Thomas Bauhs
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6231
Fax (925) 984-8373
tbauhs@chevron.com

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

Re: Former Chevron Service Station No. 21-1253
930 Springtown Road
Livermore, California

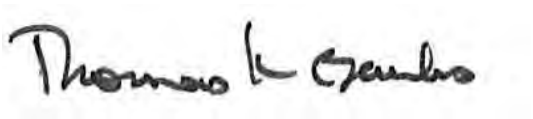
I accept the **First Semi-Annual 2011 Groundwater Monitoring and Sampling Report** dated March 31, 2011.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **First Semi-Annual 2011 Groundwater Monitoring and Sampling 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 to the best of my knowledge.

Sincerely,



Thomas Bauhs
Project Manager

Attachment: First Semi-Annual 2011 Groundwater Monitoring and Sampling Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

April 1, 2011 Reference No. 060058

Mr. Jerry Wickham
Alameda County Environmental Health Services (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: First Semi-Annual 2011
Groundwater Monitoring and Sampling Report
Former Texaco Service Station 21-1253
930 Springtown Boulevard
Livermore, California
ACEH Case No. RO0000189

Dear Mr. Jerry Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *First Semi-Annual 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. G-R's February 7, 2011 *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' February 18, 2011 *Analytical Results* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

CONESTOGA-ROVERS & ASSOCIATES

Please contact David Grunat at (510) 420-3353 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

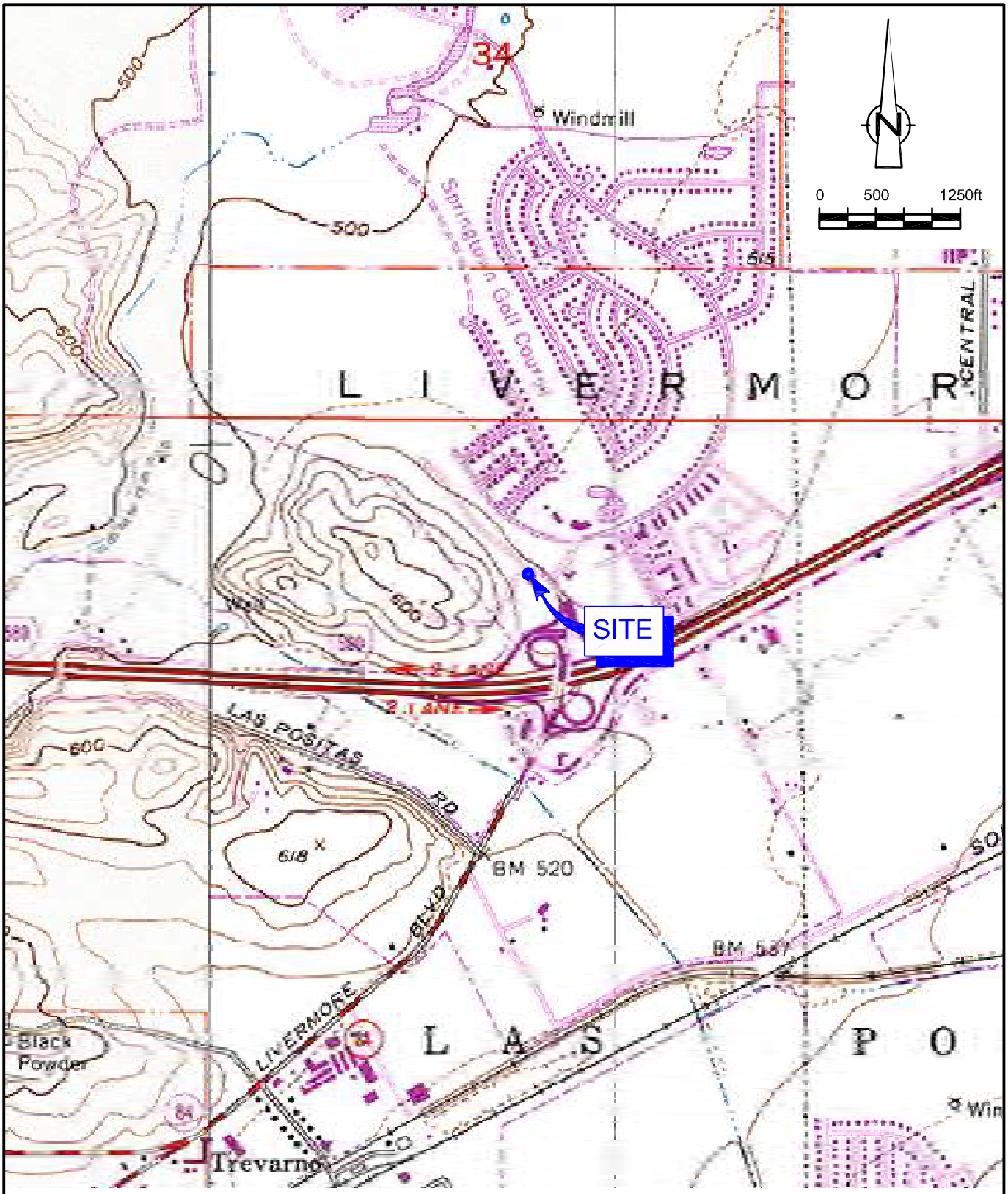
David Grunat Brandon S. Wilken, PG 7564

AA/aa/10
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mr. Tom Bauhs, Chevron
Mr. Joe Zadik

FIGURES



SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

60058-2009(004)GN-WA001 JUL 28/2009

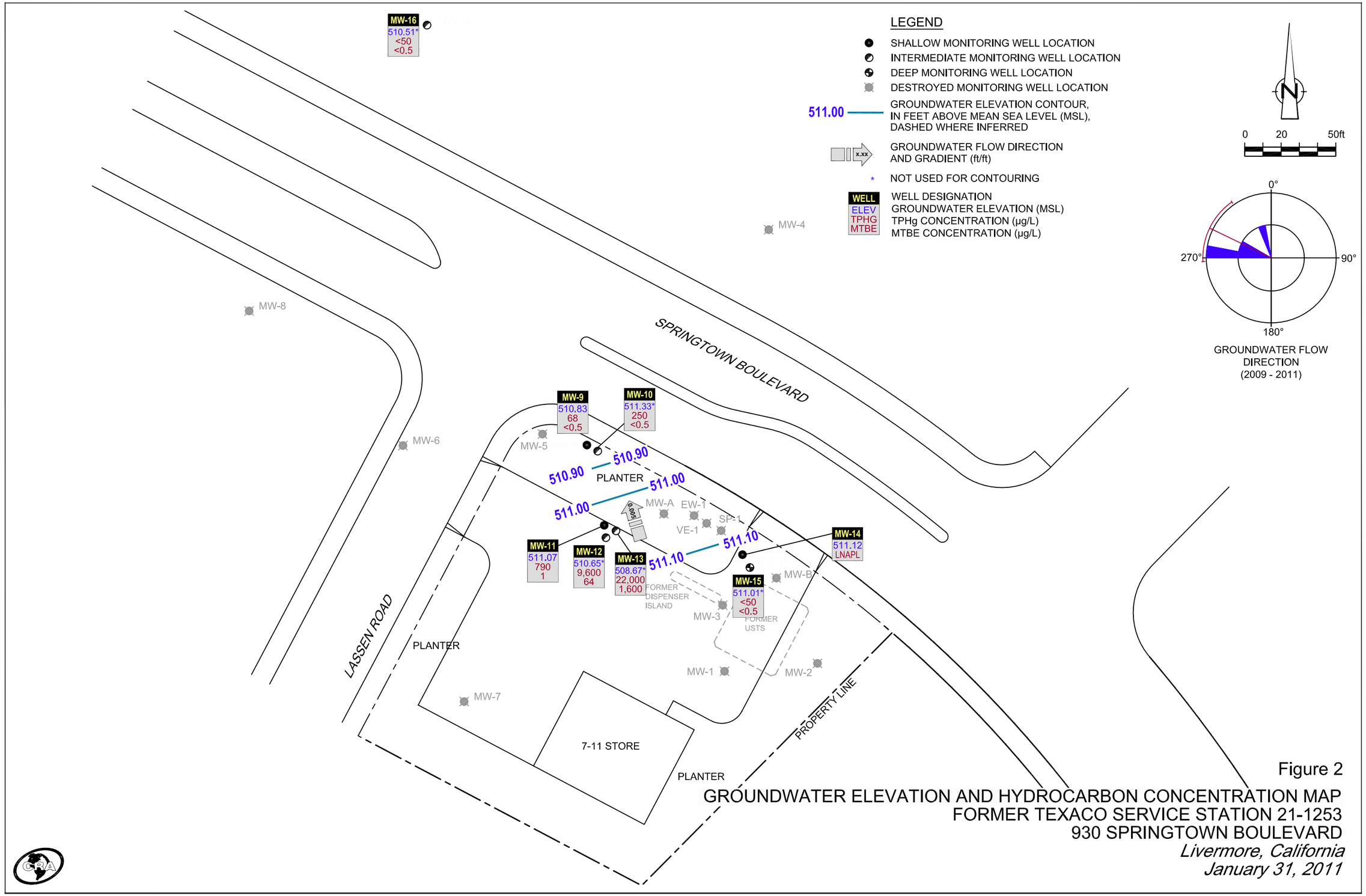


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California
January 31, 2011

60058-95(010)GN-WA001 OCT 29/2010

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-9	08/24/2010	523.14	13.58	509.56	-	-	3,500	6	8	180	79
MW-9	**01/31/2011**	**523.14**	**12.31**	**510.83**	**-**	**-**	**68**	**<0.5**	**<0.5**	**3**	**<0.5**
MW-10	08/24/2010	523.25	13.07	510.18	-	-	1,300	<0.5	<0.5	2	<0.5
MW-10	**01/31/2011**	**523.25**	**11.92**	**511.33**	**-**	**-**	**250**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-11	08/24/2010	523.42	13.80	509.62	-	-	2,000 J	6	2	9	5
MW-11	**01/31/2011**	**523.42**	**12.35**	**511.07**	**-**	**-**	**790**	**1**	**<0.5**	**5**	**3**
MW-12	08/24/2010	523.12	12.84	510.28	-	-	18,000	210	650	330	1,900
MW-12	**01/31/2011**	**523.12**	**12.47**	**510.65**	**-**	**-**	**9,600**	**64**	**180**	**180**	**400**
MW-13	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660
MW-13	**01/31/2011**	**520.88**	**12.21**	**508.67**	**-**	**-**	**22,000**	**1,600**	**1,600**	**270**	**1,600**
MW-14	08/24/2010[1,**]	520.88	10.36	510.75	0.29	0.00	-	-	-	-	-
MW-14	**01/31/2011[1,**]**	**520.88**	**9.96**	**510.92**	**0.25**	**0.00**	**-**	**-**	**-**	**-**	**-**
MW-15	08/24/2010	520.87	10.81	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5
MW-15	**01/31/2011**	**520.87**	**9.86**	**511.01**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-16	08/24/2010	520.50	11.07	509.43	-	-	68	<0.5	<0.5	<0.5	<0.5
MW-16	**01/31/2011**	**520.50**	**9.99**	**510.51**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA	08/24/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5
QA	**01/31/2011**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

J = Estimated concentration

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Not sampled due to the presence of LNAPL.

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

February 7, 2011
G-R #385867

TO: Ms. Kiersten Hoey
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

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

RE: Former Texaco Service Station
930 Springtown Blvd.
Livermore, California
(Site #211253)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **First Semi-Annual Event of January 31, 2011**

COMMENTS:

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

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

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

Trans/211253

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #211253
Site Address: 930 Springtown Blvd.
City: Livermore, CA

Job # 385867
Event Date: 1/31/11
Sampler: KE

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
mw-9	OK							Y	Y	Emco/12/2	
mw-10	OK							Y	Y	" "	
mw-11	OK							N	N	" "	
mw-12	OK							Y	Y	" "	
mw-13	OK							Y	Y	" "	
mw-14	OK							Y	Y	" "	
mw-15	OK							Y	Y	" "	
mw-16	OK					3.3 ft D	OK	N	N	" "	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 1/31/11 (inclusive)
City: Livermore, CA Sampler: KE

Well ID MW-9 Date Monitored: 1/31/11
Well Diameter 4 in.
Total Depth 14.85 ft.
Depth to Water 12.31 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.

2.54 xVF [illegible].66 = 1.6 x3 case volume = Estimated Purge Volume: 5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.81

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): [redacted] 1120 Weather Conditions: Sunny
Sample Time/Date: 1145 / 1/31/11 Water Color: Cloudy Odor: (Y) N Slight
Approx. Flow Rate: — gpm. Sediment Description: Moderate
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 12.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
1125	2	7.85	1011	17.5		
1131	4	7.72	1017	17.2		
1135	5	7.65	1025	16.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Y1 Add/Replaced Plug: 4" Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 1/31/11 (inclusive)

City: **Livermore, CA** Sampler: KE

Well ID **MW-10** Date Monitored: 1/31/11

Well Diameter 4 in.

Total Depth 26.51 ft.

Depth to Water 11.92 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.

14.59 xVF .66 = 9.6 x3 case volume = Estimated Purge Volume: 28.8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.83

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): 1005 Weather Conditions: Sunny

Sample Time/Date: 1035 / 1/31/11 Water Color: Clear Odor: Y / (N)

Approx. Flow Rate: 2 gpm. Sediment Description: Clear

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 12.08

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1010	10	8.19	1188	17.5		
1015	20	8.10	1197	18.2		
1020	29	8.03	1206	18.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Y Add/Replaced Plug: 4" Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 1/31/11 (inclusive)
City: Livermore, CA Sampler: BE

Well ID MW-11 Date Monitored: 1/31/11
Well Diameter 4 in.
Total Depth 14.73 ft.
Depth to Water 12.35 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

2.38 xVF .66 = 1.5 x3 case volume = Estimated Purge Volume: 4.7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.82

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): 1045 Weather Conditions: Sunny
Sample Time/Date: 1105 1/31/11 Water Color: Clear Odor: (Y) N Slight
Approx. Flow Rate: — gpm. Sediment Description: Clear
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 12.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
1049	2	7.38	1619	18.2		
1054	4	7.27	1635	19.1		
1057	5	7.21	1643	19.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 1/31/11 (inclusive)
City: Livermore, CA Sampler: KG

Well ID MW-12 Date Monitored: 1/31/11
Well Diameter 4 in.
Total Depth 26.41 ft.
Depth to Water 12.47 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.

13.94 xVF .66 = 9.2 x3 case volume = Estimated Purge Volume: 27.6 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.25

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): 1245 Weather Conditions: Sunny
Sample Time/Date: 1310 1/31/11 Water Color: Clear Odor: (Y) / N Strong
Approx. Flow Rate: 2 - gpm. Sediment Description: Clear
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 13.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1250	10	7.62	1103	20.5		
1255	20	7.58	1117	20.9		
1259	28	7.50	1132	21.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: 1 Add/Replaced Plug: 4" Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 1/31/11 (inclusive)

City: **Livermore, CA** Sampler: KE

Well ID **MW-13** Date Monitored: 1/31/11

Well Diameter 4 in.

Total Depth 36.74 ft.

Depth to Water 12.21 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.

24.53 xVF .66 = 16.1 x3 case volume = Estimated Purge Volume: 48.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.11

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): 1200 Weather Conditions: Sunny

Sample Time/Date: 1230 / 1/31/11 Water Color: Clear Odor: (Y)/N Strong

Approx. Flow Rate: 3 gpm. Sediment Description: Gray

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 12.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1205	15	7.86	1192	19.3		
1210	30	7.81	1230	19.9		
1216	49	7.75	1241	20.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Y1 Add/Replaced Plug: 4" Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 1/31/14 (inclusive)

City: **Livermore, CA** Sampler: KE

Well ID **MW-** 14

Well Diameter 4 in.

Total Depth 14.44 ft.

Depth to Water 9.96 ft.

Date Monitored: 1/31/14

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.

4.48 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: 9.71 ft
Depth to Water: 9.96 ft
Hydrocarbon Thickness: .25 ft
Visual Confirmation/Description: dark yellow
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(8260)

COMMENTS: SPH / M/O

Add/Replaced Lock: x1 Add/Replaced Plug: 4 Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 1/31/11 (inclusive)
City: Livermore, CA Sampler: KF

Well ID MW-15 Date Monitored: 1/31/11
Well Diameter 4 in.
Total Depth 46.02 ft.
Depth to Water 9.86 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.

36.16 xVF .66 = 23.8 x3 case volume = Estimated Purge Volume: 71.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.09

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): 0905 Weather Conditions: Sunny
Sample Time/Date: 0945 / 1/31/11 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: Clear
Did well de-water? no If yes, Time: - Volume: - gal. DTW @ Sampling: 10.27

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
0915	30	8.14	1551	18.3		
0923	54	8.06	1559	18.8		
0929	72	7.99	1565	19.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 15	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Y Add/Replaced Plug: Y Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 1/31/11 (inclusive)

City: **Livermore, CA** Sampler: KE

Well ID **MW-16** Date Monitored: 1/31/11

Well Diameter 4 in.

Total Depth 29.30 ft.

Depth to Water 9.99 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.

19.31 xVF .66 = 12.7 x3 case volume = Estimated Purge Volume: 38.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.85

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): 0815 Weather Conditions: Partly Cloudy

Sample Time/Date: 0845 / 1/31/11 Water Color: Clear Odor: (Y) N Slight

Approx. Flow Rate: 2 gpm. Sediment Description: Clear

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 10.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0822	14	8.33	1263	19.7		
0829	28	8.12	1279	20.0		
0834	38	7.90	1289	20.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

Ø2Ø111-Ø5

For Lancaster Laboratories use only

Acct. #: ______ Sample # ______ Group #: 005677

Facility #: SS#211253-OML G-R#385867 Global ID#

Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM: EF Lead Consultant: CRAHK Hoey

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: Kyle Erklund

Analyses Requested / **Preservation Codes**: H, H

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	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				
QA	1/31/11		X			X		2	X	X									
MW-9	↓	1145	X			X		6	X	X									
MW-10	↓	1035	X			X		6	X	X									
MW-11	↓	1105	X			X		6	X	X									
MW-12	↓	1310	X			X		6	X	X									
MW-13	↓	1230	X			X		6	X	X									
MW-15	↓	0945	X			X		6	X	X									
MW-16	↓	0845	X			X		6	X	X									

Matrix: ☐ Potable ☐ NPDES

Preservative 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

Please forward the lab results directly to the Lead Consultant and cc: G-R.

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/31/11	1415	Geiler - Ryan Fridel	01-31-11	1415
[signature]	02-01-11	1135	A. Hodges	Ø1FEB11	1135

Relinquished by Commercial Carrier: UPS FedEx Other ______ | Received by: | Date | Time

Temperature Upon Receipt ______ C° Custody Seals Intact? Yes No

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

February 18, 2011

Project: 211253

Submittal Date: 02/03/2011
Group Number: 1231581
PO Number: 0015075227
Release Number: FROHNAPPLE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-110131 NA Water	6197759
MW-9-W-110131 Grab Water	6197760
MW-10-W-110131 Grab Water	6197761
MW-11-W-110131 Grab Water	6197762
MW-12-W-110131 Grab Water	6197763
MW-13-W-110131 Grab Water	6197764
MW-15-W-110131 Grab Water	6197765
MW-16-W-110131 Grab Water	6197766

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Kiersten Hoey

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: QA-T-110131 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

LLI Sample # WW 6197759
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBLQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**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
10943	BTEX 8260B Water	SW-846 8260B	1	F110344AA	02/04/2011 02:52	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110344AA	02/04/2011 02:52	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 17:39	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 17:39	Carrie E Miller	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-9-W-110131 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 6197760
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 11:45 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	3	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	68	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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 18:53	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 18:53	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 19:45	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 19:45	Katrina T Longenecker	1

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Analysis Report

Sample Description: **MW-10-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 6197761
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 10:35 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	250	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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/05/2011 00:56	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/05/2011 00:56	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 20:10	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 20:10	Katrina T Longenecker	1

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Analysis Report

Sample Description: **MW-11-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 6197762
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 11:05 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	1	0.5	1
10943	Ethylbenzene	100-41-4	5	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	790	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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 19:13	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 19:13	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 20:35	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 20:35	Katrina T Longenecker	1

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Analysis Report

Sample Description: **MW-12-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 6197763
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 13:10 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	64	0.5	1
10943	Ethylbenzene	100-41-4	180	0.5	1
10943	Toluene	108-88-3	180	0.5	1
10943	Xylene (Total)	1330-20-7	400	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	9,600	500	10

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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 19:34	Kelly E Keller	1
10943	BTEX 8260B Water	SW-846 8260B	1	F110382AA	02/07/2011 12:10	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 19:34	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F110382AA	02/07/2011 12:10	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07B	02/07/2011 16:57	Katrina T Longenecker	10
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07B	02/07/2011 16:57	Katrina T Longenecker	10

Lancaster Laboratories

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Analysis Report

Sample Description: **MW-13-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 6197764
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 12:30 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	1,600	10	20
10943	Ethylbenzene	100-41-4	270	1	2
10943	Toluene	108-88-3	1,600	10	20
10943	Xylene (Total)	1330-20-7	1,600	10	20
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	22,000	250	5

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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 19:54	Kelly E Keller	2
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 20:14	Kelly E Keller	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 19:54	Kelly E Keller	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P110351AA	02/04/2011 20:14	Kelly E Keller	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 23:57	Katrina T Longenecker	5
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 23:57	Katrina T Longenecker	5

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Analysis Report

Sample Description: **MW-15-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 6197765
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 09:45 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 20:34	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 20:34	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07B	02/07/2011 16:07	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07B	02/07/2011 16:07	Katrina T Longenecker	1

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Analysis Report

Sample Description: **MW-16-W-110131 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 6197766
LLI Group # 1231581
Account # 10904

Project Name: 211253

Collected: 01/31/2011 08:45 by KE

Submitted: 02/03/2011 09:45
Reported: 02/18/2011 21:15

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**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
10943	BTEX 8260B Water	SW-846 8260B	1	P110351AA	02/04/2011 20:54	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110351AA	02/04/2011 20:54	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11035A07A	02/04/2011 21:51	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11035A07A	02/04/2011 21:51	Katrina T Longenecker	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1231581
Reported: 02/18/11 at 09:15 PM

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: F110344AA	Sample number(s): 6197759							
Benzene	N.D.	0.5	ug/l	88		79-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	89		79-120		
Xylene (Total)	N.D.	0.5	ug/l	88		80-120		
Batch number: F110382AA	Sample number(s): 6197763							
Xylene (Total)	N.D.	0.5	ug/l	96	95	80-120	2	30
Batch number: P110351AA	Sample number(s): 6197760-6197766							
Benzene	N.D.	0.5	ug/l	99		79-120		
Ethylbenzene	N.D.	0.5	ug/l	105		79-120		
Toluene	N.D.	0.5	ug/l	109		79-120		
Xylene (Total)	N.D.	0.5	ug/l	108		80-120		
Batch number: 11035A07A	Sample number(s): 6197759-6197762,6197764,6197766							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 11035A07B	Sample number(s): 6197763,6197765							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	100	75-135	0	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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F110344AA	Sample number(s): 6197759 UNSPK: P194789								
Benzene	92	99	80-126	8	30				
Ethylbenzene	94	100	71-134	6	30				
Toluene	91	98	80-125	8	30				
Xylene (Total)	90	98	79-125	8	30				
Batch number: P110351AA	Sample number(s): 6197760-6197766 UNSPK: 6197760								
Benzene	100	107	80-126	7	30				
Ethylbenzene	105	115	71-134	7	30				
Toluene	108	116	80-125	8	30				
Xylene (Total)	106	115	79-125	8	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 Group Number: 1231581
Reported: 02/18/11 at 09:15 PM

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: F110344AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197759	99	102	97	98
Blank	103	105	99	98
LCS	102	104	99	100
MS	102	104	98	99
MSD	103	104	99	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F110382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	106	102	98	99
LCS	105	105	96	98
LCSD	104	101	97	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197760	94	99	103	89
6197761	93	98	104	89
6197762	93	97	103	90
6197763	94	97	104	97
6197764	91	97	102	93
6197765	93	98	103	87
6197766	94	101	103	88
Blank	93	97	105	88
LCS	93	101	104	90
MS	94	102	103	89
MSD	92	100	104	89
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11035A07A

	Trifluorotoluene-F
6197759	89
6197760	89
6197761	92
6197762	112
6197764	160*
6197766	90
Blank	87
LCS	99
LCSD	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.

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Quality Control Summary

Client Name: Chevron
Group Number: 1231581
Reported: 02/18/11 at 09:15 PM

Surrogate Quality Control

Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11035A07B

	Trifluorotoluene-F
6197763	119
6197765	89
Blank	92
LCS	99
LCSD	103
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.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

ø2ø111-ø5

Acct. #: 10904 — For Lancaster Laboratories use only — Sample # 6197759-66 — Group #: 005677

G# 1231581

Facility #: SS#211253-OML G-R#385867 Global ID#

Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM: EF Lead Consultant: CRAHK Hoey

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: Kyle Erblund

Analyses Requested / Preservation Codes: H (BTEX), H (TPH 8015 MOD GRO)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air	Total Number of Containers	BTEX 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	1/31/11		X			X		2	X	X					
mw-9	↓	1145	X			X		6	X	X					
mw-10	↓	1035	X			X		6	X	X					
mw-11	↓	1105	X			X		6	X	X					
mw-12	↓	1310	X			X		6	X	X					
mw-13	↓	1230	X			X		6	X	X					
mw-15	↓	0945	X			X		6	X	X					
mw-16	↓	0845	X			X		6	X	X					

Matrix: ☐ Potable ☐ NPDES

Preservative 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

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)
(STD. TAT circled) 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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/31/11	1415	GETTLER-RYAN FRIDGE	01-31-11	1415
[signature]	02-01-11	1135	A. Aalyer	01 FEB 11	1135
[signature]	2/2/11	1637	[signature]		
Relinquished by Commercial Carrier: UPS (FedEx circled) Other ____			Received by: [signature]	2/3/11	0945

Temperature Upon Receipt 0.6-2.2 C° Custody Seals Intact? (Yes circled) No

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)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< 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

J estimated value – The result is ≥ 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

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 quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
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 sample 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 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.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-9										
07/23/09[1]	523.14	13.00	510.14	0.00	0.00	5,200	4	5	310	100
11/09/09	523.14	12.70	510.44	0.00	0.00	240	4	4	2	5
02/22/10	523.14	11.93	511.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**523.14**	**12.22**	**510.92**	**0.00**	**0.00**	**6,200**	**9**	**5**	**470**	**110**
MW-10										
07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
11/09/09	522.76	12.30	510.46	0.00	0.00	2,800	1	2[3]	30	30
02/22/10	522.76	11.52	511.24	0.00	0.00	3,600	9	2	61	10
05/24/10	**522.76**	**11.82**	**510.94**	**0.00**	**0.00**	**3,000**	**12**	**3**	**110**	**22**
MW-11										
07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
11/09/09	523.25	12.73	510.52	0.00	0.00	1,100	3	0.6[3]	2	2
02/22/10	523.25	11.96	511.29	0.00	0.00	1,400	2	<0.5	5	0.9
05/24/10	**523.25**	**12.27**	**510.98**	**0.00**	**0.00**	**1,700**	**1**	**<0.5**	**10**	**0.6**
MW-12										
07/23/09[1]	523.42	13.03	510.41**	0.02	5.01[2]	48,000	340	3,100	1,300	7,600
11/09/09	523.42	12.78	510.64	0.00	0.00	18,000	290	560	22	3,100
02/22/10	523.42	12.13	511.29	0.00	0.00	14,000	190	590	310	1,400
05/24/10	**523.42**	**12.38**	**511.04**	**0.00**	**0.00**	**17,000**	**150**	**530**	**320**	**1,400**
MW-13										
07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
11/09/09	523.12	12.51	510.61	0.00	0.00	12,000	340	1,300	16	1,700
02/22/10	523.12	11.87	511.25	0.00	0.00	13,000	630	600	22	960
05/24/10	**523.12**	**12.10**	**511.02**	**0.00**	**0.00**	**15,000**	**950**	**670**	**130**	**790**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-14										
07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
11/09/09	520.88	10.11	510.77	0.00	0.00	23,000	1,800	1,900	750	2,600
02/22/10	520.88	9.37	511.51	0.00	0.00	48,000	3,600	7,900	2,100	9,400
05/24/10	**520.88**	**9.88**	**511.25****	**0.31**	**0.00**	**NOT SAMPLED DUE TO THE PRESENCE OF SPH**				**--**
MW-15										
07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
11/09/09	520.87	10.18	510.69	0.00	0.00	20,000	110	590	370	4,900
02/22/10	520.87	9.48	511.39	0.00	0.00	66	<0.5	3	1	6
05/24/10	**520.87**	**9.83**	**511.04**	**0.00**	**0.00**	**70**	**1**	**8**	**1**	**8**
MW-16										
07/23/09[1]	520.50	10.63	509.87	0.00	0.00	430	0.6	<0.5	<0.5	<0.5
11/09/09	520.50	10.31	510.19	0.00	0.00	180	<0.5	<0.5	<0.5	<0.5
02/22/10	520.50	9.63	510.87	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**520.50**	**9.88**	**510.62**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA										
07/23/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/09/09	--	--	--	--	--	<50	<0.5	1[4]	<0.5	<0.5
02/22/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
(msl) = Mean Sea Level
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
(µg/L) = Micrograms per liter

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE has been corrected due to the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.80)].

ANALYTICAL METHODS:

TPH-GRO analyzed by EPA Method 8015
BTEX analyzed by EPA Method 8260

[1] Well development preformed.

[2] Product + water removed.

[3] The Laboratory report indicates the result reported for toluene in this sample may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. The trip blank associated with this sample had a trace toluene detection of 1 ug/l. Please refer to the letter accompanying the lab report for further explanation.

[4] The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.