CONESTOGA-ROVERS
& ASSOCIATES

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

April 30, 2010 Reference No. 060058

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Fourth Quarter 2009 Groundwater Monitoring Report and Annual Update
Former Texaco Service Station 21-1253
930 Springtown Boulevard
Livermore, California
Fuel Leak Case No. RO000189

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Fourth Quarter 2009 Groundwater Monitoring Report and Annual Update* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. Groundwater monitoring data is being submitted in accordance with the reporting requirements of 23CCR2652d. The site background, a discussion of 2009 data, and CRA's conclusions and recommendations are discussed below.

BACKGROUND

Site Description

The site is a former Texaco service station located on the south corner of Springtown Boulevard and Lassen Road in Livermore, California (Figure 1). In the summer of 1985, Texaco sold the site to Southland Corporation who constructed a 7-Eleven convenience store. The underground storage tanks (USTs), dispenser islands, and product piping were removed concurrent with the construction of the convenience store. The site is still occupied by a 7-Eleven convenience store, surrounded by a paved parking area (Figure 2).

Geology and Hydrogeology

Subsurface soil consists of a heterogeneous mixture of alluvial and colluvial silty clays, clayey silts, sandy silts, silty sands, and gravelly sands of Holocene age. These regional sediments have a maximum thickness of approximately 150 feet. The Pliocene-aged Tassajara Formation, described by California Department of Water Resources (DWR), consists of sandstone, shale and limestone, and forms the bedrock beneath the site.

The site is located in the Mocho II sub-basin of the Main Basin in the Livermore Valley, as defined by the DWR and the Zone 7 Water Agency. The Mocho II sub-basin is defined by the Livermore Fault on the west, thinning Quaternary alluvium on the east, the Livermore Uplands to the south, and the Tassajara Formation to the north. Main Basin groundwater is currently used as a drinking water resource. General groundwater gradient in the basin is to the west; however, hills near the site appear to affect the groundwater flow direction.

The nearest surface water bodies are Arroyo Seco and Arroyo Las Positas, which converge approximately one mile west of the site.

RESULTS OF 2009 GROUNDWATER MONITORING

In June 2009, CRA installed monitoring wells MW-9 through MW-16. On July 23 and November 9, 2009, Gettler-Ryan, Inc. (G-R) gauged and sampled all eight wells. Cumulative groundwater monitoring data and analytical results are presented in Table 1 of the December 9, 2009 G-R Report (Attachment A). The monitoring wells are divided into three different zones based on the screen intervals: shallow zone (wells MW-9, MW-11 and MW-14), intermediate zone (wells MW-10, MW-12, MW-13 and MW-16) and deep zone (well MW-15). In 2009, depth to groundwater ranged from 10.11 to 13.05 feet below grade (fbg) in all wells. Based on similar depth to groundwater data, the three zones appear to be hydraulically connected. Groundwater was calculated to flow west-northwestward. A rose diagram is presented on Figure 3.

Light non-aqueous phase liquid (LNAPL) was detected in well MW-12 during the July 23, 2009 sampling event at a thickness of 0.02 feet. G-R subsequently removed 5.01 gallons of LNAPL and water.

The highest hydrocarbon concentrations are detected in wells MW-12 through MW-15. On November 9, 2009, the highest petroleum hydrocarbon concentrations detected were in well MW-14, which contained 23,000 micrograms per liter (µg/L) total petroleum hydrocarbons as gasoline (TPHg) and 1,800 µg/L benzene. Well MW-16, located across Springtown Boulevard, defines the downgradient extent of dissolved hydrocarbons with only 180 µg/L TPHg and no benzene. Concentrations are presented on Figure 3. Not enough data has been collected to establish concentration trends.

CONESTOGA-ROVERS & ASSOCIATES

April 30, 2009 Reference No. 060058

ANTICIPATED FUTURE ACTIVITIES

Additional groundwater monitoring and sampling data will be collected to further evaluate hydrocarbon concentration trends before providing a Pilot Test Workplan or Draft Corrective Action Plan (CAP) by August 19, 2010.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Kiersten Hoey N. Scott MacLeod, P.G. #5747

KH/cm/6

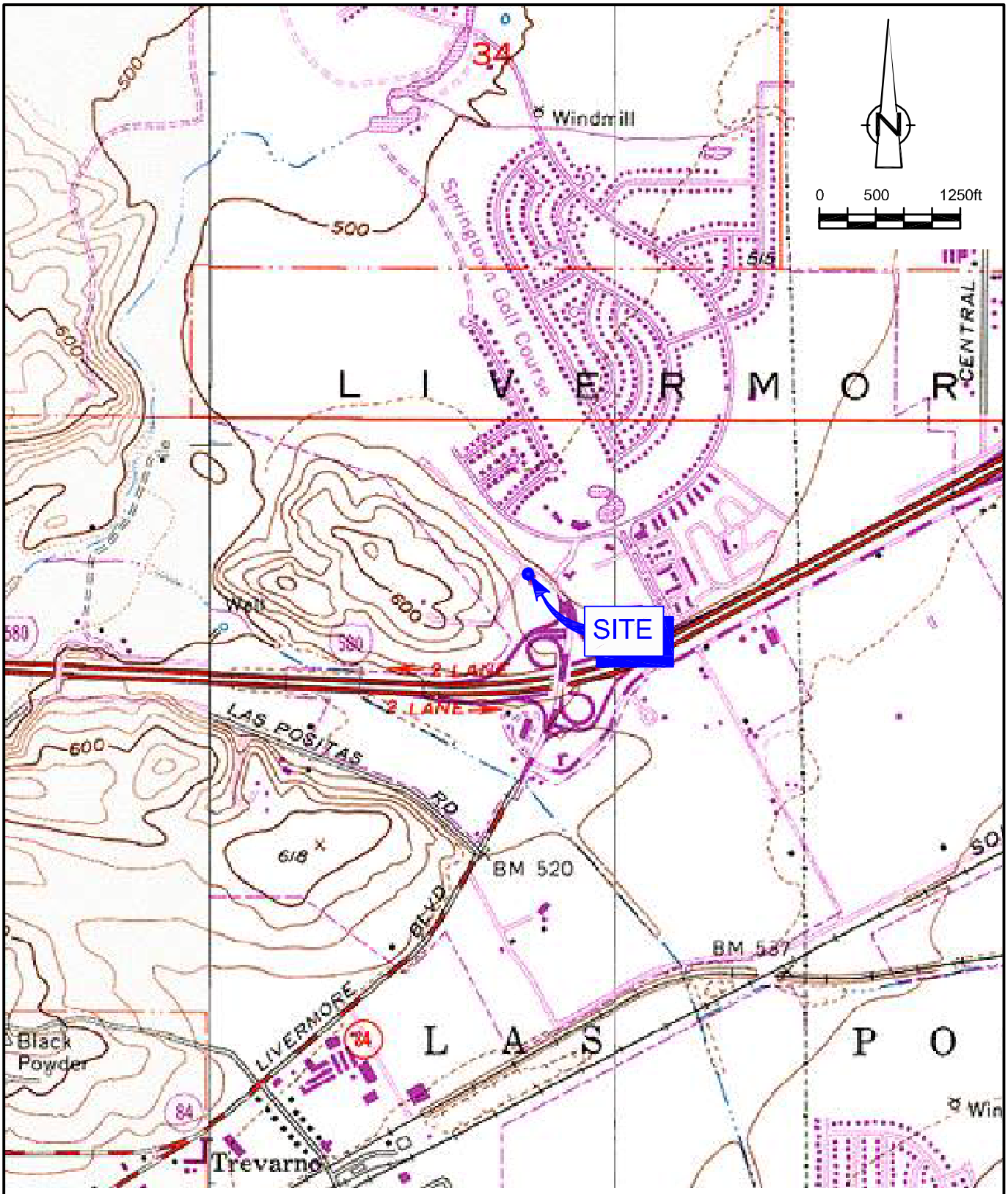
Encl.

Figure 1	Site Vicinity Map
Figure 2	Site Plan
Figure 3	Hydrocarbon Concentrations in Groundwater

Attachment A December 9, 2009 G-R *Groundwater Monitoring and Sampling Report*

cc: Mr. Ian Robb, 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

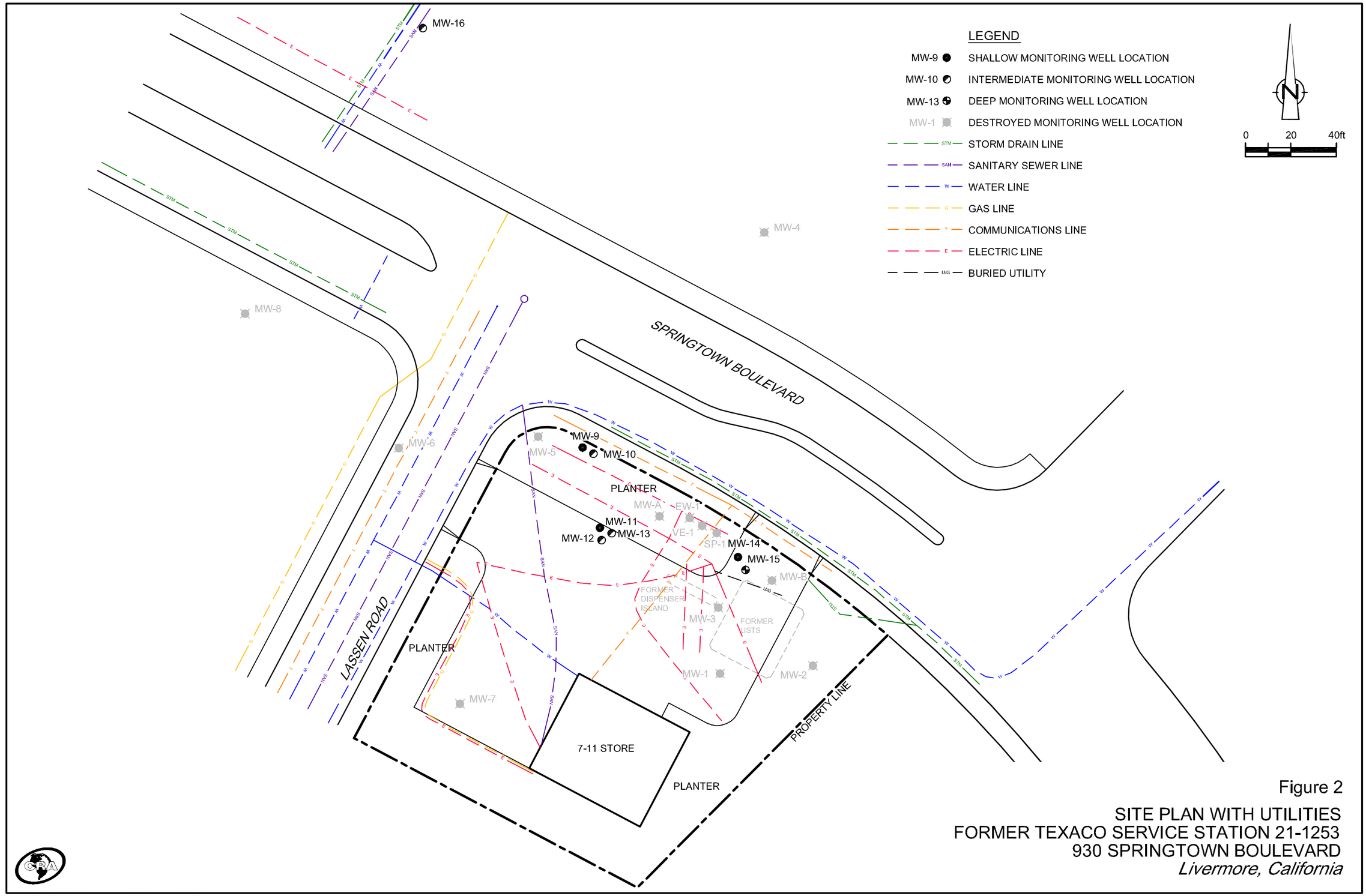


Figure 2

SITE PLAN WITH UTILITIES
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

LEGEND

MW-9 ● SHALLOW MONITORING WELL LOCATION

MW-10 ◐ INTERMEDIATE MONITORING WELL LOCATION

MW-13 ◓ DEEP MONITORING WELL LOCATION

MW-1 ✳ DESTROYED MONITORING WELL LOCATION

(440) TPHg CONCENTRATION (ug/L)

(0.9) BENZENE CONCENTRATION (ug/L)

N

0 20 40ft

MW-16
(180)
(<0.5)

MW-4

MW-8

SPRINGTOWN BOULEVARD

MW-6

MW-5

MW-9
(240)
(4)

MW-10
(2,800)
(1)

PLANTER

MW-11
(1,100)
(3)

MW-A

EW-1

VE-1

SP-1

MW-12
(18,000)
(290)

MW-13
(12,000)
(340)

MW-14
(23,000)
(1,800)

MW-15
(20,000)
(110)

MW-B

FORMER
DISPENSER
ISLAND

MW-3

FORMER
USTS

LASSEN ROAD

PLANTER

MW-1

MW-2

MW-7

PROPERTY LINE

7-11 STORE

PLANTER

0°
270°
90°
180°

HISTORICAL GROUNDWATER
FLOW DIRECTION 2009

APPROXIMATE 4Q09 FLOW DIRECTION
AT A GRADIENT OF 0.004
PER GETTLER-RYAN

Figure 3

HYDROCARBON CONCENTRATIONS IN GROUNDWATER - NOVEMBER 9, 2009
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

60058-2010(PRES001)GN-WA001 MAR 15/2010

ATTACHMENT A

DECEMBER 9, 2009 G-R *GROUNDWATER MONITORING AND SAMPLING REPOR*T

GETTLER-RYAN INC.

TRANSMITTAL

December 9, 2009
G-R #385867

TO: Ms. Charlotte Evans
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
(VIA PDF)

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	DATED	DESCRIPTION
1	December 7, 2009	Groundwater Monitoring and Sampling Report **Fourth Quarter Event of November 9, 2009**

COMMENTS:

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

Mr. Ian Robb, Chevron EMC, 6111 Bollinger Canyon Road, Room 3612, San Ramon, CA 94583 **(NO COPY)**
Mr. Jerry Wickham, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 **(Distributed by CRA via PDF)**
Mr. Ken Hilliard, Environmental Services, 7-Eleven, Inc., One Arts Plaza, 1722 Routh St., Suite 1000, Dallas, TX 75201
Mr. Wyman Hong, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Enclosures

Trans/211253-IR

WELL CONDITION STATUS SHEET

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

Job # 385867
Event Date: 11-9-09
Sampler: Joe

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-9	O.K	O.K	O.K	O.K	O.K	O.K	O.K	N	N	12" EMCO/2	NO
MW-10										"	
MW-11										"	
MW-12										"	
MW-13										"	
MW-14										"	
MW-15										"	
MW-16						48" cavity				"	

Comments

GETTLER-RYAN INC.

December 7, 2009
G-R Job #385867

Mr. Ian Robb
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3612
San Ramon, CA 94583

RE: Fourth Quarter Event of November 9, 2009
Groundwater Monitoring & Sampling Report
Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

Dear Mr. Robb:

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

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

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

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

Sincerely,

Deanna L. Harding
Project Coordinator

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

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

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

EXPLANATION

- Groundwater monitoring well (Shallow)
- Groundwater monitoring well (Intermediate)
- Groundwater monitoring well (Deep)
- Destroyed well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- Groundwater elevation contour, dashed where inferred
- *[99.99]* Not used in contouring

MW-16 *[510.19]*

MW-4

SPRINGTOWN BOULEVARD

MW-8

Approximate groundwater flow direction at a gradient of 0.004 Ft./Ft.

MW-6

MW-5 *510.44*

MW-9 *[510.46]*

MW-10

510.50

510.60

Planter

MW-A

EW-1

SP-1

510.52 MW-11

MW-13

VE-1

510.77

MW-14

MW-12 *[510.64]*

[510.61]

Former Dispenser Islands

510.70

MW-15 *[510.69]*

MW-B

MW-3

Former USTS

MW-1

MW-2

MW-7

LASSEN ROAD

BLUEBELL DRIVE

Planter

7-11

Planter

Approximate Property Line

0 40

Scale in Feet

Source: Figure modified from drawing provided by Conestoga-Rovers & Associates, Site Plan With Utilities, Figure 2, Dated: 8/12/09.

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

FIGURE 1

DATE November 9, 2009

REVISED DATE

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

PROJECT NUMBER 385867

REVIEWED BY

FILE NAME: P:\Enviro\Texaco\211253\009-211253.dwg | Layout Tab: Pot4

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**
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**
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**
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**
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**
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**
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**

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-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**
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**

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.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-9 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 14.86 ft.
Depth to Water 12.70 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.

2.16 xVF 0.66 = 1.43 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.13

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): 0935 Weather Conditions: clear
Sample Time/Date: 1000 / 11-9-09 Water Color: clear Odor: Y / N strong
Approx. Flow Rate: ~~gpm~~ gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0940	1.5	7.31	818	19.1		
0950	3	6.92	832	18.8		
0955	4	6.87	827	18.6		

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: _____ 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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-10 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 26.29 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.

13.99 xVF 0.66 = 9.23 x3 case volume = Estimated Purge Volume: 28 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.09

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1020 Weather Conditions: clear
Sample Time/Date: 1045 11-9-09 Water Color: clear Odor Y / N strong
Approx. Flow Rate: 3-4 gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1030	9	6.70	593	18.5		
1034	20	6.72	610	18.7		
1039	28	6.68	614	18.4		

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: _____ 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: 11-9-09 (inclusive)

City: **Livermore, CA** Sampler: Joe

Well ID **MW-11** Date Monitored: 11-9-09

Well Diameter 4 in.

Total Depth 14.79 ft.

Depth to Water 12.73 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

2.06 xVF 0.66 = 1.36 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.14

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): 1055 Weather Conditions: clear

Sample Time/Date: 1120 11-9-09 Water Color: light grey Odor: Y / N strong

Approx. Flow Rate: ~~4~~ gpm. Sediment Description:

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1100	1.5	6.80	719	18.5		
1106	3	6.82	731	19.0		
1110	4.5	6.76	740	19.2		

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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-12 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 26.71 ft.
Depth to Water 12.78 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.

13.93 xVF 0.66 = 9.19 x3 case volume = Estimated Purge Volume: 28 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.56

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): 1130 Weather Conditions: clear
Sample Time/Date: 1200 / 11.9.09 Water Color: clear Odor: Y / N Strong
Approx. Flow Rate: 3-4 gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1136	10	6.90	797	19.2		
1142	19	6.82	766	19.4		
1147	28	6.84	772	19.0		

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: _____ 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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-13 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 36.75 ft.
Depth to Water 12.51 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

24.24 xVF 0.66 = 16.00 x3 case volume = Estimated Purge Volume: 48 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.35

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): 1210 Weather Conditions: clear
Sample Time/Date: 1240 / 11-9-09 Water Color: clear Odor: Y / N strong
Approx. Flow Rate: 3-4 gpm. Sediment Description:
Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 13.08

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1218	16	6.65	652	19.4		
1223	32	6.67	659	19.1		
1228	48	6.71	664	19.6		

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: ____ 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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-14 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 14.49 ft.
Depth to Water 10.11 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.

4.38 xVF 0.66 = 2.89 x3 case volume = Estimated Purge Volume: 9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.98

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): 0836 Weather Conditions: clear
Sample Time/Date: 0910 / 11-9-09 Water Color: clear Odor: Y / N Strong
Approx. Flow Rate: ~~4~~ gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0840	3	6.77	802	18.9		
0848	6	6.80	790	19.2		
0857	9	6.84	785	19.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-15 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 45.94 ft.
Depth to Water 10.18 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.

35.76 xVF 0.66 = 23.60 x3 case volume = Estimated Purge Volume: 70 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.33

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): 0754 Weather Conditions: clear
Sample Time/Date: 0830 / 11-9-09 Water Color: clear Odor: Y / N 5' from
Approx. Flow Rate: ~~X~~ gpm. Sediment Description:
Did well de-water? ~~no~~ yes If yes, Time: 0802 Volume: 2 cl gal. DTW @ Sampling: 11.18

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0800	23	6.88	6.96	18.8		
0802	2 cl					

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: 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: 11-9-09 (inclusive)
City: Livermore, CA Sampler: Joe

Well ID MW-16 Date Monitored: 11-9-09
Well Diameter 4 in.
Total Depth 29.20 ft.
Depth to Water 10.31 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.

18.89 xVF 0.66 = 12.47 x3 case volume = Estimated Purge Volume: 37.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.08

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): 0708 Weather Conditions: clear
Sample Time/Date: 0745 / 11-9-09 Water Color: clear Odor: (Y) / N faint
Approx. Flow Rate: 3-4 gpm. Sediment Description: ____
Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 11.63

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0724	13	7.07	761	18.8		
0729	25	6.90	766	19.3		
0735	38	6.84	763	19.5		

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

11 11 09-06

Acct. #: 10904 | For Lancaster Laboratories use only | Sample #: 583514-1-49 | Group #: 019257

C# 1170737

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

Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM: JR | Lead Consultant: CRACE

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 | Fax #: 925-551-7899

Sampler: JOE ASEMIAN

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	Matrix: Soil	Water	Oil	Air	Potable	NPDES	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			✓			✓					2	✓	✓					
MW-9	11-9-09	1000									6	✓	✓					
MW-10		1045									6	✓	✓					
MW-11		1120									6	✓	✓					
MW-12		1200									6	✓	✓					
MW-13		1240									6	✓	✓					
MW-14		0910									6	✓	✓					
MW-15		0830									6	✓	✓					
MW-16		0745									6	✓	✓					

Comments / Remarks

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

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

EDF/EDD

	Date	Time		Date	Time
Relinquished by:	11-9-09	1400	Received by: FETTLER-RYAN FRIDGE	11-09-09	1400
Relinquished by:	11-11-09	0830	Received by:	11/11/09	1245
Relinquished by:	11/12/09	1530	Received by: FedEx		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	11/13/09	0750
Temperature Upon Receipt 0.7-1.4 C°			Custody Seals Intact? (Yes) No		

Lancaster Laboratories

November 20, 2009

Ms. Cheryl Hansen
Gettler-Ryan, Inc.
6747 Sierra Court Suite J
Dublin, CA 94568

Dear Ms. Hansen:

I am writing in regards to the Chevron 211253: 930 Springtown-Livermore, CA project, Lancaster Laboratories Group No. 1170737 collected on November 9, 2009.

Toluene was detected in sample MW-10 at a level of 2 µg/L and in sample MW-11 at a level of 0.6 µg/L. We suspect that the vial may have been the source of your low-level toluene hit.

Recently we've noted sporadic detections of toluene in trip, field, and equipment blanks between 0.2 and 1.7 µg/L. We have performed an extensive investigation to determine the source and we've determined that some HCl preserved vials from the vial manufacturer contained trace levels of toluene. We have notified the manufacturer who is performing its own investigation to determine the source.

As corrective action, we have switched to another manufacturer and have confirmed the new vials are clean. All suspect vials have been removed from our inventory to prevent any further issues.

We apologize for any inconvenience that this caused. Please call me at 717-656-2300, Ext. 1241 if you have any further questions.

Sincerely,

Jill M. Parker

Jill Parker
Project Manager
Environmental Client Services

JP/mcs

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

November 20, 2009

Project: 211253

Samples arrived at the laboratory on Thursday, November 12, 2009. The PO# for this group is 0015039978 and the release number is ROBB. The group number for this submittal is 1170737.

Client Sample Description	Lancaster Labs (LLI) #
QA-T-091109 NA Water	5835141
MW-9-W-091109 Grab Water	5835142
MW-10-W-091109 Grab Water	5835143
MW-11-W-091109 Grab Water	5835144
MW-12-W-091109 Grab Water	5835145
MW-13-W-091109 Grab Water	5835146
MW-14-W-091109 Grab Water	5835147
MW-15-W-091109 Grab Water	5835148
MW-16-W-091109 Grab Water	5835149

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: Cheryl Hansen

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Christine Dulaney
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: QA-T-091109 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

LLI Sample # WW 5835141
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	1	0.5	1
06053	Xylene (Total)	1330-20-7	N.D.	0.5	1
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.					
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
06053	BTEX by 8260B	SW-846 8260B	1	P093202AA	11/16/2009 11:35	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093202AA	11/16/2009 11:35	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/14/2009 20:23	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/14/2009 20:23	Matthew S Woods	1

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Analysis Report

Sample Description: MW-9-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 5835142
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 10:00 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	4	0.5	1
06053	Ethylbenzene	100-41-4	2	0.5	1
06053	Toluene	108-88-3	4	0.5	1
06053	Xylene (Total)	1330-20-7	5	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	240	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 Data and Time	Analyst	Dilution Factor
06053	BTEX by 8260B	SW-846 8260B	1	P093202AA	11/16/2009 14:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093202AA	11/16/2009 14:45	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/14/2009 22:57	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/14/2009 22:57	Matthew S Woods	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-10-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 5835143
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 10:45 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	1	0.5	1
06053	Ethylbenzene	100-41-4	30	0.5	1
06053	Toluene	108-88-3	2	0.5	1
06053	Xylene (Total)	1330-20-7	30	0.5	1
	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.				
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,800	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
06053	BTEX by 8260B	SW-846 8260B	1	P093202AA	11/16/2009 15:11	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093202AA	11/16/2009 15:11	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/15/2009 01:05	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/15/2009 01:05	Matthew S Woods	1

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Analysis Report

Sample Description: MW-11-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 5835144
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 11:20 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	3	0.5	1
06053	Ethylbenzene	100-41-4	2	0.5	1
06053	Toluene	108-88-3	0.6	0.5	1
06053	Xylene (Total)	1330-20-7	2	0.5	1

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.

GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,100	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
06053	BTEX by 8260B	SW-846 8260B	1	P093202AA	11/16/2009 15:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093202AA	11/16/2009 15:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/14/2009 23:22	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/14/2009 23:22	Matthew S Woods	1

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Analysis Report

Sample Description: MW-12-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 5835145
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 12:00 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	290	5	10
06053	Ethylbenzene	100-41-4	22	5	10
06053	Toluene	108-88-3	560	5	10
06053	Xylene (Total)	1330-20-7	3,100	5	10
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	18,000	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
06053	BTEX by 8260B	SW-846 8260B	1	P093182AA	11/14/2009 15:23	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093182AA	11/14/2009 15:23	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/15/2009 02:22	Matthew S Woods	5
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/15/2009 02:22	Matthew S Woods	5

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Analysis Report

Sample Description: MW-13-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 5835146
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 12:40 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	340	5	10
06053	Ethylbenzene	100-41-4	16	5	10
06053	Toluene	108-88-3	1,300	5	10
06053	Xylene (Total)	1330-20-7	1,700	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
06053	BTEX by 8260B	SW-846 8260B	1	P093182AA	11/14/2009 15:49	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093182AA	11/14/2009 15:49	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/15/2009 02:48	Matthew S Woods	10
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/15/2009 02:48	Matthew S Woods	10

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Analysis Report

Sample Description: MW-14-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-14

LLI Sample # WW 5835147
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 09:10 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL14

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	
06053	Benzene	71-43-2	1,800	10	20
06053	Ethylbenzene	100-41-4	750	10	20
06053	Toluene	108-88-3	1,900	10	20
06053	Xylene (Total)	1330-20-7	2,600	10	20
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	23,000	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
06053	BTEX by 8260B	SW-846 8260B	1	P093182AA	11/14/2009 16:16	Daniel H Heller	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093182AA	11/14/2009 16:16	Daniel H Heller	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/15/2009 03:14	Matthew S Woods	10
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/15/2009 03:14	Matthew S Woods	10

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Analysis Report

Sample Description: MW-15-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 5835148
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 08:30 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	110	5	10
06053	Ethylbenzene	100-41-4	370	5	10
06053	Toluene	108-88-3	590	5	10
06053	Xylene (Total)	1330-20-7	4,900	5	10
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	20,000	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
06053	BTEX by 8260B	SW-846 8260B	1	P093182AA	11/14/2009 16:43	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093182AA	11/14/2009 16:43	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09318A07A	11/15/2009 03:39	Matthew S Woods	10
01146	GC VOA Water Prep	SW-846 5030B	1	09318A07A	11/15/2009 03:39	Matthew S Woods	10

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Analysis Report

Sample Description: MW-16-W-091109 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 5835149
LLI Group # 1170737
CA

Project Name: 211253

Collected: 11/09/2009 07:45 by JA

Account Number: 10904

Submitted: 11/12/2009 08:50
Reported: 11/20/2009 at 11:45
Discard: 12/21/2009

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	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.	180	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
06053	BTEX by 8260B	SW-846 8260B	1	P093182AA	11/14/2009 17:10	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P093182AA	11/14/2009 17:10	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09320A07A	11/16/2009 21:09	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09320A07A	11/16/2009 21:09	Tyler O Griffin	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Group Number: 1170737
Reported: 11/20/09 at 11:45 AM

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: P093182AA	Sample number(s): 5835145-5835149							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	93		80-120		
Batch number: P093202AA	Sample number(s): 5835141-5835144							
Benzene	N.D.	0.5	ug/l	98	101	79-120	3	30
Ethylbenzene	N.D.	0.5	ug/l	95	99	79-120	4	30
Toluene	N.D.	0.5	ug/l	97	100	79-120	3	30
Xylene (Total)	N.D.	0.5	ug/l	96	98	80-120	3	30
Batch number: 09318A07A	Sample number(s): 5835141-5835148							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	118	75-135	8	30
Batch number: 09320A07A	Sample number(s): 5835149							
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: P093182AA	Sample number(s): 5835145-5835149 UNSPK: P836258								
Benzene	101	98	80-126	3	30				
Ethylbenzene	98	96	71-134	1	30				
Toluene	100	98	80-125	2	30				
Xylene (Total)	95	93	79-125	1	30				
Batch number: P093202AA	Sample number(s): 5835141-5835144 UNSPK: P837537								
Benzene	96		80-126						
Ethylbenzene	94		71-134						
Toluene	95		80-125						
Xylene (Total)	92		79-125						
Batch number: 09318A07A	Sample number(s): 5835141-5835148 UNSPK: P834962								
TPH-GRO N. CA water C6-C12	118		63-154						
Batch number: 09320A07A	Sample number(s): 5835149 UNSPK: P834970								
TPH-GRO N. CA water C6-C12	122		63-154						

*- 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
Reported: 11/20/09 at 11:45 AM

Group Number: 1170737

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX by 8260B
Batch number: P093182AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5835145	86	86	92	87
5835146	88	89	88	85
5835147	86	89	90	84
5835148	87	85	91	88
5835149	87	88	90	84
Blank	86	86	90	83
LCS	87	92	90	84
MS	87	89	89	87
MSD	86	90	90	86
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: P093202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5835141	86	87	90	83
5835142	86	87	89	84
5835143	86	87	89	85
5835144	86	89	88	85
Blank	87	89	90	84
LCS	85	89	89	84
LCSD	87	89	88	83
MS	87	92	90	85
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09318A07A

	Trifluorotoluene-F
5835141	101
5835142	102
5835143	146*
5835144	124
5835145	142*
5835146	108
5835147	115
5835148	108
Blank	101
LCS	113
LCSD	113
MS	113
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09320A07A

*- 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
Reported: 11/20/09 at 11:45 AM

Group Number: 1170737

Surrogate Quality Control

	Trifluorotoluene-F
5835149	109
Blank	103
LCS	113
LCSD	114
MS	113
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.

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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