Roya Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
rkambin@chevron.com

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

RECEIVED

3:08 pm, Apr 11, 2012

Alameda County
Environmental Health

Re: Former Texaco Service Station 211253
930 Springtown Boulevard
Livermore, California
ACEHS Case No. RO0189

I accept the First Quarter 2012 Groundwater Monitoring and Sampling Report.

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 Quarter 2012 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,

Roya Kambin
Project Manager

Attachment: First Quarter 2012 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 9, 2012 Reference No. 060058

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

Re: First Quarter 2012
Groundwater Monitoring and Sampling Report
Former Texaco Station 21-1253
930 Springtown Boulevard
Livermore, California

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *First Quarter 2012 Groundwater Monitoring and Sampling Report* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above (Figures 1). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. G-R's February 16, 2012 *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 24, 2012 *Analytical Results* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FIRST QUARTER 2012 EVENT

On February 9, 2012, G-R monitored and sampled all site wells per the established schedule. Monitoring wells are divided into three different zones based on the screen intervals: shallow zone (wells MW-9, MW-11, MW-14, MW-18, MW-19, and MW-20), intermediate zone (wells MW-10, MW-12, MW-13, MW-16, and MW-17), and deep zone (well MW-15).

Equal
Employment Opportunity
Employer

Results of the current monitoring event indicate the following:

- Shallow Groundwater Flow Direction Northwest
- Approximate Depth to Groundwater
  - Shallow Wells 9 to 13 feet below grade (fbg)
  - Intermediate Wells 11 to 14.5 fbg
  - Deep Well 10 fbg

Results of the first quarter 2012 sampling event are presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
ESLs	***100***	***1***	***40***	***30***	***20***
MW-9	**5,300**	**6**	7	**250**	**120**
MW-10	**140**	<0.5	<0.5	<0.5	<0.5
MW-11	**220**	<0.5	<0.5	<0.5	<0.5
MW-12	**8,700**	**85**	**130**	**170**	**590**
MW-13	**18,000**	**1,600**	**3,700**	**370**	**2,200**
MW-14	0.34 foot of LNAPL				
MW-15	<50	<0.5	<0.5	<0.5	<0.5
MW-16	<50	<0.5	<0.5	<0.5	<0.5
MW-17	<50	<0.5	<0.5	<0.5	<0.5
MW-18	**12,000**	**200**	**1,300**	**68**	**2,200**
MW-19	**6,700**	**4**	<3	18	**35**
MW-20	**9,100**	**3**	**94**	**200**	**600**

µg/L Micrograms per liter
< Indicates constituent was not detected at or above stated laboratory reporting limit
ESLs Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final*, November 2007, revised May 2008. – Table F-1a where groundwater is a potential drinking water source
Data in **bold** represent concentrations that exceed applicable ESLs

CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling at the site indicate the following:

- Based on similar depth to groundwater data in shallow, intermediate, and deep monitoring wells it appears the three groundwater zones are hydraulically connected.
- Light non-aqueous phase liquid (LNAPL) was detected in well MW-14 during the first quarter 2012 event.
- The shallow water bearing zone is adequately delineated by destroyed wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8, and current wells MW-11 and MW-16.
- The highest dissolved hydrocarbon concentrations are detected in intermediate well MW-13 located west-northwest of the former underground storage tanks and dispensers.
- Intermediate wells MW-10 and MW-17 adequately define the downgradient extent of dissolved hydrocarbons in the intermediate zone to near and below ESLs.
- Deep well MW-15 defines the vertical extent of hydrocarbons in groundwater beneath the source area.

CRA recommends quarterly monitoring and sampling of new wells MW-17 through MW-20, and quarterly monitoring and semi-annual sampling of wells MW-9 through MW-16 to monitor hydraulic and hydrocarbon concentration trends.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
G-R will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

Feasibility Study and Corrective Action Plan
In CRA's March 22, 2012 *Subsurface Investigation Report*, CRA proposed preparing and submitting a feasibility study and corrective action plan (FS/CAP) to address LNAPL and dissolved hydrocarbon concentrations beneath the site. CRA will complete and submit a FS/CAP with concurrence from ACEH.

CONESTOGA-ROVERS & ASSOCIATES

Please contact Ms. Kiersten Hoey at (510) 420-3347 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brandon S. Wilken, P.G. 7564

AM/aa/15
Encl.

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

cc: Ms. Roya Kambin, Chevron *(electronic copy)*
Mr. Joe Zadik
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP

FIGURES

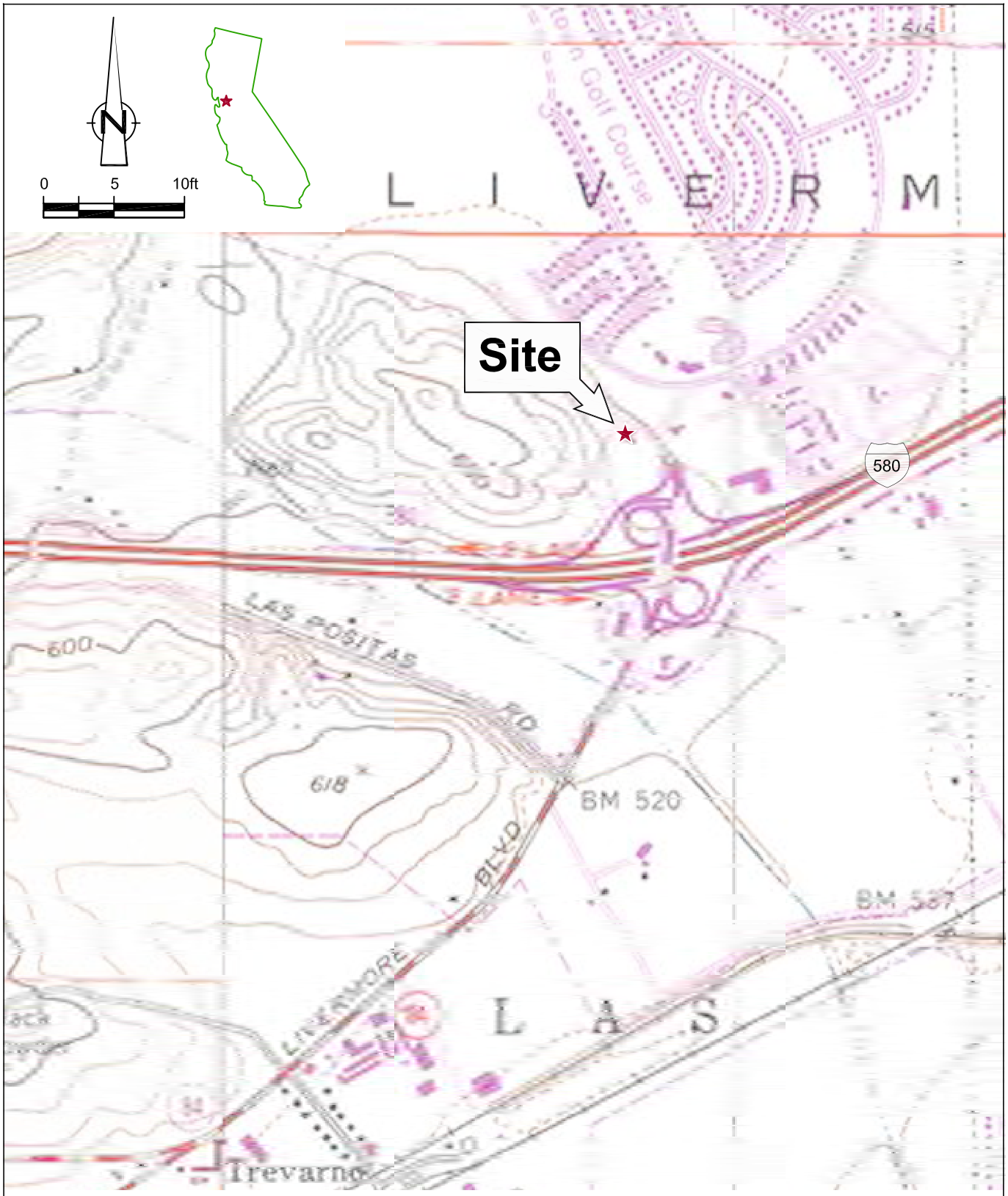

Figure 1

VICINITY MAP
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California

060058-95(015)GN-EM001 MAR 13/2012

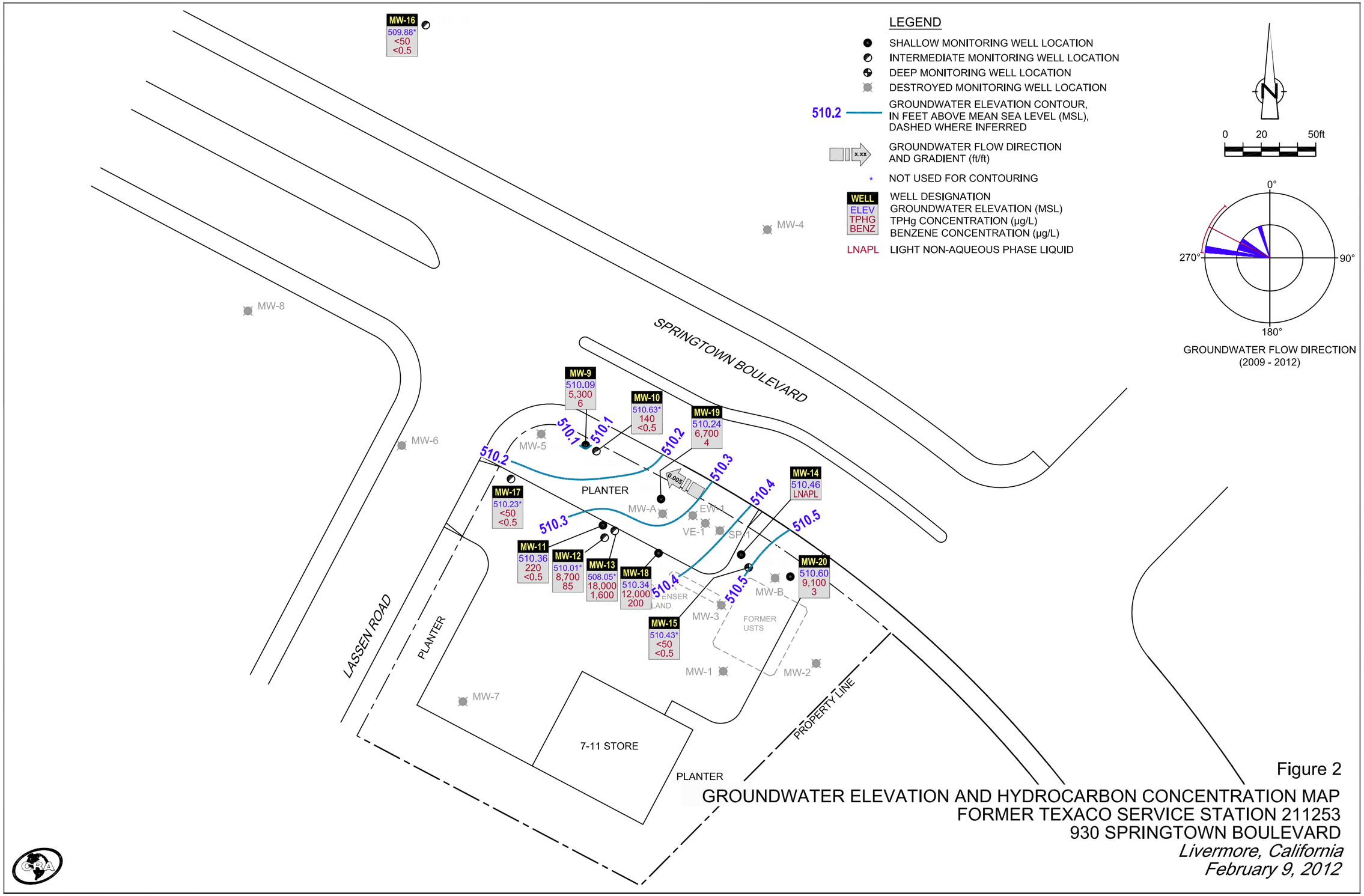

Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
February 9, 2012

060058-95(015)GN-EM002 MAR 29/2012

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPL*	*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-9	08/09/2011	523.14	12.01	511.13	-	-	54	<0.5	<0.5	<0.5	<0.5
MW-9	**02/09/2012**	**523.14**	**13.05**	**510.09**	**-**	**-**	**5,300**	**6**	**7**	**250**	**120**
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-10	08/09/2011	523.25	11.85	511.40	-	-	300	<0.5	<0.5	<0.5	<0.5
MW-10	**02/09/2012**	**523.25**	**12.62**	**510.63**	**-**	**-**	**140**	**<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-11	08/09/2011	523.42	12.06	511.36	-	-	130	<0.5	<0.5	0.9	<0.5
MW-11	**02/09/2012**	**523.42**	**13.06**	**510.36**	**-**	**-**	**220**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
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-12	08/09/2011	523.12	12.19	510.93	-	-	9,000	71	140	170	580
MW-12	**02/09/2012**	**523.12**	**13.11**	**510.01**	**-**	**-**	**8,700**	**85**	**130**	**170**	**590**
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-13	08/09/2011	520.88	11.91	508.97	-	-	12,000	1,200	820	120	710
MW-13	**02/09/2012**	**520.88**	**12.83**	**508.05**	**-**	**-**	**18,000**	**1,600**	**3,700**	**370**	**2,200**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPL*	*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-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	511.12	0.25	0.00	-	-	-	-	-
MW-14	08/09/2011[1,**]	520.88	9.67	511.35	0.17	0.00	-	-	-	-	-
MW-14	**02/09/2012[1,**]**	**520.88**	**10.69**	**510.46**	**0.34**	**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
MW-15	08/09/2011	520.87	9.56	511.31	-	-	<50	<0.5	<0.5	<0.5	<0.5
MW-15	**02/09/2012**	**520.87**	**10.44**	**510.43**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
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
MW-16	08/09/2011	520.50	9.59	510.91	-	-	66	<0.5	<0.5	<0.5	<0.5
MW-16	**02/09/2012**	**520.50**	**10.62**	**509.88**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-17	**02/07/2012[2]**	**524.81**	**14.50**	**510.31**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-17	**02/09/2012**	**524.81**	**14.58**	**510.23**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-18	**02/07/2012[2]**	**522.40**	**12.01**	**510.39**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-18	**02/09/2012**	**522.40**	**12.06**	**510.34**	**-**	**-**	**12,000**	**200**	**1,300**	**68**	**2,200**
MW-19	**02/07/2012[2]**	**522.63**	**12.30**	**510.33**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-19	**02/09/2012**	**522.63**	**12.39**	**510.24**	**-**	**-**	**6,700**	**4**	**<3**	**18**	**35**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPL*	*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-20	**02/07/2012[2]**	**520.28**	**9.60**	**510.68**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-20	**02/09/2012**	**520.28**	**9.68**	**510.60**	**-**	**-**	**9,100**	**3**	**94**	**200**	**600**
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
QA	08/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5
QA	**02/09/2012**	**-**	**-**	**-**	**-**	**-**	**<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

LNAPL = Light non-aqueous phase liquid

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 = Xylenes

-- = Not available or not applicable

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPL*	*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*

<x = Not detected above laboratory method detection limit

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.

2 Well Development Event

ATTACHMENT A

MONITORING AND SAMPLING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

February 16, 2012
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 **Well Development of February 7, 2012** **First Quarter Event of February 9, 2012**

COMMENTS:

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

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

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

Trans/211253

WELL CONDITION STATUS SHEET

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

Job #: **385867**
Event Date: 2 - 07 - 2012
Sampler: HAIG KEVORK

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	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 Y / N
MW-17	NEW							YES	N	EMCO - 12" / 2	N
MW-18	NEW							YES			
MW-19	NEW							YES			
MW-20	NEW							YES			

Comments

WELL CONDITION STATUS SHEET

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

Site Address: **930 Springtown Blvd.** Event Date: 2/9/12

City: **Livermore, CA** Sampler: JH

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							N	N	12" emco	N
MW-10	OK										
MW-11	OK										
MW-12	OK										
MW-13	OK										
MW-14	OK										
MW-15	OK										
MW-16	OK				D=36"	OK					
MW-17	OK										
MW-18	OK										
MW-19	OK										
MW-20	OK										

Comments

STANDARD OPERATING PROCEDURE –WELL DEVELOPMENT
GROUNDWATER SAMPLING

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

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

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

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

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

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

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 Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.

CHEVRON SERVICE STATION
#211253
Livermore, CA

WELL DEVELOPMENT OF
February 7, 2012

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**
Site Address: **930 Springtown Blvd.** Event Date: 2/07/12 (inclusive)
City: **Livermore, CA** Sampler: HAIG K.

Well ID **MW-17** Date Monitored: 2/07/12
Well Diameter **4** in.
Initial Total Depth 36.93 ft.
Final Total Depth 37.12 ft.
Depth to Water 14.50 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

22.43 xVF 0.66 = 14.8 x10 case volume = Estimated Purge Volume: 148 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: N/A

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

Sampling Equipment: N/A
Disposable Bailer
Pressure Bailer
Metal Filters
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:

Start Time (purge): 0855 Weather Conditions: LIGHT RAIN
Sample Time/Date: N/A Water Color: CLOUDY Odor: Y / (N)
Approx. Flow Rate: 1.5 - 2 gpm. Sediment Description: SAND / SILT
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: N/A

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0912	15	9.71	682	16.5		
0920	30	9.65	668	16.9		
0928	45	9.58	671	17.1		
0936	60	9.59	660	17.8		
0944	75	9.53	658	17.8		
0954	90	9.48	648	17.6		
1004	110	9.36	649	17.5		
1019	130	9.33	641	17.7		
1032	150	9.31	643	17.4		

LABORATORY INFORMATION

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

COMMENTS: **INITIAL CGI READING:** 1415 = 0 ppm, 10X4 = 20.9 %
1425 = 0.0 ppm, CO = 0 ppm

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

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/07/12 (inclusive)
City: Livermore, CA | Sampler: HAIG K.

Well ID: MW-18 | Date Monitored: 2/07/12
Well Diameter: 4 in.
Initial Total Depth: 14.87 ft.
Final Total Depth: 14.95 ft.
Depth to Water: 12.01 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.

2.86 xVF 0.66 = 1.88 x10 case volume = Estimated Purge Volume: 18.8 gal.

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

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ✓
- Stack Pump: ✓
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment: N/A
- Disposable Bailer: ____
- Pressure Bailer: ____
- Metal Filters: ____
- 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: ____

Start Time (purge): 1142
Sample Time/Date: N/A /
Approx. Flow Rate: 0.5-1 gpm.
Did well de-water? YES If yes, Time: 1204 / 1214 Volume: 18 / 18 gal. DTW @ Sampling: N/A

Weather Conditions: LIGHT RAIN
Water Color: CLOUDY Odor (Y) / N STRONG
Sediment Description: SAND / SILT

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1147	2	8.43	849	14.1		
1158	4	8.35	861	17.2		
1202	6	8.34	863	17.5		
1207	8	8.33	871	17.4		
1209	10	8.30	874	17.4		
1214	12	8.26	880	17.4		
1223	14	8.25	876	17.9		
1229	16	8.25	878	17.6		
1238	18	8.18	844	17.6		
1250	20	8.20	845	17.5		

LABORATORY INFORMATION

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

COMMENTS: INITIAL CGI READING: HEX = 0 ppm, OXY = 20.9 %
H2S = 0.0 ppm, CO = 0 ppm

Add/Replaced Lock: ✓ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**
Site Address: **930 Springtown Blvd.** Event Date: 2/07/12 (inclusive)
City: **Livermore, CA** Sampler: HAIG K.

Well ID MW-19 Date Monitored: 2/07/12
Well Diameter 4 in.
Initial Total Depth 14.82 ft.
Final Total Depth 14.95 ft.
Depth to Water 12.30 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.

2.52 xVF 0.66 = 1.66 x10 case volume = Estimated Purge Volume: 16.6 gal.

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

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

Sampling Equipment: N/A
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- 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:

Start Time (purge): 1045
Sample Time/Date: N/A /
Approx. Flow Rate: 0.5-1 gpm.
Did well de-water? YES If yes, Time: 1106 / 1119 Volume: 9 / 13 gal.

Weather Conditions: LIGHT RAIN
Water Color: CLOUDY Odor: Y / N MODERATE
Sediment Description: SAND/SILT
DTW @ Sampling: N/A

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1049	2	9.37	963	16.8		
1102	5	9.32	949	16.7		
1105	8	9.29	941	17.0		
1108	12	9.30	938	17.1		
1123	14	9.25	935	17.1		
1129	17	9.23	937	17.0		

LABORATORY INFORMATION

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

COMMENTS: **INITIAL CGI READING:** HEX = 0 ppm, OXY = 20.9 %
H2S = 0.0 ppm, CO = 0 ppm,

(Add)/Replaced Lock: ✓ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/04/12 (inclusive)
City: Livermore, CA | Sampler: HAIG K.

Well ID: MW-20 | Date Monitored: 2/04/12
Well Diameter: 4 in.
Initial Total Depth: 14.26 ft.
Final Total Depth: 14.97 ft.
Depth to Water: 9.60 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.

4.66 xVF 0.66 = 3.0 x10 case volume = Estimated Purge Volume: 30 gal.

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

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ✓
- Stack Pump: ✓
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment: N/A
- Disposable Bailer: ____
- Pressure Bailer: ____
- Metal Filters: ____
- 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: ____

Start Time (purge): 0720 | Weather Conditions: LIGHT RAIN
Sample Time/Date: N/A / | Water Color: CLOUDY | Odor: (Y) N SLIGHT
Approx. Flow Rate: 0.5-1 gpm. | Sediment Description: SAND / SILT
Did well de-water? YES If yes, Time: 0751 0809 | Volume: 14 20 gal. | DTW @ Sampling: N/A

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm / µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0731	5	9.98	1954	15.4		
0745	8	9.86	1895	15.6		
0748	11	9.83	1882	15.7		
0751	14	9.95	1879	15.6		
0806	17	9.96	1843	15.9		
0809	20	9.91	1845	15.7		
0820	23	9.88	1863	15.9		
0830	26	9.92	1843	16.0		
0840	30	9.90	1866	16.2		

LABORATORY INFORMATION

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

COMMENTS: INITIAL CGI READING: HEX = 0 ppm, OXY = 20.9 %
H2S = 0.0 ppm, CO = 0 ppm

Add/Replaced Lock: ✓ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

FORMER TEXACO SERVICE STATION
#211259
San Jose, CA

FIRST QUARTER EVENT OF
February 9, 2012

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Site Address: **930 Springtown Blvd.** Event Date: 2/9/12 (inclusive)

City: **Livermore, CA** Sampler: JW

Well ID MW-9 Date Monitored: 2/9/12

Well Diameter 4

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

Total Depth 14.47 ft.

Depth to Water 13.05 ft. ☐ Check if water column is less then 0.50 ft.

1.42 xVF .66 = .93 x3 case volume = Estimated Purge Volume: 2.81 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.33

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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: _____

Start Time (purge): 1345 Weather Conditions: Clear

Sample Time/Date: 1415 / 2/9/12 Water Color: Clear Odor: (Y) / N Strong

Approx. Flow Rate: — gpm. Sediment Description: Low

Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1349	1	7.39	1420	20.4		
1353	2	7.30	1467	20.7		
1358	2.5	7.16	1494	20.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	~~YES~~	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-10 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 26.44 ft.
Depth to Water 12.62 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.

13.82 xVF .66 = 9.12 x3 case volume = Estimated Purge Volume: 27.36 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.38

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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: _____

Start Time (purge): 1435 Weather Conditions: Clear
Sample Time/Date: 1505 / 2/9/12 Water Color: Clear Odor: (Y) N Lt HC
Approx. Flow Rate: 3 gpm. Sediment Description: Lt HC
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 14.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (C) µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1438	9	7.61	1671	19.4		
1441	18	7.37	1624	19.1		
1444	27	7.30	1603	19.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-11 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 14.62 ft.
Depth to Water 13.06 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.

1.56 xVF .66 = 1.02 x3 case volume = Estimated Purge Volume: 3.08 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.37

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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: _____

Start Time (purge): 1525 Weather Conditions: Clear
Sample Time/Date: 1555 / 2/9/12 Water Color: Clear Odor: (Y) / N Light
Approx. Flow Rate: — gpm. Sediment Description: None
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.35

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (US))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1528	1	7.66	1425	19.3		
1531	2	7.25	1461	19.0		
1535	3	7.12	1513	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	~~NP~~	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-12 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 26.68 ft.
Depth to Water 13.11 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.

13.57 xVF .66 = 8.95 x3 case volume = Estimated Purge Volume: 26.86 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.82

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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:

Start Time (purge): 1610 Weather Conditions: Clear
Sample Time/Date: 1645 / 2/9/12 Water Color: Clear Odor: Y (N) Light
Approx. Flow Rate: 3 gpm. Sediment Description: Light
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 14.68

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1613	9	7.61	1394	17.9		
1616	18	7.52	1418	18.3		
1619	27	7.35	1452	18.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-13 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 36.65 ft.
Depth to Water 12.83 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.

23.82 xVF .66 = 15.72 x3 case volume = Estimated Purge Volume: 47.16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.59

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

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
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:

Start Time (purge): 1705 Weather Conditions: Clear
Sample Time/Date: 1740 / 2/9/12 Water Color: Gray Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: Light
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 16.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1710	15	7.93	1132	19.9		
1715	30	7.80	1165	19.3		
1721	48	7.67	1194	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)

City: **Livermore, CA** Sampler: JH

Well ID **MW- 14** Date Monitored: 2/9/12

Well Diameter 4

Total Depth 14.41 ft.

Depth to Water 10.69 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.

3.72 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
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other: _____

Time Started: — (2400 hrs)

Time Completed: — (2400 hrs)

Depth to Product: 10.35 ft

Depth to Water: 10.69 ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description: —

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

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)
	x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

COMMENTS: SOH

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-15 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 45.90 ft.
Depth to Water 10.44 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.

35.46 xVF .66 = 23.40 x3 case volume = Estimated Purge Volume: 70.20 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.53

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

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
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:

Start Time (purge): 1050 Weather Conditions: Clear
Sample Time/Date: 1135 / 2/9/12 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: none
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 13.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1058	24	7.44	1127	16.6		
1106	48	7.40	1145	16.1		
1113	70	7.29	1163	16.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-15	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-16 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 29.19 ft.
Depth to Water 10.62 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.

18.57 xVF .66 = 12.25 x3 case volume = Estimated Purge Volume: 36.76 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.33

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

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
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:

Start Time (purge): 0930 Weather Conditions: Clear
Sample Time/Date: 1000 / 2/9/12 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 2 gpm. Sediment Description: None
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 10.54

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0936	12	7.46	982	15.1		
0942	24	7.46	964	15.0		
0949	37	7.28	961	15.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: SH

Well ID MW-17 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 37.08 ft.
Depth to Water 14.58 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.

22.50 xVF .66 = 14.85 x3 case volume = Estimated Purge Volume: 44.55 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.08

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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:

Start Time (purge): 1805 Weather Conditions: Clear
Sample Time/Date: 1845 / 2/9/12 Water Color: ~~Cloudy~~ Odor: Y / N
Approx. Flow Rate: 3 gpm. Sediment Description: L. Silt
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 17.66

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1810	15	7.68	1377	17.6		
1815	30	7.60	1402	17.2		
1820	45	7.33	1449	17.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-17	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-18 Date Monitored: 2/9/12
Well Diameter 4
Total Depth 14.90 ft.
Depth to Water 12.06 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.

2.84 xVF .66 = 1.87 x3 case volume = Estimated Purge Volume: 5.62 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.62

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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:

Start Time (purge): 1150 Weather Conditions: Clear
Sample Time/Date: 1225 / 2/9/12 Water Color: Clear Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 12.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1155	2	7.69	1246	17.2		
1200	4	7.60	1277	17.3		
1205	5.5	7.39	1291	17.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)
City: Livermore, CA | Sampler: JW

Well ID: MW-19 | Date Monitored: 2/9/12
Well Diameter: 4
Total Depth: 14.91 ft.
Depth to Water: 12.39 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.

2.52 xVF .66 = 1.66 x3 case volume = Estimated Purge Volume: 4.98 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.89

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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: _____

Start Time (purge): 1245 | Weather Conditions: Clear
Sample Time/Date: 1325 / 2/9/12 | Water Color: tan | Odor: (Y) / N Low
Approx. Flow Rate: — gpm. | Sediment Description: Heavy
Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm / µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1247	1.5	7.85	2041	17.4		
1252	3.0	7.69	2063	17.7		
1257	4.5	7.60	2075	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-19	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	~~YES~~	NP	CHEVRON RTC	CHEVRON PFI STUDY

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: 2/9/12 (inclusive)

City: **Livermore, CA** Sampler: JH

Well ID MW-20 Date Monitored: 2/9/12

Well Diameter 4

Total Depth 14.94 ft.

Depth to Water 9.68 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.

5.26 xVF .66 = 3.47 x3 case volume = Estimated Purge Volume: 10.41 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.73

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
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: _____

Start Time (purge): 1020 Weather Conditions: Clear

Sample Time/Date: 1045 / 2/9/12 Water Color: Clear Odor: Y / (N)

Approx. Flow Rate: 1 gpm. Sediment Description: None

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1023	3	7.92	1516	16.8		
1026	6	7.50	1510	16.7		
1031	11	7.84	1501	16.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-20	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x 1 liter ambers~~	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: ______ Sample # ______ Group #: 008781

Facility #: ~~SS#211253-OML G-R#385867 Global ID#T0600101353~~

Site Address: ~~930 SPRINGTOWN BLVD., LIVERMORE, CA~~

Chevron PM: ~~EF~~ Lead Consultant: ~~CRAHK Huey~~

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: [signature]

Sample Identification	Date Collected	Time Collected	Grab	Composite	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					
Preservation Codes									H	H										
QA	2/9/12		X			X		2	X	X										
MW-9	↓	1415	X			X		6	X	X										
MW-10		1505	X			X		6	X	X										
MW-11		1555	X			X		6	X	X										
MW-12		1645	X			X		6	X	X										
MW-13		1740	X			X		6	X	X										
MW-15		1135	X			X		6	X	X										
MW-16		1000	X			X		6	X	X										
MW-17		1845	X			X		6	X	X										
MW-18		1225	X			X		6	X	X										
MW-19		1325	X			X		6	X	X										
MW-20	↓	1015	X			X		6	X	X										

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) EDF/EDD

QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2/9/12	2000	SETTLET - [illegible] FRIDGE	[illegible]	[illegible]
[signature]	02-13-12	1225	[signature]	2/13/12	1225

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

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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 24, 2012

Project: 211253

Submittal Date: 02/15/2012
Group Number: 1289902
PO Number: 0015075227
Release Number: FROHNAPPLE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-120209 NA Water	6548772
MW-9-W-120209 Grab Water	6548773
MW-10-W-120209 Grab Water	6548774
MW-11-W-120209 Grab Water	6548775
MW-12-W-120209 Grab Water	6548776
MW-13-W-120209 Grab Water	6548777
MW-15-W-120209 Grab Water	6548778
MW-16-W-120209 Grab Water	6548779
MW-17-W-120209 Grab Water	6548780
MW-18-W-120209 Grab Water	6548781
MW-19-W-120209 Grab Water	6548782
MW-20-W-120209 Grab Water	6548783

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
ELECTRONIC	Chevron	Attn: Sheldon Nelson

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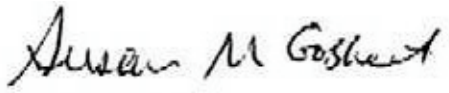
COPY TO

Questions? Contact your Client Services Representative
Jill M Parker at (717) 556-7262

Respectfully Submitted,



Susan M. Goshert
Group Leader

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

Analysis Report

Sample Description: QA-T-120209 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

LLI Sample # WW 6548772
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

1253Q

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	D120532AA	02/22/2012 12:10	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 12:10	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 12:44	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 12:44	Marie D John	1

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Analysis Report

Sample Description: MW-9-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 6548773
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 14:15 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

12539

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	6	3	5
10943	Ethylbenzene	100-41-4	250	3	5
10943	Toluene	108-88-3	7	3	5
10943	Xylene (Total)	1330-20-7	120	3	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,300	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	D120532AA	02/22/2012 13:41	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 13:41	Daniel H Heller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 18:35	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 18:35	Marie D John	5

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Analysis Report

Sample Description: **MW-10-W-120209 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 6548774
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 15:05 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25310

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.	140	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	D120532AA	02/22/2012 12:33	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 12:33	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 15:40	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 15:40	Marie D John	1

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Analysis Report

Sample Description: MW-11-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 6548775
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 15:55 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25311

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.	220	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	D120532AA	02/22/2012 14:04	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 14:04	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 16:02	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 16:02	Marie D John	1

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Analysis Report

Sample Description: MW-12-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 6548776
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 16:45 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25312

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	85	3	5
10943	Ethylbenzene	100-41-4	170	3	5
10943	Toluene	108-88-3	130	3	5
10943	Xylene (Total)	1330-20-7	590	3	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	8,700	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	D120532AA	02/22/2012 14:26	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 14:26	Daniel H Heller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 18:57	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 18:57	Marie D John	5

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Analysis Report

Sample Description: MW-13-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 6548777
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 17:40 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25313

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	50	100
10943	Ethylbenzene	100-41-4	370	50	100
10943	Toluene	108-88-3	3,700	50	100
10943	Xylene (Total)	1330-20-7	2,200	50	100
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	18,000	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	D120532AA	02/22/2012 15:12	Daniel H Heller	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 15:12	Daniel H Heller	100
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 19:19	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 19:19	Marie D John	10

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Analysis Report

Sample Description: MW-15-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 6548778
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 11:35 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25315

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	D120532AA	02/22/2012 15:35	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 15:35	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 16:24	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 16:24	Marie D John	1

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Analysis Report

Sample Description: MW-16-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 6548779
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 10:00 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25316

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	D120532AA	02/22/2012 15:58	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 15:58	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12047B20A	02/20/2012 16:46	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12047B20A	02/20/2012 16:46	Marie D John	1

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Analysis Report

Sample Description: **MW-17-W-120209 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-17

LLI Sample # WW 6548780
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 18:45 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25317

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	D120532AA	02/22/2012 16:21	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120532AA	02/22/2012 16:21	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12051A07A	02/21/2012 06:03	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12051A07A	02/21/2012 06:03	Marie D John	1

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Analysis Report

Sample Description: MW-18-W-120209 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-18

LLI Sample # WW 6548781
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 12:25 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25318

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	200	5	10
10943	Ethylbenzene	100-41-4	68	5	10
10943	Toluene	108-88-3	1,300	5	10
10943	Xylene (Total)	1330-20-7	2,200	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	12,000	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	D120531AA	02/22/2012 19:11	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120531AA	02/22/2012 19:11	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12051A07A	02/21/2012 07:18	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	12051A07A	02/21/2012 07:18	Marie D John	10

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Analysis Report

Sample Description: **MW-19-W-120209 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-19

LLI Sample # WW 6548782
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 13:25 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25319

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	4	3	5
10943	Ethylbenzene	100-41-4	18	3	5
10943	Toluene	108-88-3	N.D.	3	5
10943	Xylene (Total)	1330-20-7	35	3	5
	A preserved vial was submitted for analysis. However, the pH at the time of analysis was 5.				
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	6,700	250	5

General Sample Comments

State of California Lab Certification No. 2501

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	D120531AA	02/22/2012 19:34	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120531AA	02/22/2012 19:34	Daniel H Heller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12051A07A	02/21/2012 06:28	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12051A07A	02/21/2012 06:28	Marie D John	5

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Analysis Report

Sample Description: **MW-20-W-120209 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-20

LLI Sample # WW 6548783
LLI Group # 1289902
Account # 10904

Project Name: 211253

Collected: 02/09/2012 10:45 by JH

Submitted: 02/15/2012 08:00
Reported: 02/24/2012 12:44

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

25320

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	3	3	5
10943	Ethylbenzene	100-41-4	200	3	5
10943	Toluene	108-88-3	94	3	5
10943	Xylene (Total)	1330-20-7	600	3	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	9,100	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	D120531AA	02/22/2012 19:57	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D120531AA	02/22/2012 19:57	Daniel H Heller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12051A07A	02/21/2012 06:53	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12051A07A	02/21/2012 06:53	Marie D John	5

Quality Control Summary

Client Name: Chevron Group Number: 1289902
Reported: 02/24/12 at 12:44 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D120531AA	Sample number(s): 6548781-6548783							
Benzene	N.D.	0.5	ug/l	84		79-120		
Ethylbenzene	N.D.	0.5	ug/l	84		79-120		
Toluene	N.D.	0.5	ug/l	86		79-120		
Xylene (Total)	N.D.	0.5	ug/l	84		80-120		
Batch number: D120532AA	Sample number(s): 6548772-6548780							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	93		80-120		
Batch number: 12047B20A	Sample number(s): 6548772-6548779							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	91	90	75-135	1	30
Batch number: 12051A07A	Sample number(s): 6548780-6548783							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	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: D120531AA	Sample number(s): 6548781-6548783 UNSPK: P548785								
Benzene	106	104	80-126	2	30				
Ethylbenzene	102	103	71-134	2	30				
Toluene	104	104	80-125	1	30				
Xylene (Total)	100	103	79-125	3	30				
Batch number: D120532AA	Sample number(s): 6548772-6548780 UNSPK: 6548774								
Benzene	90	92	80-126	2	30				
Ethylbenzene	87	89	71-134	2	30				
Toluene	90	92	80-125	3	30				
Xylene (Total)	87	89	79-125	3	30				

Surrogate Quality Control

*- 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: 1289902
Reported: 02/24/12 at 12:44 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: D120531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6548781	89	96	98	98
6548782	90	94	100	98
6548783	89	95	98	100
Blank	91	97	98	96
LCS	90	96	99	100
MS	90	99	99	101
MSD	90	95	101	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: D120532AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6548772	90	97	99	95
6548773	90	96	100	98
6548774	90	96	99	96
6548775	90	98	100	100
6548776	90	98	100	100
6548777	91	97	99	97
6548778	91	96	100	97
6548779	89	97	97	94
6548780	90	101	98	95
Blank	92	98	100	97
LCS	91	98	99	100
MS	90	99	99	98
MSD	90	100	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12047B20A

	Trifluorotoluene-F
6548772	86
6548773	104
6548774	91
6548775	93
6548776	132
6548777	104
6548778	86
6548779	87
Blank	87
LCS	105
LCSD	104
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12051A07A

*- 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.

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

Quality Control Summary

Client Name: Chevron Group Number: 1289902
Reported: 02/24/12 at 12:44 PM

Surrogate Quality Control

	Trifluorotoluene-F
6548780	109
6548781	112
6548782	135
6548783	130
Blank	107
LCS	119
LCSD	115
Limits:	63-135

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

021312-02

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 6548772-83 Group #: 008781

1289902

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353

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: Jim Herron

Analyses Requested — Preservation Codes: H, H

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	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
QA	2/9/12		X			X		2	X	X					
MW-9		1415	X			X		6	X	X					
MW-10		1505	X			X		6	X	X					
MW-11		1555	X			X		6	X	X					
MW-12		1640	X			X		6	X	X					
MW-13		1740	X			X		6	X	X					
MW-15		1135	X			X		6	X	X					
MW-16		1000	X			X		6	X	X					
MW-17		1845	X			X		6	X	X					
MW-18		1225	X			X		6	X	X					
MW-19		1325	X			X		6	X	X					
MW-20	↓	1045	X			X		6	X	X					

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]	2/9/12	2000	GETTLER-RYAN FRIDGE	02-13-12	0700
[signature]	02-13-12	1225	[signature]	2/13/12	1225
[signature]	2/13/12	1630	SWA		
Relinquished by Commercial Carrier: ③ Jmp 2/15/12 — UPS FedEx (circled) Other SWA			[signature]	2/15/12	0800

Temperature Upon Receipt 1.1-2.8 C° Custody Seals Intact? Yes (circled) No

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 4804.01 (north) Rev. 10/12/06

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

eurofins | Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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.

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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.