Stacie H. Frerichs
Team Lead
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9655
Fax (925) 842-8370

October 5, 2009
(date)

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

Re: Chevron Facility #_9-1740_____

Address: 6550 Moraga Avenue, Oakland, California_____

I have reviewed the attached report titled *Second Semi-Annual 2009 Groundwater Monitoring Report*_____ and dated October 5, 2009.

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,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
Telephone: 916-889-8900 Facsimile: 916-889-8999
www.CRAworld.com

October 5, 2009 Reference No. 611978

Mr. Mark Detterman PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Semi-Annual 2009 Groundwater Monitoring Report
Chevron Service Station No. 9-1740
6550 Moraga Avenue
Oakland, California
LOP Case #RO0000256

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 September 21, 2009) presents the results of the second semi-annual 2009 monitoring event (Attachment A). Sampling of wells C-2 and C-4 is performed on a semi-annual basis during the first and third quarters; sampling of well C-3 is performed annually during the first quarter. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the second semi-annual 2009 analytical results along with a rose diagram. The monitoring results during 2009 are summarized below.

During 2009, petroleum hydrocarbon concentrations in the site wells generally were similar to or less than those observed during 2008. Elevated concentrations of total petroleum hydrocarbons as diesel (TPHd) (1,800 micrograms per liter [µg/L] and 2,000 µg/L), TPH as gasoline (TPHg) (1,700 µg/L and 2,700 µg/L), benzene (360 µg/L and 440 µg/L), and methyl tertiary butyl ether (MTBE) (900 µg/L and 930 µg/L) were detected in well C-4 during 2009. The detected concentrations are consistent with historical fluctuations. The TPHd concentrations in well C-4 during 2009 were significantly less than those during 2008. The MTBE concentrations in well C-4 have remained relatively stable over the past several years. Low concentrations of toluene (up to 11 µg/L), ethylbenzene (up to 3 µg/L), and xylenes (up to 3 µg/L) were also detected in well C-4 during 2009. TPHd was not detected in well C-2 during 2009; TPHg (89 µg/L) was only detected during the current event. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in well C-2 during 2009, and have not been detected in this well since 1999. MTBE (54 µg/L and 240 µg/L) was detected in well C-2 during 2009. Although fluctuations occur, concentrations in well C-2 generally continue to decrease. Only low concentrations of TPHd (55 µg/L) and MTBE (3 µg/L) were detected in well C-3 during 2009. Petroleum hydrocarbons generally have not been detected in this well throughout the course of monitoring with the exception of low concentrations of MTBE.

CONESTOGA-ROVERS
& ASSOCIATES

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Telephone: 916-889-8900 Facsimile: 916-889-8999
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October 5, 2009 Reference No. 611978

Based on the analytical results, impacted groundwater remains beneath the site, with the most significant concentrations in the area of well C-4 just downgradient of the underground storage tanks (USTs). Based on previous investigation results, the extent of impacted groundwater appears to have been adequately defined to the extent possible. CRA prepared and submitted to Alameda County Environmental Health (ACEH) a *Site Conceptual Model and Case Closure Request*, dated August 18, 2008, that concluded the residual impacted groundwater at the site did not pose a significant risk to potential onsite or offsite receptors, and the site appeared to meet the Regional Water Quality Control Board (RWQCB) criteria for closure as a low-risk groundwater case. CRA is currently awaiting a response from ACEH to the case closure request. In the meantime, monitoring and sampling will continue to further evaluate groundwater quality and concentration trends. However, in accordance with e-mails from ACEH dated September 11, 2009 (Attachment B), the monitoring and sampling frequency of wells C-2 and C-4 will be reduced to annual during the first quarter. Also, ethanol has been removed from the analytical suite for all the wells.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Kelly M. Rider

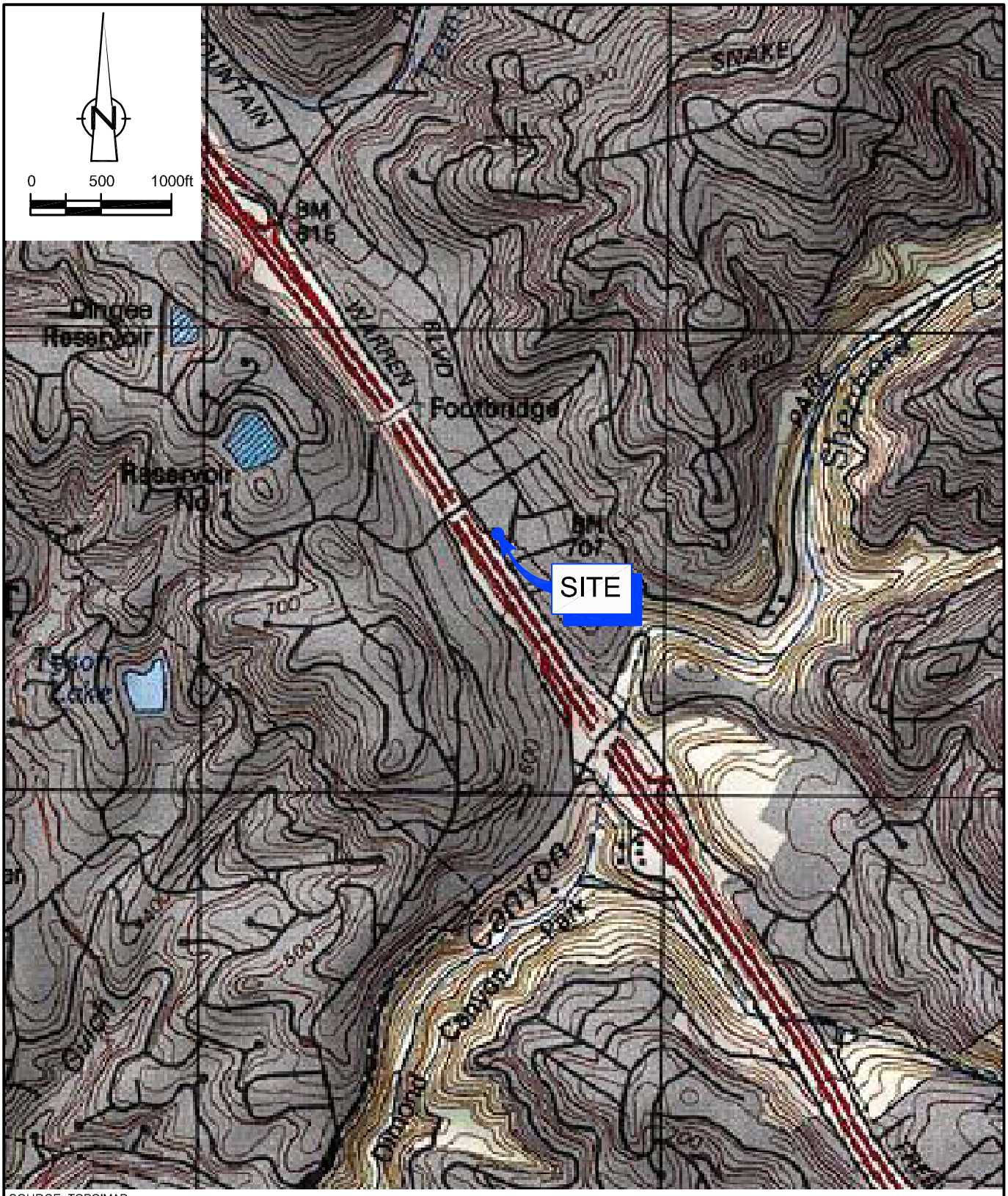
James P. Kiernan, P.E. #C68498

KR/jt/3
Encl.

Figure 1	Vicinity Map
Figure 2	Concentration Map - August 31, 2009
Attachment A	Second Semi-Annual 2009 Groundwater Monitoring and Sampling Report
Attachment B	ACEH E-mails Dated September 11, 2009

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company
Mr. Douglas Durein, Ken Betts, Inc.

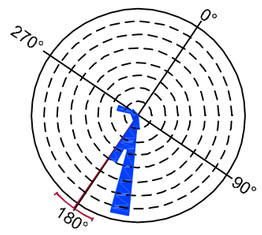
FIGURES



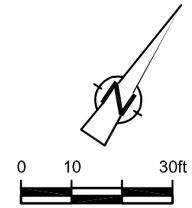
SOURCE: TOPO!MAP

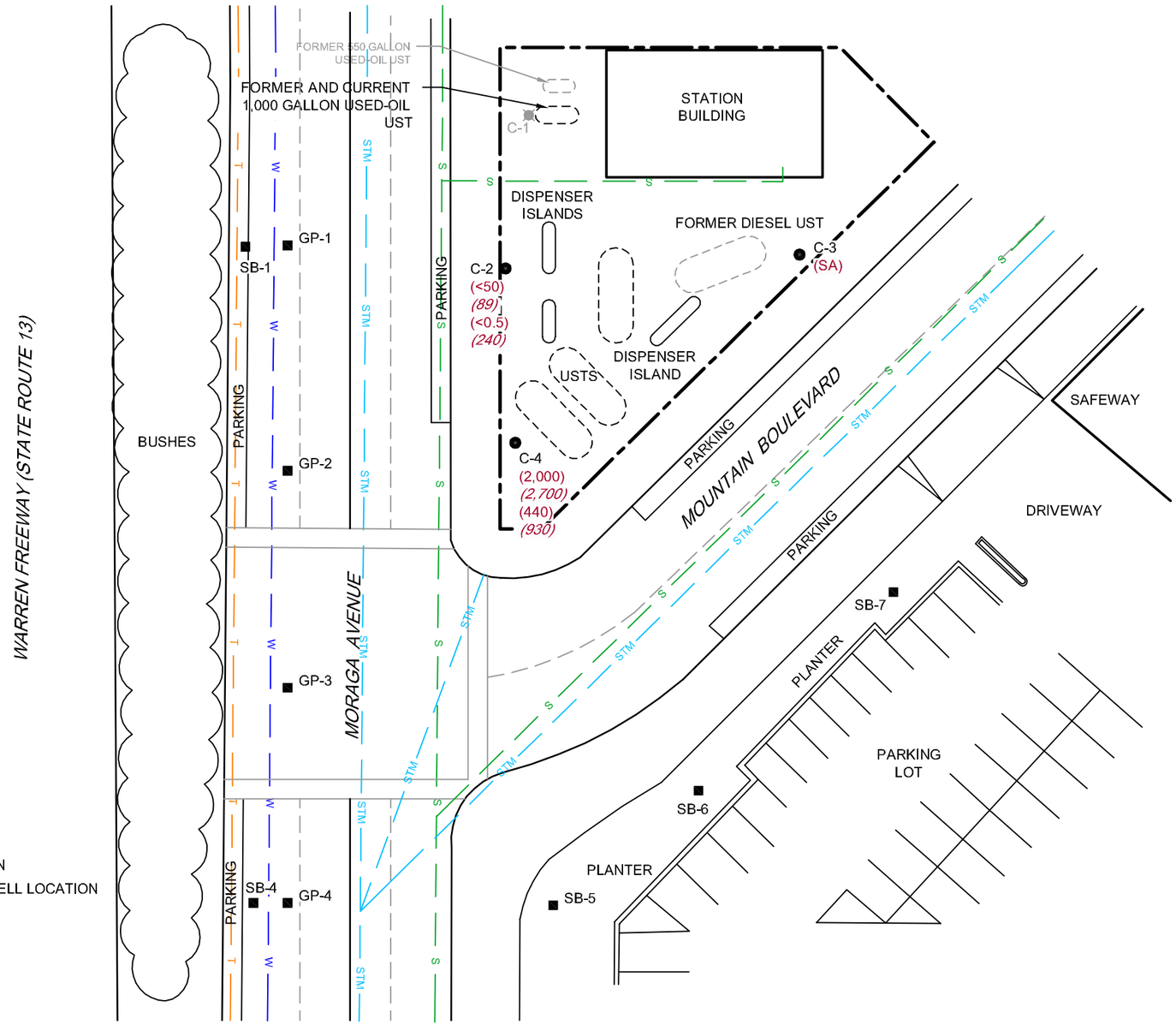
figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-1740
6550 MORAGA AVENUE
Oakland, California



HISTORICAL GROUNDWATER FLOW DIRECTION





LEGEND

GP-1 ■	SOIL BORING LOCATION
C-2 ●	MONITORING WELL LOCATION
C-1 ✱	DESTROYED MONITORING WELL LOCATION
S	SEWER LINE
STM	STORM DRAIN
W	WATER LINE
T	SBC LINE
(59)	TPHd CONCENTRATION (ug/L)
(57)	TPHg CONCENTRATION (ug/L)
(<0.5)	BENZENE CONCENTRATION (ug/L)
(150)	MTBE CONCENTRATION (ug/L)

* FEATURES OUTSIDE OF SERVICE STATION NOT SURVEYED

figure 2

CONCENTRATION MAP - AUGUST 31, 2009
CHEVRON SERVICE STATION 9-1740
6550 MORAGA AVENUE
Oakland, California

ATTACHMENT A

SECOND SEMI-ANNUAL 2009 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

September 28, 2009
G-R #386507

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#9-1740 (MTI)
6550 Moraga Avenue
Oakland, California
RO 0000256

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	September 21, 2009	Groundwater Monitoring and Sampling Report **Second Semi-Annual Event of August 31, 2009**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Stacie H. Frerichs, Chevron Environmental Management Company, 6111 Bollinger Canyon Rd., Room 3596, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***October 12, 2009,*** at which time this final report will be distributed to the following:

cc: Mr. Eddie So, RWQCB-San Francisco Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612
(No Hard Copy)
Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-UPLOAD TO ALAMEDA CO.)

Enclosures

trans/9-1740-SHF

Chevron

Stacie H. Frerichs
Team Lead
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9655
Fax (925) 842-8370

September 28, 2009
(date)

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

Re: Chevron Facility #9-1740

Address: 6550 Moraga Ave., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated September 28, 2009

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 Gettler-Ryan, Inc., 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,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-1740
Site Address: 6550 Moraga Avenue
City: Oakland, CA

Job # 386507
Event Date: 8-31-09
Sampler: Joe

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
C-2	O.K							N	N	12" EMCO/2	NO
C-3	O.K									12" EMCO/2	
C-4	O.K									12" POMECO/3	

Comments

GETTLER-RYAN INC.

September 21, 2009
G-R Job #386507

Ms. Stacie H. Frerichs
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3596
San Ramon, CA 94583

RE: Second Semi-Annual Event of August 31, 2009
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

Dear Ms. Frerichs:

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.

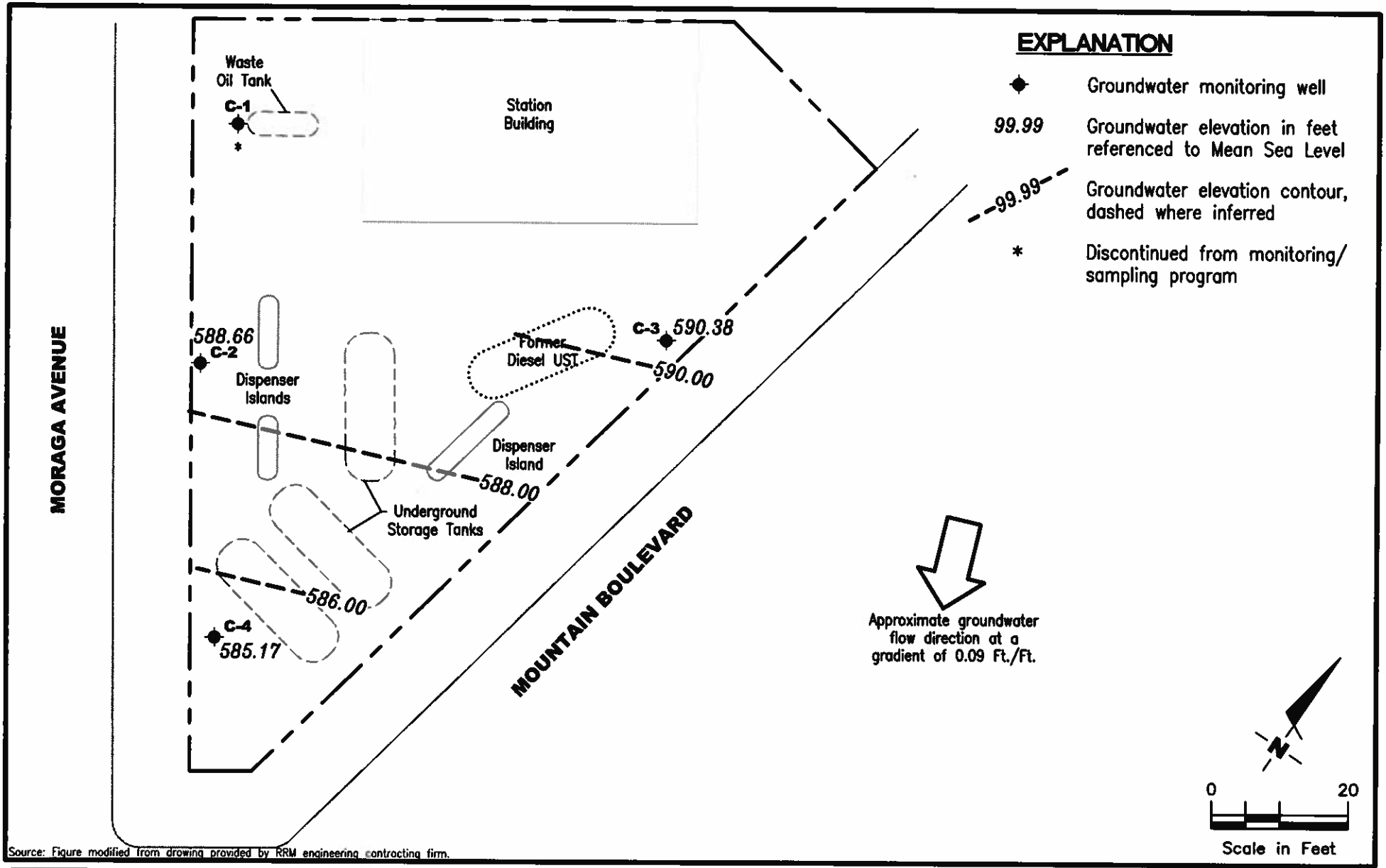
Sincerely,

Deanna L. Harding
Project Coordinator

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
Table 3: Groundwater Analytical Results - Oxygenate Compounds
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
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386507		August 31, 2009	

FILE NAME: P:\Enviro\Chevron\9-1740\009-9-1740.DWG | Layout Tab: Plot3

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2											
03/25/91	594.57	571.68	22.89	--	--	<50	1.0	<0.5	<0.5	2.0	--
07/01/91	594.57	587.20	7.37	--	--	660	190	2.5	28	22	--
09/25/91	594.57	587.59	6.98	--	--	110	200	1.9	21	1.7	--
12/23/91	594.57	589.56	5.01	--	--	<50	1.2	1.2	<0.5	1.8	--
03/24/92	594.57	577.30	17.27	--	--	100	5.9	7.9	4.0	14	--
06/23/92	594.57	590.75	3.82	--	--	190	45	4.5	9.5	10	--
09/30/92	594.57	580.56	14.01	--	--	240	99	2.3	11	6.1	--
12/16/92	594.57	580.05	14.52	--	--	280	160	6.2	7.4	5.0	--
03/30/93	594.57	583.49	11.08	--	--	110	21	<0.5	0.8	<1.5	--
06/10/93	594.57	583.08	11.49	--	--	180	53	2.6	8.0	5.8	--
09/02/93	594.57	580.49	14.08	--	--	51	18	0.8	4.4	<1.5	--
12/06/93	594.57	579.87	14.70	--	--	<50	20	1.3	2.7	<0.5	--
03/02/94	594.57	579.70	14.87	--	--	<50	9.9	1.6	<0.5	0.8	--
06/03/94	594.57	579.35	15.22	--	--	440	300	2.7	61	2.1	--
09/07/94	594.57	587.27	7.30	--	--	80	30	<0.5	1.6	<0.5	--
12/06/94	594.57	589.29	5.28	--	--	120	51	<0.5	4.7	<0.5	--
03/31/95	594.57	589.13	5.44	--	--	770	250	<5.0	74	<5.0	--
06/15/95	594.57	589.62	4.95	--	--	240	76	<1.0	26	<1.0	--
09/25/95	594.57	587.78	6.79	--	--	<50	1.2	<0.5	<0.5	<0.5	--
12/19/95	594.57	588.94	5.63	--	--	<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83	--	--	<500	48	<5.0	<5.0	<5.0	2,900
06/23/97	594.57	589.98	4.59	--	--	1200	240	<10	<10	<10	4,900
09/02/97	594.57	590.02	4.55	--	--	1400	340	<5.0	54	6.9	2,500
12/15/97	594.57	590.26	4.31	--	--	540	100	<2.5	8.7	<2.5	2,400
03/10/98	594.57	590.00	4.57	--	--	<500	<5.0	<5.0	<5.0	<5.0	3,000
06/16/98	594.57	589.99	4.58	--	--	120	6.6	<1.0	<1.0	<1.0	2,500
08/25/98	594.57	589.67	4.90	--	--	140	<0.5	<0.5	<0.5	<0.5	2,600
12/29/98	594.57	589.77	4.80	--	--	1830	17.7	<10.0	<10.0	14.9	4,600/4,890[1]
03/09/99	594.57	590.21	4.36	--	--	120	16	<1.0	<1.0	<1.0	3,400
06/23/99[2]	594.57	589.92	4.65	--	--	--	--	--	--	--	--
09/28/99	594.57	585.99	8.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	1,250
02/29/00	594.57	586.59	7.98	--	--	122	<0.5	<0.5	<0.5	<0.5	249
08/29/00	594.57	587.52	7.05	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	390
03/27/01	594.57	587.73	6.84	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	9.72
09/05/01[4]	594.57	587.37	7.20	0.00	58[5]	360	<0.50	<0.50	<0.50	<1.5	1,300/1,000[1]
03/04/02[4]	594.57	587.59	6.98	0.00	270[6]	190	<0.50	<0.50	<0.50	<1.5	440

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2 (cont)											
09/03/02[4]	594.57	587.29	7.28	0.00	760[6]	120	<0.50	<0.50	<0.50	<1.5	290
03/29/03[4]	594.57	588.06	6.51	0.00	<50[6]	53	<0.5	<0.5	<0.5	<1.5	73
09/23/03[4,7]	594.57	587.71	6.86	0.00	64[6]	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04[7,8]	594.57	587.35	7.22	0.00	<50[6]	82	<0.5	<0.5	<0.5	<0.5	370
09/13/04[7]	594.57	589.16	5.41	0.00	<50[6]	67	<0.5	<0.5	<0.5	<0.5	530
03/11/05[7]	594.57	589.84	4.73	0.00	84[6]	110	<0.5	<0.5	<0.5	<0.5	580
09/29/05[7]	594.57	589.01	5.56	0.00	82[6,9]	61	<0.5	<0.5	<0.5	<0.5	320
03/20/06[7]	594.57	590.15	4.42	0.00	120[6]	<50	<0.5	<0.5	<0.5	<0.5	500
08/25/06[7]	594.57	589.06	5.51	0.00	130[6]	93	<0.5	<0.5	<0.5	<0.5	460
03/12/07[7]	594.57	589.66	4.91	0.00	--[10]	<50	<0.5	<0.5	<0.5	<0.5	110
03/21/07	594.57	589.85	4.72	0.00	220[6]	--	--	--	--	--	--
09/21/07[7]	594.57	588.93	5.64	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	180
03/10/08[7]	594.57	589.76	4.81	0.00	<50[6]	73	<0.5	<0.5	<0.5	<0.5	170
09/15/08[7]	594.57	588.61	5.96	0.00	59[6]	57	<0.5	<0.5	<0.5	<0.5	150
03/03/09[7]	594.57	589.92	4.65	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	54
08/31/09[7]	**594.57**	**588.66**	**5.91**	**0.00**	**<50[6]**	**89**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**240**
C-3											
03/25/91	597.14	591.98	5.16	--	--	<50	<0.5	<0.5	<0.5	0.5	--
07/01/91	597.14	591.30	5.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	597.14	591.20	5.94	--	--	<50	1.0	<0.5	<0.5	1.5	--
03/24/92	597.14	592.37	4.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	597.14	591.47	5.67	--	--	<50	0.9	1.1	0.5	1.6	--
09/30/92	597.14	590.84	6.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	597.14	591.57	5.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	597.14	592.08	5.06	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	597.14	591.85	5.29	--	--	<50	0.6	1.9	0.6	3.5	--
09/02/93	597.14	591.22	5.92	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	597.14	591.38	5.76	--	--	<50	<0.5	0.6	<0.5	<0.5	--
03/02/94	597.14	591.97	5.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	597.14	591.74	5.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	597.14	591.14	6.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	597.14	591.95	5.19	--	--	<50	<0.5	0.8	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
03/31/95	597.14	592.04	5.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	597.14	591.78	5.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	597.14	591.04	6.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	597.14	591.46	5.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	597.14	590.65	6.49	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	597.14	590.63	6.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	597.14	591.07	6.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	597.14	590.86	6.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	597.14	590.89	6.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	4
06/16/98	597.14	590.80	6.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	597.14	590.61	6.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	597.14	590.59	6.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	3
09/28/99	597.14	590.26	6.88	--	SAMPLED ANNUALLY		--	--	--	--	--
02/29/00	597.14	591.56	5.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	10
08/29/00	597.14	590.53	6.61	0.00	--	--	--	--	--	--	--
03/27/01	597.14	591.00	6.14	0.00	--	264	<2.50	<2.50	<2.50	<2.50	870
09/05/01	597.14	590.46	6.68	0.00	--	--	--	--	--	--	--/<2[1]
03/04/02	597.14	590.93	6.21	0.00	<50[6]	<50	<0.50	<0.50	<0.50	<1.5	<5.0
09/03/02	597.14	590.40	6.74	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/29/03	597.14	590.86	6.28	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03	597.14	590.51	6.63	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/19/04[7]	597.14	591.24	5.90	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	2
09/13/04	597.14	591.85	5.29	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/11/05[7]	597.14	591.53	5.61	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	2
09/29/05	597.14	590.22	6.92	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/20/06[7]	597.14	591.86	5.28	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	3
08/25/06	597.14	590.51	6.63	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/12/07[7]	597.14	591.07	6.07	0.00	--[10]	55	<0.5	<0.5	<0.5	<0.5	2
03/21/07	597.14	590.91	6.23	0.00	240[6]	--	--	--	--	--	--
09/21/07	597.14	590.29	6.85	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/10/08[7]	597.14	590.89	6.25	0.00	<50[6]	87	<0.5	<0.5	<0.5	<0.5	3
09/15/08	597.14	590.15	6.99	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/03/09[7]	597.14	591.22	5.92	0.00	55[6]	<50	<0.5	<0.5	<0.5	<0.5	3
08/31/09	597.14	590.38	6.76	0.00	SAMPLED ANNUALLY		--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-4											
03/25/91	593.10	588.65	4.45	--	--	2700	240	16	<0.5	350	--
07/01/91	593.10	587.77	5.33	--	--	7900	1500	230	340	350	--
09/25/91	593.10	587.60	5.50	--	--	3200	850	160	150	220	--
12/23/91	593.10	588.18	4.92	--	--	4100	390	52	42	340	--
03/24/92	593.10	589.06**	4.19	0.19	--	--	--	--	--	--	--
06/23/92	593.10	588.34**	4.91	0.30	--	--	--	--	--	--	--
09/30/92	593.10	584.44	8.66	--	--	450	97	14	12	29	--
12/16/92	593.10	583.30	9.80	--	--	590	130	18	5.6	29	--
03/30/93	593.10	583.25**	10.00	0.12	--	--	--	--	--	--	--
06/10/93	593.10	583.46	9.64	--	--	1300	290	36	17	73	--
09/02/93	593.10	583.02	10.08	--	--	630	97	12	6.6	21	--
12/06/93	593.10	582.85	10.25	--	--	1900	600	68	27	130	--
03/02/94	593.10	584.36	8.74	--	--	2600	1200	110	43	180	--
06/03/94	593.10	583.27	9.83	--	--	780	180	13	8.5	26	--
09/07/94	593.10	582.80	10.30	--	--	<50	14	<0.5	0.7	<0.5	--
12/06/94	593.10	583.90	9.20	--	--	980	270	21	12	38	--
03/31/95	593.10	582.86	10.24	--	--	1500	450	25	11	49	--
06/15/95	593.10	582.78	10.32	--	--	960	250	15	4.5	37	--
09/25/95	593.10	584.72	8.38	--	--	<500	18	<5.0	<5.0	<5.0	--
12/19/95	593.10	582.94	10.16	--	--	<500	32	<5.0	<5.0	<5.0	2,400
03/31/97	593.10	588.42	4.68	--	--	3400	960	51	64	140	2,100
06/23/97	593.10	588.36	4.74	--	--	1600	580	19	8.2	27	2,300
09/02/97	593.10	588.33	4.77	--	--	6900	1400	59	130	410	3,100
12/15/97	593.10	588.60	4.50	--	--	3300	1200	37	74	130	3,700
03/10/98	593.10	588.92	4.18	--	--	1100	250	19	13	62	4,000
06/16/98	593.10	586.53	6.57	--	--	1200	350	<10	12	39	4,500
08/25/98	593.10	586.30	6.80	--	--	290	24	0.72	0.87	1.9	3,600
12/29/98	593.10	586.80	6.30	--	--	3190	957	<25	<25	<25	8,100/8,500[1]
03/09/99	593.10	585.87	7.23	--	--	2200	850	15	35	56	5,900
06/23/99[2]	593.10	585.60	7.50	--	--	--	--	--	--	--	--
09/28/99	593.10	586.15	6.95	--	--	1390	7.85	<5.0	<5.0	<5.0	4,190
02/29/00	593.10	586.09	7.01	--	--	<50	1.35	<0.5	<0.5	<0.5	310
08/29/00	593.10	586.58	6.52	0.00	--	150[3]	60	<0.50	0.79	0.78	570
03/27/01	593.10	587.29	5.81	0.00	--	986	27.2	<2.50	3.25	4.11	252
09/05/01[4]	593.10	586.72	6.38	0.00	3,800[5]	330	140	0.84	<0.50	<1.5	580/520[1]
03/04/02[4]	593.10	587.44	5.66	0.00	2,900[6]	170	67	<0.50	<0.50	<1.5	510

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-4 (cont)											
09/03/02[4]	593.10	586.62	6.48	0.00	1,900[6]	<50	12	<0.50	<0.50	<1.5	64
03/29/03[4]	593.10	587.26	5.84	0.00	950[6]	<50	3.3	<0.5	<0.5	<1.5	67
09/23/03[4,7]	593.10	586.91	6.19	0.00	57[6]	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04[7,8]	593.10	587.12	5.98	0.00	1,900[6]	1,500	310	5	2	4	520
09/13/04[7]	593.10	588.22	4.88	0.00	1,300[6]	840	260	3	2	1	990
03/11/05[7]	593.10	589.20	3.90	0.00	2,900[6]	350	66	1	<1	<1	1,100
09/29/05[7]	593.10	585.07	8.03	0.00	2,500[6]	740	160	2	1	<1	1,500
03/20/06[7]	593.10	589.47	3.63	0.00	1,200[6]	1,400	300	5	1	2	1,600
08/25/06[7]	593.10	588.30	4.80	0.00	1,300[6]	450	82	2	<0.5	<0.5	1,300
03/12/07[7]	593.10	585.50	7.60	0.00	--[10]	670	110	1	<0.5	<0.5	1,100
03/21/07	593.10	585.07	8.03	0.00	1,800[6]	--	--	--	--	--	--
09/21/07[7]	593.10	585.20	7.90	0.00	2,100[6]	260	18	<0.5	<0.5	<0.5	1,100
03/10/08[7]	593.10	585.69	7.41	0.00	7,500[6]	560	72	1	<0.5	<0.5	1,100
03/15/08	593.10	586.45	6.65	0.00	--	--	--	--	--	--	--
09/15/08[7]	593.10	585.10	8.00	0.00	5,200[6]	760	110	2	0.6	<0.5	1,100
03/03/09[7]	593.10	585.94	7.16	0.00	1,800[6]	1,700	360	5	2	1	900
08/31/09[7]	**593.10**	**585.17**	**7.93**	**0.00**	**2,000[6]**	**2,700**	**440**	**11**	**3**	**3**	**930**
C-1											
03/25/91	595.82	592.54	3.28	--	--	54	0.7	<0.5	<0.5	2.0	--
07/01/91	595.82	592.39	3.43	--	--	730	250	3.0	16	4.8	--
09/25/91	595.82	591.67	4.15	--	--	160	68	1.3	6.1	1.3	--
12/23/91	595.82	592.11	3.71	--	--	170	70	1.6	3.5	2.4	--
03/24/92	595.82	592.80	3.02	--	--	60	39	4.4	3.9	9.1	--
06/23/92	595.82	592.06	3.76	--	--	60	19	1.1	1.1	1.0	--
NOT MONITORED/SAMPLED											
TRIP BLANK											
03/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/24/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK (cont)											
09/30/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/02/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/02/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/28/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/29/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/27/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
09/05/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/04/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA											
09/03/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/29/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/19/04[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/13/04[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)											
03/11/05[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/29/05[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/25/06[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/12/07[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/21/07[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/08[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/15/08[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/31/09[7]	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 29, 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
SPHT = Separate Phase Hydrocarbon Thickness

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
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.

** GWE corrected for the presence of Separate Phase Hydrocarbons (SPH), correction factor: [(TOC-DTW)+(SPHTx0.80)].

[1] Confirmation run.

[2] ORC installed.

[3] Laboratory report indicates unidentified hydrocarbons C6-C12.

[4] ORC in well.

[5] Although requested on the Chain of Custody; Laboratory did not perform TPH-D analysis with silica-gel cleanup.

[6] Analyzed with silica gel cleanup.

[7] BTEX and MTBE by EPA Method 8260.

[8] ORC removed.

[9] Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel and is also due to individual peaks eluting in the DRO range.

[10] Sample containers were lost during shipping.

Table 2

Dissolved Oxygen Concentrations

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
C-2	08/29/00	1.97	--
	03/27/01	3.60	--
	09/05/01	2.80	--
	03/04/02	3.10	--
	09/03/02	2.70	--
	03/29/03	2.20	--
	09/23/03	0.50	--
C-4	08/29/00	2.11	--
	03/27/01	2.90	--
	09/05/01	2.30	--
	03/04/02	2.90	--
	09/03/02	2.10	--
	03/29/03	1.90	--
	09/23/03	0.40	--

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-2	09/05/01	--	<100	1,000	<2	240	30	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	370	--	--	--	--	--
	09/13/04	<50	--	530	--	--	--	--	--
	03/11/05	<50	--	580	--	--	--	--	--
	09/29/05	<50	--	320	--	--	--	--	--
	03/20/06	<50	--	500	--	--	--	--	--
	08/25/06	<50	--	460	--	--	--	--	--
	03/12/07	<50	--	110	--	--	--	--	--
	09/21/07	<50	--	180	--	--	--	--	--
	03/10/08	<50	--	170	--	--	--	--	--
	09/15/08	<50	--	150	--	--	--	--	--
	03/03/09	<50	--	54	--	--	--	--	--
	08/31/09	**<50**	**--**	**240**	**--**	**--**	**--**	**--**	**--**
C-3	09/05/01	--	<100	<2	<2	<2	<2	<2	<2
	03/19/04	<50	--	2	--	--	--	--	--
	09/13/04	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/11/05	<50	--	2	--	--	--	--	--
	03/20/06	<50	--	3	--	--	--	--	--
	03/12/07	<50	--	2	--	--	--	--	--
	03/10/08	<50	--	3	--	--	--	--	--
	09/15/08	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/03/09	<50	--	3	--	--	--	--	--
C-4	09/05/01	--	<100	520	<2	<2	15	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	520	--	--	--	--	--
	09/13/04	<100	--	990	--	--	--	--	--
	03/11/05	<100	--	1,100	--	--	--	--	--
	09/29/05	<100	--	1,500	--	--	--	--	--
	03/20/06	<50	--	1,600	--	--	--	--	--
	08/25/06	<50	--	1,300	--	--	--	--	--
	03/12/07	<50	--	1,100	--	--	--	--	--
	09/21/07	<50	--	1,100	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-4 (cont)	03/10/08	<50	--	1,100	--	--	--	--	--
	09/15/08	<50	--	1,100	--	--	--	--	--
	03/03/09	<100	--	900	--	--	--	--	--
	08/31/09	**<50**	--	**930**	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. 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 possible. 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. 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. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-1740 | Job Number: 386507
Site Address: 6550 Moraga Avenue | Event Date: 8-31-09 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: C-2 | Date Monitored: 8-31-09
Well Diameter: 2 in.
Total Depth: 26.90 ft.
Depth to Water: 5.91 ft. ☐ Check if water column is less then 0.50 ft.

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

20.99 xVF 0.17 = 3.57 x3 case volume = Estimated Purge Volume: 11 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.10

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): 0700 | Weather Conditions: Foggy
Sample Time/Date: 0735 8-31-09 | Water Color: clear Odor: (Y) N moderate
Approx. Flow Rate: ~ gpm. | Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.41

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (MS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0710	4	6.95	587	18.5		
0716	7.5	6.90	615	18.7		
0725	11	6.96	625	18.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-1740 Job Number: 386507
Site Address: 6550 Moraga Avenue Event Date: 8-31-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID C-3 Date Monitored: 8-31-09
Well Diameter 2 in.
Total Depth 18.88 ft.
Depth to Water 6.76 ft.

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

☐ Check if water column is less then 0.50 ft.

_____ 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
C-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL(8260)
	x 500mL ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS: Moody

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1740 | Job Number: 386507
Site Address: 6550 Moraga Avenue | Event Date: 8-31-09 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID C-4 | Date Monitored: 8-31-09
Well Diameter 2 in.
Total Depth 24.76 ft.
Depth to Water 7.93 ft.

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

☐ Check if water column is less then 0.50 ft.

16.83 xVF 0.17 = 2.86 x3 case volume = Estimated Purge Volume: 9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.29

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): 0745 | Weather Conditions: Foggy
Sample Time/Date: 0815 8-31-09 | Water Color: Clear | Odor: Y / N Strong
Approx. Flow Rate: ~ gpm. | Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.48

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0755	3	6.57	644	18.8		
0803	6	6.63	683	19.1		
0808	9	6.65	688	19.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS: Pressure in well

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

093109-01

For Lancaster Laboratories use only
Acct. #: 12099 Sample # 5765345-47 Group #: 018870

Group# 1159997

CRA MTI Project #: 61H-1978

Facility #: SS#9-1740 G-R#386507 Global ID#T0600100353
Site Address: 6550 MORAGA AVENUE, OAKLAND, CA
Chevron PM: MTI Lead Consultant: CRAKJ
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: JOE AJEMIAN

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (Potable ☐ NPDES ☐)	Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup ☐	8260 full scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	Ethanol (8260)
QA	—	—	✓			✓		2	✓	✓								
C-2	8-31-09	0735	"			"		8	✓	✓	✓							✓
C-4	"	0815	"			"		8	✓	✓	✓							✓

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☒ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full **EDF/EDD**
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	8-31-09	1070	Received by:	9/31/09	1070
Relinquished by:	31AUG09	1636	Received by: FED EX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	9/1/09	0910
Temperature Upon Receipt 0.9-1.6 C°			Custody Seals Intact? Yes No		

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

916-677-3407

Prepared by:

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

September 12, 2009

SAMPLE GROUP

The sample group for this submittal is 1159997. Samples arrived at the laboratory on Tuesday, September 01, 2009. The PO# for this group is 91740 and the release number is MTI.

Client Description	Lancaster Labs Number
QA-T-090831 NA Water	5765345
C-2-W-090831 Grab Water	5765346
C-4-W-090831 Grab Water	5765347

METHODOLOGY

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

ELECTRONIC COPY TO Gettler-Ryan, Inc. Attn: Cheryl Hansen

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Maria S. Lord
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5765345

Group No. 1159997
CA

QA-T-090831 NA Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 QA

Collected: 08/31/2009

Account Number: 12099

Submitted: 09/01/2009 09:10
Reported: 09/12/2009 at 10:40
Discard: 10/13/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

MORTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P092512AA	09/08/2009 12:50	Daniel H Heller	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P092512AA	09/08/2009 12:50	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09247A20A	09/04/2009 13:32	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09247A20A	09/04/2009 13:32	Tyler O Griffin	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5765346

Group No. 1159997
CA

C-2-W-090831 Grab Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 C-2

Collected: 08/31/2009 07:35 by JA

Account Number: 12099

Submitted: 09/01/2009 09:10
Reported: 09/12/2009 at 10:40
Discard: 10/13/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

MORC2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
06067	Benzene	71-43-2	N.D.	0.5	1
06067	Ethanol	64-17-5	N.D.	50	1
06067	Ethylbenzene	100-41-4	N.D.	0.5	1
06067	Methyl Tertiary Butyl Ether	1634-04-4	240	0.5	1
06067	Toluene	108-88-3	N.D.	0.5	1
06067	Xylene (Total)	1330-20-7	N.D.	0.5	1
	Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.				
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	89	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092461AA	09/03/2009 22:34	Florida A Cimino	1
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	D092461AA	09/03/2009 22:34	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	09247A20A	09/04/2009 15:46	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09247A20A	09/04/2009 15:46	Tyler O Griffin	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	092450001A	09/02/2009 10:00	Olivia I Santiago	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	092450001A	09/04/2009 00:05	Diane V Do	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5765347

Group No. 1159997
CA

C-4-W-090831 Grab Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 C-4

Collected: 08/31/2009 08:15 by JA

Account Number: 12099

Submitted: 09/01/2009 09:10
Reported: 09/12/2009 at 10:40
Discard: 10/13/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

MORC4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
06067	Benzene	71-43-2	440	5	10
06067	Ethanol	64-17-5	N.D.	50	1
06067	Ethylbenzene	100-41-4	3	0.5	1
06067	Methyl Tertiary Butyl Ether	1634-04-4	930	0.5	1
06067	Toluene	108-88-3	11	0.5	1
06067	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,700	250	5
GC Extractable TPH w/Si Gel	**SW-846 8015B**		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	2,000	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092461AA	09/03/2009 22:57	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D092461AA	09/03/2009 23:20	Florida A Cimino	10
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	D092461AA	09/03/2009 22:57	Florida A Cimino	1
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	D092461AA	09/03/2009 23:20	Florida A Cimino	10
01146	GC VOA Water Prep	SW-846 5030B	1	09247A20A	09/04/2009 22:20	Tyler O Griffin	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09247A20A	09/04/2009 22:20	Tyler O Griffin	5
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	092450001A	09/02/2009 10:00	Olivia I Santiago	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	092450001A	09/04/2009 00:26	Diane V Do	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/12/09 at 10:40 AM

Group Number: 1159997

Matrix QC may not be reported if 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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D092461AA	Sample number(s): 5765346-5765347							
Benzene	N.D.	0.5	ug/l	117		79-120		
Ethanol	N.D.	50.	ug/l	111		40-158		
Ethylbenzene	N.D.	0.5	ug/l	111		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	110		76-120		
Toluene	N.D.	0.5	ug/l	113		79-120		
Xylene (Total)	N.D.	0.5	ug/l	114		80-120		
Batch number: P092512AA	Sample number(s): 5765345							
Benzene	N.D.	0.5	ug/l	104		79-120		
Ethylbenzene	N.D.	0.5	ug/l	99		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	104		76-120		
Toluene	N.D.	0.5	ug/l	102		79-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: 09247A20A	Sample number(s): 5765345-5765347							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	127	127	75-135	0	30
Batch number: 092450001A	Sample number(s): 5765346-5765347							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	89	88	60-124	1	20

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: D092461AA	Sample number(s): 5765346-5765347 UNSPK: P764176								
Benzene	106	111	80-126	5	30				
Ethanol	91	94	37-164	3	30				
Ethylbenzene	101	105	71-134	4	30				
Methyl Tertiary Butyl Ether	95	102	72-126	8	30				
Toluene	104	108	80-125	3	30				
Xylene (Total)	103	106	79-125	3	30				
Batch number: P092512AA	Sample number(s): 5765345 UNSPK: P765348								
Benzene	107	105	80-126	2	30				
Ethylbenzene	107	108	71-134	1	30				
Methyl Tertiary Butyl Ether	106	102	72-126	4	30				
Toluene	109	107	80-125	2	30				
Xylene (Total)	109	111	79-125	1	30				

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

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/12/09 at 10:40 AM

Group Number: 1159997

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: 09247A20A	Sample number(s): 5765345-5765347 UNSPK: P767686								
TPH-GRO N. CA water C6-C12	182*		63-154						

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: BTEX, MTBE, ETOH
Batch number: D092461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5765346	97	90	90	94
5765347	97	88	91	98
Blank	98	93	90	94
LCS	97	92	89	98
MS	98	94	91	98
MSD	98	94	89	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+MTBE by 8260B
Batch number: P092512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5765345	101	102	97	95
Blank	101	100	97	95
LCS	101	105	97	97
MS	102	105	97	97
MSD	101	103	97	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09247A20A

	Trifluorotoluene-F
5765345	86
5765346	89
5765347	108
Blank	85
LCS	126
LCSD	123
MS	137*
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 092450001A

	Orthoterphenyl

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

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/12/09 at 10:40 AM

Group Number: 1159997

Surrogate Quality Control

5765346	90
5765347	114
Blank	90
LCS	108
LCSD	105
Limits:	59-131

*- 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.

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

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

> greater than

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

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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ATTACHMENT B

ACEH E-MAILS DATED SEPTEMBER 11, 2009

Kiernan, James

From: Detterman, Mark, Env. Health [Mark.Detterman@acgov.org]
Sent: Friday, September 11, 2009 3:26 PM
To: Kiernan, James
Subject: RE: RO256-Proposed Minor GWM Change

James,
The new Resolution 2009-0042 requires all LOPs to review all cases over the next year and low risk sites (presuming there is agreement) will get slightly lower priority, so it may take time for me to get to the site. That said we are attempting to do this over the next 6 months; we'll see how that works out... I do understand there is a conflict between the August 2007 workplan, the SCM and RFC submitted in August 2008, and the approval of the 2007 workplan by ACEH with modifications in September 2008. Not understanding the change in view I am reluctant to totally eliminate monitoring. Regardless, in the interim it seems appropriate for the site to be monitored on an annual basis in the quarter of highest detections rather than a semi-annual basis. This will reduce monitoring and save State funds for other purposes, but will allow us to track contamination at its highest / worst. Reviewing recent groundwater data, the quarter with the highest detections appears to be first quarter, in March of a year. If you disagree with the selection of the month for monitoring, let me know.

Mark Detterman
Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Kiernan, James [mailto:jkiernan@craworld.com]
Sent: Friday, September 11, 2009 2:12 PM
To: Detterman, Mark, Env. Health
Subject: RE: RO256-Proposed Minor GWM Change

In that case, you may come across a later one where we proposed to suspend monitoring on this site as well as RO233 as they have pending closure requests.

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Friday, September 11, 2009 2:09 PM
To: Kiernan, James
Subject: RE: RO256-Proposed Minor GWM Change

Hi James,
Going through email today and I found that I had not replied to this one.

It would appear reasonable and appropriate to remove ethanol from the analytical suit at this site. There are between five to six years of non-detectable concentrations at good limits of detection at the site; monitoring has been conducted either on a semi-annual or annual basis.

As always, I'll reserve the right to disagree with myself at some point in the future.

Sorry for the delay in responding.

Mark Detterman
Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Kiernan, James [mailto:jkiernan@craworld.com]
Sent: Friday, August 21, 2009 10:54 AM
To: Detterman, Mark, Env. Health
Subject: RO256-Proposed Minor GWM Change

Hi Mark,

After review of the data for site RO256 (Chevron 9-1740), we would like to propose that ethanol be removed from the analytical suite. It has been analyzed for years but has never been detected. Please let me know if this appears appropriate. We can submit this request as a formal letter if desired. Thanks.

Sincerely,

James P. Kiernan, P.E.
Conestoga-Rovers & Associates (CRA)
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
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