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June 5, 2012

Mr. Mark Horne Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, California 94583-5186

Subject:

First Quarter 2012 Groundwater Monitoring and Sampling Report

Former Chevron Service Station No. 20-9335

1225 North 45th Street Seattle, Washington

Dear Mr. Horne:

SAIC Energy, Environment & Infrastructure, LLC (SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the first quarter 2012 groundwater monitoring and sampling event at former Chevron Service Station No. 20-9335 (the site) located in Seattle, Washington (Figure 1).

FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on March 30, 2012. Gettler-Ryan collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in monitoring wells MW-6, MW-7, MW-8, MW-9, and MW-10. SPH were observed in monitoring well MW-7. Groundwater flow is to the southeast at a gradient of approximately 0.005 feet per foot (ft/ft). Groundwater elevations for wells MW-9 and MW-10 were not used in potentiometric contours due to an anomaly in the depth to water measurements in comparison to historical data. A potentiometric map is provided on Figure 2.

Groundwater samples were collected from four monitoring wells and submitted under chain of custody (COC) procedures to Lancaster Laboratories, Inc. in Lancaster, Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Northwest Method NWTPH-Gx;
- TPH as diesel-range organics and TPH as heavy oil-range organics by Northwest Method NWTPH-Dx extended with silica-gel cleanup;

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8021B; and
- Total Lead by USEPA Method 6020.

A laboratory-supplied trip blank (QA) was submitted to the laboratory and analyzed for TPH-GRO and BTEX to provide quality assurance. Field data sheets and COC documentation are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

RESULTS

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B. Below is a summary of analytical results.

- SPH were detected in monitoring well MW-7 at a thickness of 0.20 feet, which is consistent with historical data.
- TPH-GRO concentration in monitoring well MW-8 exceeded the Model Toxics Control Act (MTCA) Method A cleanup level.
- Lead concentrations in monitoring wells MW-9 and MW-10 exceeded the MTCA Method A cleanup level.
- Remaining analytes were below their respective MTCA Method A cleanup levels or the laboratory reporting limits.

The results of the first quarter 2012 sampling event indicate that petroleum-hydrocarbon constituent concentrations continue to fluctuate above and below MTCA Method A cleanup levels with seasonal changes in groundwater elevation.

Gettler-Ryan will continue to perform groundwater monitoring and sampling on a quarterly basis.

If you have any questions or comments, please contact me at (425) 482-3328 or via email at ottemanr@saic.com.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

Ruth Otteman, LG Project Manager



Enclosures:

Figure 1 – Vicinity Map

Figure 2 – Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A - Groundwater Monitoring and Sampling Data Package

Attachment B - Laboratory Analysis Report

cc: Mr. Roger Nye – Ecology, Toxics Cleanup Program 3190 160th Ave SE, Bellevue, WA 98008-5452

Mr. Larry Hard – Seattle Housing Authority 120 Sixth Avenue North, Seattle, WA 98109-5003

Ms. Veronica Redstone – Bellwether 1651 Bellevue Avenue, Seattle, WA 98122-2014

Project File

REPORT LIMITATIONS

This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that SAIC shall have no responsibility or liability for the consequences thereof.

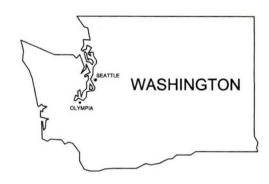
Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. SAIC has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of SAIC's site visits or site work and cannot be applied to conditions and features of which SAIC is unaware and has not had the opportunity to evaluate.

All sources of information on which SAIC has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.









Maps Provided by Seattle.gov

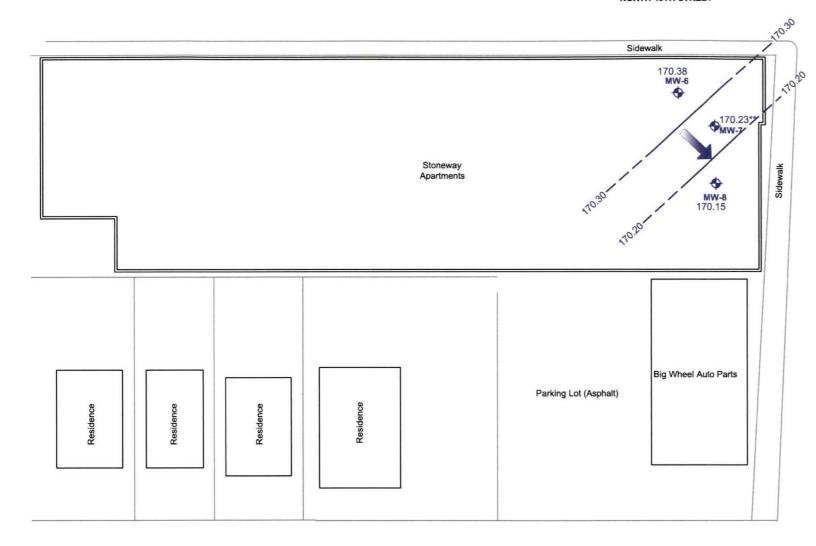


Former Chevron Service Station No. 20-9335 1225 North 45th Street Seattle, Washington FIGURE 1 Vicinity Map

FILE NAME: 209335 Vicinity Map.dwg TE:

10/5/2011

NORTH 45TH STREET



NORTH ALLEN PLACE

Legend

Groundwater Monitoring Well

170.09 Groundwater Elevation in Feet

(170.09) Groundwater Elevation not used in Contours

170.23** Groundwater Elevation Corrected for the Presence of Separate

Phase Hydrocarbons (SPH)

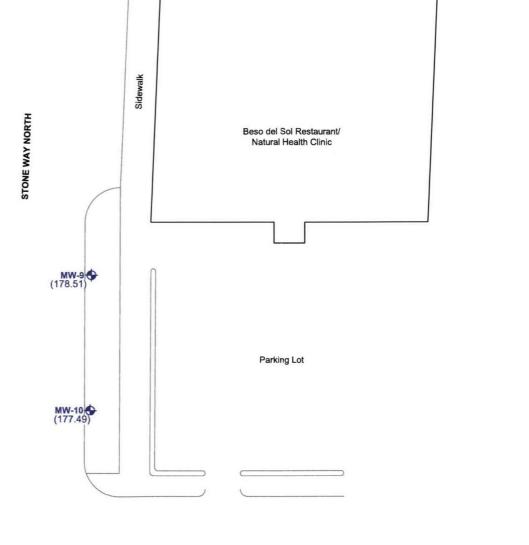
169.90 — Groundwater Elevation Contour at an 0.1 Foot Interval

(Dashed Where Inferred)



Approximate Groundwater Flow Direction at a Gradient of 0.005





Former Chevron Service Station No. 20-9335 1225 North 45th Street Seattle, Washington

FIGURE 2 Potentiometric Map March 30, 2012

DATE: 4/26/2012 DRAWING: 209335_GW Contours.dwg



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Well ID/	Purge	TOC ²	DTP	DTW	SPHT	GWE ³						Ethyl-	Total		
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE	T. Lead
MW-6															
02/09/06		197.18		36.74	0.00	160.44	680	98	1,500	< 0.5	0.7	1.2	37		
05/03/07		197.18		36.74	0.00	160.44	1,000	130	380	29	1	4	30		
06/16/09		197.18	INACCES	SSIBLE											
07/01/09	NP	197.18		27.46	0.00	169.72	270	< 70	< 50	< 0.5	< 0.5	< 0.5	<1.5		22.9
12/11/09	NP	197.18		27.55	0.00	169.63	35	<69	< 50	< 0.5	< 0.5	< 0.5	<1.5		0.76
06/09/10	NP	197.18		26.84	0.00	170.34	360	<340	5,900	< 0.5	< 0.5	< 0.5	350		13.2
11/19/10	NP	197.18		26.97	0.00	170.21	240	81	750	< 0.5	< 0.5	< 0.5	11		3.7
06/21/11	NP	197.18		25.77	0.00	171.41	270	88	2,400	< 0.5	< 0.5	0.6	9.2		3.2
09/22/11	NP	197.18		25.90	0.00	171.28	<29	<69	660	< 0.5	< 0.5	< 0.5	4.1		3.3
12/09/11	NP	197.18		27.34	0.00	169.84	<29	<69	64	140	0.50	< 0.5	<1.5		0.44
03/30/12	NP	197.18		26.80	0.00	170.38	<30	<69	90	< 0.5	< 0.5	< 0.5	<1.5		2.5
MW-7															
02/09/06		197.42	37.87	38.17	0.30	159.49									
05/03/07		197.42	26.55	27.80	0.00	169.62									
06/16/09		197.42	INACCES	SSIBLE											
07/01/09 ⁶		197.42	27.39	7	7	7	NOT SAMP	LED DUE TO	O THE PRESI	ENCE OF SPI	Н				
12/11/09 ⁶		197.42	27.50	7	7	7	NOT SAMP	LED DUE TO	O THE PRESI	ENCE OF SPI	H				
06/09/10 ⁶		197.42	27.03	28.20	1.17	170.16	NOT SAMP	LED DUE TO	O THE PRESI	ENCE OF SPI	Н				
11/19/10		197.42	27.08	28.34	1.26	170.09	NOT SAMP	LED DUE T	O THE PRESI	ENCE OF SPI	H				
06/21/11		197.42		26.12	0.00	171.30	11,000	<1,800	150,000	45	4,800	2,600	18,000		310
09/22/11		197.42		26.25	0.00	171.17	2,000	<340	100,000	29	4,300	1,900	17,000		94.4
12/09/11		197.42	27.45	27.80	0.35	169.90				ENCE OF SPI					
03/30/12		197.42	27.15	27.35	0.20	170.23	NOT SAMP	LED DUE T	O THE PRESI	ENCE OF SPI	H				
MW-8															
02/09/06		197.35		36.74	0.00	160.61	280	<96	440	< 0.5	1.1	3.3	28		
05/03/07		197.35		36.74	0.00	160.61	940	<200	2,600	< 0.5	< 0.5	< 0.5	< 0.5		
06/16/09		197.35	INACCES	SSIBLE											
07/01/09	NP	197.35		27.84	0.00	169.51	390	< 700	430	< 0.5	< 0.5	< 0.5	2.2		3.5
12/11/09	NP	197.35		27.91	0.00	169.44	300	<69	< 50	< 0.5	< 0.5	< 0.5	<1.5		7.3
06/09/10	NP	197.35		27.21	0.00	170.14	280	180	350	< 0.5	< 0.5	< 0.5	<1.5		16.5
11/19/10	NP	197.35		27.34	0.00	170.01	320	120	94	< 0.5	< 0.5	< 0.5	<1.5		3.4
06/21/11	NP	197.35		26.18	0.00	171.17	94	150	54	< 0.5	< 0.5	1.0	<1.5		3.6



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Well ID/	Purge	TOC ²	DTP	DTW	SPHT	GWE ³		irations repo				Ethyl-	Total		
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	ТРН-НКО	TPH-CRO	Benzene	Toluene	benzene	Xylenes	МТВЕ	T. Lead
MW-8 (cor		(14.)	(11.)	(111)	(111)	(11.)	TITI DIG	TH IIIO	mono	Delizene	Totache	Denzene	Aylenes	MIDE	1. Lead
09/22/11	NP	197.35		26.30	0.00	171.05	<29	<68	140	< 0.5	< 0.5	2.9	1.70		1.8
12/09/11	NP	197.35		27.70	0.00	169.65	70	<69	320	<2.0	<2.0	<0.5	3.0		0.30
03/30/12	NP	197.35		27.20	0.00	170.15	<30	<70	2,000	3.0	3.9	45	120		2.9
MW-9									_,_,		0.7	10	120		2.7
05/03/07		208.11		36.74	0.00	171.37	<400	< 500	<50	< 0.5	< 0.5	4	18	I I	
06/16/09		208.11		38.72	0.00	169.39			<50	< 0.5	< 0.5	< 0.5	<1.5		19.3
07/01/09	NP	208.11		38.03	0.00	170.08	<31	<71							
12/11/09	NP	208.11		38.86	0.00	169.25	76	<69	<50	< 0.5	< 0.5	< 0.5	<1.5		14.5
06/09/10	NP	208.11		38.17	0.00	169.94	42	110	<50	< 0.5	< 0.5	< 0.5	<1.5		21.2
11/19/10	NP	208.11		38.23	0.00	169.88	<29	130	<50	< 0.5	< 0.5	< 0.5	<1.5		18.7
06/21/11	NP	208.11		37.15	0.00	170.96	<30	< 70	<50	< 0.5	< 0.5	< 0.5	<1.5		4.7
09/22/11	NP	208.11		37.25	0.00	170.86	<300	< 700	<50	< 0.5	< 0.5	< 0.5	<1.5		12.4
12/09/11	NP	208.11		38.66	0.00	169.45	<29	<68	<50	< 0.5	< 0.5	< 0.5	<1.5		2.8
03/30/12	NP	208.11		29.60	0.00	178.51	<29	<68	<50	< 0.5	< 0.5	< 0.5	<1.5		114
MW-10															
05/03/07		207.29		36.74	0.00	170.55	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5		
06/16/09		207.29	INACCES	SSIBLE											
07/01/09	NP	207.29		38.72	0.00	168.57	<30	<69	< 50	< 0.5	< 0.5	< 0.5	<1.5		10.9
12/11/09	NP	207.29		35.91	0.00	171.38	49	<69	<50	< 0.5	< 0.5	< 0.5	<1.5		13.4
06/09/10	NP	207.29		37.48	0.00	169.81	50	88	< 50	< 0.5	< 0.5	< 0.5	<1.5		7.2
11/19/10	NP	207.29		37.53	0.00	169.76	<29	74	< 50	< 0.5	< 0.5	< 0.5	<1.5		18.8
06/21/11	NP	207.29		36.46	0.00	170.83	<31	180	< 50	< 0.5	< 0.5	< 0.5	<1.5		5.7
09/22/11	NP	207.29		36.60	0.00	170.69	<300	< 700	<50	< 0.5	< 0.5	< 0.5	<1.5		6.6
12/09/11	NP	207.29		35.71	0.00	171.58	<29	<69	<50	< 0.5	< 0.5	< 0.5	<1.5		2.1
03/30/12	NP	207.29		29.80	0.00	177.49	<30	<69	<50	< 0.5	< 0.5	< 0.5	<1.5		110
MW-1															
10/11/00		97.95		34.50		63.45									
12/16/00		97.95		35.91	0.00	62.04	ND	ND	74.4	ND	ND	ND	ND	ND	ND
03/26/01		97.95		36.54	0.00	61.41	ND	ND	ND	ND	ND	ND	ND	ND	
06/25/01		97.95		36.78	0.00	61.17	<281	<842	<50.0	< 0.500	< 0.500	< 0.500	<1.00		
09/24/01		97.95		37.14	0.00	60.81	<250	< 500	<50.0	< 0.500	< 0.500	< 0.500	<1.00		
12/13/01		97.95		37.25	0.00	60.70	<250	< 500	<80.0	< 0.500	< 0.500	< 0.500	<1.00		



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

								trations repo	1						
Well ID/	Purge	TOC ²	DTP	DTW	SPHT	GWE ³						Ethyl-	Total	10	
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE	T. Lead
MW-1 (con	nt.)														
03/08/02	NP	97.95		36.79	0.00	61.16	<250	<750	< 50	< 0.50	< 0.50	< 0.50	<1.5		
05/29/02		97.95		36.44	0.00	61.51	SAMPLED	SEMI-ANNU	ALLY						
09/16/02	NP	97.95		36.71	0.00	61.24	<250	<250	< 50	< 0.50	< 0.50	< 0.50	<1.5		
12/05/02		97.95		37.09	0.00	60.86	SAMPLED	SEMI-ANNU	ALLY		-				
03/04/03	NP	97.95		37.26	0.00	60.69	<250	<250	100	< 0.50	< 0.50	< 0.50	<3.0		
06/03/03		97.95		37.09	0.00	60.86	SAMPLED	SEMI-ANNU	ALLY						
10/27/03		97.95		37.42	0.00	60.53	NOT SAMP	LED DUE TO) INSUFFICI	ENT WATER					
03/31/04	NP	97.95		37.12	0.00	60.83	<800	<1,000	<50	< 0.5	< 0.5	< 0.5	<1.5		
06/28/04		97.95		37.14	0.00	60.81	SAMPLED	SEMI-ANNU	ALLY						
09/29/04		97.95		37.50	0.00	60.45	NOT SAMP	LED DUE TO	O INSUFFICI	ENT WATER					
01/04/05		97.95		37.61	0.00	60.34	SAMPLED	SEMI-ANNU	ALLY				()		
ABANDO	NED														-
MW-2															
10/11/00		98.70		34.50		64.20									
12/16/00		98.70		36.46	0.00	62.24	1,000	ND	28,100	283	2,560	693	4,020	ND	0.00194
03/26/01		98.70		37.12	0.00	61.58	1,180	ND	17,000	143	1,450	378	2,180	ND/	
06/25/01		98.70		37.37	0.00	61.33	418	<750	11,700	92.3	547	181	1,010		
09/24/01		98.70		37.72	0.00	60.98	4,840	<557	22,100	120	1,380	658	4,100		
12/13/01		98.70		37.89	0.00	60.81	5,540	<500	84,000	185	3,960	1,590	9,950		
03/08/02		98.70	37.24	38.00	0.76	61.31		LED DUE TO		ENCE OF SPE	I				
05/29/02		98.70	36.81	37.54	0.73	61.74				ENCE OF SPI					
09/16/02		98.70	37.19	37.61	0.42	61.43				ENCE OF SPI					
10/15/02		98.70	37.24	37.68	0.44	61.37									
11/22/02		98.70	37.12	37.63	0.51	61.48									
12/05/02		98.70	37.51	38.10	0.59	61.07	NOT SAMP	LED DUE TO	THE PRES	ENCE OF SPI	I				
01/28/03		98.70	36.77	37.33	0.56	61.82			1						
02/13/03		98.70	37.44	38.02	0.58	61.14									
03/04/03		98.70					VER WELL								
04/21/03		98.70	37.21	37.78	0.57	61.38									
05/08/03		98.70	37.43	37.94	0.51	61.17									
06/03/03		98.70	37.37	37.91	0.54	61.22				ENCE OF SPI					
07/06/03		98.70	36.96	37.51	0.55	61.63									
07/00/03		70.70	30.90	37.31	0.55	01.03									



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Ethyl-benzene			T. Lead
•	•		
ND	1.95	ND	ND
ND	ND	ND	
< 0.500	<1.00		
< 0.500	<1.00		
< 0.500	<1.00		
2.1	15		
< 0.50	<1.5		
< 0.50	<1.5		
< 0.5	<1.5		
<0.5	<1.5		
<0.5	<1.5		
	ND ND <0.500 <0.500 <0.500 <0.500 2.1 <0.50 <0.50 <0.5 <0.5 <0.5	ND 1.95 ND ND <0.500 <1.00 <0.500 <1.00 <0.500 <1.00 <0.500 <1.00 2.1 15 <0.50 <1.5 <0.50 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 < < < < <	ND 1.95 ND ND ND ND <0.500



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Well ID/	Purge	TOC ²	DTP	DTW	SPHT	GWE ³						Ethyl-	Total		
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE	T. Lead
MW-3 (con	ıt.)														
01/04/05		98.76		38.19	0.00	60.57	SAMPLED	SEMI-ANNU	IALLY			-	1		
ABANDON	NED														
MW-4															
10/11/00		98.52		35.00		63.52									
12/16/00		98.52		36.35	0.00	62.17	ND	ND	58,200	326	5,520	1,430	8,520	ND	0.0123
03/26/01		98.52		37.00	0.00	61.52	266	ND	27,200	178	2,160	785	4,160	ND	
06/25/01		98.52		37.25	0.00	61.27	<250	<750	12,300	69.0	654	416	1,910		
09/24/01		98.52		37.60	0.00	60.92	<250	< 500	4,130	30.1	154	197	684		
12/13/01		98.52		37.72	0.00	60.80	<250	< 500	5,490	30.3	175	177	679		
03/08/02	NP	98.52		38.36	0.00	60.16	<250	<750	9,000	< 50	150	170	710		
05/29/02	NP	98.52		36.86	0.00	61.66	<250	<750	6,700	22	150	190	780		
08/07/02		98.52		36.92	0.00	61.60								/	
09/16/02	NP	98.52		37.16	0.00	61.36	<250	<250	7,500	46	230	240	630		
12/05/02	NP	98.52		37.53	0.00	60.99	<250	<250	14,000	73	400	540	1,500		
03/04/03		98.52	36.68	36.71	0.03	61.83	NOT SAMP	LED DUE T	O THE PRESI	ENCE OF SPI	H				
06/03/03		98.52	36.59	36.63	0.04	61.92	NOT SAMP	LED DUE T	O THE PRESI	ENCE OF SPI	I				
07/06/03		98.52	36.90	36.93	0.03	61.61	-	-							
08/18/03		98.52	36.76	36.80	0.04	61.75	()			Y			-21		
10/27/03	NP	98.52		37.96	0.00	60.56	<400	< 500	2,200	16	55	76	170		
11/17/03		98.52	36.34	36.37	0.03	62.17									
12/31/03		98.52		36.88	0.00	61.64									
02/09/04		98.52	36.14	36.17	0.03	62.37					·				
03/04/04		98.52		36.74	0.00	61.78									
03/31/04	NP	98.52		37.59	0.00	60.93	<250	<250	3,900	14	96	110	340		
06/28/04	NP	98.52	\- <u>-</u> -	37.54	0.00	60.98	<250	<250	1,600	8.5	15	59	110		
09/11/04		98.52	37.78	37.81	0.03	60.73						2.8			
09/29/04	NP	98.52		37.86	0.00	60.66	<250	<250	1,500	18	40	76	170		
11/22/04		98.52		36.81	0.00	61.71									
01/04/05	NP	98.52		38.11	0.00	60.41	1,600	<250	1,600	10	13	60	110		
01/14/05		98.52		37.58	0.00	60.94									
ABANDON	NED										V				



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Well ID/	Purge	TOC ²	DTP	DTW	SPHT	GWE ³		trations repo	l l l l l l l l l l l l l l l l l l l			Ethyl-	Total		
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xvlenes	МТВЕ	T. Lead
MW-5						()			III ono	Denzene	Totache	Denzene	Aylenes	MIDE	1. Lead
10/11/00		99.42		34.50		64.92								1	
12/16/00		99.42		37.18	0.00	62.24	5,080	ND	146,000	ND	15,100	4,160	24,100	ND	0.0200
03/26/01		99.42		37.91	0.00	61.51	77,900	ND	149,000	256	10,600	4,000	24,200	ND	0.0200
06/25/01		99.42		38.14	0.00	61.28	109,000	<18,100	127,000	210	9,580	3,730	21,500		
09/24/01		99.42	38.40	38.44	0.04	61.01	NOT SAMP			ENCE OF SPI	, , , , , , , , , , , , , , , , , , , ,				
12/13/01		99.42	38.55	38.59	0.04	60.86				ENCE OF SPE					
03/08/02		99.42	37.96	38.46	0.50	61.36				ENCE OF SPI					
05/29/02		99.42	37.60	38.05	0.45	61.73				ENCE OF SPI					
08/07/02		99.42	37.73	38.12	0.39	61.61									
09/16/02		99.42	38.00	38.39	0.39	61.34	NOT SAMP	LED DUE TO	THE PRES	ENCE OF SPE	I				
10/15/02		99.42	38.09	38.47	0.38	61.25									
11/22/02	-	99.42	37.84	38.26	0.42	61.50									
12/05/02		99.42	38.42	38.78	0.36	60.93	NOT SAMP	LED DUE TO	THE PRES	ENCE OF SPI	I				
01/28/03		99.42	37.88	38.24	0.36	61.47									
02/13/03		99.42	38.33	38.68	0.35	61.02									
03/04/03		99.42	37.54	37.89	0.35	61.81	NOT SAMP	LED DUE TO	THE PRES	ENCE OF SPH	I				
04/21/03		99.42	37.96	38.29	0.33	61.39									
05/08/03		99.42	38.50	38.82	0.32	60.86									
06/03/03		99.42	37.42	37.76	0.34	61.93	NOT SAMPI	LED DUE TO	THE PRES	ENCE OF SPH					
07/06/03		99.42	37.77	38.11	0.34	61.58									
08/18/03		99.42	38.54	38.86	0.32	60.82									
10/27/03		99.42	WELL DR	RY/OBSTR	UCTED										
11/17/03		99.42	37.87	38.17	0.30	61.49									
12/31/03		99.42	WELL DR	Y/OBSTR	UCTED										
02/09/04	1	99.42	WELL DR	Y/OBSTR	UCTED										
03/04/04		99.42	WELL DR	Y/OBSTR	UCTED										
03/31/04		99.42	WELL DR	Y/OBSTR	UCTED										
06/28/04		99.42	WELL DR	Y/OBSTR	UCTED										
09/11/04		99.42	WELL DR												
09/29/04		99.42	WELL DR	Y/OBSTR	UCTED										
11/22/04		99.42	WELL DR	Y/OBSTR	UCTED										
01/04/05		99.42	WELL DR	Y/OBSTR	UCTED										



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Well ID/	Purge	TOC2	DTP	DTW	SPHT	GWE ³		- I I I I I I I I I I I I I I I I I I I				Ethyl-	Total		
Date	Method	(ft.)	(ft.)	(ft.)	(ft.)	(ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE	T. Lead
MW-5 (cor	nt.)														
01/14/05		99.42	WELL DE	RY/OBSTR	UCTED										
ABANDON	NED														
TRIP BLA	NK														
12/16/00			-		ı				ND	ND	ND	ND	ND	ND	
03/26/01					1				ND	ND	ND	ND	ND	ND	
06/25/01				1	1				<50.0	< 0.500	< 0.500	< 0.500	<1.00		
09/24/01				-	1				< 50.0	< 0.500	< 0.500	< 0.500	<1.00		
12/13/01				-	-				<80.0	< 0.500	< 0.500	< 0.500	<1.00		
03/08/02					1				<50	< 0.50	< 0.50	< 0.50	<1.5		
05/29/02				-	-				<50	< 0.50	< 0.50	< 0.50	<1.5		
09/16/02				-	1				<50	< 0.50	< 0.50	< 0.50	<1.5		
12/05/02				-	ł		"		<50	< 0.50	< 0.50	< 0.50	<1.5		
03/04/03			-		1	-			<50	< 0.50	< 0.50	< 0.50	<1.5		
10/27/03					1				<50	< 0.5	< 0.5	< 0.5	<1.5		
QA															
03/31/04					-				<50	< 0.5	< 0.5	< 0.5	<1.5		
06/28/04					-				<50	< 0.5	< 0.5	< 0.5	<1.5		
09/29/04			-		-				< 50	< 0.5	< 0.5	< 0.5	<1.5		
01/04/05				- A	-				< 50	< 0.5	< 0.5	< 0.5	<1.5		
06/16/09									< 50	< 0.5	< 0.5	< 0.5	<1.5		
07/01/09					-				< 50	< 0.5	< 0.5	< 0.5	<1.5		
12/11/09					-				<50	< 0.5	< 0.5	< 0.5	<1.5		
06/09/10									<50	< 0.5	< 0.5	< 0.5	<1.5		
11/19/10						-			<50	< 0.5	< 0.5	<0.5	<1.5		-
06/21/11									<50	< 0.5	< 0.5	< 0.5	<1.5		
09/22/11									<50	< 0.5	< 0.5	< 0.5	<1.5		-
12/09/11								/	<50	< 0.5	< 0.5	< 0.5	<1.5		
03/30/12									<50	< 0.5	< 0.5	< 0.5	<1.5		
Standard Laboratory Reporting Limits						rting Limits:			50	0.5	0.5	0.5	1.5		0.00100
			N	MTCA Met	hod A Cle	anup Levels:	500	500	800/1,000	5	1,000	700	1,000	20	15
Current Method						ent Method ⁵ :	NWTPH-Dx	+ Extended ⁴		NW	TPH-Gx and	USEPA 8021			USEPA 6020



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Concentrations reported in µg/L

Abbreviations:

DTP = Depth to Product	ND = Not Detected	TPH = Total Petroleum Hydrocarbons
DTW = Depth to Water	NP = No Purge	TPH-DRO = TPH as Diesel-Range Organics
(ft.) = Feet	QA = Quality Assurance/Trip Blank	TPH-GRO = TPH as Gasoline-Range Organics
GWE = Groundwater Elevation	SPH = Separate Phase Hydrocarbon	TPH-HRO = TPH as Heavy Oil-Range Organics
LNAPL = Light Non-Aqueous Phase Liquid	SPHT = Separate Phase Hydrocarbon Thickness	USEPA = United States Environmental Protection Agency
MTBE = Methyl Tertiary Butyl Ether	T. Lead = Total Lead	$\mu g/L = Micrograms per liter$
MTCA = Model Toxics Control Act Cleanup Regulations	TOC = Top of Casing	= Not Measured/Not Analyzed

Notes:

- 1 Analytical results in bold font indicate concentrations exceed MTCA Method A CULs.
- 2 TOC elevations have been surveyed in feet relative to the 1988 North American Vertical Datum. MW-1 through MW-5 TOC Elevation are reference to an arbitrary benchmark of 100 feet.
- 3 When SPH is present, GWE has been corrected using the following formula: GWE = [(TOC DTW) + (SPHT x 0.80)].
- 4 Analyzed with silica-gel cleanup.
- 5 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.
- 6 Skimmer in well.
- 7 Interface probe could not detect LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE.



Attachment A: Groundwater Monitoring and Sampling Data Package

TRANSMITTAL

April 10, 2012 G-R #386750

TO:

Ms. Ruth A. Otteman

SAIC

18912 North Creek Parkway, Suite 101

Bothell, WA 98011

FROM:

Deanna L. Harding

Project Coordinator

Gettler-Ryan Inc.

6747 Sierra Court, Suite J

Dublin, California 94568

RE:

Former Chevron Service Station

#209335

1225 North 45th Street

Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package
	First Quarter Event of March 30, 2012

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/209335

GETTLER-RYAN INC.

			CHEVR	ON - SIT	E CHECK	LIST	
	Facility#:	Chevron	#209335		Date:	3.30.1	
	Address:	1225 N. 45				2.00	
	City/St.:	Seattle, W.	A			1	· · · · · · · · · · · · · · · · · · ·
	Status of S	7/11/E	WALK	BU NEW	WAL GOE	ENS/SONE	Amoniant
DRUMS:	Please list b of drum:	elow ALL DR	UMS @ site	: i.e., drum d	escription, con	dition, labeling, c	ontents, location
	#	Descr	iption	Condition	Labeling	Contents	Location
9))9		No I	lm'b				
WELLS:	Please chec plug, well loc	k the conditio	n of ALL WE	LLS @ site:	i.e., well box	condition, gasket	s, bolts, well
Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Well Plug Y/N	Well Lock Y/N		II Box or/Size/# of Bolts	Other
MW-6	6000	6000	10000	(0000	. 6" N	ORRIS X3	
MW-7							
MW-8 MW-9	*	├					,
MW-10		1		V			
	- /	7-1	\ \				
		7. 1	·				
	ΔΛ. \	MARK					
	N.V.	W.S.					· · · · · · · · ·
	190						
		· · · · · · · · · · · · · · · · · · ·			<u> </u>		
							-
					-		
		· · · ·					
							
							
				<u></u>			
Iditional Com	ments/Obser	vations:					
					<u> </u>		· ———
	 .			 	·	 	
				· -			

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	: Chevron #20	19335		Job Number:	386750	
Site Address:	1225 N. 45Th	Street		Event Date:	3.30.17	(inclusive)
City:	Seattle, WA			Sampler:	.0	_(1110100140)
					- 47	-
Well ID	MW- 6			Date Monitored:	3.30.12	
Well Diameter	2	_				<u>.</u>
Total Depth	34.20 ft.	-	Volun Facto			
Depth to Water			Check if water colum	• •	- 1100 12 0.00	
		xvF	7	x3 case volume	= Estimated Purge Volume:	cal
Depth to Water	w/ 80% Recharge	- (Height of \	Water Column x 0.20)	+ DTW]:		
					Time Started: Time Completed:	(2400 hrs)
Purge Equipment:			ampling Equipment:		Depth to Product:	(2400 nrs)
Disposable Bailer Stainless Steel Bailt			isposable Bailer	X	Depth to Water:	ft
Stack Pump	er 		ressure Bailer		Hydrocarbon Thickness:	
Suglion Fump	/		letal Filters eristaltic Pump		Visual Confirmation/Description	n:
Grundfos			ED Bladder Pump		Skimmer / Absorbant Sock (cir	
Peristaltic Pump			ther:		Amt Removed from Skimmer:	cie one)
QED Bladder Pump					Amt Removed from Well:	yai
Other:	/				Water Removed:	
			<u> </u>		Product Transferred to:	
Approx. Flow Ra		gpm.	Sediment De	scription:	Odor: Y / N gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)	
SAMPLE ID	(#) CONTAINER		ABORATORY IN			
MW- 0	3 x voa vial	REFRIG. YES	PRESERV. TYPE HCL	LABORATORY	ANALYSES NWTPH-Gx/BTEX(8021)	
	Z x 1 liter ambers	YES	HCL		NWTPH-Dx w/sgc	
	x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020)	
					, ,	
<u> </u>	·					
COMMENTS:						
Add/Replaced I	Lock:	Add/l	Replaced Plug:		Add/Replaced Bolt:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/racility#	Chevron #209	335	Job Number:	386750	
Site Address:	1225 N. 45Th	Street	Event Date:	3.30.12	— (inclusive)
City:	Seattle, WA		Sampler:	J.P	· ·
Well ID Well Diameter Total Depth Depth to Water	MW-7 2 33.60 ft 21.35 ft. 6.25 x	Check if water o	Date Monitored: Volume	ft. Estimated Purge Volume: Time Started: Time Completed: Depth to Product:	gat. (2400 hrs) (2400 hrs) (2400 hrs) (35 ft (35 ft (100) (circle one)
Start Time (purg Sample Time/D Approx. Flow Ra Did well de-wate (2400 hr.)	ate: /	Water C	nt Description: Volume:g	Odor: Y / N Jal. DTW @ Sampling. D.O. ORP (mg/L) (mV)	
		LABORATOR	Y INFORMATION		
SAMPLE ID MW- 7	(#) CONTAINER 2 x voa vial 2 x 1 liter ambers x 250ml poly	REFRIG. PRESERV. TO YES HCL YES HOLL YES HNO3	LANCASTER LANCASTER	ANALYSES NWTPH-Gx/BTEX(8021) NWTPH-Dx w/sgc TOTAL LEAD (6020)	
COMMENTS:		No Royu	No 5	PAMPLES SPH	
Add/Replaced	Lock:	Add/Replaced Plug	g:	Add/Replaced Bolt:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #209335	<u> </u>	Job Number:	386750	
Site Address:	1225 N. 45Th Stre	et	Event Date:	3.30.12	(inclusive)
City:	Seattle, WA		Sampler:	. 7	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					
Well ID	MW-0	·	Date Monitored:	3.3012	<u> </u>
Well Diameter	2	[
Total Depth	36.06tt.	Volu Fact	me 3/4"= 0.02 or (VF) 4"= 0.66		
Depth to Water		Check if water colu			
	7.865 XVF			Estimated Purge Volume:	len –
Depth to Water	w/ 80% Recharge ((Heigh	it of Water Column x 0.20)	+ DTW]:		
				Time Started:	(2400 hrs)
Purge Equipment:		Sampling Equipment		Depth to Product:	(240U N/S)
Disposable Bailer	<u> </u>	Disposable Bailer		Depth to Water:	
Stainless Steel Baile	·]	Pressure Bailer		Hydrocarbon Thickness:	
Stack Pump Suction Pump	/ 	Metal Filters		Visual Confirmation/Descri	
Grundfos	/ -/- /	Peristaltic Pump			
Peristattic Pump	<i>/</i>	QED Bladder Pump	•	Skimmer / Absorbant Sock	(circle one)
QED Bladder Pump		Other:		Amt Removed from Skimm	ıer: gal
Other:	{			Amt Removed from Well:_ Water Removed:	gai
				Product Transferred to:	
Did well de-water Time (2400 hr.)	? If yes, T	Conductivity (µmhos/cm - µS)	Temperature	pal. DTW @ Sampling: D.O. ORP (mg/L) (mV)	
		LABORATORY II	NFORMATION		
SAMPLE ID	(#) CONTAINER REFR	IG. PRESERV. TYPE	LABORATORY	ANALYSES	
MW-	x voa vial YES			NWTPH-Gx/BTEX(8021)	
	x 1 liter ambers YES x 250ml poly YES			NWTPH-Dx w/sgc	
	X 230IIII pulyi YES	HNO3	LANCASTER	TOTAL LEAD (6020)	
		- -	 	· · · · · · · · · · · · · · · · · · ·	
L					
COMMENTS:		· · · · · · · · · · · · · · · · · · ·			
	· · · · · · · · · · · · · · · · · · ·				
Add/Replaced L		.dd/Replaced Plug:		Add/Replaced Bolt:	
p	- ··· <u> </u>			raurrepiaceu boit	<u> </u>



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #209335	<u> </u>	Job Number:	386750	
Site Address:	1225 N. 45Th Stre	eet	Event Date:	2.20.12	(inclusive)
City:	Seattle, WA		Sampler:	1.7	`
Well ID	MW-q		Date Monitored:	3.30.12	
Well Diameter	2	Volun	ne 3/4"= 0.0		-
Total Depth	44.10 ft.	Factor			
Depth to Water	14 60 ft. [Check if water column	•) ft. Estimated Purge Volume:	gal
Depth to Water	w/ 80% Recharge [(Heigh				
Purge Equipment:		Sampling Equipment:		Time Completed:	(2400 hrs)
Disposable Bailer	`	Disposable Bailer	\	Depth to Product:	
Stainless Steel Baile	r \	Pressure Bailer		Depth to Water:	
Stack Pump		Metal Filters		Hydrocarbon Thickness: Visual Confirmation/Descript	
Syction Pump		Peristaltic Pump		Visual Committation/Descript	uon:
Grandfos		QED Bladder Pump		Skimmer / Absorbant Sock (circle one)
Peristaltic Pump		Other:		Amt Removed from Skimme	r:gal
QED Bladder Pump				Amt Removed from Well:	
Other:				Water Removed:	
				Product Transferred to:	
Approx. Flow Ra Did well de-water Time (2400 hr.)		Sediment De	rescription: me: Temperature (C / F)	Odor: Y / N gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)	
SAMPLE ID	(#) CONTAINER REF		LABORATORY	ANALYSES	
MW- a	2 x voa vial YE			NWTPH-Gx/BTEX(8021)	
	2 x 1 liter ambers YE	S HCL	LANCASTER	NWTPH-Dx w/sgc	
	x 250ml poly YE	S HNO3	LANCASTER	TOTAL LEAD (6020)	
ļ			<u> </u>		
-					
COMMENTS:					
Add/Replaced L		Add/Replaced Plug:		Add/Replaced Bolt:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #209335		Job Number:	386750	
Site Address:	1225 N. 45Th Stre	et	Event Date:	3.30.12	(inclusive)
City:	Seattle, WA		Sampler:	3.9	(**************************************
Well ID	RAIA/ /				
Well Diameter	MW- 1		Date Monitored:	3.30.12	
	11/ 10/2		lume 3/4"= 0.0		3"= 0.38
Total Depth	44.60a		ctor (VF) 4"= 0.66	6 5"= 1.02 6" = 1.50 12	2"= 5.80
Depth to Water	14.00ft. [Check if water col			····
Depth to Water v	w/ 80% Recharge ((Heigh	t of Water Column x 0.20	x3 case volume = 0) + DTWI:	Estimated Purge Volume:	Comment of the Commen
			-,, <u></u>	I Time Started.	(2400 hrs)
Purge Equipment:		Sampling Equipmen	nt:	Donth to Breduct	(2400 hrs)
Disposable Bailer	·	Disposable Bailer	×		ft
Stainless Steel Bailer		Pressure Bailer		Depth to Water:	n
Stack Fump		Metal Filters		Hydrocarbon Thickness Visual Confirmation/De	
Suction Pump	T_{\sim}	Peristaltic Pump		Along CountillatiothDe	scription:
Gryndfos		QED Bladder Pump		Skimmer / Absorbant S	ock (circle one)
Peristaltic Pump		Other:		Amt Removed from Ski	mmer. gal
QED Bladder Pump				Amt Removed from We	ell:gal
Other:				Water Removed:	
				Product Transferred to:	
Approx. Flow Rat Did well de-water Time (2400 hr.)		Sediment I	Temperature (C / F)	Odor: Y / N gal. DTW @ Sampling: D.O. ORI (mg/L) (mV	
SAMPLE ID ,	(#) CONTAINER REFR	LABORATORY G. PRESERV. TYP			
MW- 10	2 x voa vial YES			ANALYSE:	š
7	x 1 liter ambers YES			NWTPH-Gx/BTEX(8021) NWTPH-Dx w/sgc	
	x 250ml poly YES			TOTAL LEAD (6020)	
			D II TO TO TELL	TOTAL LEAD (OUZU)	
					
· · · · · · · · · · · · · · · · · · ·					
COMMENTS:					
Add/Replaced L	ock: A	dd/Replaced Plug:		Add/Replaced Bolt:	

Chevron Northwest Region Analysis Request/Chain of Custody

Laboratories SS#209335-0ML G-R#38	6750				Acct.	#:	ī			Group	Lanc #				s		onl		SCR #:		
Facility #: 1225 N. 45th Street, SEV				T	Matri	x		H			rese		- 1 - 1 AV	-					☐ Results in Dr	y Weight	
Site Address:	Consultant: J, canna@grincFax #:	Dublin, CA ::com) 925-551-7	9456	8	Water O Potable O NPDES	Air	er or co	BTEX + MITTEE 8021 Q 8260 CI Naphth CI	Oxygenates	NWTPH GX	S Si	Lead Total & Diss. D Method	О WAVPH О WAEPH	NWTPH H HCID					☐ J value report ☐ Must meet to possible for 8 ☐ 8021 MTBE ☐ Confirm MTB ☐ Confirm high ☐ Confirm all h ☐ Run ox ☐ Run ox	west deter 260 comp Confirmati E + Naph est hit by 8 ts by 8260 's on high	ction limits counds on thalene 3260) nest hit
- A	3.30 12	Collected	×	05	> X	0 1	1	αο à	5 1	×	Z	97	0	Z					Comments /	Remark	s
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Data Package Options (please circle if required)		Relinquis	shed by:	T W						Date	T	ime	R	eceiv	red b	y:				Date	Time
QC Summary Type I – Full Relinquished by UPS F				thed by Commercial Carrier: FedEx Other					Received by: Date			Date	Time								
		Tempera	ture Upo	on Re	ceipt_			_C°			13/6		C	ustoc	dy Se	eals I	ntact	?	Yes No		

Attachment B: Laboratory Analysis Report



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ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

April 12, 2012

Project: 209335

Submittal Date: 03/31/2012 Group Number: 1299240 PO Number: 0015080810 Release Number: BAUHS State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
QA Water Sample	6600539
MW-6 Grab Water Sample	6600540
MW-8 Grab Water Sample	6600541
MW-9 Grab Water Sample	6600542
MW-10 Grab Water Sample	6600543

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

ELECTRONIC COPY TO	SAIC c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Ruth Otteman

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Respectfully Submitted,

fill M. Parker
Senior Specialist

(717) 556-7262



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Page 1 of 1

Sample Description: QA Water Sample

Job# 386750 Facility# 209335 1225 N. 45th Street - Seattle, WA

LLI Group # 1299240 # 11260

LLI Sample # WW 6600539

Project Name: 209335

Collected: 03/30/2012

Submitted: 03/31/2012 09:35

Chevron

6001 Bollinger Canyon Road

L4310

Reported: 04/12/2012 17:33

San Ramon CA 94583

45SQA

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Vo	latiles I	ECY 97-6	02 NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12		n.a.	N.D.	50	1
GC Vo	latiles	W-846 8	021B	ug/l	ug/l	
02102	Benzene		71-43-2	N.D.	0.5	1
02102	Ethylbenzene		100-41-4	N.D.	0.5	1
02102	Toluene		108-88-3	N.D.	0.5	1
02102	Total Xylenes		1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method	Frial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH- Gx	1	12093A94A	04/03/2012 15:26	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12093A94A	04/03/2012 15:26	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12093A94A	04/03/2012 15:26	Marie D John	1



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Analysis Report

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Page 1 of 1

Sample Description: MW-6 Grab Water Sample

 LLI Sample # WW 6600540 LLI Group # 1299240 Account # 11260

Project Name: 209335

Collected: 03/30/2012 10:45

by JP

Chevron

6001 Bollinger Canyon Road

L4310

Submitted: 03/31/2012 09:35

San Ramon CA 94583

Reported: 04/12/2012 17:33

45S06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Vo	latiles ECY 97-	602 NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	90	50	1
GC Vo	latiles SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Pe	troleum ECY 97-	602 NWTPH-Dx	ug/l	ug/l	
Hydro	carbons w/Si modifie	ed			
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
The	reverse surrogate, capric acid	, is present at <	1%.		
Metal	s SW-846	6020	ug/l	ug/l	
06035	Lead	7439-92-1	2.5	0.080	1

General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method Tr:	ial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH- Gx	1	12093A94A	04/03/2012	18:00	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12093A94A	04/03/2012	18:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12093A94A	04/03/2012	18:00	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH- Dx modified	1	120950034A	04/11/2012	14:19	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH- Dx 06/97	1	120950034A	04/05/2012	08:40	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	120946050001A	04/05/2012	11:25	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	120946050001	04/03/2012	23:00	Annamaria Stipkovits	1



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Page 1 of 1

Sample Description: MW-8 Grab Water Sample

Facility# 209335 Job# 386750

1225 N. 45th Street - Seattle, WA

LLI Sample # WW 6600541 LLI Group # 1299240

Account

11260

Project Name: 209335

Collected: 03/30/2012 10:15 by JP

Submitted: 03/31/2012 09:35

Reported: 04/12/2012 17:33

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

45S08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Vo	latiles ECY 9	97-602 NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	2,000	50	1
GC Vo	latiles SW-84	46 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	3.0	0.5	1
02102	Ethylbenzene	100-41-4	45	0.5	1
02102	Toluene	108-88-3	3.9	0.5	1
02102	Total Xylenes	1330-20-7	120	1.5	1
GC Pe	troleum ECY 9	97-602 NWTPH-Dx	ug/l	ug/l	
Hydro	carbons w/Si modi:	fied			
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
The	reverse surrogate, capric a	cid, is present at <	1%.		
Metal	s SW-8	46 6020	ug/l	ug/l	
06035	Lead	7439-92-1	2.9	0.080	1

General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH Gx	- 1	12093A94A	04/03/2012	18:26	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12093A94A	04/03/2012	18:26	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12093A94A	04/03/2012	18:26	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH Dx modified	- 1	120950034A	04/11/2012	14:42	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH Dx 06/97	- 1	120950034A	04/05/2012	08:40	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	120946050001A	04/05/2012	11:26	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	120946050001	04/03/2012	23:00	Annamaria Stipkovits	1



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Analysis Report

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Page 1 of 1

Sample Description: MW-9 Grab Water Sample

Facility# 209335 Job# 386750 1225 N. 45th Street - Seattle, WA LLI Sample # WW 6600542 LLI Group # 1299240

Account # 11260

Project Name: 209335

Collected: 03/30/2012 09:45

by JP

Chevron

6001 Bollinger Canyon Road

L4310

Submitted: 03/31/2012 09:35 Reported: 04/12/2012 17:33

San Ramon CA 94583

45S09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor		
GC Vo	latiles ECY 9	7-602 NWTPH-Gx	ug/l	ug/l			
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1		
C Vo	latiles SW-84	6 8021B	ug/l	ug/l			
02102	Benzene	71-43-2	N.D.	0.5	1		
02102	Ethylbenzene	100-41-4	N.D.	0.5	1		
02102	Toluene	108-88-3	N.D.	0.5	1		
02102	Total Xylenes	1330-20-7	N.D.	1.5	1		
C Pe	troleum ECY 9	7-602 NWTPH-Dx	ug/l	ug/l			
Iydro	carbons w/Si modif	ied					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1		
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1		
The	reverse surrogate, capric ac	eid, is present at <	1%.				
fetal	s SW-84	6 6020	ug/l	ug/l			
06035	Lead	7439-92-1		0.080	1		

General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method T	rial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH- Gx	1	12093A94A	04/03/2012	18:52	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12093A94A	04/03/2012	18:52	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12093A94A	04/03/2012	18:52	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH- Dx modified	1	120950034A	04/11/2012	15:05	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH- Dx 06/97	1	120950034A	04/05/2012	08:40	Katheryne V Sponheimer	1
06035	Lead	SW-846 6020	1	121006050004A	04/11/2012	19:30	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	120956050003	04/05/2012	13:15	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	2	121006050004	04/10/2012	12:47	James L Mertz	1



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Page 1 of 1

Sample Description: MW-10 Grab Water Sample

Facility# 209335 Job# 386750 1225 N. 45th Street - Seattle, WA LLI Group # 1299240 # 11260

LLI Sample # WW 6600543

Account

Project Name: 209335

Collected: 03/30/2012 09:15

Submitted: 03/31/2012 09:35

Reported: 04/12/2012 17:33

by JP

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

45S10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Vo	latiles ECY 97-	602 NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Vo	latiles SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Pe	troleum ECY 97-	602 NWTPH-Dx	ug/l	ug/l	
Hydro	carbons w/Si modifie	ed			
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
The	reverse surrogate, capric acid	, is present at <	1%.		
Metal	s SW-846	6020	ug/l	ug/l	
06035	Lead	7439-92-1	110	0.080	1

General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor	
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH- Gx	- 1	12093A94A	04/03/2012	20:09	Marie D John	1	
02102	Method 8021 Water Master	SW-846 8021B	1	12093A94A	04/03/2012	20:09	Marie D John	1	
01146	GC VOA Water Prep	SW-846 5030B	1	12093A94A	04/03/2012	20:09	Marie D John	1	
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH- Dx modified	- 1	120950034A	04/11/2012	15:28	Tracy A Cole	1	
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH- Dx 06/97	- 1	120950034A	04/05/2012	08:40	Katheryne V Sponheimer	1	
06035	Lead	SW-846 6020	1	121006050004A	04/11/2012	19:32	Parker D Lindstrom	1	
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	120956050003	04/05/2012	13:15	James L Mertz	1	
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	2	121006050004	04/10/2012	12:47	James L Mertz	1	



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Page 1 of 2

Quality Control Summary

Client Name: Chevron

Group Number: 1299240

Reported: 04/12/12 at 05:33 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 12093A94A	Sample numb	per(s): 66	00539-6600	543				
Benzene	N.D.	0.5	ug/l	100	100	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	100	100	80-120	0	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Toluene	N.D.	0.5	ug/l	95	95	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	100	102	80-120	2	30
Batch number: 120950034A	Sample numb	per(s): 660	00540-6600	543				
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	63	63	50-120	0	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 120946050001A	Sample numb	per(s): 660	00540-6600	541				
Lead	N.D.	0.080	ug/l	102		90-115		
Batch number: 121006050004A	Sample numb	per(s): 660	00542-6600	543				
Lead	N.D.	0.080	ug/l	102		90-115		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 120946050001A Lead	Sample	number(s)	: 6600540 83-120		41 UNSE 20	PK: P60178	2 BKG: P60178:	2 5 (1)	20
Batch number: 121006050004A Lead	Sample	number(s)	: 6600542 83-120		43 UNSI 20	PK: P60088	3 BKG: P60088:	3 4 (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: Method 8021 Water Master Batch number: 12093A94A

Trifluorotoluene-F

*- 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.



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Page 2 of 2

Quality Control Summary

Client Name: Chevron Group Number: 1299240 Reported: 04/12/12 at 05:33 PM Surrogate Quality Control 6600539 84 77 77 6600540 84 103 74 6600541 92 6600542 6600543 86 Blank 84 77 LCS 84 92 LCSD 84 94 Limits: 51-120 63-135 Analysis Name: NWTPH-Dx water w/ 10g Si Gel Batch number: 120950034A Orthoterphenyl 6600540 6600541 80 75 6600542 76 77 6600543 Blank LCS 79 LCSD Limits: 50-150

^{*-} Outside of specification

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

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

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories								- Acct. ;	#: <u> </u>	19	<u>(0(</u>)_	_ G	For I	anc.	aster Q	Lat	orato	ries)_s	use Samp	oni le #:	<u>6</u>	600539	43		
SS#209335-0ML G-R	1206	750									L,					_		ueste					SCR #:			
Facility #:								Matrix			H HPreservati					lon	lon Codes					☐ Results in Dry Weight ☐ J value reporting needed				
Chevron PM:G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Consultant/Office:					M: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Office: Deanna L. Harding (deanna@grinc.com) Prj. Mgr.: 925-551-7555							les les	1	[lica Gel Cleanup		лерн Мерн	O quantification	□ quantification				☐ 8021 MTBE (☐ Confirm MTB ☐ Confirm highe ☐ Confirm all hi	260 compositions Confirmation E + Naphtlest hit by 8 ts by 8260	60 compounds enfirmation + Naphthalene It hit by 8260
Sampler: Sample Identification	-	Date Collect	. ` e	Time Collected	Grab	Composite	Soil	Water	Oita Aira	Total Number of Containers	BTEX+ ************************************	scan	Oxygenates	NWTPH GX	NWTPH DX NSilica Gel Cleanup	Lead Total D Diss. D Method	O WAVPH O WAEPH	NWTPH H HCID					□ Run oxy			
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Lancaster

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)
С	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)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- less than The number following the sign is the <u>limit of quantitation</u>, 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 of gas per liter of gas.

ppb parts per billion

Dry weight basis

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

Data Qualifiers:

C - result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers	
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""><th></th></crdl,>	
В	Analyte was also detected in the blank	E	Estimated due to interference	
С	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	
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used	
	the instrument		for calculation	
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected	
Р	Concentration difference between primary and	W	Post digestion spike out of control limits	
	confirmation columns >25%	*	Duplicate analysis not within control limits	
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995	
X,Y,Z	Defined in case narrative			

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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