene	103-65-1	120		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-031315-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809733
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:38 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE03

CAT No.	Analysis Name	CAS Number	Result	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	960	20	20
10335	1,3,5-Trimethylbenzene	108-67-8	74	2	2
10335	Vinyl Chloride	75-01-4	N.D.	1	2
10335	m+p-Xylene	179601-23-1	340	1	2
10335	o-Xylene	95-47-6	27	1	2
10335	Xylene (Total)	1330-20-7	360	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	10	0.10	10
08357	2-Methylnaphthalene	91-57-6	3.3	0.010	1
08357	Naphthalene	91-20-3	45	0.30	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	7,700	500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	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.	310	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	6.7	0.082	1

Sample Description: GW-031315-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809733
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:38 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE03

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 01:30	Sara E Johnson	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	E150842AA	03/26/2015 01:50	Sara E Johnson	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 01:30	Sara E Johnson	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E150842AA	03/26/2015 01:50	Sara E Johnson	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 19:26	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/21/2015 01:55	Brian K Graham	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 19:43	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 19:43	Marie D Beamenderfer	10
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 00:45	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 09:58	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:39	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809734
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 12:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE04

CAT No.	Analysis Name	CAS Number	Result	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-031315-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809734
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 12:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE04

CAT No.	Analysis Name	CAS Number	Result	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.	0.031	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.	0.0095	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	N.D.	0.082	1

Sample Description: GW-031315-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809734
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 12:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE04

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 02:11	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 02:11	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 19:54	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 15:38	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 15:38	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 01:00	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 00:41	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:42	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809735
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:02 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE05

CAT No.	Analysis Name	CAS Number	Result		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	2	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	5		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	15		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	2	J	1	1
10335	n-Propylbenzene	103-65-1	36		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-031315-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809735
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:02 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE05

CAT No.	Analysis Name	CAS Number	Result		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	0.5	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	9		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	6		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	3		0.5	1
10335	o-Xylene	95-47-6	2		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	2.7		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.29		0.010	1
08357	Naphthalene	91-20-3	1.5		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	670		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0094	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	0.10	J	0.082	1

Sample Description: GW-031315-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809735
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 11:02 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE05

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 02:31	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 02:31	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 20:22	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 16:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 16:00	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 01:16	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 01:03	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:43	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809736
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 09:28 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE06

CAT No.	Analysis Name	CAS Number	Result	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-031315-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809736
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 09:28 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE06

CAT No.	Analysis Name	CAS Number	Result	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.	0.031	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.	0.0095	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	2.4	0.082	1

Sample Description: GW-031315-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809736
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 09:28 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE06

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 02:51	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 02:51	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 20:49	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 16:22	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 16:22	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 01:31	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 08:03	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:49	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809737
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 10:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE07

CAT No.	Analysis Name	CAS Number	Result	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	11	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-031315-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809737
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 10:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE07

CAT No.	Analysis Name	CAS Number	Result		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	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	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	0.019	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.022	J	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.		0.031	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.		0.0094	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	11.8		0.082	1

Sample Description: GW-031315-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809737
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 10:15 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE07

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 03:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 03:12	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 21:17	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15084A20A	03/26/2015 13:42	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15084A20A	03/26/2015 13:42	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 01:47	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 08:54	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:50	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031215-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809738
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result		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	11		2	2
10335	sec-Butylbenzene	135-98-8	7	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	1	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	92		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	24		2	2
10335	p-Isopropyltoluene	99-87-6	7	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	83		2	2
10335	n-Propylbenzene	103-65-1	55		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-031215-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809738
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result		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	1	J	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	930		20	20
10335	1,3,5-Trimethylbenzene	108-67-8	260		2	2
10335	Vinyl Chloride	75-01-4	N.D.		1	2
10335	m+p-Xylene	179601-23-1	280		1	2
10335	o-Xylene	95-47-6	110		1	2
10335	Xylene (Total)	1330-20-7	390		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	15		0.10	10
08357	2-Methylnaphthalene	91-57-6	12		0.10	10
08357	Naphthalene	91-20-3	40		0.31	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	9,300		250	5
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	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.	790		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	3.5		0.082	1

Sample Description: GW-031215-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809738
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 19:45	Sara E Johnson	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	E150842AA	03/25/2015 20:46	Sara E Johnson	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 19:45	Sara E Johnson	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E150842AA	03/25/2015 20:46	Sara E Johnson	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 21:45	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/21/2015 02:23	Brian K Graham	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 11:32	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 11:32	Marie D Beamenderfer	5
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 02:02	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 10:19	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150816050002A	03/24/2015 19:40	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150816050002	03/24/2015 08:27	James L Mertz	1

Sample Description: GW-031215-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809739
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	360	12	2
10335	Benzene	71-43-2	45	1	2
10335	Bromobenzene	108-86-1	41	2	2
10335	Bromochloromethane	74-97-5	43	2	2
10335	Bromodichloromethane	75-27-4	46	1	2
10335	Bromoform	75-25-2	44	1	2
10335	Bromomethane	74-83-9	30	1	2
10335	2-Butanone	78-93-3	360	6	2
10335	n-Butylbenzene	104-51-8	49	2	2
10335	sec-Butylbenzene	135-98-8	47	2	2
10335	tert-Butylbenzene	98-06-6	39	2	2
10335	Carbon Disulfide	75-15-0	41	2	2
10335	Carbon Tetrachloride	56-23-5	46	1	2
10335	Chlorobenzene	108-90-7	39	1	2
10335	Chloroethane	75-00-3	33	1	2
10335	Chloroform	67-66-3	45	1	2
10335	Chloromethane	74-87-3	39	1	2
10335	2-Chlorotoluene	95-49-8	39	2	2
10335	4-Chlorotoluene	106-43-4	38	2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	54	4	2
10335	Dibromochloromethane	124-48-1	42	1	2
10335	1,2-Dibromoethane	106-93-4	41	1	2
10335	Dibromomethane	74-95-3	42	1	2
10335	1,2-Dichlorobenzene	95-50-1	38	2	2
10335	1,3-Dichlorobenzene	541-73-1	40	2	2
10335	1,4-Dichlorobenzene	106-46-7	39	2	2
10335	Dichlorodifluoromethane	75-71-8	40	1	2
10335	1,1-Dichloroethane	75-34-3	46	1	2
10335	1,2-Dichloroethane	107-06-2	43	1	2
10335	1,1-Dichloroethene	75-35-4	44	1	2
10335	cis-1,2-Dichloroethene	156-59-2	46	1	2
10335	trans-1,2-Dichloroethene	156-60-5	46	1	2
10335	1,2-Dichloropropane	78-87-5	46	1	2
10335	1,3-Dichloropropane	142-28-9	40	1	2
10335	2,2-Dichloropropane	594-20-7	42	1	2
10335	1,1-Dichloropropene	563-58-6	47	2	2
10335	cis-1,3-Dichloropropene	10061-01-5	45	1	2
10335	trans-1,3-Dichloropropene	10061-02-6	40	1	2
10335	Ethylbenzene	100-41-4	130	1	2
10335	Hexachlorobutadiene	87-68-3	40	4	2
10335	2-Hexanone	591-78-6	210	6	2
10335	Isopropylbenzene	98-82-8	63	2	2
10335	p-Isopropyltoluene	99-87-6	46	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	45	1	2
10335	4-Methyl-2-pentanone	108-10-1	230	6	2
10335	Methylene Chloride	75-09-2	44	4	2
10335	Naphthalene	91-20-3	120	2	2
10335	n-Propylbenzene	103-65-1	93	2	2
10335	Styrene	100-42-5	42	2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	41	1	2

Sample Description: GW-031215-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809739
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	38		1	2
10335	Tetrachloroethene	127-18-4	43		1	2
10335	Toluene	108-88-3	41		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	39		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	41		2	2
10335	1,1,1-Trichloroethane	71-55-6	38		1	2
10335	1,1,2-Trichloroethane	79-00-5	41		1	2
10335	Trichloroethene	79-01-6	47		1	2
10335	Trichlorofluoromethane	75-69-4	41		1	2
10335	1,2,3-Trichloropropane	96-18-4	40		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	1,000	E	2	2
10335	1,3,5-Trimethylbenzene	108-67-8	280		2	2
10335	Vinyl Chloride	75-01-4	42		1	2
10335	m+p-Xylene	179601-23-1	330		1	2
10335	o-Xylene	95-47-6	150		1	2
10335	Xylene (Total)	1330-20-7	480		1	2
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	14,000		250	5
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	0.13		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.	2,500		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	170	J	66	1

General Sample Comments

State of Washington Lab Certification No. C457
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 20:06	Sara E Johnson	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 20:06	Sara E Johnson	2
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 11:55	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 11:55	Marie D Beamenderfer	5

Sample Description: GW-031215-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809739
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 02:18	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 11:02	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1

Sample Description: GW-031215-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809740
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	380	12	2
10335	Benzene	71-43-2	46	1	2
10335	Bromobenzene	108-86-1	42	2	2
10335	Bromochloromethane	74-97-5	45	2	2
10335	Bromodichloromethane	75-27-4	48	1	2
10335	Bromoform	75-25-2	45	1	2
10335	Bromomethane	74-83-9	30	1	2
10335	2-Butanone	78-93-3	370	6	2
10335	n-Butylbenzene	104-51-8	49	2	2
10335	sec-Butylbenzene	135-98-8	47	2	2
10335	tert-Butylbenzene	98-06-6	40	2	2
10335	Carbon Disulfide	75-15-0	43	2	2
10335	Carbon Tetrachloride	56-23-5	47	1	2
10335	Chlorobenzene	108-90-7	40	1	2
10335	Chloroethane	75-00-3	35	1	2
10335	Chloroform	67-66-3	45	1	2
10335	Chloromethane	74-87-3	40	1	2
10335	2-Chlorotoluene	95-49-8	40	2	2
10335	4-Chlorotoluene	106-43-4	37	2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	55	4	2
10335	Dibromochloromethane	124-48-1	43	1	2
10335	1,2-Dibromoethane	106-93-4	41	1	2
10335	Dibromomethane	74-95-3	43	1	2
10335	1,2-Dichlorobenzene	95-50-1	39	2	2
10335	1,3-Dichlorobenzene	541-73-1	39	2	2
10335	1,4-Dichlorobenzene	106-46-7	39	2	2
10335	Dichlorodifluoromethane	75-71-8	41	1	2
10335	1,1-Dichloroethane	75-34-3	47	1	2
10335	1,2-Dichloroethane	107-06-2	44	1	2
10335	1,1-Dichloroethene	75-35-4	45	1	2
10335	cis-1,2-Dichloroethene	156-59-2	47	1	2
10335	trans-1,2-Dichloroethene	156-60-5	47	1	2
10335	1,2-Dichloropropane	78-87-5	47	1	2
10335	1,3-Dichloropropane	142-28-9	41	1	2
10335	2,2-Dichloropropane	594-20-7	43	1	2
10335	1,1-Dichloropropene	563-58-6	48	2	2
10335	cis-1,3-Dichloropropene	10061-01-5	46	1	2
10335	trans-1,3-Dichloropropene	10061-02-6	41	1	2
10335	Ethylbenzene	100-41-4	130	1	2
10335	Hexachlorobutadiene	87-68-3	39	4	2
10335	2-Hexanone	591-78-6	210	6	2
10335	Isopropylbenzene	98-82-8	64	2	2
10335	p-Isopropyltoluene	99-87-6	46	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	47	1	2
10335	4-Methyl-2-pentanone	108-10-1	240	6	2
10335	Methylene Chloride	75-09-2	44	4	2
10335	Naphthalene	91-20-3	120	2	2
10335	n-Propylbenzene	103-65-1	93	2	2
10335	Styrene	100-42-5	42	2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	42	1	2

Sample Description: GW-031215-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809740
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	38		1	2
10335	Tetrachloroethene	127-18-4	43		1	2
10335	Toluene	108-88-3	41		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	41		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	41		2	2
10335	1,1,1-Trichloroethane	71-55-6	39		1	2
10335	1,1,2-Trichloroethane	79-00-5	41		1	2
10335	Trichloroethene	79-01-6	48		1	2
10335	Trichlorofluoromethane	75-69-4	42		1	2
10335	1,2,3-Trichloropropane	96-18-4	40		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	1,000	E	2	2
10335	1,3,5-Trimethylbenzene	108-67-8	280		2	2
10335	Vinyl Chloride	75-01-4	44		1	2
10335	m+p-Xylene	179601-23-1	340		1	2
10335	o-Xylene	95-47-6	150		1	2
10335	Xylene (Total)	1330-20-7	490		1	2
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	15,000		250	5
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	0.14		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.	2,400		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	140	J	66	1

General Sample Comments

State of Washington Lab Certification No. C457
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 20:26	Sara E Johnson	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 20:26	Sara E Johnson	2
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 12:17	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 12:17	Marie D Beamenderfer	5

Sample Description: GW-031215-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809740
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 13:25 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	EDB by 8011	SW-846 8011	1	150780023A	03/21/2015 02:33	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780023A	03/19/2015 19:00	Edwin Ortiz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 10:41	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1

Sample Description: GW-031215-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809741
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 11:32 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE09

CAT No.	Analysis Name	CAS Number	Result		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	0.8	J	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	150		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	0.9	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-031215-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809741
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 11:32 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE09

CAT No.	Analysis Name	CAS Number	Result		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	120		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	16		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.		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	60	J	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.	86	J	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.16	J	0.082	1

Sample Description: GW-031215-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809741
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 11:32 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE09

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 23:08	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 23:08	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 22:13	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 16:45	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 16:45	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780038A	03/24/2015 15:58	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780038A	03/21/2015 07:00	David V Hershey Jr	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 09:15	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:52	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031215-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809742
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 08:43 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE10

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		6	1
10335	Benzene	71-43-2	0.5	J	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	9		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	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	N.D.		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-031215-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809742
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 08:43 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE10

CAT No.	Analysis Name	CAS Number	Result		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	38		0.5	1
10335	m+p-Xylene	179601-23-1	0.6	J	0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	0.6	J	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	0.26		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.13		0.010	1
08357	Naphthalene	91-20-3	0.075		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	99	J	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	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.	100		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-031215-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809742
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 08:43 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE10

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 23:28	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 23:28	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 22:40	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 17:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 17:07	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780038A	03/24/2015 16:13	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780038A	03/21/2015 07:00	David V Hershey Jr	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150780036A	03/24/2015 09:36	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150780036A	03/20/2015 13:00	Samantha L Bronder	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:54	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031215-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809743
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE11

CAT No.	Analysis Name	CAS Number	Result	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	17	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-031215-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809743
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE11

CAT No.	Analysis Name	CAS Number	Result		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	41		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	0.7	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	0.015	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	480		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.096	10
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	10.0		0.082	1

Sample Description: GW-031215-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809743
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:23 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE11

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 00:09	Sara E Johnson	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	E150842AA	03/26/2015 00:29	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 00:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E150842AA	03/26/2015 00:29	Sara E Johnson	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 23:08	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 17:29	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 17:29	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780038A	03/25/2015 10:48	Matthew S Listner	10
07786	EDB Extraction	SW-846 8011	1	150780038A	03/21/2015 07:00	David V Hershey Jr	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150800015A	03/23/2015 14:19	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150800015A	03/22/2015 21:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:56	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031215-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809744
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:57 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE13

CAT No.	Analysis Name	CAS Number	Result	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	35	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-031215-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809744
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:57 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE13

CAT No.	Analysis Name	CAS Number	Result		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	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.		0.031	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
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.					
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	0.68	J	0.082	1

Sample Description: GW-031215-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809744
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/12/2015 10:57 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSE13

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/25/2015 23:49	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/25/2015 23:49	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/20/2015 23:36	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15083A20A	03/25/2015 17:52	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15083A20A	03/25/2015 17:52	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	150780038A	03/24/2015 16:44	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150780038A	03/21/2015 07:00	David V Hershey Jr	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150800015A	03/23/2015 14:40	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150800015A	03/22/2015 21:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	150836050005A	03/26/2015 10:57	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150836050005	03/25/2015 11:02	James L Mertz	1

Sample Description: GW-031315-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809745
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSEFD

CAT No.	Analysis Name	CAS Number	Result	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	12	1	1
10335	sec-Butylbenzene	135-98-8	11	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	190	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	55	1	1
10335	p-Isopropyltoluene	99-87-6	5	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	61	1	1
10335	n-Propylbenzene	103-65-1	150	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-031315-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809745
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 by LB

Submitted: 03/18/2015 10:00
Reported: 03/29/2015 12:37

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

TSEFD

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	0.8	J	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,300		10	10
10335	1,3,5-Trimethylbenzene	108-67-8	78		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	390		0.5	1
10335	o-Xylene	95-47-6	32		0.5	1
10335	Xylene (Total)	1330-20-7	420		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	9.0		0.10	10
08357	2-Methylnaphthalene	91-57-6	3.7		0.010	1
08357	Naphthalene	91-20-3	38		0.31	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	7,500		250	5
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.	240		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	2.1		0.082	1

Sample Description: GW-031315-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7809745
LL Group # 1546168
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/13/2015 by LB

Submitted: 03/18/2015 10:00
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Conestoga-Rovers & Associates
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

TSEFD

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample
Trip blank vials were not received by the laboratory for this sample group.

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	E150842AA	03/26/2015 00:50	Sara E Johnson	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	E150842AA	03/26/2015 01:10	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E150842AA	03/26/2015 00:50	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E150842AA	03/26/2015 01:10	Sara E Johnson	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/21/2015 00:03	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15078WAA026	03/21/2015 02:50	Brian K Graham	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15078WAA026	03/19/2015 15:00	Seth A Farrier	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15084A20A	03/26/2015 20:42	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	15084A20A	03/26/2015 20:42	Brett W Kenyon	5
10398	EDB by 8011	SW-846 8011	1	150800011A	03/23/2015 15:31	Matthew S Listner	1
07786	EDB Extraction	SW-846 8011	1	150800011A	03/22/2015 09:00	Kelli M Barto	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	150800015A	03/23/2015 15:02	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	150800015A	03/22/2015 21:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	150816050002A	03/24/2015 20:24	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	150816050002	03/24/2015 08:27	James L Mertz	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1546168
Reported: 03/29/2015 12:37

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: E150842AA	Sample number(s): 7809731-7809745							
Acetone	N.D.	6.	ug/l	125		55-129		
Benzene	N.D.	0.5	ug/l	112		78-120		
Bromobenzene	N.D.	1.	ug/l	102		80-120		
Bromochloromethane	N.D.	1.	ug/l	106		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	111		73-120		
Bromoform	N.D.	0.5	ug/l	114		52-123		
Bromomethane	N.D.	0.5	ug/l	73		53-130		
2-Butanone	N.D.	3.	ug/l	117		54-133		
n-Butylbenzene	N.D.	1.	ug/l	91		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	97		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	96		80-120		
Carbon Disulfide	N.D.	1.	ug/l	103		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	113		74-130		
Chlorobenzene	N.D.	0.5	ug/l	99		80-120		
Chloroethane	N.D.	0.5	ug/l	82		56-120		
Chloroform	N.D.	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.5	ug/l	98		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	98		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	95		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	101		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	111		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	103		80-120		
Dibromomethane	N.D.	0.5	ug/l	104		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	94		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	98		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	96		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	98		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	113		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	107		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	109		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	109		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	112		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	112		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	105		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	114		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	112		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	101		76-120		
Ethylbenzene	N.D.	0.5	ug/l	101		80-120		
Hexachlorobutadiene	N.D.	2.	ug/l	92		60-120		
2-Hexanone	N.D.	3.	ug/l	104		50-131		
Isopropylbenzene	N.D.	1.	ug/l	99		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	94		76-120		

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1546168
Reported: 03/29/2015 12:37

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	113		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	114		51-124		
Methylene Chloride	N.D.	2.	ug/l	109		80-120		
Naphthalene	N.D.	1.	ug/l	98		59-120		
n-Propylbenzene	N.D.	1.	ug/l	98		80-120		
Styrene	N.D.	1.	ug/l	96		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	105		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	96		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	106		80-120		
Toluene	N.D.	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	97		69-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	100		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	94		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	98		80-120		
Trichloroethene	N.D.	0.5	ug/l	110		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	100		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	100		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	98		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	98		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	105		69-120		
m+p-Xylene	N.D.	0.5	ug/l	99		80-120		
o-Xylene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: 15078WAA026	Sample number(s): 7809731-7809738,7809741-7809745							
Benzo(a)anthracene	N.D.	0.010	ug/l	96	88	71-127	9	30
Benzo(a)pyrene	N.D.	0.010	ug/l	94	86	64-132	9	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	106	97	71-139	8	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	98	91	63-136	7	30
Chrysene	N.D.	0.010	ug/l	97	91	72-132	6	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	83	76	37-142	9	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	88	82	45-136	8	30
1-Methylnaphthalene	N.D.	0.010	ug/l	83	74	65-122	11	30
2-Methylnaphthalene	N.D.	0.010	ug/l	88	80	59-124	10	30
Naphthalene	N.D.	0.030	ug/l	81	74	69-119	9	30
Batch number: 15083A20A	Sample number(s): 7809731-7809736,7809738-7809744							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	97		80-123		
Batch number: 15084A20A	Sample number(s): 7809737,7809745							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	103	101	80-123	1	30
Batch number: 150780023A	Sample number(s): 7809731-7809740							
Ethylene dibromide	N.D.	0.010	ug/l	104	105	60-140	2	20
Batch number: 150780038A	Sample number(s): 7809741-7809744							
Ethylene dibromide	N.D.	0.010	ug/l	107	105	60-140	2	20
Batch number: 150800011A	Sample number(s): 7809745							
Ethylene dibromide	N.D.	0.010	ug/l	92	94	60-140	3	20
Batch number: 150780036A	Sample number(s): 7809731-7809742							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	71		32-117		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 150800015A	Sample number(s): 7809743-7809745							

*- 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: 1546168
Reported: 03/29/2015 12:37

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	81	83	32-117	2	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 150816050002A	Sample number(s): 7809738,7809745							
Lead	N.D.	0.082	ug/l	106		80-120		
Batch number: 150836050005A	Sample number(s): 7809731-7809737,7809741-7809744							
Lead	N.D.	0.082	ug/l	103		80-120		

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: E150842AA	Sample number(s): 7809731-7809745 UNSPK: 7809738								
Acetone	119	126	35-144	5	30				
Benzene	113	116	72-134	3	30				
Bromobenzene	103	104	82-115	1	30				
Bromochloromethane	108	111	76-134	3	30				
Bromodichloromethane	114	119	73-125	4	30				
Bromoform	109	113	48-118	4	30				
Bromomethane	74	75	47-129	1	30				
2-Butanone	119	122	44-135	3	30				
n-Butylbenzene	95	95	74-134	0	30				
sec-Butylbenzene	101	101	74-137	0	30				
tert-Butylbenzene	99	100	81-121	1	30				
Carbon Disulfide	103	107	53-149	3	30				
Carbon Tetrachloride	116	119	75-148	2	30				
Chlorobenzene	98	101	87-124	3	30				
Chloroethane	84	87	55-130	3	30				
Chloroform	112	114	81-134	1	30				
Chloromethane	98	101	61-125	3	30				
2-Chlorotoluene	99	99	82-118	1	30				
4-Chlorotoluene	96	94	84-122	2	30				
1,2-Dibromo-3-chloropropane	136*	138*	50-123	2	30				
Dibromochloromethane	105	108	74-116	3	30				
1,2-Dibromoethane	102	104	77-116	1	30				
Dibromomethane	104	108	83-119	4	30				
1,2-Dichlorobenzene	95	96	84-119	1	30				
1,3-Dichlorobenzene	100	97	86-121	3	30				
1,4-Dichlorobenzene	98	99	85-121	0	30				
Dichlorodifluoromethane	100	102	58-156	2	30				
1,1-Dichloroethane	115	119	84-129	3	30				
1,2-Dichloroethane	108	111	63-142	3	30				
1,1-Dichloroethene	110	112	79-137	2	30				
cis-1,2-Dichloroethene	110	114	80-141	3	30				
trans-1,2-Dichloroethene	115	116	86-131	1	30				
1,2-Dichloropropane	115	117	83-124	2	30				
1,3-Dichloropropane	100	102	81-120	2	30				
2,2-Dichloropropane	106	109	69-135	3	30				
1,1-Dichloropropene	119	120	86-137	1	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: 1546168
Reported: 03/29/2015 12:37

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
cis-1,3-Dichloropropene	111	114	70-116	3	30				
trans-1,3-Dichloropropene	100	101	74-119	2	30				
Ethylbenzene	90	94	71-134	1	30				
Hexachlorobutadiene	100	97	56-134	4	30				
2-Hexanone	106	107	38-131	1	30				
Isopropylbenzene	96	99	75-128	2	30				
p-Isopropyltoluene	96	97	76-123	0	30				
Methyl Tertiary Butyl Ether	113	118	72-126	4	30				
4-Methyl-2-pentanone	115	120	45-128	4	30				
Methylene Chloride	110	111	78-133	0	30				
Naphthalene	99	103	52-125	1	30				
n-Propylbenzene	94	94	74-134	0	30				
Styrene	105	106	78-125	1	30				
1,1,1,2-Tetrachloroethane	102	105	80-123	3	30				
1,1,2,2-Tetrachloroethane	95	94	72-128	1	30				
Tetrachloroethene	107	108	80-128	1	30				
Toluene	101	103	80-125	1	30				
1,2,3-Trichlorobenzene	99	102	62-133	3	30				
1,2,4-Trichlorobenzene	102	103	56-137	1	30				
1,1,1-Trichloroethane	94	96	69-140	2	30				
1,1,2-Trichloroethane	101	102	71-141	0	30				
Trichloroethene	115	118	88-133	3	30				
Trichlorofluoromethane	102	105	63-163	3	30				
1,2,3-Trichloropropane	99	101	76-118	1	30				
1,2,4-Trimethylbenzene	-45 (2)	-39 (2)	72-130	0	30				
1,3,5-Trimethylbenzene	55 (2)	52 (2)	65-132	0	30				
Vinyl Chloride	106	109	66-133	3	30				
m+p-Xylene	71*	78*	79-125	2	30				
o-Xylene	82	91	79-125	2	30				
Xylene (Total)	75*	83	79-125	2	30				
Batch number: 15083A20A	Sample number(s): 7809731-7809736,7809738-7809744 UNSPK: 7809738								
NWTPH-Gx water C7-C12	94	99	75-135	2	30				
Batch number: 150780023A	Sample number(s): 7809731-7809740 UNSPK: 7809738								
Ethylene dibromide	104	111	60-140	7	20				
Batch number: 150780038A	Sample number(s): 7809741-7809744 UNSPK: P809517								
Ethylene dibromide	113	115	60-140	2	20				
Batch number: 150800011A	Sample number(s): 7809745 UNSPK: P810455								
Ethylene dibromide	86	80	60-140	3	20				
Batch number: 150780036A	Sample number(s): 7809731-7809742 UNSPK: 7809738								
DRO C12-C24 w/Si Gel	116*	103	48-115	8	20				
Batch number: 150816050002A	Sample number(s): 7809738,7809745 UNSPK: 7809738 BKG: 7809738								
Lead	102	109	75-125	5	20	3.5	3.5	2 (1)	20
Batch number: 150836050005A	Sample number(s): 7809731-7809737,7809741-7809744 UNSPK: P806754 BKG: P806754								
Lead	108	107	75-125	1	20	0.23 J	0.24 J	4 (1)	20

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1546168
Reported: 03/29/2015 12:37

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: E150842AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7809731	107	102	93	102
7809732	107	103	94	103
7809733	109	100	92	103
7809734	109	102	92	102
7809735	109	105	93	103
7809736	109	102	92	102
7809737	108	103	92	102
7809738	105	104	94	102
7809739	106	101	93	102
7809740	106	104	94	102
7809741	109	101	93	102
7809742	110	104	93	102
7809743	109	99	92	100
7809744	110	104	92	102
7809745	109	104	92	102
Blank	105	100	93	101
LCS	104	101	94	102
MS	106	101	93	102
MSD	106	104	94	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15078WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7809731	94	99	72
7809732	82	74	76
7809733	93	88	86
7809734	94	97	71
7809735	81	103	71
7809736	70	60	66
7809737	91	71	70
7809738	99	64	78
7809741	94	99	74
7809742	83	105	77
7809743	98	67	75
7809744	98	93	74
7809745	101	94	89
Blank	103	108	85
LCS	97	107	78
LCSD	86	99	68
Limits:	56-134	26-158	52-127

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 15083A20A

	Trifluorotoluene-F
7809731	107

*- 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: 1546168
Reported: 03/29/2015 12:37

Surrogate Quality Control

7809732	110
7809733	111
7809734	106
7809735	118
7809736	103
7809738	110
7809739	114
7809740	118
7809741	103
7809742	110
7809743	111
7809744	108
Blank	108
LCS	118
MS	114
MSD	118
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 15084A20A

	Trifluorotoluene-F
7809737	93
7809745	100
Blank	94
LCS	103
LCSD	98
Limits:	63-135

Analysis Name: EDB by 8011
Batch number: 150780023A

	1,1,2,2-Tetrachloroethane
7809731	117
7809732	126
7809733	123
7809734	124
7809735	129
7809736	123
7809737	117
7809738	122
7809739	127
7809740	128
Blank	111
LCS	111
LCSD	112
MS	127
MSD	128
Limits:	46-136

Analysis Name: EDB by 8011
Batch number: 150780038A

	1,1,2,2-Tetrachloroethane
7809741	101
7809742	99

*- 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: 1546168
Reported: 03/29/2015 12:37

Surrogate Quality Control

7809743	148*
7809744	97
Blank	107
LCS	105
LCSD	101
MS	113
MSD	124
Limits:	46-136

Analysis Name: EDB by 8011
Batch number: 150800011A

	1,1,2,2-Tetrachloroethane
7809745	106
Blank	101
LCS	97
LCSD	97
MS	116
MSD	118
Limits:	46-136

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 150780036A

	Orthoterphenyl
7809731	82
7809732	87
7809733	86
7809734	88
7809735	95
7809736	82
7809737	81
7809738	93
7809739	78
7809740	83
7809741	86
7809742	96
Blank	79
LCS	91
MS	78
MSD	83
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 150800015A

	Orthoterphenyl
7809743	95
7809744	94
7809745	95
Blank	93
LCS	102
LCSD	104
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.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1546168
Reported: 03/29/2015 12:37

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

acct# 13534 Gp# 1546168 sample# 7809731-45

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility # P6605173 / Chevron 301233
CLIENT: CRA
SITE: Tidewater ~~McMinnville~~ SEATTLE
2800 Martin Luther King Jr., Way
Seattle, WA

C = COMPOSITE ALL CONTAINERS

SPECIAL INSTRUCTIONS
Invoice: As Contracted
Report to: CRA - Matt Davis - 253.573.1218
mdavis@craworld.com
J Value reporting needed, Must meet lowest detection limit
~~MS/MSD for NWTPH-Gx, NWTPH-Dx, VOCs, EDB Only~~ LB

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW-031215-LB-MW-1	3/12/15	1215	W	14	VOA, POLY, AMBER		X	X	X	X	X	X				
GW-031215-LB-MW-2	3/12/15	1246	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-3	3/13/15	1138	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-4	3/13/15	1223	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-5	3/13/15	1102	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-6	3/13/15	0928	W	14			X	X	X	X	X	X				
GW-031315-LB-MW-7	3/13/15	1015	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-8	3/12/15	1325	W	42			X	X	X	X	X	X				
GW-031215-LB-MW-9	3/12/15	1132	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-10	3/12/15	0843	W	14			X	X	X	X	X	X				
GW-031215-LB-MW-11	3/12/15	1023	W	14			X	X	X	X	X	X				

SAMPLING COMPLETED: DATE 3/13/15 TIME 1300
SAMPLING PERFORMED BY: LEE BURES

RESULTS NEEDED NO LATER THAN: Standard TAT

	DATE	TIME		DATE	TIME
RELEASED BY	3/13/15		RECEIVED BY: ELLE	3/17/15	15:30
RELEASED BY			RECEIVED BY		
RELEASED BY			RECEIVED BY	3/18/15	1006

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

acct# 13534 Grp# 1546168 Sample# 7809731-45

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	CRA
SITE	Tidewater ~~McMinnville~~ SEATTLE
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: CRA - Matt Davis - 253.573.1218
mdavis@craworld.com

J Value reporting needed, Must meet lowest detection limit

~~MS/MSD for NWTPH-Gx, NWTPH-Dx, VOCs, EDB Only~~ LB

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW-031215-LB-MW-13	3/12/15	1057	W	14	VOA, POLY, AMBER		X	X	X	X	X	X				
GW-031315-LB-DUP	3/13/15	—	W	14	↓		X	X	X	X	X	X				

	DATE	TIME		
SAMPLING COMPLETED	3/13/15	1300	SAMPLING PERFORMED BY	LEE BORES

RESULTS NEEDED NO LATER THAN: Standard TAT

	DATE	TIME		DATE	TIME
RELEASED BY	3/13/15		RECEIVED BY	3/17/15	15:30
RELEASED BY			RECEIVED BY		
RELEASED BY			RECEIVED BY	3/18/15	1000

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

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
>	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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) 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.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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.