



**CONESTOGA-ROVERS
& ASSOCIATES**

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

September 18, 2014

Reference No. 061992

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

Re: First Quarter 2014 Groundwater Monitoring and Sampling Report
Former Tidewater Site
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington
DOE Case 42746846; VCP No. NW2612

Dear Ms. Sanchez,

Conestoga-Rovers & Associates (CRA) is submitting this *First Quarter 2014 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Phillips 66 Company and Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by CRA. CRA'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 2014 EVENT

On March 18 and 19, 2014, CRA monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following.

- Groundwater Flow Direction Southwest (Figure 3)
- Hydraulic Gradient 0.04
- Approximate Depth to Water 8 to 12 feet below grade
- Approximate Groundwater Elevation 46 to 54 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.

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TABLE A: GROUNDWATER ANALYTICAL DATA

<i>Well ID</i>	<i>TPHg (µg/L)</i>	<i>TPHd (µg/L)</i>	<i>TPHo (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>MTCA Method A Cleanup Levels</i>	800/1000*	500	500	5	1000	700	1000
MW-1	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-2	870	180	<66	0.9	<0.5	3	2
MW-3	6,300	180	<66	<0.5	<0.5	100	410
MW-4	<50	<29	<67	<0.5	<0.5	0.5	<0.5
MW-5	1,700	110	<67	<0.5	<0.5	34	150
MW-6	<50	<29	<68	4	<0.5	<0.5	<0.5
MW-7	<50	<29	<68	<0.5	<0.5	<0.5	<0.5
MW-8	8,400	2,400	<67	<0.5	<0.5	33	370
MW-8 DUP	8,800	2,200	110	<0.5	<0.5	42	480
MW-9	96	37	<66	<0.5	<0.5	<0.5	<0.5
MW-10	520	190	<66	2	0.7	<0.5	6
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						

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-2, MW-3, MW-5, 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.



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

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

CRA will monitor and sample site wells per the established schedule. The second quarter 2014 event was performed in May 2014. CRA will submit a groundwater monitoring and sampling report approximately 90 days following receipt of laboratory analytical results.

Remedial Investigation/Feasibility Study (RI/FS) Work Plan

CRA submitted a RI/FS Work Plan to the Department of Ecology in November 2013. CRA began implementation of the work plan in June 2014. RI/FS field activities should be concluded prior to the end of the third quarter of 2014.

Please contact Matthew Davis (253) 573-1218 or Edwin Turner at (425) 563-6500 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Matthew Davis

MD/aa/9

Encl.



**CONESTOGA-ROVERS
& ASSOCIATES**

September 18, 2014

Reference No. 061992

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

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

FIGURES

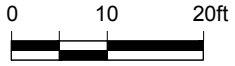


Figure 1

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

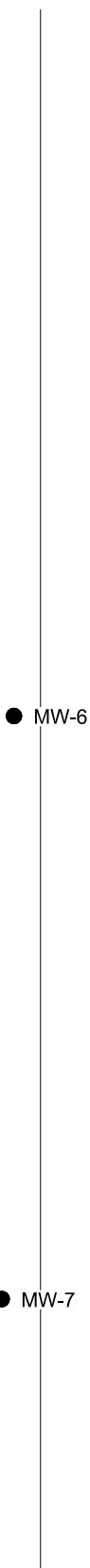


SOUTH McCLELLAN STREET



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- P-1 PREVIOUS GEOPROBE BORING
- B-4 SOIL BORING
- GL-2 AUGER BORING LOCATION WITH GROUNDWATER SAMPLE
- ▣ GL-1 AUGER BORING LOCATION
- IP-1 FORMER INJECTION WELL LOCATION
- ⊠ B-4 SOIL SAMPLE LOCATION



MARTIN LUTHER KING WAY

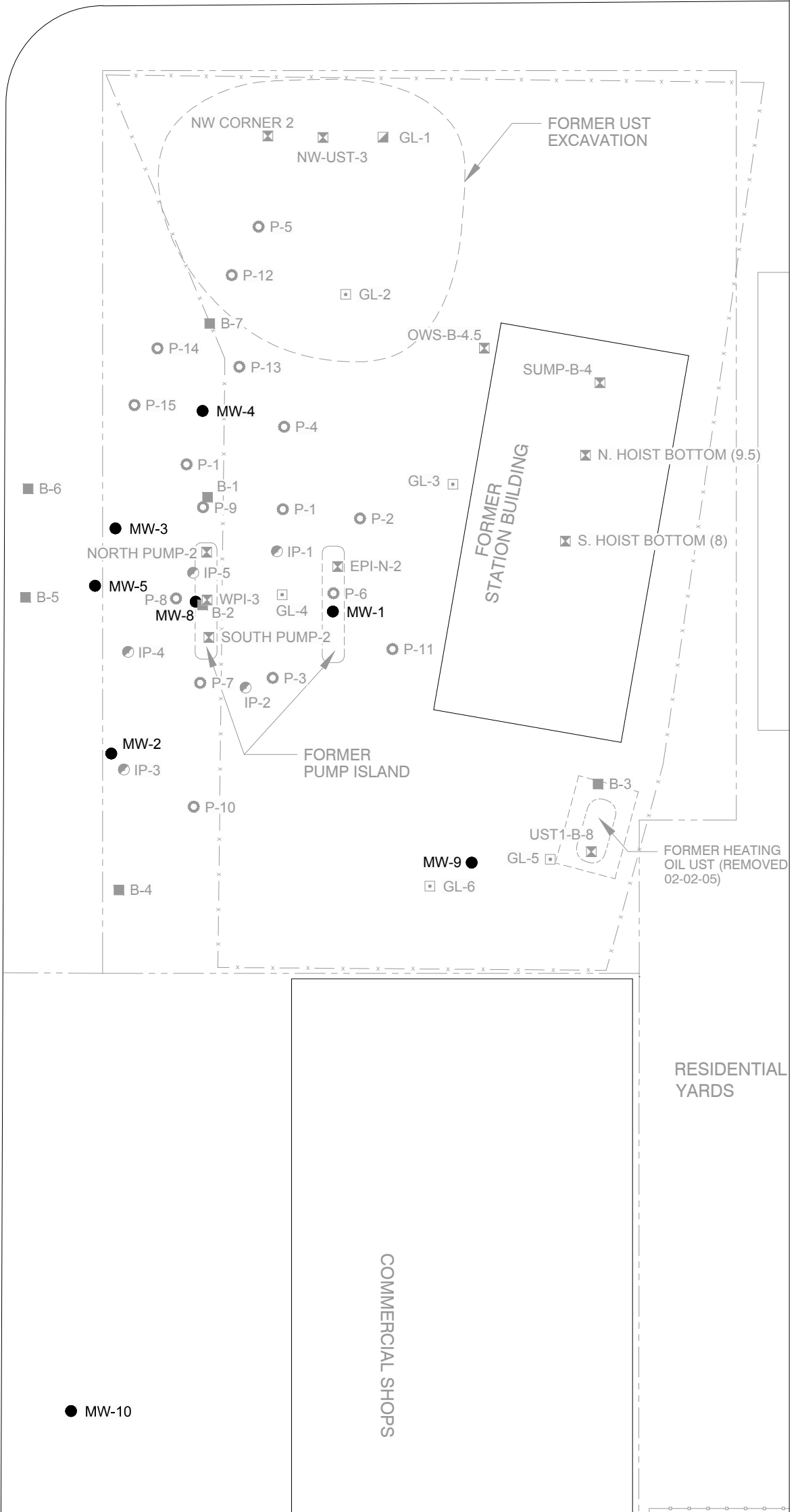


Figure 2

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



SOUTH McCLELLAN STREET



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- | |
|------|
| WELL |
| ELEV |

 WELL DESIGNATION
GROUNDWATER ELEVATION (MSL)
- 50.0 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT

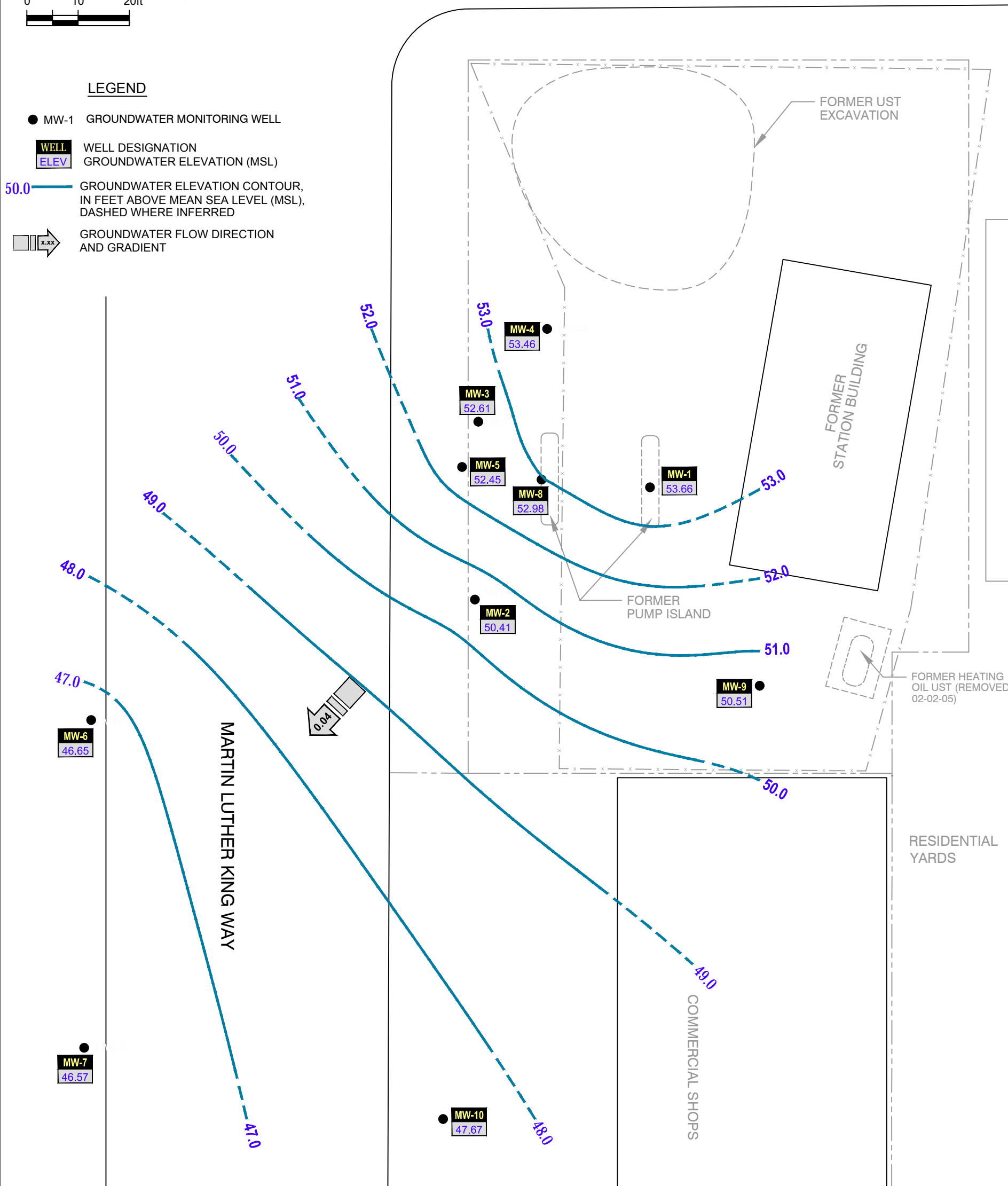
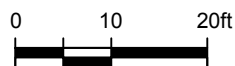
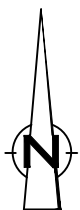


Figure 3
GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
March 18, 2014



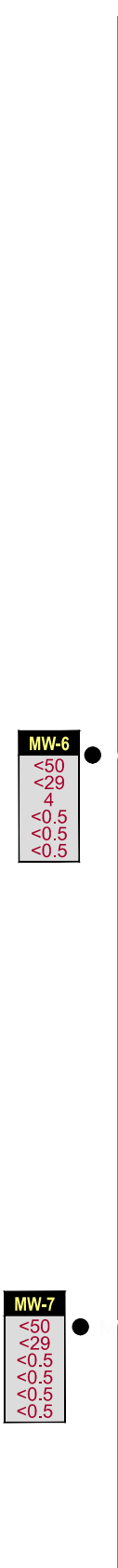
SOUTH McCLELLAN STREET



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- | WELL | WELL DESIGNATION |
|-------|------------------------------------|
| TPHg | TPHg CONCENTRATION (µg/L) |
| TPHd | TPHd CONCENTRATION (µg/L) |
| BENZ | BENZENE CONCENTRATION (µg/L) |
| TOL | TOLUENE CONCENTRATION (µg/L) |
| ETH | ETHYLBENZENE CONCENTRATION (µg/L) |
| TOTAL | TOTAL XYLENES CONCENTRATION (µg/L) |

D DUPLICATE



MARTIN LUTHER KING WAY

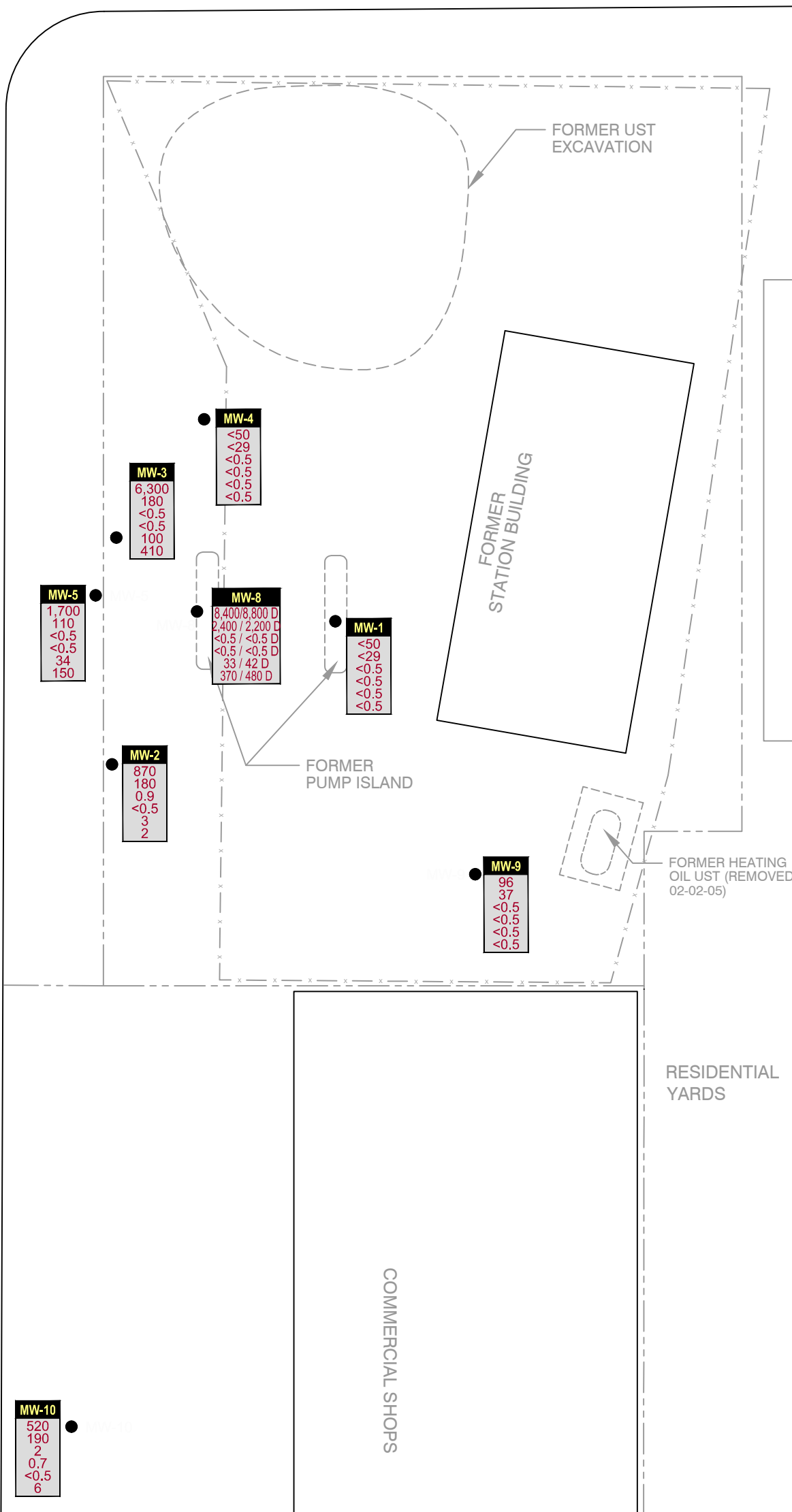
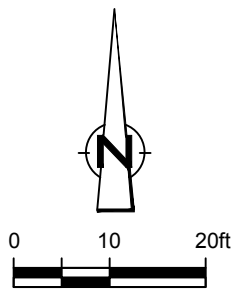


Figure 4

GROUNDWATER CONCENTRATION MAP
 FORMER TIDEWATER SERVICE STATION
 PHILLIPS 66 SITE 5173
 CHEVRON SITE 301233
 2800 MARTIN LUTHER KING WAY SOUTH
 Seattle, Washington
 March 18 and 19, 2014





LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- 1,000 ——— TPHg CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L)
DASHED WHERE INFERRED
- WELL DESIGNATION
TPHg CONCENTRATION (µg/L)
- D DUPLICATE

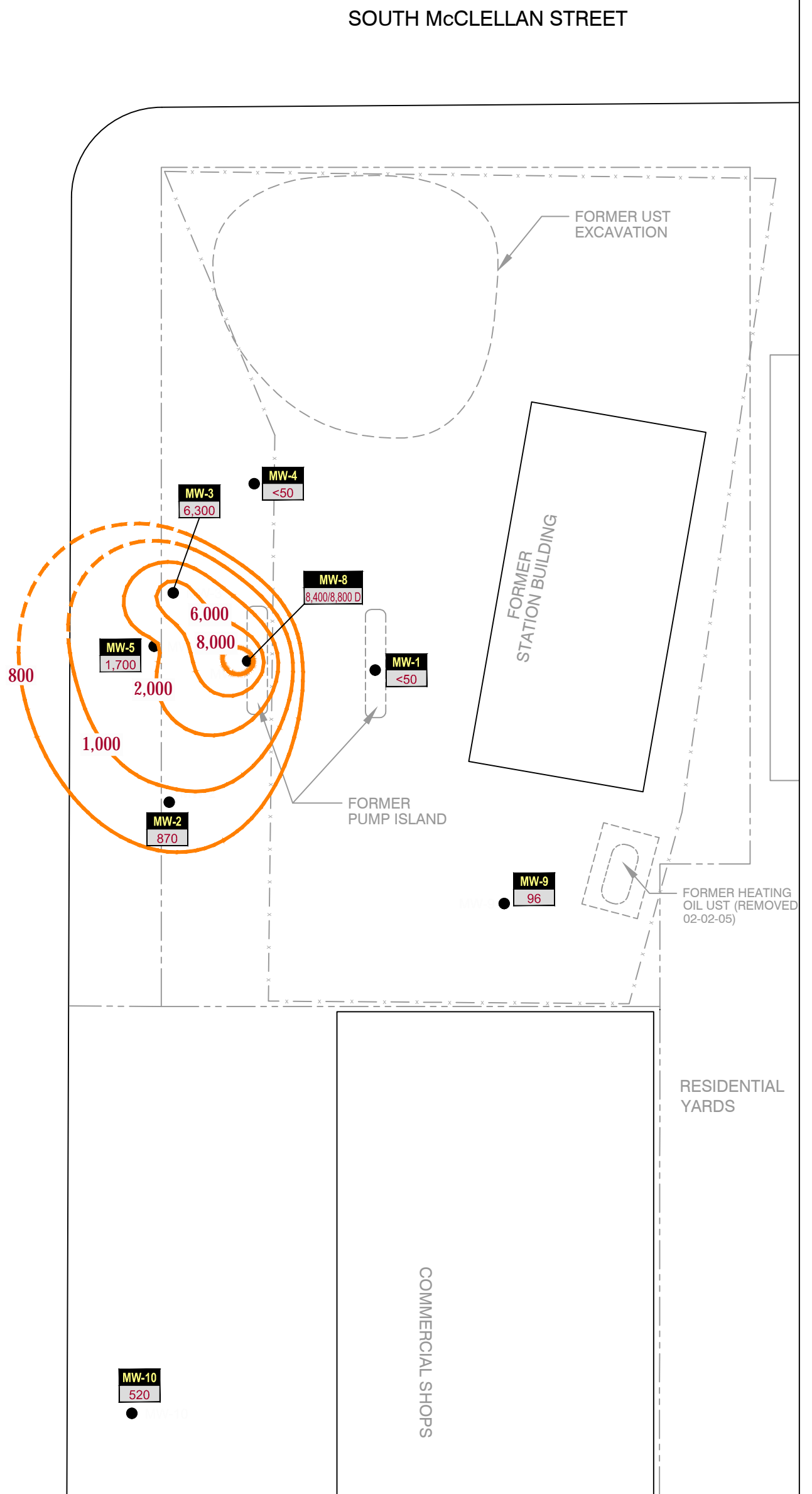
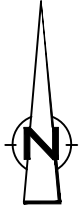


Figure 5
 TPHg ISOCONCENTRATION CONTOUR MAP
 FORMER TIDEWATER SERVICE STATION
 PHILLIPS 66 SITE 5173
 CHEVRON SITE 301233
 2800 MARTIN LUTHER KING WAY SOUTH
 Seattle, Washington
 March 18 and 19, 2014



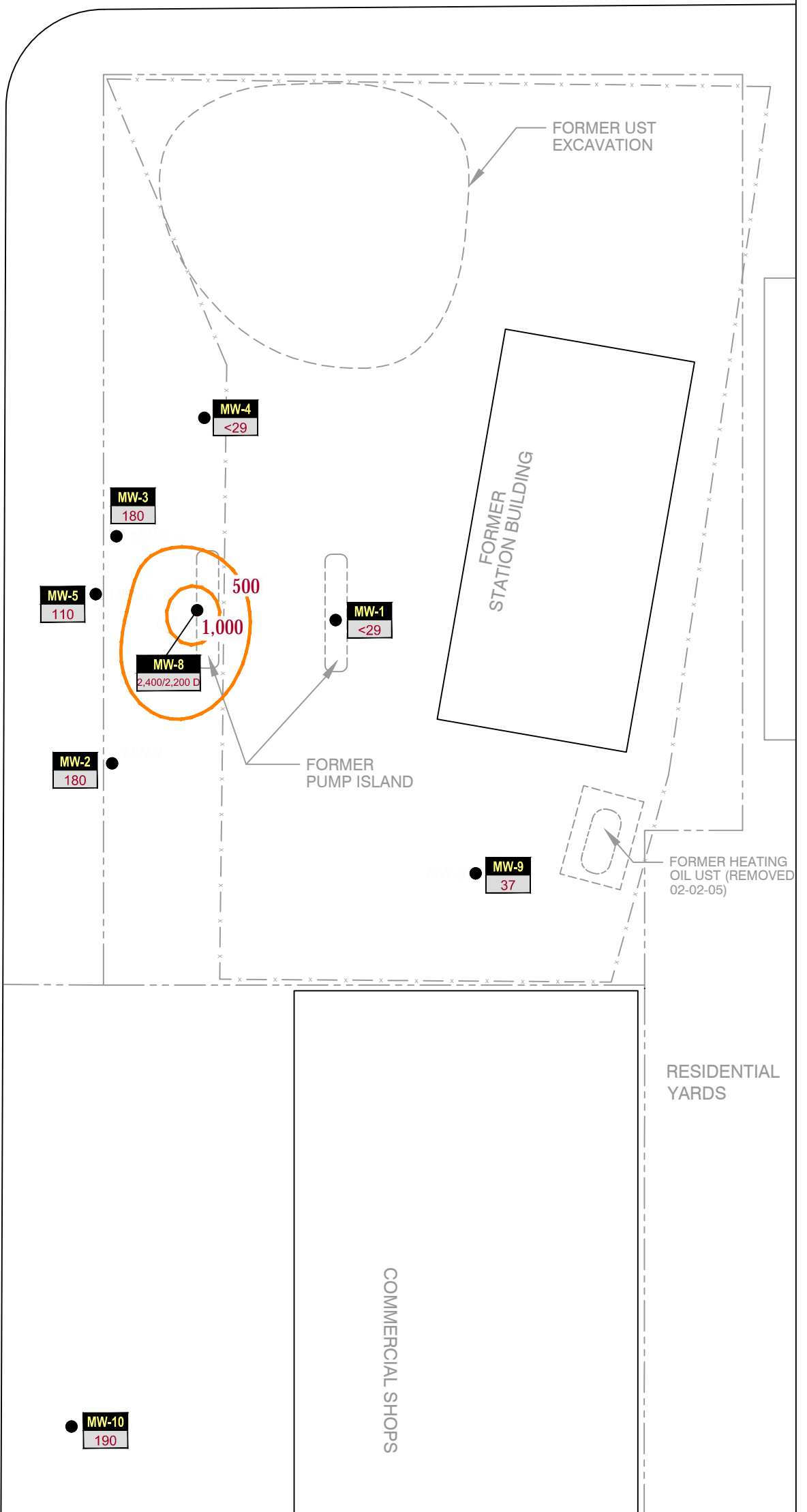
SOUTH McCLELLAN STREET



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- 500 ——— TPHd CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L) DASHED WHERE INFERRED
- WELL DESIGNATION
TPHd CONCENTRATION (µg/L)
- D DUPLICATE

MARTIN LUTHER KING WAY



MW-6
<29

MW-7
<29

MW-2
180

MW-5
110

MW-3
180

MW-4
<29

MW-8
2,400/2,200 D

MW-1
<29

MW-9
37

MW-10
190

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 18 and 19, 2014



TABLE

TABLE 1

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
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	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	<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	1.7	0.007399
MW-1	08/08/2012	62.35	11.36	50.99	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.32	-
MW-1	12/05/2012	62.35	9.51	52.84	<50	<29 ^d	<69 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	27.7	-
MW-1	02/26/2013	62.35	10.62	51.73	<50	<30 ^d	<71 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.42	-
MW-1	05/23/2013	62.35	11.14	51.21	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.7	-
MW-1	08/29/2013	62.35	12.10	50.25	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.42	-
MW-1	11/13/2013	62.35	11.79	50.56	<50	<32 ^d	<74 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.15	-
MW-1	03/19/2014	62.35	8.69	53.66	<50	<29^d	<67^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.20	-
MW-2	08/19/2005	96.25	13.02	83.23	2,000	-	-	ND	10	81	91	-	-	-	-	-	-	-	-	-	-	-

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitrobenzene	1,3,5-Trinitrobenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
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	µg/L	µg/L
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 ^d	<67 ^d	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 ^d	<73 ^d	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 ^d	<68 ^d	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.19	-	-
MW-2	05/23/2013	60.72	11.15	49.57	470	200 ^d	<66 ^d	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 ^d	<67 ^d	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 ^d	<67 ^d	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	21	0.14	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
	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	µg/L
MW-2	03/18/2014	60.72	10.31	50.41	870	180 ^d	<66 ^d	0.9	<0.5	3	2	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.90	-	
MW-3	08/19/2005	97.43	12.72	84.71	44,000	-	-	4.1	18	780	3,600	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/27/2005	97.43	13.42	84.01	17,000	-	-	ND	38	580	3,000	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/28/2005	-	-	-	6,600	-	-	5	22	200	1,100	-	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2006	97.43	8.84	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/02/2006	97.43	10.90	86.53	22,000	-	-	ND	26	450	4,200	-	-	-	-	-	-	-	-	-	-	-
MW-3	04/13/2006	97.43	11.92	85.51	33,000	-	-	ND	3	700	3,100	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/28/2006	97.43	12.17	85.26	53,000	-	-	ND	17	530	2,600	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/13/2006	97.43	13.91	83.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/11/2006	97.43	13.77	83.66	14,000	-	-	ND	5.6	180	1,100	-	-	-	-	-	-	-	-	-	-	-
MW-3	10/13/2006	97.43	-	-	1,400	-	-	ND	1	26	98	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/17/2006	97.43	10.56	86.87	48,000	-	-	ND	34	490	4,100	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/01/2006	97.43	9.78	87.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/06/2006	97.43	10.01	87.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2007	97.43	10.90	86.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/12/2007	97.43	-	-	36,000	-	-	ND	10	280	1,800	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/28/2007	97.43	11.12	86.31	22,000	-	-	ND	6	200	1,400	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/07/2007	97.43	11.17	86.26	21,000	-	-	ND	18	170	1,000	-	-	-	-	-	-	-	-	-	-	-
MW-3	04/11/2007	97.43	11.04	86.39	19,000	-	-	ND	6	110	1,100	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/12/2009	97.43	11.98	85.45	71.7	-	-	ND	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/31/2011	61.81	12.10	49.71	7,400	370	<68	<1.0	<1	190	554	<2	<2	<1	67	1,300	330	140	47	-	-	-
MW-3	12/15/2011	61.81	11.38	50.43	5,400	<29	<67	<0.5	<0.7	120	400	<1	<1	<0.5	50	950	210	110	37	-	-	-
MW-3	02/06/2012	61.81	10.33	51.48	6,300	1,200	<68	<1	<1	130	523	<2	<2	<1	49	870	190	74	27	-	-	-
MW-3	05/30/2012	61.81	10.87	50.94	7,400	520	<66	<1	<1	160	660	<2	<2	<1	66	1,100	220	100	38	1.1	0.012868	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
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	µg/L	µg/L
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290 ^d	<67 ^d	<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 ^d	<69 ^d	<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 ^d	<66 ^d	<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 ^d	<67 ^d	<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 ^d	<70 ^d	<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 ^d	<67 ^d	<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^d	<66^d	<0.5	<0.5	100	410	<0.5	<0.5	<0.5	49	790	99	82	35	1.2	-	
MW-4	06/28/2006	98.36	12.40	85.96	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	
MW-4	12/01/2006	98.36	9.90	88.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	12/06/2006	98.36	10.21	88.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	02/28/2007	98.36	11.43	86.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	03/07/2007	98.36	11.49	86.87	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	
MW-4	04/11/2007	98.36	11.27	87.09	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	
MW-4	11/12/2009	98.36	11.82	86.54	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-	
MW-4	08/31/2011	62.75	12.42	50.33	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-	
MW-4	12/15/2011	62.75	11.69	51.06	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-	
MW-4	02/06/2012	62.75	10.50	52.25	<50	55	<67	<0.5	<0.7	<0.8	<1.6	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-	
MW-4	05/30/2012	62.75	11.11	51.64	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	0.007248	
MW-4	08/07/2012	62.75	11.76	50.99	<50	<29 ^d	<68 ^d	<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 ^d	<75 ^d	<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 ^d	<66 ^d	<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 ^d	<67 ^d	<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 ^d	<67 ^d	<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 ^d	<73 ^d	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
Units	ft	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	µg/L
MW-4	03/18/2014	62.75	9.29	53.46	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.14	-
MW-5	06/28/2006	97.20	12.09	85.11	21,000	-	-	ND	14	290	920	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2006	97.20	13.63	83.57	2,500	-	-	ND	ND	34	60	-	-	-	-	-	-	-	-	-	-	-
MW-5	11/17/2006	97.20	10.57	86.63	23,000	-	-	ND	52	450	1,700	-	-	-	-	-	-	-	-	-	-	-
MW-5	12/01/2006	97.20	9.75	87.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	01/12/2007	97.20	10.85	86.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/12/2007	97.20	-	-	37,000	-	-	ND	33	1,600	2,800	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/28/2007	97.20	11.05	86.15	29,000	-	-	ND	24	550	1,800	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/07/2007	97.20	11.11	86.09	42,000	-	-	11	24	740	2,500	-	-	-	-	-	-	-	-	-	-	-
MW-5	04/11/2007	97.20	10.96	86.24	65,000	-	-	ND	79	850	4,000	-	-	-	-	-	-	-	-	-	-	-
MW-5	11/12/2009	97.20	12.10	85.10	2,340	-	-	1	36	<1.0	125	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/31/2011	61.66	12.80	48.86	3,100	770	<67	2	1	72	124	<1	<1	<0.5	120	130	18	210	78	-	-	
MW-5	12/15/2011	61.66	11.41	50.25	1,900	66	<67	1	0.9	24	33	<1	<1	<0.5	81	43	3	120	43	-	-	
MW-5	02/06/2012	61.66	10.54	51.12	1,200	34	<68	0.8	<0.7	12	43	<1	<1	<0.5	37	31	6	55	21	-	-	
MW-5	05/30/2012	61.66	10.91	50.75	260	54	<66	<0.5	<0.7	3	7	<1	<1	<0.5	12	4	<1	24	9	0.48	0.009168	
MW-5	08/07/2012	61.66	11.39	50.27	610	190 ^d	<66 ^d	<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 ^d	<76 ^d	<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 ^d	<69 ^d	<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 ^d	<67 ^d	<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 ^d	<69 ^d	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 ^d	<75 ^d	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^d	<67^d	<0.5	<0.5	34	150	<0.5	<0.5	<0.5	26	170	27	52	19	0.17	-	
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	-	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
	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	µg/L
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	<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	<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	<1	2.5	-
MW-6	08/07/2012	58.03	12.21	45.82	<50	<28 ^d	<66 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.15	-
MW-6	12/06/2012	58.03	11.60	46.43	<50	<31 ^d	<73 ^d	<0.5	<0.5	1	6	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.1	-
MW-6	02/27/2013	58.03	11.77	46.26	<50	<30 ^d	<70 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.68	-
MW-6	05/24/2013	58.03	11.91	46.12	<50	<30 ^d	<70 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.20	-
MW-6	08/29/2013	58.03	12.21	45.82	<50	<28 ^d	<66 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.087	-
MW-6	11/14/2013	58.03	12.12	45.91	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.15	-
MW-6	03/18/2014	58.03	11.38	46.65	<50	<29^d	<68^d	4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.97	-
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	<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	<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	<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	<1	13.8	0.097
MW-7	08/07/2012	56.96	11.70	45.26	<50	<28 ^d	<66 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	31.7	-
MW-7	12/06/2012	56.96	10.46	46.50	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	40.3	-
MW-7	02/27/2013	56.96	10.69	46.27	<50	<29 ^d	<68 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	76.5	-
MW-7	05/24/2013	56.96	10.81	46.15	<50	<31 ^d	<72 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.9	-
MW-7	08/29/2013	56.96	11.05	45.91	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	2.9	-
MW-7	11/14/2013	56.96	10.96	46.00	<50	<29 ^d	<67 ^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	22.7	-
MW-7	03/18/2014	56.96	10.39	46.57	<50	<29^d	<68^d	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	79.3	-
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	-	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
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	µg/L	µg/L
MW-8	02/06/2012	61.71	10.00	51.71	13,000	290	<69	<1	<1	110	1,280	<2	<2	<1	89	1,400	450	36	18	-	-	
MW-8	05/30/2012	61.71	10.69	51.02	9,500	700	<68	<1	<1	110	1,300	<2	<2	<1	96	1,100	310	59	28	7.1	0.007324	
MW-8 DUP	05/30/2012	61.71	10.69	51.02	10,000	450	<66	<1	<1	110	1,300	<2	<2	<1	93	1,300	340	58	27	5.3	0.007248	
MW-8	08/08/2012	61.71	11.30	50.41	9,300	290 ⁴	<66 ⁴	<1	<1	92	850	<1	<1	<1	73	910	190	49	22	3.4	-	
MW-8 DUP	08/08/2012	61.71	11.30	50.41	11,000	240 ⁴	<66 ⁴	<1	<1	83	710	<1	<1	<1	67	680	140	44	20	3.6	-	
MW-8	12/05/2012	61.71	9.61	52.10	13,000	2,600 ⁴	200 ⁴	<0.5	0.8	95	1,100	<0.5	<0.5	<0.5	93	1,400	380	61	27	27.6	-	
MW-8 DUP	12/05/2012	61.71	9.61	52.10	12,000	2,600 ⁴	240 ⁴	<0.5	0.8	91	1,100	<0.5	<0.5	<0.5	91	1,400	360	58	26	27.4	-	
MW-8	02/26/2013	61.71	10.71	51.00	12,000	780 ⁴	<70 ⁴	<0.5	0.6	100	800	<0.5	<0.5	<0.5	86	1,200	280	63	29	5.2	-	
MW-8 DUP	02/26/2013	61.71	10.71	51.00	11,000	540 ⁴	<69 ⁴	<0.5	0.6	100	770	<0.5	<0.5	<0.5	72	1,100	280	60	29	5.3	-	
MW-8	05/23/2013	61.71	10.87	50.84	6,800	380 ⁴	<68 ⁴	<0.5	<0.5	87	700	<0.5	<0.5	<0.5	86	1,200	190	62	25	4.0	-	
MW-8 DUP	05/23/2013	61.71	10.87	50.84	7,000	380 ⁴	<68 ⁴	<0.5	0.5	100	810	<0.5	<0.5	<0.5	94	1,300	240	73	29	3.5	-	
MW-8	08/29/2013	61.71	12.00	49.71	6,600	340 ⁴	<66 ⁴	<0.5	<0.5	60	450	<0.5	<0.5	<0.5	49	680	110	47	20	2.1	-	
MW-8 DUP	08/30/2013	61.71	12.00	49.71	3,500	220 ⁴	<66 ⁴	<0.5	<0.5	47	350	<0.5	<0.5	<0.5	39	510	83	45	18	1.2	-	
MW-8	11/14/2013	61.71	11.52	50.19	8,900	390 ⁴	<67 ⁴	<0.5	0.5	79	740	<0.5	<0.5	<0.5	67	1,000	180	65	26	3.1	-	
MW-8 DUP	11/14/2013	61.71	11.52	50.19	8,000	320 ⁴	<67 ⁴	<0.5	0.6	81	760	<0.5	<0.5	<0.5	66	1,100	180	65	27	3.2	-	
MW-8	03/19/2014	61.71	8.73	52.98	8,400	2,400⁴	<67⁴	<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	2,200⁴	110⁴	<0.5	<0.5	42	480	<0.5	<0.5	<0.5	66	960	280	40	17	10.5	-	
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	62.58	12.53	40.05	66	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.31	0.007248	
MW-9	08/08/2012	62.58	13.37	49.21	<50	<29 ⁴	<67 ⁴	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.87	-	
MW-9	12/05/2012	62.58	12.05	50.53	<50	39 ⁴	<69 ⁴	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.33	-	
MW-9	02/26/2013 ⁵	62.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs															
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs		
	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	µg/L	
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	<0.5	<1	<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	<0.5	<1	<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	<0.5	<1	<1	<1	<1	<1	<1	0.087	-
MW-9	03/18/2014	62.58	12.07	50.51	96	37⁴	<66⁴	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.087	-
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	<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	<1	2	<1	<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	<1	3	1	<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	<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	<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	<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	<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	<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	<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	<0.5	<1	1	<1	13	5	0.39	-	-
MW-10	03/18/2014	58.96	11.29	47.67	520	190⁴	<66⁴	2	0.7	<0.5	6	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	40	20	<0.085	-	-
Trip Blank	08/08/2012	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<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	<0.5	<1	<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	<0.5	<1	<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	<0.5	<1	<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	-	-	-	-	-	-	-	-	-	-	-	-

**SUMMARY OF GROUNDWATER MONITORING DATA
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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	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	µg/L	µg/L

Abbreviations and Notes

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-HRO = Total petroleum hydrocarbons - oil range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene's (Total)

Xylenes = o-xylene + m,p-xylene

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

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

TABLE 1

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 SEATTLE, WASHINGTON

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs														
					TPH-GRO	TPH-DKO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	PAHs	
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	µg/L	µg/L

<x = Not detected above laboratory method detection limit.

- 1 Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
- 2 A preserved vial was submitted for analysis. However, the pH at the time of analysis was 4.
- 3 Well not sampled - well not found.
- 4 Analysis with silica-gel cleanup.
- 5 Inaccessible.

ATTACHMENT A

MONITORING DATA PACKAGE

037894-30
Petarcik

Water Quality Meter S/N: 63811

Date: 3/19/14

Location: 2900 MLK way / MW-1
 Name of Sampler: Bm Jay
 Weather: Cloudy / rain
 Depth to Water: 8.69 Sample Depth: 210 ft
 Depth to Bottom: _____

QA/QC
 MS/MSD _____
 Duplicate _____
 Blank _____

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

Sample IDs (GW-mmddyy-AA-XXX) A Samplers Initials
 _____ x Location ID

GW- 031914-Bp-MW-1

Sample Method: low flow 1 Well Volume: _____
 Purge Start: 0900 0910 3 Well Volumes: _____
 Sample Time: 1000 water column height(ft) X
0.162(2" casing)

Time	pH (+/- 1.0 S.U.)	Cond (mS/cm) 10%	Turb. (NTU)	DO (mg/L)	Temp (C°) 10%	ORP (mV)	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
0900	6.76											
0910	6.76	0.392	360	7.46	9.99	4	0.02	0.250	0		9.32	clear / slight brown
0920	6.45	0.374	116	1.76	10.13	29	0.02	0.243	0.1		9.76	
0925	6.45	0.375	116	1.01	10.26	43	0.02	0.244	0.4		9.76	clear slight brown
0930	6.45	0.378	24.0	0.69	10.31	53	0.02	0.246	0.8		9.79	
0935	6.46	0.380	31.6	0.49	10.34	60	0.02	0.247	1.2		9.80	
0940	6.46	0.385	12.7	0.26	10.39	64	0.02	0.251	1.5		9.82	clear slight brown
0945	6.46	0.391	16.4	0.08	10.43	70	0.02	0.255	1.8		9.84	
0950	6.46	0.398	7.6	0.00	10.48	62	0.02	0.259	2.2		9.82	
0955	6.46	0.401	4.6	0.00	10.52	71	0.02	0.260	2.5		9.81	
1000	6.47	0.403	4.1	0.00	10.58	77	0.02	0.262	3.0		9.82	clear slight brown

Analysis:
Groundwater
 VOCs (6 voas)

Preservative
 HCL

Notes:

Signed _____

037894-30
Petarcik

Water Quality Meter S/N: 63961

Date: 3/18/14

Location: MW-2
 Name of Sampler: Prins Park
 Weather: cloudy
 Depth to Water: 10.31 Sample Depth: 11.30
 Depth to Bottom: _____

QA/QC
 MS/MSD _____
 Duplicate _____
 Blank _____

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

Sample IDs (GW-mmddyy-AA-XXX) A Samplers Initials
x Location ID
GW-031814-BP-MW-2

Sample Method: low flow 1 Well Volume: _____
 Purge Start: 1330 1330 3 Well Volumes: _____
 Sample Time: 1400 water column height(ft) X
0.162(2" casing)

Time	pH (+/- 1.0 S.U.)	Cond (mS/cm) 10%	Turb. (NTU)	DO (mg/L)	Temp (C°) 10%	ORP (mV)	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	WL (Feet BTOC)	Water Quality/Description
1330	6.57	0.548	56.5	3.97	12.0	-54	0.03	-	0		9.46	9.57
1335	6.40	0.550	55.7	1.46	11.94	-58	0.03	0.313	0.1			clear, odor
1340	6.32	0.545	59.1	0.54	11.85	-63	0.03	0.348	0.2		9.71	
1345	6.27	0.532	45.1	0.07	11.81	-68	0.03	0.340	0.5			clear w/ slight yellow odor
1350	6.25	0.528	33.0	0.00	11.76	-74	0.03	0.338	0.8		10.02	odor
1355	6.24	0.527	37.5	0.0	11.71	-77	0.03	0.337	1.0			
1400	6.24	0.526	41.1	0.0	11.79	-80	0.03	0.336	1.2		10.01	clear w/ odor

Analysis:
Groundwater
 VOCs (6 voas)

Preservative
 HCL

Notes:

Signed _____

Date: 3/18/14

Water Quality Meter S/N: _____

Location: MW-7
 Name of Sampler: J. Mullin
 Weather: Cloudy and cool

QA/QC
 MS/MSD _____
 Duplicate _____
 Blank _____

Depth to Water: 10.40 ft Sample Depth: ~12 ft
 Depth to Bottom: 20.00 ft

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
 x Location ID

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

GW- 031814-JM-MW-7

Sample Method: Low Flow 1 Well Volume: _____
 Purge Start: 11:55, 1:20 3 Well Volumes: _____
 Sample Time: 1:20:5

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

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
1115											10.40	Troubleshoot battery
1125											10.41	Gray, clearing up within 1 min
1130	6.79	0.465	330	1.25	12.69	-59	0.2	0.307			10.40	Clear, no odor
1135	6.79	0.465	224	1.13	12.65	-61	0.2	0.302			10.40	
1140	6.81	0.457	289	0.89	12.63	-69	0.2	0.297			10.40	
1145	6.81	0.456	307	0.86	12.65	-69	0.2	0.296			10.40	
1150	6.81	0.448	180	0.78	12.74	-70	0.2	0.291			10.40	
1155	6.81	0.441	132	0.79	12.79	-71	0.2	0.287			10.40	
1200	6.81	0.443	73.9	0.78	12.78	-70	0.2	0.291			10.40	
1205	6.80	0.442	70.1	0.78	12.77	-70	0.2	0.290			10.40	

Analysis:
 Groundwater

g, d, o, VOCs,
 PAHs, Pb

Preservative
 none

Signed _____

Notes:

~~All samples field filtered except isotopes~~
 Flow Rate: ~150 mL/min
 Final DTW: 10.40 ft
 DTB: 19.90 ft

037894-30
Petarcik

Water Quality Meter S/N: 63861

Date: 3/19/14

Location: MW-8
Name of Sampler: Ben Parker
Weather: Cloudy / Rain
Depth to Water: 8.86 Sample Depth: ~10 ft
Depth to Bottom: _____

QA/QC	<input checked="" type="checkbox"/>
MS/MSD	<input checked="" type="checkbox"/>
Duplicate	<input checked="" type="checkbox"/>
Blank	<input type="checkbox"/>
QA/QC Sample ID (GW-mmddyy-AA-XXX)	

Sample IDs (GW-mmddyy-AA-XXX) A Samplers Initials
x Location ID
GW- 031914 - BP - MW-8

Sample Method: low flow 1 Well Volume: _____ water column height(ft) X
Purge Start: 1115 3 Well Volumes: _____ 0.162(2" casing)
Sample Time: 1200

Time	pH (+/- 1.0 S.U.)	Cond (mS/cm) 10%	Turb. (NTU)	DO (mg/L)	Temp (C°) 10%	ORP (mV)	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
1120	6.34	0.776	80.5	0.54	10.81	39	0.04	0.496	0		8.86	
1125	6.34	0.775	36.0	0.00	10.84	42	0.04	0.496	0.2		9.11	
1130	6.35	0.774	12.4	0.00	10.81	41	0.04	0.495	0.7		9.22	
1135	6.36	0.767	10.7	0.00	10.78	36	0.04	0.491	1.0			
1140	6.37	0.762	10.1	0.00	10.84	27	0.04	0.487	1.5		9.30	
1145	6.38	0.754	4.3	0.00	10.87	17	0.04	0.482	2.0		9.34	
1150	6.39	0.750	13.1	0.00	10.91	10	0.04	0.480	2.5		9.37	
1155	6.40	0.745	4.0	0.00	10.99	6	0.04	0.477	3.0		9.39	
1200	6.40	0.744	3.6	0.00	11.06	4	0.04	0.475	3.5		9.39	

Analysis:
Groundwater
VOCs (6 voas)

Preservative
HCL

Notes:
GW-031914-BP-FD-1

Signed _____

Dup - 2nd set
MS/MSD

037894-30
Petarcik

Water Quality Meter S/N: 63811

Date: 3/18/14

Location: MW-9 12
Name of Sampler: Bm Pawley
Weather: cloudy - slight rain

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

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

Depth to Water: 12.07 Sample Depth: 13.5 ft
Depth to Bottom: _____

Sample IDs (GW-mmddyy-AA-XXX)
GW-031814-BP-MW-9

A Samplers Initials
x Location ID

Sample Method: low flow 1 Well Volume: _____
Purge Start: 1455 3 Well Volumes: _____
Sample Time: 1535

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

Time	pH (+/- 1.0 S.U.)	Cond (mS/cm) 10%	Turb. (NTU)	DO (mg/L)	Temp (C°) 10%	ORP (mV)	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
1500												clear
1500	6.51	0.491	286	6.22	11.05	19	0.02	0.320	0.0		12.10	clear
1505	6.40	0.490	32.1	0.00	11.39	51	0.02	0.319	0.30			
1510	6.41	0.489	13.9	0.00	11.38	56	0.02	0.318	0.9		12.10	clear
1515	6.41	0.488	5.3	0.00	11.35	61	0.02	0.317	1.1			
1520	6.40	0.487	2.7	0.00	11.34	65	0.02	0.317	1.3		12.10	clear
1525	6.40	0.487	2.4	0.00	11.33	68	0.02	0.317	1.5			
1530	6.41	0.485	2.0	0.00	11.31	73	0.02	0.315	2.0		12.10	clear
1535	6.41	0.484	1.3	0.00	11.32	75	0.02	0.314	2.5		12.10	

Analysis:
Groundwater
VOCs (6 voas)


Preservative
HCL

Notes:

Signed _____

CHAIN OF CUSTODY RECORD

P 1 of 1

 CONESTOGA-ROVERS & ASSOCIATES 20318 44th Ave W, Sk 170 Lynden, WA 98036		SHIPPED TO (Laboratory Name): Lancaster Labs		REFERENCE NUMBER:		
SAMPLER'S SIGNATURE: <i>[Signature]</i>		PRINTED NAME: <i>Tom Mullin</i>		No. of Containers		
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	PARAMETERS	REMARKS
1	3/19/14	1205	GW-031814-TM-MW-7	AQ	X	
2	3/19/14	1405	GW-031814-TM-MW-6	AQ	X	
3	3/19/14	1545	GW-031814-TM-MW-4	AQ	X	
4	3/19/14	1145	GW-031814-TM-MW-10	AQ	X	
5	3/19/14	1400	GW-031814-TM-MW-2	AQ	X	
6	3/19/14	1530	GW-031814-TM-MW-9	AQ	X	
7	3/19/14	0955	GW-031914-TM-MW-3	AQ	X	
8	3/19/14	1145	GW-031914-TM-MW-5	AQ	X	
9	3/19/14	1400	GW-031914-TM-MW-1	AQ	X	
10	3/19/14	1530	GW-031914-TM-MW-8	AQ	X	
11	3/19/14	1700	TRIP	AQ	X	Total number of containers: 1
12	3/19/14	1700	DUP (FLOT)	AQ	X	disposal (7 total)
			TEMP	AQ	X	Seed disposal COC
TOTAL NUMBER OF CONTAINERS						HEALTH/CHEMICAL HAZARDS
RELINQUISHED BY: <i>[Signature]</i>		DATE: 3/19/14	TIME: 1700	RECEIVED BY: ①	DATE: 3/19/14	TIME: 1700
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY: ②	DATE:	TIME:
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY: ③	DATE:	TIME:
METHOD OF SHIPMENT:						
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM:			
WAY BILL No.			RECEIVED FOR LABORATORY BY:			
No. CRA 13323			DATE: TIME:			

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

April 02, 2014

Project: 301233 Tidewater Seattle

Submittal Date: 03/20/2014

Group Number: 1460905

PO Number: 4058681

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
GW-031814-TM-MW-7 Water	7400928
GW-031814-TM-MW-6 Water	7400929
GW-031814-TM-MW-4 Water	7400930
GW-031814-BP-MW-10 Water	7400931
GW-031814-BP-MW-2 Water	7400932
GW-031814-BP-MW-9 Water	7400933
GW-031914-TM-MW-3 Water	7400934
GW-031914-TM-MW-5 Water	7400935
GW-031914-TM-MW-5 MS Water	7400936
GW-031914-TM-MW-5 MSD Water	7400937
GW-031914-BP-MW-1 Water	7400938
GW-031914-BP-MW-8 Water	7400939
Trip Blank Water	7400940
DUP (FLD1) Water	7400941

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

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

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: **GW-031814-TM-MW-7 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400928**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 12:05 by TM

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLK07

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

Sample Description: **GW-031814-TM-MW-7 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400928**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 12:05 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	2	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	3	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	0.11	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.064	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.12	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.051	0.010	1
08357	Chrysene	218-01-9	0.55	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	0.040	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.011	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
GC Petroleum ECY 97-602 NWTPH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	79.3	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
 Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031814-TM-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400928
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 12:05 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK07

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	W140831AA	03/24/2014 10:52	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 10:52	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 04:41	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 12:40	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 12:40	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 04:29	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 06:57	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031814-TM-MW-6 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400929**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 14:05 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK06

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

Sample Description: GW-031814-TM-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400929
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 14:05 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
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 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	0.97	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031814-TM-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400929
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 14:05 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK06

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	W140831AA	03/24/2014 11:16	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 11:16	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 05:09	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 13:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 13:07	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 04:50	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 06:59	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031814-TM-MW-4 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400930**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 15:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK04

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

Sample Description: GW-031814-TM-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400930
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 15:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
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 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	0.14	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Sample Description: **GW-031814-TM-MW-4 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400930**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 15:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK04

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	W140831AA	03/24/2014 11:40	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 11:40	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 05:37	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 13:34	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 13:34	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 03:03	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:03	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031814-BP-MW-10 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400931**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 11:45 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	2	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	2	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	0.9	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	20	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	40	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-031814-BP-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400931
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 11:45 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	0.7	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	12	1	1
10335	m+p-Xylene	179601-23-1	5	0.5	1
10335	o-Xylene	95-47-6	1	0.5	1
10335	Xylene (Total)	1330-20-7	6	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	1.8	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.83	0.010	1
08357	Naphthalene	91-20-3	0.46	0.031	1
GC Volatiles ECY 97-602 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	520	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	190	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.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031814-BP-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400931
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 11:45 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 12:04	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 12:04	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 06:04	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 14:01	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 14:01	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 05:12	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:05	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031814-BP-MW-2 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400932**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 14:00 by BP

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLK02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.9	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	4	1	1
10335	sec-Butylbenzene	135-98-8	5	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	3	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	19	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	39	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-031814-BP-MW-2 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400932**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 14:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	2	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	1.8	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 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	870	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	180	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	0.90	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
 Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031814-BP-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400932
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 14:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK02

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	W140831AA	03/24/2014 12:28	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 12:28	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 06:32	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 14:28	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 14:28	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 05:33	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:06	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031814-BP-MW-9 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400933**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 15:35 by BP

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLK09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	0.8	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	110	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-031814-BP-MW-9 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400933**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/18/2014 15:35 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	180	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	100	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	13	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
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 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	96	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	37	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	0.087	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
 Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031814-BP-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400933
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/18/2014 15:35 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK09

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	W140831AA	03/24/2014 12:51	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 12:51	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 07:00	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 16:43	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 16:43	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140840033A	03/28/2014 03:24	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140840033A	03/26/2014 10:00	William H Saadeh	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:14	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031914-TM-MW-3 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400934**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 09:55 by TM

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLK03

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

Sample Description: GW-031914-TM-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400934
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 09:55 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	790	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	99	1	1
10335	Vinyl Chloride	75-01-4	1	1	1
10335	m+p-Xylene	179601-23-1	360	0.5	1
10335	o-Xylene	95-47-6	44	0.5	1
10335	Xylene (Total)	1330-20-7	410	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	6.1	0.010	1
08357	2-Methylnaphthalene	91-57-6	4.0	0.010	1
08357	Naphthalene	91-20-3	38	0.31	10
GC Volatiles ECY 97-602 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	6,300	250	5
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	180	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	1.2	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Sample Description: **GW-031914-TM-MW-3 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400934**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 09:55 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK03

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	W140831AA	03/24/2014 13:15	Angela D Sneeringer	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 13:39	Angela D Sneeringer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 13:15	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140831AA	03/24/2014 13:39	Angela D Sneeringer	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 07:28	Brian K Graham	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/27/2014 20:11	Chad A Moline	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 22:35	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 22:35	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/27/2014 23:51	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:16	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031914-TM-MW-5 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400935**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	5	1	1
10335	sec-Butylbenzene	135-98-8	3	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	34	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	19	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	26	1	1
10335	n-Propylbenzene	103-65-1	52	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-031914-TM-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400935
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	170	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	27	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	130	0.5	1
10335	o-Xylene	95-47-6	19	0.5	1
10335	Xylene (Total)	1330-20-7	150	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	0.061	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.25	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.089	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.10	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.41	0.010	1
08357	1-Methylnaphthalene	90-12-0	3.1	0.010	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	1
08357	Naphthalene	91-20-3	13	0.16	5
GC Volatiles ECY 97-602 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	1,700	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	110	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	0.17	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031914-TM-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400935
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

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	W140831AA	03/24/2014 14:03	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 14:03	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 07:55	Brian K Graham	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/27/2014 20:39	Chad A Moline	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 14:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 14:55	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/27/2014 21:00	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:18	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031914-TM-MW-5 MS Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400936**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	140	6	1
10335	Benzene	71-43-2	22	0.5	1
10335	Bromobenzene	108-86-1	20	1	1
10335	Bromochloromethane	74-97-5	22	1	1
10335	Bromodichloromethane	75-27-4	20	1	1
10335	Bromoform	75-25-2	18	1	1
10335	Bromomethane	74-83-9	23	1	1
10335	2-Butanone	78-93-3	140	3	1
10335	n-Butylbenzene	104-51-8	25	1	1
10335	sec-Butylbenzene	135-98-8	24	1	1
10335	tert-Butylbenzene	98-06-6	22	1	1
10335	Carbon Disulfide	75-15-0	22	1	1
10335	Carbon Tetrachloride	56-23-5	21	1	1
10335	Chlorobenzene	108-90-7	22	0.8	1
10335	Chloroethane	75-00-3	23	1	1
10335	Chloroform	67-66-3	23	0.8	1
10335	Chloromethane	74-87-3	20	1	1
10335	2-Chlorotoluene	95-49-8	21	1	1
10335	4-Chlorotoluene	106-43-4	21	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	19	2	1
10335	Dibromochloromethane	124-48-1	20	1	1
10335	1,2-Dibromoethane	106-93-4	21	0.5	1
10335	Dibromomethane	74-95-3	20	1	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	1
10335	1,3-Dichlorobenzene	541-73-1	21	1	1
10335	1,4-Dichlorobenzene	106-46-7	21	1	1
10335	Dichlorodifluoromethane	75-71-8	20	2	1
10335	1,1-Dichloroethane	75-34-3	21	1	1
10335	1,2-Dichloroethane	107-06-2	20	0.5	1
10335	1,1-Dichloroethene	75-35-4	24	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	23	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	24	0.8	1
10335	1,2-Dichloropropane	78-87-5	21	1	1
10335	1,3-Dichloropropane	142-28-9	19	1	1
10335	2,2-Dichloropropane	594-20-7	20	1	1
10335	1,1-Dichloropropene	563-58-6	22	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	21	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	19	1	1
10335	Ethylbenzene	100-41-4	49	0.5	1
10335	Hexachlorobutadiene	87-68-3	18	2	1
10335	2-Hexanone	591-78-6	93	3	1
10335	Isopropylbenzene	98-82-8	38	1	1
10335	p-Isopropyltoluene	99-87-6	22	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	96	3	1
10335	Methylene Chloride	75-09-2	23	2	1
10335	Naphthalene	91-20-3	42	1	1
10335	n-Propylbenzene	103-65-1	64	1	1
10335	Styrene	100-42-5	23	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	20	1	1

Sample Description: **GW-031914-TM-MW-5 MS Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400936**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	21	1	1
10335	Tetrachloroethene	127-18-4	22	0.8	1
10335	Toluene	108-88-3	21	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	19	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	20	1	1
10335	1,1,1-Trichloroethane	71-55-6	19	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	22	0.8	1
10335	Trichloroethene	79-01-6	23	1	1
10335	Trichlorofluoromethane	75-69-4	22	2	1
10335	1,2,3-Trichloropropane	96-18-4	20	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	160	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	43	1	1
10335	Vinyl Chloride	75-01-4	23	1	1
10335	m+p-Xylene	179601-23-1	140	0.5	1
10335	o-Xylene	95-47-6	37	0.5	1
10335	Xylene (Total)	1330-20-7	180	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	3,200	50	1
GC Petroleum ECY 97-602 NWTPH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 15:56	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 15:56	Angela D Sneeringer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 15:22	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 15:22	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/27/2014 21:21	Christine E Dolman	1

Sample Description: GW-031914-TM-MW-5 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400936
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 11:45 by TM Conestoga-Rovers & Associates
Suite 190
Submitted: 03/20/2014 09:25 20818 44th Ave W
Reported: 04/02/2014 14:22 Lynnwood WA 98036

MLK05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1

Sample Description: **GW-031914-TM-MW-5 MSD Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400937**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	140	6	1
10335	Benzene	71-43-2	21	0.5	1
10335	Bromobenzene	108-86-1	20	1	1
10335	Bromochloromethane	74-97-5	21	1	1
10335	Bromodichloromethane	75-27-4	20	1	1
10335	Bromoform	75-25-2	18	1	1
10335	Bromomethane	74-83-9	23	1	1
10335	2-Butanone	78-93-3	140	3	1
10335	n-Butylbenzene	104-51-8	24	1	1
10335	sec-Butylbenzene	135-98-8	24	1	1
10335	tert-Butylbenzene	98-06-6	21	1	1
10335	Carbon Disulfide	75-15-0	22	1	1
10335	Carbon Tetrachloride	56-23-5	20	1	1
10335	Chlorobenzene	108-90-7	21	0.8	1
10335	Chloroethane	75-00-3	24	1	1
10335	Chloroform	67-66-3	22	0.8	1
10335	Chloromethane	74-87-3	21	1	1
10335	2-Chlorotoluene	95-49-8	21	1	1
10335	4-Chlorotoluene	106-43-4	21	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	20	2	1
10335	Dibromochloromethane	124-48-1	19	1	1
10335	1,2-Dibromoethane	106-93-4	21	0.5	1
10335	Dibromomethane	74-95-3	20	1	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	1
10335	1,3-Dichlorobenzene	541-73-1	21	1	1
10335	1,4-Dichlorobenzene	106-46-7	21	1	1
10335	Dichlorodifluoromethane	75-71-8	21	2	1
10335	1,1-Dichloroethane	75-34-3	20	1	1
10335	1,2-Dichloroethane	107-06-2	19	0.5	1
10335	1,1-Dichloroethene	75-35-4	23	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	22	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	23	0.8	1
10335	1,2-Dichloropropane	78-87-5	21	1	1
10335	1,3-Dichloropropane	142-28-9	19	1	1
10335	2,2-Dichloropropane	594-20-7	20	1	1
10335	1,1-Dichloropropene	563-58-6	22	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	20	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	19	1	1
10335	Ethylbenzene	100-41-4	47	0.5	1
10335	Hexachlorobutadiene	87-68-3	18	2	1
10335	2-Hexanone	591-78-6	93	3	1
10335	Isopropylbenzene	98-82-8	37	1	1
10335	p-Isopropyltoluene	99-87-6	21	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	94	3	1
10335	Methylene Chloride	75-09-2	22	2	1
10335	Naphthalene	91-20-3	42	1	1
10335	n-Propylbenzene	103-65-1	62	1	1
10335	Styrene	100-42-5	22	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	20	1	1

Sample Description: **GW-031914-TM-MW-5 MSD Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400937**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	21	1	1
10335	Tetrachloroethene	127-18-4	21	0.8	1
10335	Toluene	108-88-3	20	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	19	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	20	1	1
10335	1,1,1-Trichloroethane	71-55-6	18	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	21	0.8	1
10335	Trichloroethene	79-01-6	22	1	1
10335	Trichlorofluoromethane	75-69-4	23	2	1
10335	1,2,3-Trichloropropane	96-18-4	20	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	150	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	40	1	1
10335	Vinyl Chloride	75-01-4	24	1	1
10335	m+p-Xylene	179601-23-1	140	0.5	1
10335	o-Xylene	95-47-6	36	0.5	1
10335	Xylene (Total)	1330-20-7	170	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	3,100	50	1
GC Petroleum ECY 97-602 NWTPH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 15:09	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 15:09	Angela D Sneeringer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 15:49	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 15:49	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/27/2014 21:42	Christine E Dolman	1

Sample Description: GW-031914-TM-MW-5 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400937
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 11:45 by TM

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1

Sample Description: **GW-031914-BP-MW-1 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400938**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 10:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK01

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

Sample Description: **GW-031914-BP-MW-1 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400938**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 10:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	7	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	6	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	1	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
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 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	0.20	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
 Carcinogenic PAHs have been reported for this sample

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

Sample Description: GW-031914-BP-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400938
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 10:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK01

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	W140831AA	03/24/2014 15:33	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 15:33	Angela D Sneeringer	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 08:23	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 21:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 21:13	Marie D Beamenderfer	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/27/2014 22:04	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:21	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Sample Description: **GW-031914-BP-MW-8 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400939**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 12:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	10	1	1
10335	sec-Butylbenzene	135-98-8	6	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	33	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	12	1	1
10335	p-Isopropyltoluene	99-87-6	6	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	57	1	1
10335	n-Propylbenzene	103-65-1	28	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-031914-BP-MW-8 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400939**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 12:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethane	127-18-4	1	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	800	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	250	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	200	0.5	1
10335	o-Xylene	95-47-6	180	0.5	1
10335	Xylene (Total)	1330-20-7	370	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	17	0.20	20
08357	2-Methylnaphthalene	91-57-6	19	0.20	20
08357	Naphthalene	91-20-3	47	0.61	20
GC Volatiles ECY 97-602 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	8,400	250	5
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	2,400	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	12.6	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
 Carcinogenic PAHs have been reported for this sample

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

Sample Description: **GW-031914-BP-MW-8 Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # **WW 7400939**
 LL Group # **1460905**
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 03/19/2014 12:00 by BP

Conestoga-Rovers & Associates

Suite 190

Submitted: 03/20/2014 09:25

20818 44th Ave W

Reported: 04/02/2014 14:22

Lynnwood WA 98036

MLK08

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	W140831AA	03/24/2014 16:20	Angela D Sneeringer	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 16:44	Angela D Sneeringer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 16:20	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140831AA	03/24/2014 16:44	Angela D Sneeringer	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 08:51	Brian K Graham	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/27/2014 21:07	Chad A Moline	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 23:01	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 23:01	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/28/2014 00:34	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:23	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

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

LL Sample # WW 7400940
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLKTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P140842AA	03/25/2014 12:01	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P140842AA	03/25/2014 12:01	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 11:46	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 11:46	Marie D Beamenderfer	1

Sample Description: DUP (FLD1) Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400941
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 by TM

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLKFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	12	1	1
10335	sec-Butylbenzene	135-98-8	7	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	42	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	17	1	1
10335	p-Isopropyltoluene	99-87-6	7	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	66	1	1
10335	n-Propylbenzene	103-65-1	40	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: DUP (FLD1) Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400941
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 by TM

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

Submitted: 03/20/2014 09:25

Reported: 04/02/2014 14:22

MLKFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	1	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	960	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	280	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	280	0.5	1
10335	o-Xylene	95-47-6	190	0.5	1
10335	Xylene (Total)	1330-20-7	480	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	22	0.20	20
08357	2-Methylnaphthalene	91-57-6	27	0.20	20
08357	Naphthalene	91-20-3	60	0.61	20
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
GC Volatiles ECY 97-602 NWT PH-Gx			ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	8,800	250	5
GC Petroleum ECY 97-602 NWT PH-Dx			ug/l	ug/l	
Hydrocarbons w/Si modified					
02211	DRO C12-C24 w/Si Gel	n.a.	2,200	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	110	67	1
Metals SW-846 6020			ug/l	ug/l	
06035	Lead	7439-92-1	10.5	0.085	1

Sample Description: DUP (FLD1) Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 7400941
LL Group # 1460905
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 03/19/2014 by TM

Conestoga-Rovers & Associates

Submitted: 03/20/2014 09:25

Suite 190

Reported: 04/02/2014 14:22

20818 44th Ave W

Lynnwood WA 98036

MLKFD

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 17:08	Angela D Sneeringer	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W140831AA	03/24/2014 17:32	Angela D Sneeringer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140831AA	03/24/2014 17:08	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140831AA	03/24/2014 17:32	Angela D Sneeringer	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/25/2014 09:19	Brian K Graham	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14080WAI026	03/27/2014 21:34	Chad A Moline	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14080WAI026	03/24/2014 05:00	Sherry L Morrow	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14083A53A	03/25/2014 23:28	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	14083A53A	03/25/2014 23:28	Marie D Beamenderfer	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	140850020A	03/28/2014 00:55	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	140850020A	03/26/2014 22:00	Karen L Beyer	1
06035	Lead	SW-846 6020	1	140856050002A	03/27/2014 07:12	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	140856050002	03/26/2014 23:30	Annamaria Kuhns	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: P140842AA	Sample number(s): 7400940							
Benzene	N.D.	0.5	ug/l	88		78-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	93		80-120		
Xylene (Total)	N.D.	0.5	ug/l	93		80-120		
Batch number: W140831AA	Sample number(s): 7400928-7400939,7400941							
Acetone	N.D.	6.	ug/l	99		43-149		
Benzene	N.D.	0.5	ug/l	99		78-120		
Bromobenzene	N.D.	1.	ug/l	97		80-120		
Bromochloromethane	N.D.	1.	ug/l	100		80-121		
Bromodichloromethane	N.D.	1.	ug/l	93		73-120		
Bromoform	N.D.	1.	ug/l	90		61-120		
Bromomethane	N.D.	1.	ug/l	108		58-120		
2-Butanone	N.D.	3.	ug/l	94		54-133		
n-Butylbenzene	N.D.	1.	ug/l	94		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	96		80-120		
tert-Butylbenzene	N.D.	1.	ug/l	95		73-120		
Carbon Disulfide	N.D.	1.	ug/l	99		58-126		
Carbon Tetrachloride	N.D.	1.	ug/l	95		74-130		
Chlorobenzene	N.D.	0.8	ug/l	101		80-120		
Chloroethane	N.D.	1.	ug/l	104		56-120		
Chloroform	N.D.	0.8	ug/l	98		80-122		
Chloromethane	N.D.	1.	ug/l	97		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	90		56-120		
Dibromochloromethane	N.D.	1.	ug/l	96		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		76-120		
Dibromomethane	N.D.	1.	ug/l	96		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	100		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	99		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	100		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	90		48-132		
1,1-Dichloroethane	N.D.	1.	ug/l	94		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	95		65-135		
1,1-Dichloroethene	N.D.	0.8	ug/l	107		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	103		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	107		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	97		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	95		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	94		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	99		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99		80-120		

*- Outside of specification

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,3-Dichloropropene	N.D.	1.	ug/l	93		76-120		
Ethylbenzene	N.D.	0.5	ug/l	96		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	78		51-125		
2-Hexanone	N.D.	3.	ug/l	91		44-126		
Isopropylbenzene	N.D.	1.	ug/l	98		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	95		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	92		51-124		
Methylene Chloride	N.D.	2.	ug/l	103		80-120		
Naphthalene	N.D.	1.	ug/l	98		47-126		
n-Propylbenzene	N.D.	1.	ug/l	97		80-120		
Styrene	N.D.	1.	ug/l	104		80-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	96		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	103		70-120		
Tetrachloroethene	N.D.	0.8	ug/l	96		80-120		
Toluene	N.D.	0.5	ug/l	97		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	90		58-126		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	92		65-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	84		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	101		80-120		
Trichloroethene	N.D.	1.	ug/l	99		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	99		65-130		
1,2,3-Trichloropropane	N.D.	1.	ug/l	100		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	97		74-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	98		74-120		
Vinyl Chloride	N.D.	1.	ug/l	105		63-120		
m+p-Xylene	N.D.	0.5	ug/l	100		80-120		
o-Xylene	N.D.	0.5	ug/l	100		80-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		

Batch number: 14080WAI026	Sample number(s): 7400928-7400935,7400938-7400939,7400941
Benzo(a)anthracene	N.D. 0.010 ug/l 110 110 79-122 0 30
Benzo(a)pyrene	N.D. 0.010 ug/l 104 103 80-121 1 30
Benzo(b)fluoranthene	N.D. 0.010 ug/l 124 121 79-136 2 30
Benzo(k)fluoranthene	N.D. 0.010 ug/l 108 105 81-131 3 30
Chrysene	N.D. 0.010 ug/l 102 103 84-118 1 30
Dibenz(a,h)anthracene	N.D. 0.010 ug/l 90 93 66-133 3 30
Indeno(1,2,3-cd)pyrene	N.D. 0.010 ug/l 91 94 68-132 3 30
1-Methylnaphthalene	N.D. 0.010 ug/l 107 108 86-130 1 30
2-Methylnaphthalene	N.D. 0.010 ug/l 108 111 81-131 2 30
Naphthalene	N.D. 0.030 ug/l 106 106 82-122 0 30

Batch number: 14083A53A	Sample number(s): 7400928-7400941
NWTPH-Gx water C7-C12	N.D. 50. ug/l 107 75-135

Batch number: 140840033A	Sample number(s): 7400928-7400933
DRO C12-C24 w/Si Gel	N.D. 30. ug/l 83 81 32-117 3 20
HRO C24-C40 w/Si Gel	N.D. 70. ug/l

Batch number: 140850020A	Sample number(s): 7400934-7400939,7400941
DRO C12-C24 w/Si Gel	N.D. 30. ug/l 74 32-117
HRO C24-C40 w/Si Gel	N.D. 70. ug/l

Batch number: 140856050002A	Sample number(s): 7400928-7400935,7400938-7400939,7400941
Lead	N.D. 0.085 ug/l 106 90-110

*- Outside of specification

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: P140842AA	Sample number(s): 7400940 UNSPK: P400559								
Benzene	95	90	72-134	4	30				
Ethylbenzene	99	99	71-134	0	30				
Toluene	100	100	80-125	0	30				
Xylene (Total)	99	100	79-125	1	30				
Batch number: W140831AA	Sample number(s): 7400928-7400939,7400941 UNSPK: 7400935								
Acetone	94	94	35-144	0	30				
Benzene	109	105	72-134	3	30				
Bromobenzene	102	100	82-115	2	30				
Bromochloromethane	110	103	76-134	6	30				
Bromodichloromethane	100	98	73-125	2	30				
Bromoform	91	89	48-118	2	30				
Bromomethane	116	116	47-129	0	30				
2-Butanone	96	94	44-135	1	30				
n-Butylbenzene	99	95	74-134	3	30				
sec-Butylbenzene	104	101	74-137	3	30				
tert-Butylbenzene	108	104	81-121	3	30				
Carbon Disulfide	111	110	53-149	1	30				
Carbon Tetrachloride	106	102	75-148	4	30				
Chlorobenzene	108	106	87-124	2	30				
Chloroethane	114	118	55-130	4	30				
Chloroform	113	109	81-134	4	30				
Chloromethane	102	105	61-125	4	30				
2-Chlorotoluene	106	103	82-118	3	30				
4-Chlorotoluene	105	105	84-122	0	30				
1,2-Dibromo-3-chloropropane	96	99	50-123	3	30				
Dibromochloromethane	100	97	74-116	2	30				
1,2-Dibromoethane	105	103	77-116	2	30				
Dibromomethane	102	99	83-119	3	30				
1,2-Dichlorobenzene	105	104	84-119	1	30				
1,3-Dichlorobenzene	106	104	86-121	2	30				
1,4-Dichlorobenzene	106	104	85-121	2	30				
Dichlorodifluoromethane	99	103	58-156	5	30				
1,1-Dichloroethane	104	101	84-129	3	30				
1,2-Dichloroethane	100	97	63-142	2	30				
1,1-Dichloroethene	120	117	79-137	3	30				
cis-1,2-Dichloroethene	114	109	80-141	4	30				
trans-1,2-Dichloroethene	119	114	86-131	4	30				
1,2-Dichloropropane	106	103	83-124	4	30				
1,3-Dichloropropane	97	96	81-120	2	30				
2,2-Dichloropropane	102	99	69-135	4	30				
1,1-Dichloropropene	110	108	86-137	2	30				
cis-1,3-Dichloropropene	105	102	70-116	3	30				
trans-1,3-Dichloropropene	94	95	74-119	0	30				
Ethylbenzene	74	62*	71-134	5	30				
Hexachlorobutadiene	89	88	56-134	1	30				
2-Hexanone	93	93	38-131	0	30				

*- Outside of specification

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Isopropylbenzene	95	90	75-128	3	30				
p-Isopropyltoluene	108	105	76-123	3	30				
Methyl Tertiary Butyl Ether	101	98	72-126	3	30				
4-Methyl-2-pentanone	96	94	45-128	2	30				
Methylene Chloride	114	109	78-133	4	30				
Naphthalene	82	79	52-125	1	30				
n-Propylbenzene	63*	51*	74-134	4	30				
Styrene	113	111	78-125	2	30				
1,1,1,2-Tetrachloroethane	101	99	80-123	2	30				
1,1,2,2-Tetrachloroethane	106	105	72-128	1	30				
Tetrachloroethene	109	107	80-128	2	30				
Toluene	103	101	80-125	2	30				
1,2,3-Trichlorobenzene	95	96	62-133	2	30				
1,2,4-Trichlorobenzene	100	98	56-137	2	30				
1,1,1-Trichloroethane	96	92	69-140	5	30				
1,1,2-Trichloroethane	108	106	71-141	2	30				
Trichloroethene	114	110	88-133	4	30				
Trichlorofluoromethane	109	113	63-163	3	30				
1,2,3-Trichloropropane	102	101	76-118	1	30				
1,2,4-Trimethylbenzene	-61 (2)	-117	72-130	7	30				
		(2)							
1,3,5-Trimethylbenzene	80	68	65-132	6	30				
Vinyl Chloride	115	121	66-133	5	30				
m+p-Xylene	36*	13*	79-125	7	30				
o-Xylene	90	83	79-125	4	30				
Xylene (Total)	54*	36*	79-125	6	30				

Batch number: 14083A53A Sample number(s): 7400928-7400941 UNSPK: 7400935
NWTPH-Gx water C7-C12 134 126 75-135 3 30

Batch number: 140850020A Sample number(s): 7400934-7400939,7400941 UNSPK: 7400935
DRO C12-C24 w/Si Gel 77 75 60-120 4 20

Batch number: 140856050002A Sample number(s): 7400928-7400935,7400938-7400939,7400941 UNSPK: P400617 BKG:
P400617

Lead 108 107 89-120 0 20 N.D. N.D. 0 (1) 20

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: P140842AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7400940	93	90	102	100
Blank	93	94	101	101
LCS	93	94	101	101

*- Outside of specification

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

Surrogate Quality Control

MS	92	97	101	104
MSD	92	94	100	103
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: W140831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7400928	97	100	96	93
7400929	98	103	97	94
7400930	99	103	96	92
7400931	97	103	98	96
7400932	98	104	98	96
7400933	99	106	96	92
7400934	100	102	97	96
7400935	98	104	99	95
7400936	99	101	98	96
7400937	99	100	98	96
7400938	98	104	97	93
7400939	97	104	97	96
7400941	99	102	98	97
Blank	96	103	98	95
LCS	97	100	99	98
MS	99	101	98	96
MSD	99	100	98	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 14080WAI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7400928	124	104	110
7400929	121	113	106
7400930	91	88	80
7400931	127	108	108
7400932	117	72	92
7400933	105	99	88
7400934	121	105	106
7400935	93	91	74
7400938	123	93	72
7400939	121	108	144*
7400941	126	111	144*
Blank	113	110	106
LCS	119	118	117
LCSD	117	117	115
Limits:	59-128	62-141	70-134

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14083A53A
Trifluorotoluene-F

7400928	69
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*- Outside of specification

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

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

Surrogate Quality Control

7400929	69
7400930	69
7400931	86
7400932	78
7400933	75
7400934	78
7400935	89
7400936	95
7400937	93
7400938	71
7400939	73
7400940	68
7400941	72
Blank	69
LCS	75
MS	95
MSD	93

Limits: 63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 140840033A
Orthoterphenyl

7400928	101
7400929	94
7400930	96
7400931	105
7400932	100
7400933	95
Blank	112
LCS	106
LCSD	105

Limits: 50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 140850020A
Orthoterphenyl

7400934	103
7400935	97
7400936	96
7400937	93
7400938	94
7400939	95
7400941	92
Blank	108
LCS	94
MS	96
MSD	93

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
Reported: 04/02/14 at 02:22 PM

Group Number: 1460905

*- 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 Cp# 1460905
 sample# 7400928-41

CHAIN OF CUSTODY RECORD

P 1 of 1

CONESTOGA-ROVERS & ASSOCIATES 20818 4th Ave W, Ste 170 Lynnwood, WA 98036	SHIPPED TO (Laboratory Name): Lancaster Labs	REFERENCE NUMBER:
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SAMPLER'S SIGNATURE: <i>TJC Mullin</i>	PRINTED NAME: <i>Tim Mullin</i>	
---	--	--

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS	
						NWTPK-GX	NWTPK-DX	Full size Vials (6200)	PAHs (6200-6200)	Pb (6070)	DTX (6200)	TEMP	MS/MSD				
1	3/18/14	1205	GW-031814-TM-MW-7	AQ	11	X	X	X	X	X							
2		1405	GW-031814-TM-MW-6	AQ	11	X	X	X	X	X							
3		1545	GW-031814-TM-MW-4	AQ	11	X	X	X	X	X							
4		1145	GW-031814-BP-MW-10	AQ	11	X	X	X	X	X							
5		1400	GW-031814-BP-MW-2	AQ	11	X	X	X	X	X							
6		1535	GW-031814-BP-MW-9	AQ	11	X	X	X	X	X							
7	3/19/14	0955	GW-031914-TM-MW-3	AQ	11	X	X	X	X	X							
8		1145	GW-031914-TM-MW-5	AQ	11	X	X	X	X	X							X
9		1000	GW-031914-BP-MW-1	AQ	11	X	X	X	X	X							
10		1200	GW-031914-BP-MW-8	AQ	11	X	X	X	X	X							Total number of coolers:
11			TRIP	AQ	4	X		X	X	X							Stx compliance, 1
12			DUP (FLDI)	AQ	11	X	X	X	X	X							disposal (7 total)
			TEMP	AQ	6									X			See disposal COC
TOTAL NUMBER OF CONTAINERS						HEALTH/CHEMICAL HAZARDS											

RELINQUISHED BY: ① <i>TJC Mullin</i>	DATE: 3/19/14 TIME: 1700	RECEIVED BY: ① <i>To UPS</i>	DATE: 3/19/14 TIME: 1700
RELINQUISHED BY: ② _____	DATE: _____ TIME: _____	RECEIVED BY: ② _____	DATE: _____ TIME: _____
RELINQUISHED BY: ③ _____	DATE: _____ TIME: _____	RECEIVED BY: ③ _____	DATE: _____ TIME: _____

METHOD OF SHIPMENT: _____ WAY BILL No. _____

White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy	SAMPLE TEAM: _____ _____	RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: 3/20/14 TIME: 925
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No CRA 13323

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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

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

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

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

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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 ($\mu\text{g}/\text{L}$). 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.