



Olivia Skance
Team Lead
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6521

March 23, 2012

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

5:29 pm, Mar 28, 2012

Alameda County
Environmental Health

Re: Chevron Facility # 90517

Address: 3900 Piedmont Avenue, Oakland, California

I have reviewed the attached report titled 2012 Annual Groundwater Monitoring Report and dated March 23, 2012.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

A handwritten signature in black ink, appearing to read "Liv Skance", with a long horizontal flourish extending to the right.

Olivia Skance
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

March 23, 2012

Reference No. 611995

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: 2012 Annual Groundwater Monitoring Report
Former Chevron Service Station 90517
3900 Piedmont Avenue
Oakland, California
Case No. RO0000138

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated February 22, 2012) presents the results of the sampling of wells MW-3 and MW-4 during first quarter 2012. These wells are gauged and sampled annually during the first quarter; wells MW-1 and MW-2 are gauged but no longer sampled. As requested by ACEH in a letter dated April 14, 2011, MW-1 was supposed to be sampled during the current event to analyze for waste-oil constituents; however, it could not be accessed for gauging or sampling due to rubber mats (glued down) that had been placed over the well by the new building occupant (SOL Performance Trainer). We were not informed that a new tenant had occupied the building. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the 2012 annual analytical results along with a rose diagram. The monitoring results during 2012 are summarized below.

During 2012, the detected petroleum hydrocarbon concentrations in MW-3 and MW-4 were within historical ranges. Total petroleum hydrocarbons as gasoline (TPHg) was detected at 720 micrograms per liter ($\mu\text{g}/\text{L}$) in MW-3, an increase from the concentration detected during the previous event. Low concentrations of benzene and xylenes ($0.9 \mu\text{g}/\text{L}$) were also detected in MW-3; benzene, toluene, ethylbenzene, and xylenes (BTEX) are only periodically detected in this well. Although fluctuations occur, overall decreasing trends are evident in MW-3. Methyl tertiary butyl ether (MTBE) was not detected in MW-3, and has not been detected since 2003. TPHg and benzene were detected in MW-4 at $6,700 \mu\text{g}/\text{L}$ and $110 \mu\text{g}/\text{L}$, respectively. The TPHg concentration in MW-4 was the highest detected to date in this well, but is only slightly above previously observed concentrations. The TPHg and benzene concentrations in MW-4 have fluctuated, but have remained relatively stable overall. Low concentrations of toluene,

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**CONESTOGA-ROVERS
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March 23, 2012

Reference No. 611995

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ethylbenzene, and xylenes (up to 34 µg/L) were also detected in MW-4, and have also remained relatively stable. Conversely, the MTBE concentrations in MW-4 have steadily decreased and only a low concentration remains (1 µg/L).

Based on the analytical results, impacted groundwater remains in the area of wells MW-3 and MW-4 downgradient of the former underground storage tanks (USTs) and dispenser islands. Concentrations are stable to declining. CRA recommends continued monitoring and sampling to further evaluate groundwater quality and concentration trends. CRA will contact the new tenant to arrange for access to MW-1. Depending on when this is achieved, either a special sample event will be performed, or sampling of MW-1 will occur during the next event.

On June 13, 2011, CRA submitted a *Revised Work Plan for Additional Site Investigation* (work plan) that proposed the installation and sampling of two sub-slab vapor probes within the site building as well as indoor air and ambient air sampling to evaluate potential vapor intrusion concerns. This work plan was requested by ACEH in the April 14, 2011 letter; however, we have not received a response or approval to implement the work plan. Given the length of time without a response from ACEH, we are assuming agency concurrence with the work plan and hereby provide 30-day notice of our intent to implement the scope of work, as written, in an effort to continue to move this case toward closure. If ACEH has any comments on the work plan, please provide them prior to this time.



**CONESTOGA-ROVERS
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March 23, 2012

Reference No. 611995

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Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



James P. Kiernan, P.E.

JK/aa/12

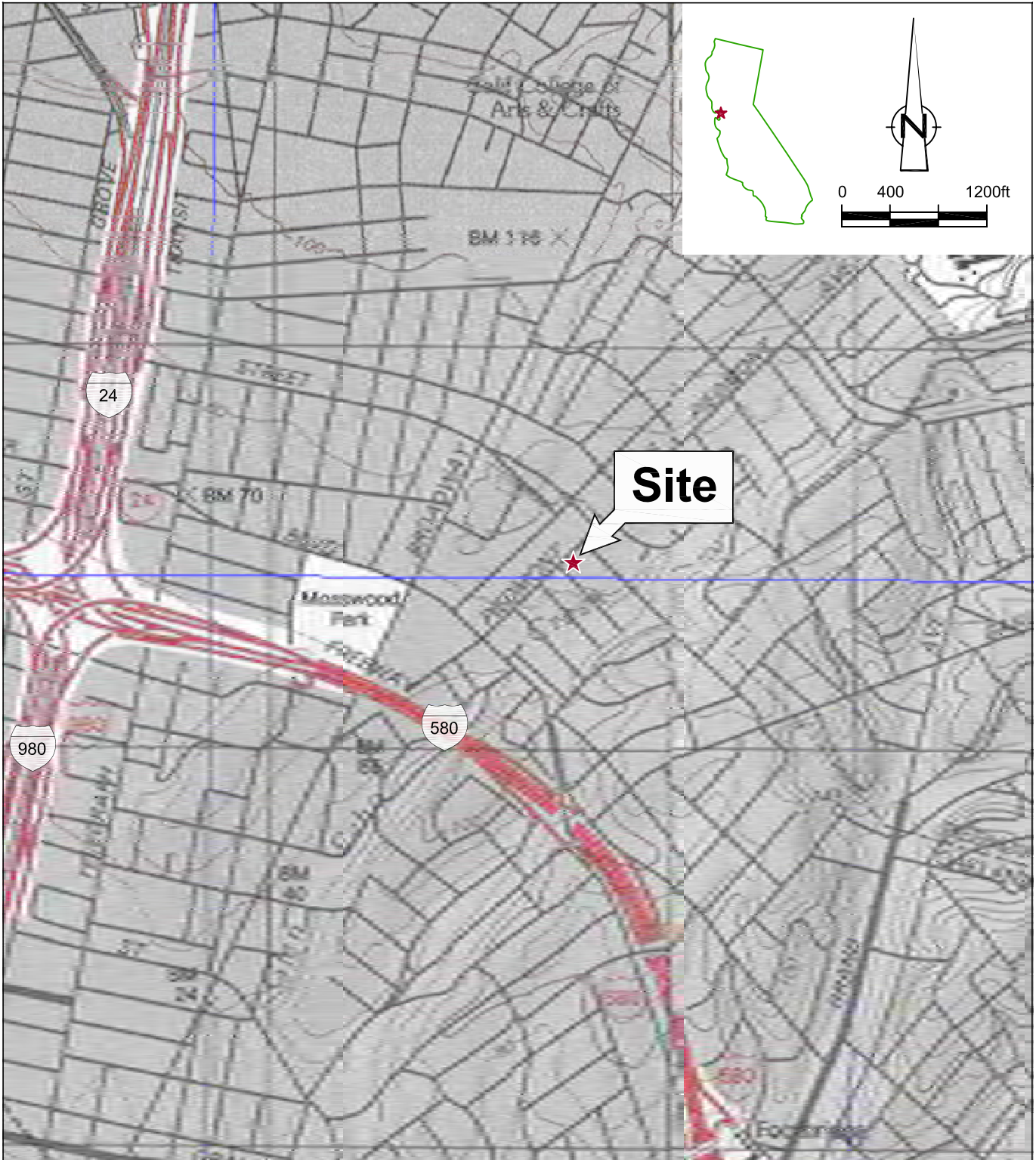
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map

Attachment A Groundwater Monitoring and Sampling Report

cc: Ms. Olivia Skance, Chevron (electronic copy only)
 Mr. Neil B. and Mrs. Diane C. Goodhue, property owners

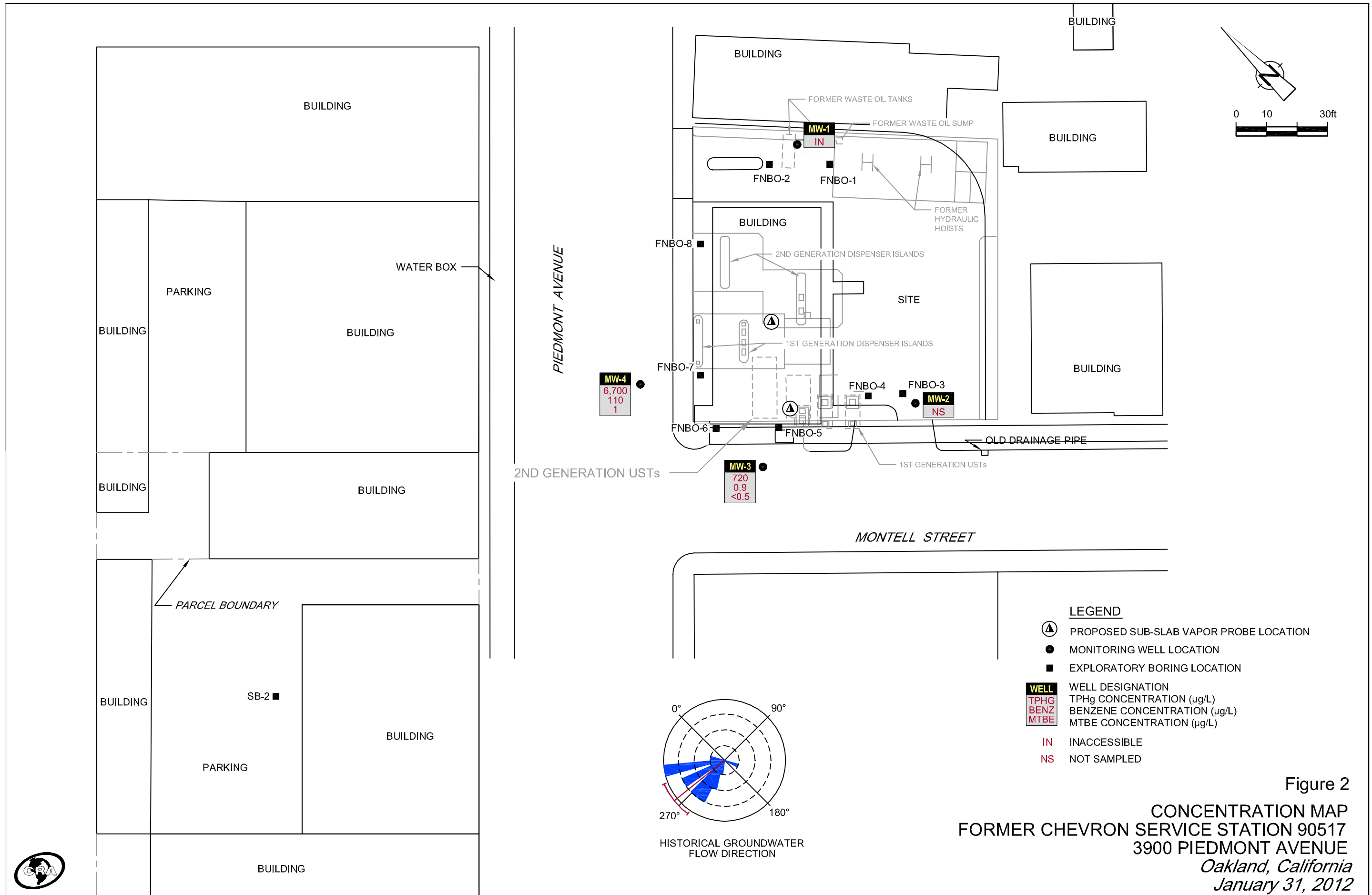
FIGURES



SOURCE: TOPO! MAPS.

Figure 1
VICINITY MAP
FORMER CHEVRON SERVICE 90517
3900 PIEDMONT AVENUE
Oakland, California





ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT



GETTLER-RYAN INC.



February 22, 2012
G-R Job #386420

Ms. Olivia Skance
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

RE: Annual Event of January 31, 2012
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

Dear Ms. Skance:


This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

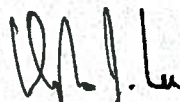
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,


Deanna L. Harding
Project Coordinator


Douglas J. Lee
Senior Geologist, P.G. No. 6882

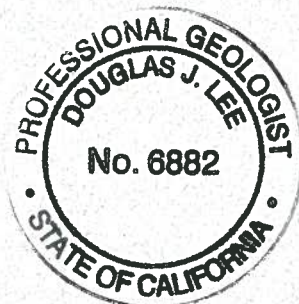
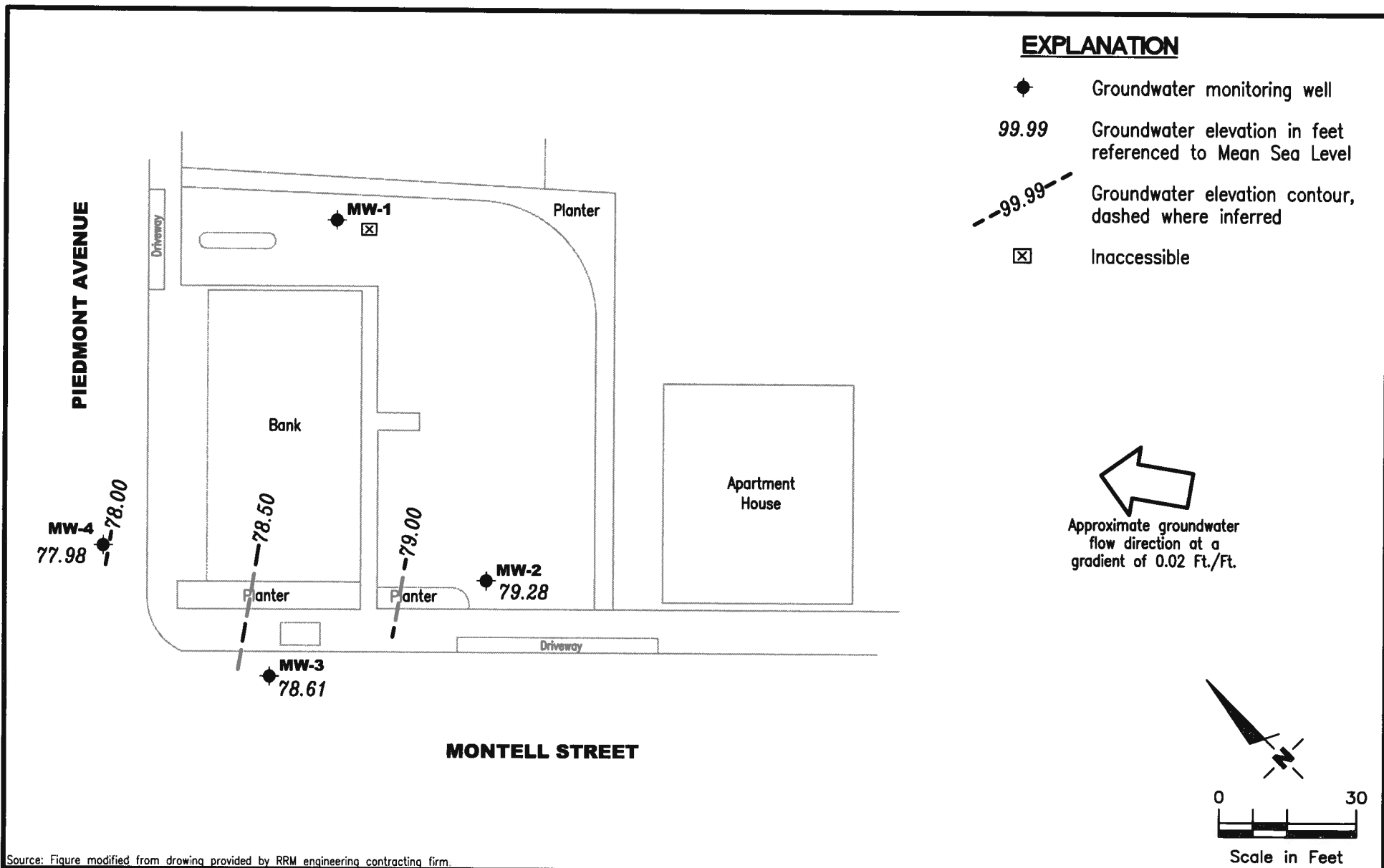


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Former Chevron Service Station #9-0517
 3900 Piedmont Avenue
 Oakland, California

FIGURE

1

PROJECT NUMBER
 386420

REVIEWED BY

DATE
 January 31, 2012

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1									
08/03/98	87.89	75.46	12.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	78.84	9.05	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	87.89	81.39	6.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	87.89	80.76	7.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	87.89	78.74	9.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	87.89	78.35	9.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	87.89	81.99	5.90	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00 ³	87.89	80.84	7.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	87.89	79.49	8.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	87.89	79.24	8.65	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	87.89	82.06	5.83	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	87.89	80.18	7.71	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	87.89	DRY	--	--	--	--	--	--	--
02/25/02	87.89	81.18	6.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	87.89	79.00	8.89	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	87.89	80.53	7.36	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	87.89	78.42	9.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	87.89	81.59	6.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	87.89	77.77	10.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	87.89	81.10	6.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	87.89	79.00	8.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	87.89	81.24	6.65	<50	1	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	87.89	80.16	7.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	87.89	80.12	7.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	87.89	78.30	9.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	87.89	80.48	7.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	87.89	78.11	9.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	87.89	82.28	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	87.89	77.67	10.22	--	--	--	--	--	--
01/29/10	87.89	81.85	6.04	--	--	--	--	--	--
08/11/10	87.89	79.54	8.35	--	--	--	--	--	--
02/02/11	87.89	81.35	6.54	--	--	--	--	--	--
01/31/12	INACCESSIBLE	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-2									
08/03/98	86.09	74.75	11.34	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	79.19	6.90	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	86.09	80.86	5.23	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.09	79.97	6.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	86.09	79.68	6.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	86.09	78.80	7.29	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	86.09	81.60	4.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	86.09	80.19	5.90	4,000 ³	240	26	100	76	<100
07/31/00	86.09	79.51	6.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	86.09	79.86	6.23	<50.0	<0.500	2.92	<0.500	1.88	4.89
02/27/01	86.09	81.49	4.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	86.09	79.79	6.30	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	86.09	78.81	7.28	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/25/02	86.09	80.48	5.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	86.09	78.99	7.10	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	86.09	78.64	7.45	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	86.09	78.44	7.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	86.09	81.24	4.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.09	77.86	8.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	86.09	80.16	5.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	86.09	78.50	7.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	86.09	80.36	5.73	<50	0.6	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	86.09	79.14	6.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	86.09	79.80	6.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	86.09	78.69	7.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	86.09	79.62	6.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	86.09	79.01	7.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	86.09	79.59	6.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	86.09	77.58	8.51	--	--	--	--	--	--
01/29/10	86.09	79.80	6.29	--	--	--	--	--	--
08/11/10	86.09	78.89	7.20	--	--	--	--	--	--
02/02/11	86.09	79.22	6.87	--	--	--	--	--	--
01/31/12	86.09	79.28	6.81	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3									
08/03/98	86.28	74.20	12.08	4000	160	<5.0	<5.0	73	180
11/23/98	86.28	78.59	7.69	4000	67.7	7.56	17.1	24.5	41.2
02/08/99	86.28	80.01	6.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.28	79.32	6.96	1800	53.6	8.96	33	18.6	21.4
08/23/99	86.28	78.36	7.92	3970	155	24	88.8	39.8	185
11/03/99	86.28	78.36	7.92	3320	108	19.9	98.4	44.8	<25
02/15/00	86.28	80.54	5.74	779	26.7	3.82	15.4	4.24	<12.5
05/12/00	86.28	79.52	6.76	12,000 ³	3,100	120	980	1,400	820
07/31/00	86.28	78.98	7.30	1,200 ³	32	<5.0	11	7.3	39
10/30/00	86.28	79.26	7.02	3,300 ⁴	119	<5.00	40.0	<15.0	<25.0
02/27/01	86.28	80.39	5.89	432 ³	15.5	1.53	14.9	1.06	15.7
05/15/01	86.28	79.21	7.07	3,220 ³	96.4	12.6	11.5	11.6	128
08/23/01	86.28	78.23	8.05	2,300	48	<10	<10	<10	100
02/25/02	86.28	79.55	6.73	3,100	27	2.1	4.8	6.6	<2.5
08/05/02	86.28	78.33	7.95	4,100	87	21	90	47	21
02/11/03	86.28	79.23	7.05	3,700	21	2.3	4.4	9.0	<20
08/09/03 ⁵	86.28	78.05	8.23	1,600	12	1	2	4	0.7
02/25/04 ⁵	86.28	80.43	5.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.28	77.23	9.05	3,000	21	3	3	9	<0.5
02/11/05 ⁵	86.28	79.26	7.02	540	15	1	<0.5	0.8	<0.5
08/15/05 ⁵	86.28	77.87	8.41	2,600	11	1	1	2	<0.5
02/10/06 ⁵	86.28	79.35	6.93	970	20	2	<0.5	3	<0.5
08/02/06 ⁵	86.28	78.28	8.00	1,000	16	1	<0.5	3	<0.5
02/09/07 ⁵	86.28	78.95	7.33	590	3	<0.5	<0.5	0.5	<0.5
08/23/07 ⁵	86.28	77.45	8.83	2,700	18	4	2	8	<0.5
02/18/08 ⁵	86.28	79.01	7.27	1,300	8	1	0.6	1	<0.5
08/12/08 ⁵	86.28	76.70	9.58	2,000	21	3	1	4	<0.5
02/19/09 ⁵	86.28	79.52	6.76	810	<0.5	<0.5	<0.5	1	<0.5
08/07/09 ⁵	86.28	77.11	9.17	900	4	0.9	3	3	<0.5
01/29/10 ⁵	86.28	79.71	6.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/11/10 ⁵	86.28	77.67	8.61	1,800	9	2	6	5	<0.5
2/2/2011 ⁵	86.28	79.12	7.16	97	<0.5	<0.5	<0.5	<0.5	<0.5
01/31/12 ⁵	86.28	78.61	7.67	720	0.9	<0.5	<0.5	0.9	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-4									
08/03/98	87.22	74.30	12.92	1900	110	12	<0.5	55	130
11/23/98	87.22	77.82	9.40	4080	136	17.8	37.2	30.1	51.8
02/08/99 ¹	87.22	79.40	7.82	2900	150	16	<5.0	15	230/30.7 ²
05/07/99	87.22	79.80	7.42	6050	161	<25	39.8	36.9	<250/30.2 ²
08/23/99	87.22	77.83	9.39	3930	203	37.6	58.6	42.2	255
11/03/99	87.22	77.41	9.81	5350	324	44.7	91.5	56.1	<50
02/15/00	87.22	79.50	7.72	4080	161	27.7	31.1	39.1	73.9
05/12/00	87.22	79.31	7.91	3,600 ³	170	27	49	64	170
07/31/00	87.22	78.57	8.65	2,900 ³	160	20	15	56	170
10/30/00	87.22	78.14	9.08	5,630 ⁴	301	17.8	11.8	51.5	<25.0
02/27/01	87.22	79.92	7.30	2,140 ³	95.1	12.8	53.4	43.0	235
05/15/01	87.22	79.07	8.15	4,580 ³	200	44.1	46.3	51.7	172
08/23/01	87.22	77.89	9.33	2,700	250	44	21	72	130
02/25/02	87.22	79.42	7.80	4,100	100	18	27	39	<10
08/05/02	87.22	80.12	7.10	4,100	130	18	50	20	<10
02/11/03	87.22	79.10	8.12	4,100	100	23	20	51	<50
08/09/03 ⁵	87.22	77.67	9.55	3,700	110	24	10	45	8
02/25/04 ⁵	87.22	79.16	8.06	5,400	94	28	34	49	5
08/23/04 ⁵	87.22	77.03	10.19	5,100	100	26	7	43	5
02/11/05 ⁵	87.22	79.25	7.97	3,900	58	16	25	16	2
08/15/05 ⁵	87.22	78.40	8.82	2,400	76	16	11	26	3
02/10/06 ⁵	87.22	79.41	7.81	1,600	68	16	8	27	4
08/10/06 ⁵	87.22	78.64	8.58	2,500	100	19	5	30	3
02/09/07 ⁵	87.22	78.51	8.71	6,200	200	39	16	52	3
08/23/07 ⁵	87.22	76.84	10.38	5,800	190	48	20	61	3
02/18/08 ⁵	87.22	79.11	8.11	4,900	110	24	11	32	2
08/12/08 ⁵	87.22	76.64	10.58	6,100	180	31	9	52	3
02/19/09 ⁵	87.22	79.50	7.72	2,900	84	20	5	24	2
08/07/09 ⁵	87.22	76.80	10.42	4,900	120	34	11	36	2
01/29/10 ⁵	87.22	79.20	8.02	3,800	49	15	4	17	1
08/11/10 ⁵	87.22	77.03	10.19	5,400	110	36	11	36	1
2/2/2011 ⁵	87.22	78.57	8.65	3,800	76	29	16	31	1
01/31/12⁵	87.22	77.98	9.24	6,700	110	32	7	34	1

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK									
08/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
02/25/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ^s	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
DISCONTINUED									

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet

GWE = Groundwater Elevation
(msl) = Mean sea level

DTW = Depth to Water

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

¹ Chromatogram pattern indicates gas and an unidentified hydrocarbon.

² Confirmation run.

³ Laboratory report indicates gasoline C6-C12.

⁴ Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

⁵ BTEX and MTBE by EPA Method 8260.

STANDARD OPERATING PROCEDURE –WELL DEVELOPMENT 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 well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

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.

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.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 386420
 Site Address: 3900 Piedmont Avenue Event Date: 1/31/12 (inclusive)
 City: Oakland, CA Sampler: GM

Well ID: MW-1 Date Monitored: 1/31/12
 Well Diameter: 2 in.
 Total Depth: ft.
 Depth to Water: ft. Check if water column is less than 0.50 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

 xVF = x3 case volume = Estimated Purge Volume: gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: WELL COVERED WITH MATS THAT ARE GLUED DOWN. PICTURES TAKEN. UTA

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 1/31/12 (inclusive)
 Sampler: Gom

Well ID: MW- 2
 Well Diameter: 2 in.
 Total Depth: 16.53 ft.
 Depth to Water: 6.81 ft.
9.72 xVF = _____ = _____

Date Monitored: 1/31/12

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____ x3 case volume = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x vqa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: n/o

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 1/31/12 (inclusive)
 Sampler: Gm

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 17.70 ft.
 Depth to Water: 7.67 ft.
10.03 xVF 0.17 = 1.71

Date Monitored: 1/31/12

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.67 x3 case volume = Estimated Purge Volume: 5.5 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0840
 Sample Time/Date: 0910 / 1/31/12
 Approx. Flow Rate: — gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: CLOUDY
 Water Color: SL Yellow Odor: OPEN MODERATE
 Sediment Description: SILT
 Volume: _____ gal. DTW @ Sampling: 9.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)
<u>0843</u>	<u>2</u>	<u>6.69</u>	<u>455</u>	<u>16.1</u>		
<u>0846</u>	<u>4</u>	<u>6.68</u>	<u>448</u>	<u>16.0</u>		
<u>0850</u>	<u>6</u>	<u>6.62</u>	<u>440</u>	<u>15.8</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 1/31/12 (inclusive)
 Sampler: GM

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 16.35 ft.
 Depth to Water: 9.24 ft.

Date Monitored: 1/31/12

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.66
 $7.11 \times VF \ 0.17 = 1.21$ x3 case volume = Estimated Purge Volume: 4 gal.

Purge Equipment:
 Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:
 Disposable Bailer: Y
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0755 Weather Conditions: CLOUDY
 Sample Time/Date: 0825 / 1/31/12 Water Color: CLEAR Odor: ① IN STRONG
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>DS</u>)	Temperature (② F)	D.O. (mg/L)	ORP (mV)
<u>0758</u>	<u>1.5</u>	<u>6.78</u>	<u>471</u>	<u>16.6</u>		
<u>0801</u>	<u>3</u>	<u>6.73</u>	<u>467</u>	<u>16.4</u>		
<u>0804</u>	<u>4</u>	<u>6.70</u>	<u>458</u>	<u>16.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

February 08, 2012

Project: 90517

Submittal Date: 02/01/2012

Group Number: 1287481

PO Number: 90517

Release Number: MTI

State of Sample Origin: CA

RECEIVED

FEB 09 2012

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Client Sample Description

MW-3-W-120131 Grab Water
MW-4-W-120131 Grab Water

Lancaster Labs (LLI) #
6536723
6536724

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

ELECTRONIC COPY TO Gettler-Ryan, Inc.
ELECTRONIC COPY TO Chevron c/o CRA
ELECTRONIC COPY TO Chevron

Attn: Rachelle Munoz

Attn: Report Contact

Attn: Anna Avina



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robin C. Runkle". The signature is fluid and cursive, with a long horizontal stroke at the end.

Robin C. Runkle
Senior Specialist

Sample Description: MW-3-W-120131 Grab Water
**Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont-Oakland T0600102248 MW-3**
**LLI Sample # WW 6536723
LLI Group # 1287481
Account # 12099**
Project Name: 90517
Collected: 01/31/2012 09:10 by GM
Chevron c/o CRA
Suite 107
Submitted: 02/01/2012 09:35
10969 Trade Center Dr
Reported: 02/08/2012 18:18
Rancho Cordova CA 95670

05173

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	0.9	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	0.9	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	720	50	1

General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P120372AA	02/06/2012 13:34	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P120372AA	02/06/2012 13:34	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12032A07A	02/02/2012 18:30	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12032A07A	02/02/2012 18:30	Catherine J Schwarz	1



Lancaster
Laboratories

Analysis Report

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Page 1 of 1

Sample Description: MW-4-W-120131 Grab Water

Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont-Oakland T0600102248 MW-4

LLI Sample # WW 6536724
LLI Group # 1287481
Account # 12099

Project Name: 90517

Collected: 01/31/2012 08:25 by GM

Chevron c/o CRA

Suite 107

Submitted: 02/01/2012 09:35

10969 Trade Center Dr

Reported: 02/08/2012 18:18

Rancho Cordova CA 95670

05174

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	110	0.5	1
10943	Ethylbenzene	100-41-4	7	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1
10943	Toluene	108-88-3	32	0.5	1
10943	Xylene (Total)	1330-20-7	34	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	6,700	250	5

General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P120372AA	02/06/2012 10:20	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P120372AA	02/06/2012 10:20	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	2	12032A07A	02/02/2012 20:44	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12032A07A	02/02/2012 20:44	Catherine J Schwarz	5

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 02/08/12 at 06:18 PM

Group Number: 1287481

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: P120372AA	Sample number(s): 6536723-6536724							
Benzene	N.D.	0.5	ug/l	96		79-120		
Ethylbenzene	N.D.	0.5	ug/l	97		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		76-120		
Toluene	N.D.	0.5	ug/l	96		79-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: 12032A07A	Sample number(s): 6536723-6536724							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	109	75-135	8	30

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 %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: P120372AA	Sample number(s): 6536723-6536724 UNSPK: 6536724								
Benzene	102 (2)	97 (2)	80-126	1	30				
Ethylbenzene	100	102	71-134	2	30				
Methyl Tertiary Butyl Ether	93	95	72-126	1	30				
Toluene	99	99	80-125	0	30				
Xylene (Total)	100	101	79-125	1	30				

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: P120372AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6536723	103	101	98	100
6536724	101	97	98	103
Blank	104	99	97	97
LCS	102	101	99	101
MS	101	102	97	105
MSD	101	99	99	103

*- Outside of specification

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

Quality Control SummaryClient Name: Chevron c/o CRA
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Surrogate Quality Control

Limits:	80-116	77-113	80-113	78-113
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Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12032A07A
Trifluorotoluene-F

6536723	130
6536724	132
Blank	107
LCS	120
LCSD	115

Limits: 63-135

*- 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.

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 <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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.		

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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