

RECEIVED

10:48 am, Aug 09, 2011 Alameda County Environmental Health Eric Frohnapple
Project Manager
Marketing Business Unit

Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-6692 Fax (925) 984-8373 ericf@chevron.com

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

Re: Former Texaco Service Station No. 30-7233 2259 First Street

Livermore, California
ACEHS Case No. RO0002908

I accept the **Second Quarter 2011 Groundwater Monitoring and Sampling Report** dated August 5, 2011.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **Second Quarter 2011 Groundwater Monitoring and Sampling Report** was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

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

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Eric Frohnapple Project Manager

Enc Frohyple

Attachment: Second Quarter 2011 Groundwater Monitoring and Sampling Report



5900 Hollis Street, Suite A Emeryville, California 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

http://www.craworld.com

August 5, 2011 Reference No. 312264

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

Re: Second Quarter 2011

Groundwater Monitoring and Sampling Report

Former Texaco Service Station 30-7233

2259 First Street Livermore, California

ACEHS Case No. RO0002908

Dear Mr. Jerry Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. On June 6, 2011 G-R collected groundwater samples from all site wells. However, it was suspected that groundwater samples for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and, xylenes (BTEX) in wells MW-5 and MW-7 were switched. Therefore, G-R re-sampled MW-5 and MW-7 on June 22, 2011. The amber bottles used to analyze total petroleum hydrocarbons as diesel (TPHd) appear to have been labeled correctly. G-R's June 13, 2011 and July 1, 2011 *Groundwater Monitoring and Sampling Data Packages* are included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' June 15, 2001 and July 5, 2011 *Analytical Results* are included as Attachment B.

Equal Employment Opportunity Employer



August 5, 2011 Reference No. 312264

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Brandon S. Wilken, PG 7564

KH/aa/12

Encl.

Figure 1 Vicinity Map

Figure 2 Shallow Zone Groundwater Elevation Contour and Hydrocarbon

Concentration Map

Figure 3 Deep Zone Groundwater Elevation Contour and Hydrocarbon Concentration

Map

Table 1 Groundwater Monitoring and Sampling Data

Attachment A Monitoring Data Packages
Attachment B Laboratory Analytical Reports

cc: Mr. Eric Frohnapple, Chevron

Mr. Eric Uranaga, City of Livermore Economic Development

FIGURES

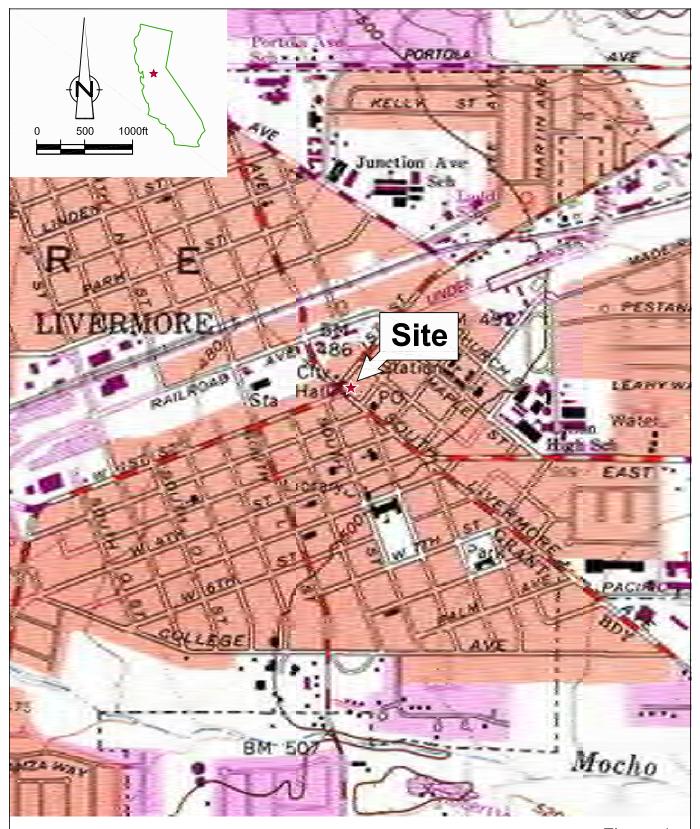
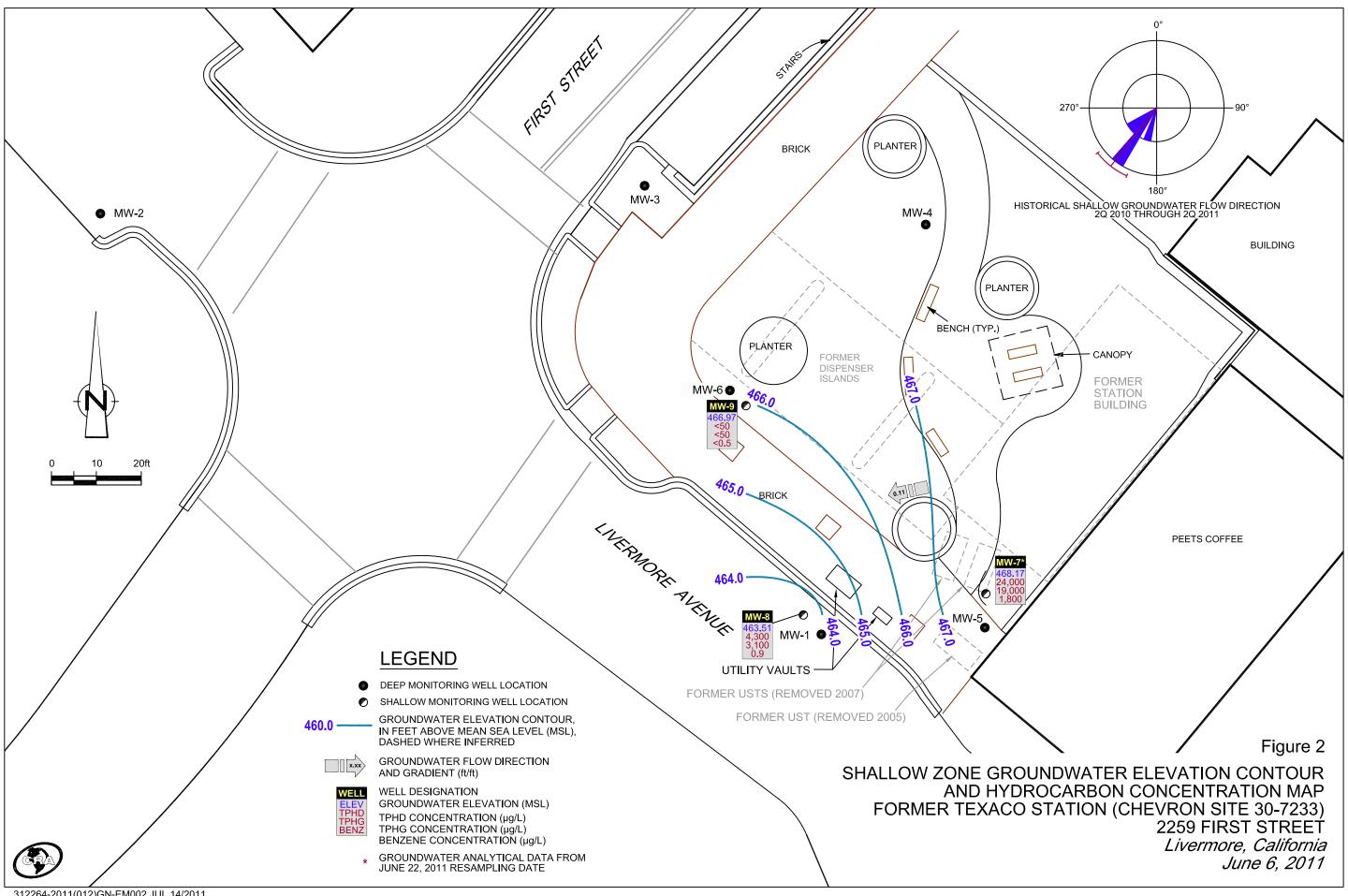
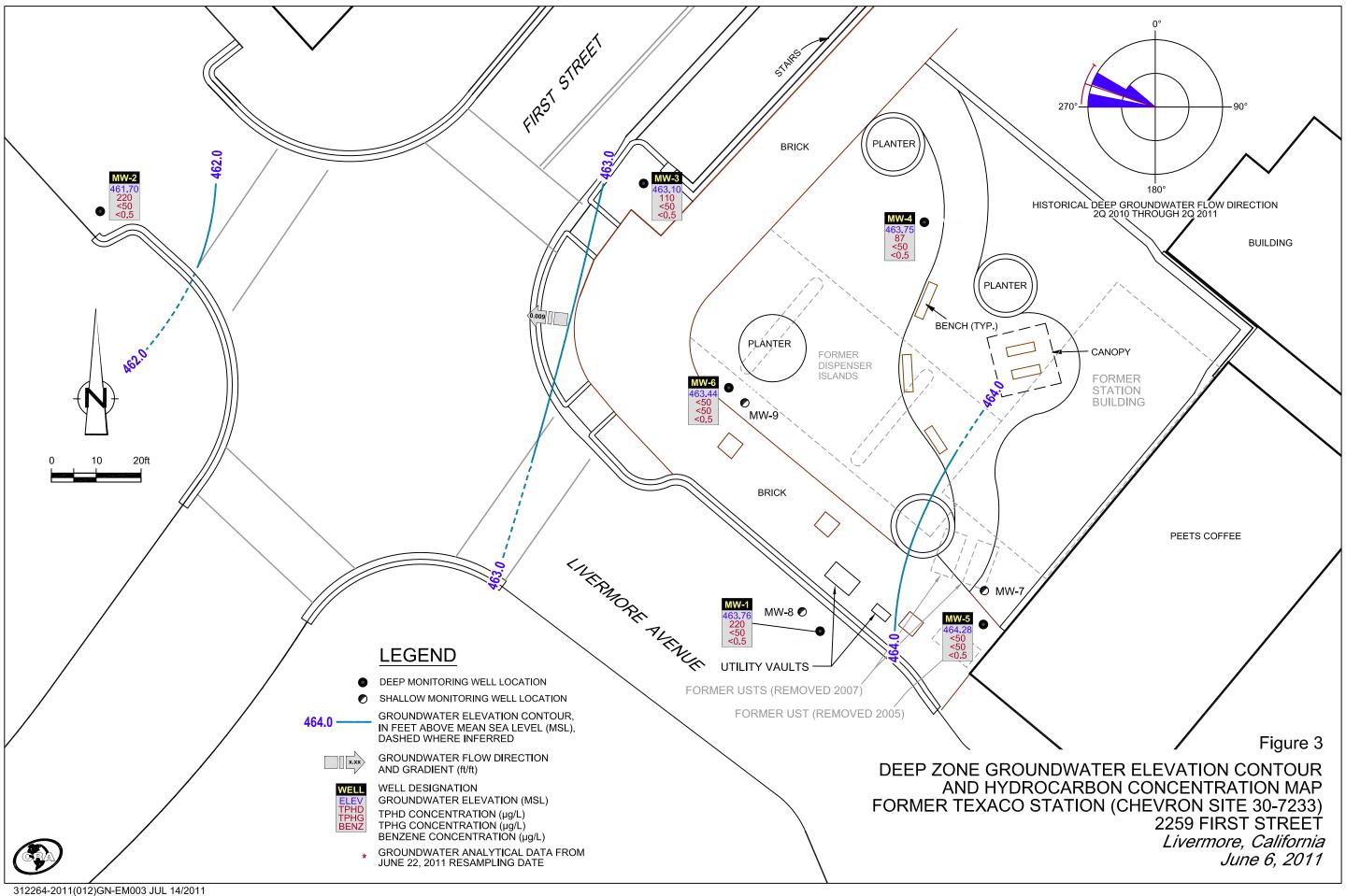


Figure 1

VICINITY MAP FORMER TEXACO STATION (CHEVRON SITE 30-7233) 2259 FIRST STREET *Livermore, California*







TABLE

TABLE 1 Page 1 of 5

GROUNDWATER MONITORING AND SAMPLING DATA FORMER TEXACO STATION CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET LIVERMORE, CALIFORNIA

					HYDROCARBONS			DDIMAA	DV NOCC		GENERAL CHEMISTRY			
	T I		1	1	HY.	DROCARBO	JNS I		PRIMAI	RY VOCS	1	GENE	KAL CHEM	SIKY
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	Nitrate Ni trogen	Sulfate	Ferrous Iron
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	µg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	1													
MW-1	05/25/2010	490.86	30.62	460.24	-	-	-	-	-	-	-	-	-	-
MW-1	05/27/2010	490.86	30.65	460.21	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	09/13/2010	490.86	36.49	454.37	51	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	12/20/2010	490.86	32.24	458.62	-	79	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	03/07/2011	490.86	27.86	463.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	6,900	73,600	<10
MW-1	06/06/2011	490.86	27.10	463.76	-	220	<50	<0.5	<0.5	<0.5	<0.5	7,000	71,000	<10
MW-2	05/25/2010 ¹	489.43	31.18	458.25	-	-	-	-	-	-	-	-	-	-
MW-2	05/27/2010	489.43	31.11	458.32	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	09/13/2010	489.43	36.96	452.47	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	12/20/2010	489.43	32.62	456.81	-	52	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	03/07/2011	489.43	28.26	461.17	-	<50	<50	<0.5	<0.5	<0.5	< 0.5	3,600	45,900	20
MW-2	06/06/2011	489.43	27.73	461.70	-	220	<50	<0.5	<0.5	<0.5	<0.5	2,900	43,600	<10
MW-3	05/25/2010 ¹	490.38	30.17	460.21	-	-	-	-	-	-	-	-	-	-
MW-3	05/27/2010	490.38	30.98	459.40	610	-	2,100	2	<0.5	<0.5	0.9	-	-	-
MW-3	09/13/2010	490.38	36.77	453.61	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-3	12/20/2010	490.38	32.41	457.97	-	97	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-3	03/07/2011	490.38	28.06	462.32	-	<50	<50	<0.5	<0.5	<0.5	<0.5	4,300	70,400	53
MW-3	06/06/2011	490.38	27.28	463.10	-	110	<50	<0.5	<0.5	<0.5	<0.5	3,900	66,400	17

TABLE 1 Page 2 of 5

GROUNDWATER MONITORING AND SAMPLING DATA FORMER TEXACO STATION CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET LIVERMORE, CALIFORNIA

					НҮ	DROCARBO	ONS		PRIMAI	RY VOCS		GENE	ERAL CHEM	ISTRY
Location	Date	тос	DTW	GWE	ТРН-DRО	TPH-DRO w/ Si Gel	трн-ско	В	T	E	X	Nitrate Nitrogen	Sulfate	Ferrous Iron
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-4	05/25/2010 ¹	492.27	32.21	460.06	-	-	-	-	-	-	-	-	-	-
MW-4	05/27/2010	492.27	32.26	460.01	230	-	1,800	1	<0.5	<0.5	0.7	-	-	-
MW-4 MW-4	09/13/2010 12/20/2010	492.27 492.27	38.14 33.80	454.13 458.47	<50	180	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-	-	-
MW-4	03/07/2011	492.27	29.42	462.85	-	<50	<50 <50	<0.5	<0.5	<0.5	<0.5	- 7,900	72,300	- 15
MW-4	06/06/2011	492.27	28.52	463.75	-	87	< 50	<0.5	<0.5	<0.5	<0.5	7,500 7,500	67,700	<10
1,1,1,1	09092011	17=1=1	_0.0_	100110		0,						7,000	0.7.00	120
MW-5	05/25/2010 ¹	491.99	31.39	460.60	-	-	-	-	-	-	-	-	-	-
MW-5	05/27/2010	491.99	31.42	460.57	120	-	420	2	< 0.5	<0.5	1	-	-	-
MW-5	09/13/2010	491.99	37.25	454.74	700	-	<50	< 0.5	<0.5	<0.5	<0.5	-	-	-
MW-5	12/20/2010	491.99	33.01	458.98	-	74	<50	<0.5	< 0.5	<0.5	<0.5	-	-	-
MW-5	03/07/2011	491.99	28.60	463.39	-	93	<50	<0.5	< 0.5	<0.5	<0.5	7,900	70,100	23
MW-5	06/06/2011	491.99	27.71	464.28	-	<50	18,000	1,500	45	450	1,700	<250	2,700	11
MW-5	06/22/2011 ²	491.99	28.90	463.09	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-6	05/25/2010 ¹	491.52	31.63	459.89	-	-	-	-	-	-	-	-	-	-
MW-6	05/27/2010	491.52	31.79	459.73	1,000	-	3,700	4	<0.5	<0.5	1	-	-	-
MW-6	09/13/2010	491.52	37.64	453.88	68	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-6	12/20/2010	491.52	33.32	458.20	-	140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-6	03/07/2011	491.52	28.96	462.56	-	63	<50	<0.5	<0.5	< 0.5	<0.5	360	55,400	33
MW-6	06/06/2011	491.52	28.08	463.44	-	<50	<50	<0.5	<0.5	<0.5	<0.5	5,300	54,000	<10

GROUNDWATER MONITORING AND SAMPLING DATA FORMER TEXACO STATION CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET LIVERMORE, CALIFORNIA

				İ	HYDROCARBONS PRIMARY VOCS					GENERAL CHEMISTRY				
					HYI	DROCARBO	ONS		PRIMAI	RY VOCS	1	GENE	RAL CHEMI	STRY
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	Nitrate Nitrogen	Sulfate	Ferrous Iron
	Units	ft	ft	ft-amsl	μg/L	µg∕L	µg∕L	µg∕L	μg/L	µg∕L	µg∕L	µg∕L	μg/L	μg/L
MW-7	05/25/2010 ¹	492.29	28.69	463.60	-	-	-	-	-	-	-	-	-	-
MW-7	05/27/2010	492.29	28.61	463.68	2,800	-	14,000	1,800	35	320	660	-	_	-
MW-7	09/13/2010	492.29	31.75	460.54	40,000	-	16,000	1,700	33	460	600	_	-	-
MW-7	12/20/2010	492.29	27.96	464.33	-	6,200	15,000	2,800	59	450	530	-	-	-
MW-7	03/07/2011	492.29	24.98	467.31	-	55,000	16,000	1,500	50	470	2,100	<250	2,600	2,800
MW-7	06/06/2011	492.29	24.12	468.17	-	24,000	<50	<0.5	<0.5	<0.5	<0.5	8,000	70,300	4,300
MW-7	06/22/2011 ²	492.29	26.71	465.58	-	-	19,000	1,800	47	490	2,200	-	-	-
MW-8	05/25/2010 ¹	490.89	30.62	460.27	-	-	-	-	-	-	-	-	-	-
MW-8	05/27/2010	490.89	30.78	460.11	750	-	3,100	36	3	<0.5	2	-	-	-
MW-8	09/13/2010	490.89	36.55	454.34	590	-	3,400	5	2	< 0.5	1	-	-	-
MW-8	12/20/2010	490.89	31.60	459.29	-	750	4,000	0.8	0.7	19	3	-	-	-
MW-8	03/07/2011	490.89	28.20	462.69	-	1,300	2,800	0.9	0.7	12	2	<250	7,000	820
MW-8	06/06/2011	490.89	27.38	463.51	-	4,300	3,100	0.9	0.7	5	1	<250	2,400	2,000
MW-9	05/25/2010 ¹	491.64	29.23	462.41	-	-	-	-	-	-	-	-	-	-
MW-9	05/27/2010	491.64	28.96	462.68	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	09/13/2010	491.64	31.85	459.79	30,000	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	12/20/2010	491.64	28.95	462.69	-	56	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	03/07/2011	491.64	25.67	465.97	-	<50	<50	< 0.5	< 0.5	< 0.5	< 0.5	<250	172,000	48

TABLE 1 Page 4 of 5

GROUNDWATER MONITORING AND SAMPLING DATA FORMER TEXACO STATION CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET LIVERMORE, CALIFORNIA

					НҮ	DROCARBO	DNS		PRIMAF	RY VOCS		GENE	RAL CHEM	ISTRY
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	Nitrate Nitrogen	Sulfate	Ferrous Iron
	Units	ft	ft	ft-amsl	µg/L	μg/L	μg/L	μg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	06/06/2011	491.64	24.67	466.97	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	228,000	<10
QA	05/27/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	09/13/2010	-	-	-	-	-	< 50	< 0.5	<0.5	<0.5	<0.5	-	-	-
QA	12/20/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	03/07/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	06/06/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	06/22/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

 $\mu g/L$ = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

TABLE 1 Page 5 of 5

GROUNDWATER MONITORING AND SAMPLING DATA FORMER TEXACO STATION CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET LIVERMORE, CALIFORNIA

					HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY		
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	Nitrate Nitrogen	Sulfate	Ferrous Iron
	Units	ft	ft	ft-amsl	µg/L	μg/L	μg/L	µg/L	μg/L	μg/L	µg/L	μg/L	μg/L	μg/L

E = Ethylbenzene

X = Xylene

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit</p>

- TOC elevations were surveyed on April 19, 2010 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations
- 1 Well development performed.
- 2 Second quarter 2011 resampling event because MW-5 and MW-7 bottles for TPHg and BTEX analysis were switched during the original 6/6/2011 sampling event.

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

June 13, 2011 G-R #385876

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 Chevron Service Station

#307233

2259 First Street Livermore, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Quarter Event of June 6, 2011

COMMENTS:

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

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

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

WELL CONDITION STATUS SHEET

Client/Facility #:	Chevron #307233	Job #:	385876
Site Address:	2259 First Street	Event Date:	6-6-11
City:	Livermore, CA	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
nw-1	0.1						->	2	2	12" EMCO /2	No
mw-2	0.10						->		ή	<i>''</i>)
mw-3	0.K						->			6" Morrison 2	
MW-d	0.K						->			1,	
mw-5	0.10	-					>			12" EMCO /2	
mw-6	0.K						>			6" Marrison/2	
mw-7	0.10						>			•	
MW-8	0.10					i)		1/		12" EMCO/2	
MW-9	0.1	-					\longrightarrow	V	V	6" morrison/2	
									1		
			v g ==								

Comments						
			 -	 		
-		-	 		 	

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

Client/Facility#:	Chevron #3	07233		Job Number:	385876		
Site Address:	2259 First S	Street		Event Date:	6.6	-11	– (inclusive)
City:	Livermore,						_ (IIICiusive)
				Sampler:	FT		_
Well ID	MW- L			Date Monitored:	6.6	-11	
Well Diameter	2 i	n.					
Total Depth	58.80	<u> </u>	Volum Factor			2"= 0.17 3"= 0.3 6"= 1.50 12"= 5.8	
Depth to Water			ـــــــا Check if water colum	n is less then 0.5			
	31.70	xVF ,				Volume: 16.a	
Depth to Water		_	Water Column x 0.20)	DTWI: 23.40	Latimated rurge	voidifie. 10-0	gai.
	9	- Kunaigura	- Tatol Goldmin X 0.20)		Time Start	nd:	(0400 t
Purge Equipment:		\$	Sampling Equipment:		Time Com		(2400 hrs) (2400 hrs)
Disposable Bailer			Disposable Bailer		Depth to P		ft
Stainless Steel Baile		F	Pressure Bailer		Depth to W	/ater: on Thickness:	ft
Stack Pump			Discrete Bailer		Visual Con	firmation/Description	<u>π</u> :
Suction Pump		F	Peristaltic Pump				
Grundfos		C	QED Bladder Pump		Amt Remov	Absorbant Sock (circ	ie one)
Peristaltic Pump		C	Other:		Amt Remov	ved from Well:	gal
QED Bladder Pump					Water Rem	oved: ansferred to:	
Other:					T TOUGE IT	insterred to	
Start Time (purge	·		Weather Cor	nditions:	CLOUD	4	
Sample Time/Da	te: 1030 / 0	6.6.11	Water Color:	CLEAN	Odor: Y / 🕦	7,	
Approx. Flow Rat	le: <u>2, a</u>	_gpm.	Sediment De	scription:	Ne	NF	
Did well de-water	? NO 1	f yes, Time	: Volur	ne:	gal. DTW @ 5		0,56
Time			Complexativity	T	5.0	_	
(2400 hr.)	Volume (gai.)	рH	Conductivity (µmhos/cm - µS)	Temperature	D.O. (mg/L)	ORP (mV)	
1002		0				` ,	
	下に	יוי			[
	5.5	7.27	514	18.4	PRE: [. C	PRE: (10	
1004	11.0	7.24	522	18.6	PRE: [, C	PRE: (10	·
					PRE: [, C	PRE: (10	• •
1004	11.0		522	18.6	PRE: [.C	PRE: (10	- - -
1004	11.0	7.24	533 531	18.6	PRE: [, C	PRE: (10	
1004	(#) CONTAINER	7.24 1-2\ REFRIG.	533 531 LABORATORY IN PRESERV. TYPE	18.6		PRE: ((O	
1004	(#) CONTAINER x voa vial	7.24 7.2\ REFRIG. YES	533 531 LABORATORY IN PRESERV. TYPE	FORMATION LABORATORY LANCASTER	TPH-GRO(8015)	ANALYSES /BTEX(8260)	
1004	(#) CONTAINER w x voa vial x 500ml ambers	7.24 7.21 REFRIG. YES YES	LABORATORY IN PRESERV. TYPE HCL NP	FORMATION LABORATORY LANCASTER LANCASTER	TPH-GRO(8015)	ANALYSES /BTEX(8260) (8015)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
1004	(#) CONTAINER w x voa vial x 500ml ambers	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP	FORMATION LABORATORY LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
1004	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
SAMPLE ID MW-\	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
SAMPLE ID MW-\	(#) CONTAINER X voa vial X × 500ml ambers X voa vial	7.24 7.21 REFRIG. YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) ITE EPA 300.0)	
SAMPLE ID MW-\	(#) CONTAINER © x voa vial 2 x 500ml ambers 2 x voa vial x 250ml ambers	REFRIG. YES YES YES YES	LABORATORY IN PRESERV. TYPE HCL NP NP	FORMATION LABORATORY LANCASTER LANCASTER LANCASTER	TPH-GRO(8015) TPH-DRO w/sgc NITRATE/SULFA	ANALYSES /BTEX(8260) (8015) TE EPA 300.0) (SM20 3500 Fe B)	



Client/Facility#:	Chevron #3	07233		Job	Number:	385876		
Site Address:	2259 First S	treet		Eve	ent Date:	6-6	11	(inclusive)
City:	Livermore,	CA		Sar	npler:	Fr		
Well ID	MW- 2			Data I	Annikanadı			
Well Diameter		<u>ച</u> Դ.		Date N	fonitored:	<u>6.</u>	6.11	
Total Depth		t.		Volume Factor (VF)	3/4"= 0.03 4"= 0.66		2"= 0.17 3"= 0.3 6"= 1.50 12"= 5.4	
Depth to Water	27.73	_	Check if water	L			6"= 1.50 12"= 5.8	<u> </u>
Dopair to viator	30.89	Jacomeso C					e Volume: 160	
Depth to Water	w/ 80% Recharg						e volume	gar.
Purge Equipment:			Samulina Envis			Time Sta		(2400 hrs)
Disposable Bailer			Sampling Equip				npleted: Product:	
Stainless Steel Baile			Disposable Baile Pressure Bailer			Depth to	Water:	ft_
Stack Pump			Discrete Bailer			Hydrocar	bon Thickness:	ft
Suction Pump			Peristaltic Pump				nfirmation/Description	
Grundfos			ED Bladder Pu			Skimmer	/ Absorbant Sock (cir	rcle one)
Peristaltic Pump		C	Other:			Amt Rem	oved from Skimmer: oved from Well:	gal
QED Bladder Pump						Water Re	m6ved:	941
Other:						Product 1	ransferred to:	
Charl Time (0.000							
Start Time (purge		3 4		er Condition		CLO		
Sample Time/Da				Color:		Odor: Y /		
Approx. Flow Rat	******	_gpm.		ent Descript	_	Ne		
Did well de-water	? No 1	yes, Time	:	Volume:	9	gal. DTW @	Sampling:	18.56
Time	Volume (gal.)	рН	Conductivit		perature	D.O.	ORP	
(2400 hr.)	voidine (gui.)	pii	(µmhos/cm -	μS) (©)/ F)	(mg/L)	(mV)	
0803	5.5	7.36	267	18	.7	PRE: 2.0	PRE: 95	_
0806	11.0	7.33	570		.0		_	_
0810	16.0	7.30	578		.3		_	_
								-
04451515	(#) 0011741117		LABORATO					
SAMPLE ID	(#) CONTAINER x voa vial	REFRIG. YES	PRESERV.		ORATORY	TDU CROVOOL	ANALYSES	
10100-) x 500ml ambers	YES	HCL NP		ICASTER ICASTER	TPH-GRO(801 TPH-DRO w/sg	· · · · ·	
	2 x voa vial		NP				ATE EPA 300.0)	
	x 250ml ambers	YES	HCL		ICASTER		N (SM20 3500 Fe B)	
							· · · · · · · · · · · · · · · · · · ·	
COMMENTS:								
					<u> </u>			
								
Add/Replaced L	ock:	الماما	Popless - Di			Adde	10-1	
Aud/ActidCed L	.UUR	Aad/	Replaced Plu	ug.		Add/Replace	ea Boit:	



Client/Facility#: Site Address: City:	Chevron #307: 2259 First Stre Livermore, CA	et		Job Number: Event Date: Sampler:	385876 6.6.1	1	- _(inclusive) -
Well ID Well Diameter Total Depth Depth to Water Depth to Water	*	VF	Volume Factor eck if water column	(VF) 4"= 0.66 n is less then 0.50 x3 case volume =	5 5"= 1.02 6": Oft. Estimated Purge V	'= 0.17 3"= 0.38 = 1.50 12"= 5.80 olume:	
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:		Disp Pres Disc Peri QEI	npling Equipment: posable Bailer ssure Bailer crete Bailer istaltic Pump D Bladder Pump er:		Time Completion Depth to Property To War Hydrocarbon Visual Confin Skimmer / At Amt Remove	eted:	(2400 hrs) ft ft ft ft ge one) gal
Start Time (purg Sample Time/Da Approx. Flow Ra Did well de-wate	ate: 1120 /6.0 ate: 2.0 g	pm. es, Time: _	Weather Con Water Color: Sediment De Volun	CLEAN scription:	Cとのい Odor: Y Iの Nのと gai. DTW @ Sa	E	0.25
Time (2400 hr.)	Volume (gal.) 5.5 11.0 16.0	pH .40 237	Conductivity (µmhos/cm - µS) 434 440 449	Temperature (@/ F) 18.9 19.1	D.O. (mg/L) PRE: 2.2	ORP (mV) PRE: 62	
· · · · · · · · · · · · · · · · · · ·		1 /	ABOBATORY IN	FORMATION			
SAMPLE ID MW- 3	(#) CONTAINER 6 x voa vial 2 x 500ml ambers 2 x voa vial x 250ml ambers	YES YES YES YES YES	ABORATORY IN PRESERV. TYPE HCL NP NP HCL	LANCASTER LANCASTER LANCASTER LANCASTER LANCASTER LANCASTER	TPH-GRO(8015)/E TPH-DRO w/sgc (i NITRATE/SULFAT FERROUS IRON (B015) E EPA 300.0)	
COMMENTS:							
Add/Replaced	Lock:	Add/R	eplaced Plug:		Add/Replaced	Bolt:	



Client/Facility#	Chevron #3	07233		Job Number:	385876		
Site Address:	2259 First S	treet		Event Date:	6-6-1	1	– (inclusive)
City:	Livermore,	CA		Sampler:			_ ()
Well ID	MW- 4			Date Monitored:	6-6-1	1	
Well Diameter	2 i	 n.	Volum	me 3/4"= 0.0			
Total Depth	58.90 f	 t.		or (VF) 4"= 0.6		'= 0.17 3"= 0.38 = 1.50 12"= 5.80	
Depth to Water	28.52 ff		Check if water colun	nn is less then 0.5	O ft.		
	30.38		17 = 5.16			olume: 15.5	oal.
Depth to Water	w/ 80% Recharg	ー € [(Height of \	Nater Column x 0.20)	+DTWJ: 34.5	9		_ 90
					Time Started	:	(2400 hrs)
Purge Equipment:			ampling Equipment:	:		ted:	(2400 hrs)
Disposable Bailer			isposable Bailer		Depth to Wat	duct:	ft
Stainless Steel Baile			ressure Bailer			Thickness: /	
Stack Pump			Discrete Bailer			nation/Description	
Suction Pump Grundfos			eristaltic Pump		Skimmer / Ah	sorbant Sook (circ	le one)
Peristaltic Pump	*		ED Bladder Pump		Amt Removed	d from Skirnmer:	gal
QED Bladder Pump		·	ther:		Amt Removed Water Remov	d from W/ell:	gal
Other:						sferred to:	
	ate: 0900 1 ate: 2-2.5	gpm.	Weather Co Water Color Sediment De O 8 2-6 Volu Conductivity (µmhos/cm - µS) 698 720	: <u>leac</u> escription:	Odor: Y / ND none gal. DTW @ Sa D.O. (mg/L) PRE: / · 6		
20	11	<u> </u>				-	
SAMPLE ID	(#) CONTAINER	REFRIG.	LABORATORY IN PRESERV. TYPE	IFORMATION LABORATORY		ANALYSES	
MW- 4	& x voa vial		HCL	LANCASTER	TPH-GRO(8015)/B		
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8		
	🕶 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATI		
	/ x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (S	M20 3500 Fe B)	
				 			
COMMENTS:							
		 .					<u> </u>
Add/Replaced I	Lock:	Add/	Replaced Plug: _		Add/Replaced I	3olt:	

Client/Facility#:	Chevron #3	07233		Job Numbei	: 385876		
Site Address:	2259 First S	treet		Event Date:	6-6-	/ /	– (inclusive)
City:	Livermore, 6	CA		Sampler:	Joe		_(
							-
Well ID	MW-5	_		Date Monitored	1: <u>G</u> -G-	1(
Well Diameter	2 ir	<u>ı.</u>	Volu	me 3/4"= 0	.02 1"= 0.04	2"= 0.17 3"= 0.38	
Total Depth	58.85 ft		i	or (VF) 4"= 0		6"= 1.50 12"= 5.80	
Depth to Water	27.71 ft		Check if water colu	nn is less then 0.	50 ft.		
	31.14	_xVF <u>~</u>	17 = 5.20	🧷 x3 case volume	= Estimated Purge	Volume: 16	_ gal.
Depth to Water v	w/ 80% Recharge		Water Column x 0.20)				
Purge Equipment:			Sampling Equipment		Time Start		(2400 hrs)
Disposable Bailer			Sampling Equipment	/	Time Com Depth to P		(2400 hrs)
Stainless Steel Bailer	. ———		Disposable Bailer Pressure Bailer		Depth to W		ft
Stack Pump			Discrete Bailer		Hydrocarbo	on Thickness:	ft
Suction Pump			Peristaltic Pump		Visual Con	firmation/Description	
Grundfos			QED Bladder Pump		Skimmer /	Absorbant Sock (circ	e one)
Peristaltic Pump			Other:		Amt Remo	ved from Skimmer:	gal
QED Bladder Pump					Water Rem	ved from Well:	gal
Other:						ansferred to:	
					<u> </u>		
Start Time (purge	1057-		Weather Co	anditions:	cloudy		
Sample Time/Dat	he: 1/3 m /	1 ()1			Odor: Y / N		
				: <u>clear</u>	_		
Approx. Flow Rat		gpm.	Sediment D	· · · · · -	none		
Did well de-water	? <u></u> If	yes, Time	:Volu	me:	_gal. DTW @ \$	Sampling:2	7.42
Time	Volume (gal.)	Hq	Conductivity	Temperature	D.O.	ORP	
(2400 hr.)	voidine (gai.)	pri	(μmhos/cm - μS))	(7 5 / F)	(mg/L)	(mV)	
1100		7.25	815	16.6	PRE: 1.8	PRE: 36	
1108	10	7.32	806	16.4			
	16	7.38	797	16.7			
			1.4000450004				
SAMPLE ID	(#) CONTAINER	REFRIG.	LABORATORY II PRESERV. TYPE		<i>,</i> [ANALYSES	
MW- \$	x voa vial	YES	HCL	LANCASTER			
	2x 500ml ambers	YES	NP	LANCASTER			
	ィ x voa vial	YES	NP	LANCASTER	NITRATE/SULFA	<u> </u>	
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON	(SM20 3500 Fe B)	
	`						
-							
				 	+		
				—			
COMMENTS:							
COMMENTS: _			·				
			······································				··



Client/Facility#:	Chevron #3	07233		Job N	lumber:	385876		
Site Address:	2259 First S	treet		Even	t Date:	6-6	- 11	(inclusive)
City:	Livermore,	CA		 Samp	oler:		11	
Well ID	MW-6	_		Date Mo	nitored:	6-6-	- 11	
Well Diameter	2 ir	<u>า.</u>	ΓV	olume	3/4"= 0.0	2 1"= 0.04	2"= 0.17 3"= 0.3	
Total Depth	58.97 ft			actor (VF)	4"= 0.6		6"= 1.50 12"= 5.8	
Depth to Water	28.08 ft		Check if water co	olumn is less	then 0.56	0 ft.		
	30.89	xVF <u>ه ،</u>	17 = 5.2	<u>)</u> x3 case	e volume =	Estimated Purge	Volume: 16	gal.
Depth to Water	w/ 80% Recharge	e [(Height of \	Water Column x 0.	20) + DTW]: _	34.2	5		
Purge Equipment:		•	amplina Equipm	omt:		Time Stan		(2400 hrs)
Disposable Bailer			ampling Equipm Disposable Bailer	ent:		Time Com Depth to F	pietea: Product:	(2,400 hrs)
Stainless Steel Baile			ressure Bailer	-		Depth to V	Vater:	ft
Stack Pump			iscrete Bailer			Hydrocarb	on Thickness:nfirmation/Description	ft
Suction Pump			eristaltic Pump				/	
Grundfos		Q	ED Bladder Pump			Skimmer /	Absorbant Sock (cir	cle one)
Peristaltic Pump		0	ther:			Amt Remo	ved from Well:	gai
QED Bladder Pump						Water Ren	noved: ansferred to:	
Other:						Froductiff	ansieneu to	
Approx. Flow Ra Did well de-wate Time (2400 hr.) @917 @920 @928		gpm.		Tempe (0 / 7	rature	gal. DTW @ D.O. (mg/L) PRE: 1.7	Sampling: 29. ORP (mV) PRE: 72	
			LABORATORY	/ INFORMA	TION			
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TY	PE LABO	RATORY	<u> </u>	ANALYSES	
MVV- G	2x 500ml ambers	YES YES	HCL NP		ASTER	TPH-GRO(8015		¥:
	x voa vial	YES	NP NP		ASTER ASTER	TPH-DRO w/sgo NITRATE/SULF		
	/ x 250ml ambers	YES	HCL		ASTER		N (SM20 3500 Fe B)	
COMMENTS:								
								
A 44 (D) - 1 1 1								
Add/Replaced L		Add/l	Replaced Plug	•		Add/Replace	d Bolt:	



Client/Facility#:	Chevron #3	07233		Job Number	: 385876	
Site Address:	2259 First S	treet		Event Date:	6-6-11	(inclusive)
City:	Livermore, (CA		Sampler:	Jor	(moldaive)
Well ID	MW-7_	_		Date Monitored	1: _6-6-11	
Well Diameter	2 ir	<u>).</u>	[\bar{\chi}	/olume 3/4"= 0	.02 1"= 0.04 2"= 0.17	3"= 0.38
Total Depth	32.83 ft	<u> </u>		actor (VF) 4"= 0		12"= 5.80
Depth to Water	24.12 ft	anar-road		olumn is less then 0.		
	8.7/				= Estimated Purge Volume:_	4 · 5 gal.
Depth to Water v	w/ 80% Recharge	(Height of	Water Column x 0	.20) + DTWJ: <u>25, 2</u>	36	
Purge Equipment:		,	Sampling Equipm	ent:	Time Started: Time Completed:	(2400 hrs) (2400 hrs)
Disposable Bailer			Disposable Bailer		Depth to Product:	(2400 fits)
Stainless Steel Bailer			Pressure Bailer	<u>-</u>	Depth to Water:	ft
Stack Pump		i	Discrete Bailer		Hydrocarbon Thicknet Visual Confirmation/E	
Suction Pump		ı	Peristaltic Pump			' / "
Grundfos		(QED Bladder Pump)	Skimmer / Absorbant Amt Removed from S	
Peristaltic Pump		(Other:		Amt Removed from V	
QED Bladder Pump					Water Removed:	
Other:					Product Transferred t	0:
Start Time (purge			Weather	Conditions:	cloudy	
Sample Time/Dat	te: 1215 16	-6-11	Water Co	olor: <u>light yell</u>	Odor: O) N Ve	ry strong
Approx. Flow Rat	e:	gpm.		t Description:	none	
Did well de-water	?If	yes, Time	e:V	olume:	gal. DTW @ Sampling	1: 25.04
Time			Conductivity	Temperature	D.O.	ORP
(2400 hr.)	Volume (gal.)	pН	(µmhos/cm -		, ,,,	(mV)
1150	1.5	6.59	496	16.2	PRE: 0.2 PRE:	-49
1155	3	6.62	487	16-7		
1202	4.)	6.67	481	16.4		
			LABORATOR	Y INFORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TY	PE LABORATORY	ANALY	SES
MW- 7	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(82	60)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)	
<u> </u>	v x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 3	
	/ x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 35	500 Fe B)
			 			
COMMENTS: _	Sheen in	San	upled w	ater.		
			U			
Add/Replaced Lo	ock:	Add	Replaced Plug	ı:	Add/Replaced Bolt:	



Client/Facility#:	Chevron #307	233	Job Num	ber: 385876		
Site Address:	2259 First Stre	eet	Event Da	te: 6-6	(inclusive	e)
City:	Livermore, CA		Sampler:	FC		٥,
O.l.y.	21101111010, 07		Campler.	F[
Well ID	MW-8		Date Monito	red: 6 - 6	2.11	
Well Diameter	2 in.					
Total Depth	39.40 ft.			"= 0.02 1"= 0.04 "= 0.66 5"= 1.02	2"= 0.17 3"= 0.38 6"= 1.50 12"= 5.80	
Depth to Water		Check if wat	er column is less the	n 0.50 ft.		
			x3 case vol		e Volume: 6 9 gal.	
Depth to Water	w/ 80% Recharge [(9a.	====
				Time Sta	rted:(2400 h	nrs)
Purge Equipment:		Sampling Equ	uipment:	Time Co	npleted:(2400 I	hrs)
Disposable Bailer		Disposable Ba	iler			_ft
Stainless Steel Baile	er <u> </u>	Pressure Baile	er	Depth to		_ft ft
Stack Pump		Discrete Bailer		Visual Co	on mickness.	.11
Suction Pump		Peristaltic Pun	1p			_
Grundfos		QED Bladder I	Pump		/ Abserbant Sock (circle one) oved from Skimmer:	aal
Peristaltic Pump		Other:			(yaı gal
QED Bladder Pump				Water Re	moved:	,
Other:				Product 7	ransferred to:	_
Start Time (purg	e): 09.0 0	Wea	ther Conditions:	(1.5	UD4	
	ate: 0940 16.		er Color: 47 - Gu			
					110-0-1	_
Approx. Flow Ra			ment Description:		SILLY	
Did well de-wate	er? <u>Do</u> If ye	es, Time:	Volume:	gal. DTW @	Sampling: <u>18 lo</u>	_
Time		Conduct	tivity Temperatu	re D.O.	ORP	
(2400 hr.)	Volume (gal.)	pH (µmhos/cn			(mV)	
0906	2.0	1.10 45	2 18.6	PRE: , 90	PRE: - TS	
0912	4.0 7	06 46	18.9	1112.770	1100	
6918	6.0 7	03 470				
5-110	1	.625	19.0			
		LABORAT	ORY INFORMATION	ON		
SAMPLE ID		REFRIG. PRESER			ANALYSES	\neg
MW- 8	6 x voa vial	YES HO	LANCAS		5)/BTEX(8260)	
	💃 x 500ml ambers	YES N				
	2 x voa vial	YES N	P LANCAST	ER NITRATE/SUL	FATE EPA 300.0)	
	x 250ml ambers	YES HO	L LANCAST	ER FERROUS IR	ON (SM20 3500 Fe B)	
						\Box
						_
-						\dashv
						\dashv
		I		I		
COMMENTS:						
A 4 4 (D : 1	Laste	A 1 1/5	D.			_
Add/Replaced	LOCK:	Add/Replaced	Plug:	Add/Replac	ed Bolt:	

Client/Facility#: Site Address: City:	Chevron #30 2259 First S Livermore, 0	treet		Job Number: Event Date: Sampler:		//	_ _(inclusive) _
Well ID Well Diameter Total Depth Depth to Water	MW-9 2 ir 39.65 ft 24.67 ft 14.98	xvF0	Volum Facto Check if water colum 7 = 2.55	r (VF) 4"= 0.6 an is less then 0.5 x3 case volume =	02 1"= 0.04 56 5"= 1.02 6 0 ft. = Estimated Purge	2"= 0.17 3"= 0.38 5"= 1.50 12"= 5.80	
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:		s D P D P	Nater Column x 0.20) ampling Equipment: bisposable Bailer ressure Bailer biscrete Bailer eristaltic Pump ED Bladder Pump ther:	+ DTWJ: 2 7.6	Time Starte Time Comp Depth to Pr Depth to Wa Hydrocarbo Visual Confi Skimmer / A Amt Remov Amt Remov Water Remov	leted: oduct: ater: n Thickness: irmation/Description: bsorbant Sock (circled from Slammer: ed from Well:	e one)
Start Time (purge Sample Time/Da Approx. Flow Ra Did well de-water Time (2400 hr.)	te: <u>/03o /</u>	gpm. yes, Time: pH 7.31 7.36 7.32	Sediment De	clear escription:	Odor: Y / W J OYL gal. DTW @ S D.O. (mg/L) PRE: / 9	ORP (mV) PRE: 78	5.24
			ABORATORY IN	FORMATION			
SAMPLE ID MW- 0	(#) CONTAINER x voa vial x 500ml ambers x voa vial x 250ml ambers	REFRIG. YES YES YES YES YES	PRESERV. TYPE HCL NP NP HCL	LABORATORY LANCASTER LANCASTER LANCASTER LANCASTER	TPH-GRO(8015)/ TPH-DRO w/sgc (NITRATE/SULFA FERROUS IRON	(8015)	
COMMENTS:							
Add/Replaced L	ock:	Add/	Replaced Plug		Add/Replaced	Rolt:	

Chevron California Region Analysis Request/Chain of Custody

For Lancaster Laboratories use only



Laboratories					4	Acct.	#:				Sam	ple i	#						Group #:_	UUL	410
•: Laboratories											A	naly	/ses	Req	ues	ted					
Facility #: SS#307233-OML G-R#38587	6 Global ID	#T0600196	622	T	Matri	x					P	res	erva	tion	Cod	es			Preserv	ative Co	des
Site Address: 2259 FIRST STREET, LIVERN	MORE, CA							+	1	dn						+			H = HCI N = HNO ₃	T = Thic B = Nac	HC
Consultant/Office: G-R, Inc., 6747 Sierra Cou	Consultant:	CRADG	Grur	na			ဖြ			Cleanup									S = H ₂ SO ₄		-
Consultant/Office: ————————————————————————————————————	irt, Suite J, L	Jublin, CA	9456	8	Potable	3	aine	8021	11	8									☐ J value repo		
Consultant Prj. Mgr.:	eanna@grind	c.com)	12.		8 2		Containers] 802		Silica				1					Must meet to possible for		
Consultant Phone #:925-551-7555	_ Fax #: 925	-551-7899				4	4	B260≯[7]	စ္က	쳃			Method	Method					8021 MTBE Co	nfirmation	
Sampler: JOE ADEMIAN /FT				0			per		D G	00 01		nates	Me				1		☐ Confirm high	est hit by	3260
100						Air	N	異	15 MC	15 MC	scan	Oxygenates	BG	dLea				1	Confirm all h		
Sample Identification	Date Collected	Time Collected	Grab	Composite	Water	O. I.O.	Total Number	BTEX-autofiBE	TPH 8015 MOD GRO	TPH 8015 MOD DROX	8260 full scan		Total Lead	Dissolved Lead					Run ox		
Q.A.	Sangara and a second	- Table of the Control of the Contro	1		1		2	1	1/										Comments /	Remarks	
VAIV-1	6-6-11	1030	1		4		8	/	V	1/			ightharpoonup								
paul-2		0830	1	\perp	1	_	8	V	V :	~		_	\dashv	_	\perp		1				
MW-3		1120		+		1000	8	~	/	4		_	-	_	1000	+	_		Please forwa		
MW-21		0900		╀		+	8	~	V	4			\dashv	-	+	-		-		cc: G-R	Sultain
MU. 5		0943	+	+			8	-	1	\times	\dashv	+	+			+	+	+			
100 W - 7		1215					8	Ž	/	V		_	_	1	+		+				
MW-8		0940					Q	√	\checkmark	\checkmark											
NW-9	V	1030	V	+	V		8	1	/	/		_			_	\perp	1	\perp	To all the		- 4
				-	-	\vdash						-		-	-	+	17	-	- 1 N		
				+			*				\dashv	-	+		+	100	-	+	_		
Turnaround Time Requested (TAT) (please cire	cle)	Relinquis	shed b	y:							Date	Ti	me	Red	ceive	d by:				Date	Time
STD. TAT 72 hour 48 hour 24-hour 4 day 5 day		Relinquis	shed by	y:						67	Date	Ti	me	Red	ceive	d by:	W			Date	Time
Data Package Options (please circle if required)		Relinquis	shed by	y:						0	Date	Ti	me	Red	ceive	d by:				Date	Time
	EDF/EDD led	Relinquis		y Com			rrier: Other							Red	ceive	d by:			w i	Date	Time
Disk		Tempera	ture U	pon R	eceipt						1 1		_ C°	Cus	stody	Seal	ls In	tact?	Yes No		

Chevron California Region Analysis Request/Chain of Custody

For Lancaster Laboratories use only



Laboratories						Acct.	#:				Sam	ple #	<u> </u>							Group #	006	5409
v. Laboratories														Req		3655				1		
Facility #: SS#307233-OML G-R#38587	6 Global ID	#T0600196	5622		Matri	x				a W	Pi	rese	rva	tion	Co	des			_	Prese	vative Co	des
Site Address 2259 FIRST STREET, LIVERN								\vdash		۵		+			_	#(8			-	H = HCI N = HNO ₃	T = Thi B = Na	osulfate
		CRADG	Grun	a	1					Gel Cleanup			Ш		0.0	17.				S = H ₂ SO ₄		
Chevron PM: TB Lead Consultant/Office: G-R, Inc., 6747 Sierra Cou	irt, Suite J, I	Dublin, CA	94568		ble on	2	Containers			Gel C					30	200				☐ J value rep	orting need	ed
Consultant Prj. Mgr.: Deanna L. Harding (de	eanna@grin	c.com)			□ Potable		ntai	8021		Silica					30	0				Must meet	lowest dete	
Consultant Phone #:925-551-7555							S	0					8	pod thou	7	120				8021 MTBE (
				1			er c	8260	GR(O DRO		ates	Method	Me	10	3				☐ Confirm hig		
Sampler: JOE AJEMIAN/F	-		1 3		8	Air	lum	MTBE	5 MOI	5 MOI	scan	Oxygenates	P	Leac	2 d	32				☐ Confirm all		
	Date	Time	Grab	<u> </u>	Water		Total Number of	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	6	Total Lead	Dissolved Lead Method	5	ング				☐ Run (
Sample Identification	Collected	Collected	क ट	Soil	3	ō	2	BTI	直	直	828	1	흔	OS:	2	LL.				☐ Run o	-	
MW-1	6.6-11	1030	4	+			3			\dashv	_	+	+		V	V				Comments	/ Remarks	3
Ww-3		0830	1		+ +	+	3			-	+	\dashv	-	-	<u> </u>	V						- x 1
MW-4		0900					3					1			Ĭ	/				Please forv	med the tale	unnulta.
MW.5		1130					3									1				directly to ti	ne Lead Co	
MW-6		0943					3							,	~	V				` an	d cc: G-R.	
		1215				\sqcup	3			_					\vee	√		_	ļ			ol I
MW-8	. //	0940	//	-	1	-	3	Н	\square		+	+		-	Y	V	Ш		-			
MW-9	V	1030		+	T.	1	.3					+		+	'	V	-					
												-		+	Ш		·					
															1344			,				1
Turnaround Time Requested (TAT) (please cir	cle)	Relinqu	Ished by)	_				100	6-11		me	Re	ceiv	ved b	y:				Date	Time
72 hour 48 hour 44 hour 4 day 5 day		Relingu	Ished by	r: (7	20					ate		me	Re	ceiv	ved b	ov:				Date	Time
24 Hour 4 day 5 day	1770-2									-												
Data Package Options (please circle if required)	11.55.000	Helinqu	ished by	<i>/</i> :						D	ate	Ti	me	Re	ceiv	ved b	y:				Date	Time
QC Summary Type I - Full	EDF/EDD	Relinqu	Ished by	Com	merci	al Cai	rrier:		112		II ii	-		Re	ceiv	ved b	y:				Date	Time
Type VI (Raw Data)	ded	UPS		FedEx	Mary .		Other		1100				_									
Disk		Temper	ature U	oon R	eceipt		982					VA.	_ C°	Cu	sto	dy Se	als	Intac	ct?	Yes No		
	100	-		200			-		-			-		_	-				-		-	



TRANSMITTAL

July 1, 2011 G-R #385876

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 Chevron Service Station

#307233

2259 First Street

Livermore, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Special Event of June 22, 2011

COMMENTS:

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

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

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

WELL CONDITION STATUS SHEET

Client/Facility #: Site Address: City:		st Street					Job #: Event Date: Sampler:	385876 6 HA1	120	L/II EVORK	-
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-5	OK -						-> OK	N	N	EMC0-124 /2	No
MW-7	oK-	- 4					-> 0 K	N	N	MORRISON - 7" /2	NO
		Ш									
								1			
									(0)		
Comments											

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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



Client/Facility#: Chevron #3	07233	Job Number:	385876
Site Address: 2259 First S	Street	Event Date:	6 / 22 / 11 (inclusive)
City: Livermore,	CA	Sampler:	HAIG K,
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump	Voluments or (VF) 4"= 0.66 nn is less then 0.50 x3 case volume = + DTWJ:	oft. Estimated Purge Volume:	
Other:			Water Removed:gal
Start Time (purge): 05 Sample Time/Date: 200 / Approx. Flow Rate: Did well de-water? Time (2400 hr.) 1118 5 10 15	gpm. Sediment D If yes, Time:Volu PH Conductivity (µmhos/cm - µ3) 1 5 4 5 4 5 4	r: CLEAR escription: Ime: Temperature (C) F) 24.1 24.3	Odor: Y /N
	LABORATORY I		
SAMPLE ID (#) CONTAINER MW- 5		LABORATORY LANCASTER	TPH-GRO(8015)/BTEX(8260)
COMMENTS:			
Add/Replaced Lock:	Add/Replaced Plug		Add/Replaced Rolf:



Client/Facility#: Chevron #307233	Job Number:	385876
Site Address: 2259 First Street	Event Date:	6 / 2 2 / 1\ (inclusive)
City: Livermore, CA	- Sampler:	HAIG K.
Well ID MW- 17	Date Monitored:	6/22/11
Well Diameter 2	ume 3/4"= 0.02	1"= 0.04 2"= 0.17 3"= 0.38
Total Depth 32.83 ft.	tor (VF) 4"= 0.66	
	ımn is less then 0.50	ft.
6.10 xVF 0.17 =		Estimated Purge Volume: gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20)) + DTW]: <u>よし</u>	Time Started: (2400 hrs)
Purge Equipment: Sampling Equipmen	nt:	Time Completed: (2400 hrs)
Disposable Bailer Disposable Bailer	1/	Depth to Product:ft
Stainless Steel Bailer Pressure Bailer		Depth to Water:ft
Stack Pump Metal Filters		Hydrocarbon Thickness: ft
Suction Pump Peristaltic Pump		Visual Confirmation/Description:
Grundfos QED Bladder Pump		Skimmer / Absorbant Sock (circle one)
Peristaltic Pump Other:		Amt Removed from Skimmer: gal
QED Bladder Pump Other:		Amt Removed from Well: gal Water Removed:
Other.		vvater Removed.
Start Time (purge): 1223 Weather 0	Sanditions.	SUNNY
<u> </u>		
Sample Time/Date: 245 / 6/22 / Water Col	or: CLEAR	Udory til N S I I U IV 19-
Ammery Flow Date:		
	Description:	
Approx. Flow Rate:gpm. Sediment Did well de-water?Vo	Description:	
Did well de-water?	Description:	gal. DTW @ Sampling: 27, 31
Did well de-water?	Description:	gal. DTW @ Sampling: 27,31
Did well de-water?	Description:	gal. DTW @ Sampling:
Did well de-water?	Description:	gal. DTW @ Sampling:
Did well de-water?	Description:	gal. DTW @ Sampling:
Did well de-water?	Description:	gal. DTW @ Sampling: 27, 31
Did well de-water?	Description: Jume: Temperature (C) F) 24.5	gal. DTW @ Sampling: 27, 31
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water?	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water?	Description: lume:	gal. DTW @ Sampling:
Did well de-water?	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) 103 103 LABORATORY SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (pmhos/om - ps) A 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Description: lume:	gal. DTW @ Sampling:
Did well de-water? Time (2400 hr.) Volume (gal.) PH (conductivity (µmhos/om - µ3) 1229 1333 Conductivity (µmhos/om - µ3) PH 05 Description: lume:	gal. DTW @ Sampling:	

Chevron California Region Analysis Request/Chain of Custody

For Lancaster Laboratories use only



Laboratories					Acct. #: Sample # Group #: Group #:									474						
V. Laboratories										alyse	200		1774							
Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622				Matrix		Preserva						tion Codes				Preservative Codes				
Site Address: 2259 FIRST STREET, LIVERMORE, CA							H	٥			+		-				H = HCI N = HNO		T = Thice	sulfate
Chevron PM: TB Lead Consultant: CRAHK Hoey G-R, Inc., 6747 Sierra Court, Suite J. Dublin, CA 94568								Silica Gel Cleanup									S = H ₂ SC			
G-R, Inc., 6747 Sierra Court, Suite	J. Dublin, CA 9	94568		Potable NPDES	inen	Ē	3	Gel (☐ J value i		•	
Consultant/Office: Deanna L. Harding (deanna@g Consultant Prj. Mgr.:	grinc.com)	= ,74		Pot I	onta	1 802		Silica									☐ Must me possible		est detec 60 comp	
Consultant Phone #:925-551-7555 Fax #: 925-551-7899					of o	BE 8260 € 8021 □		PH 8015 MOD DRO □		Method	3	ad Method				8021 MTBE Confirmation Confirm highest hit by 8260				
2 11010 1/2			er Air	ige.	Oxygenates					-										
Soci					Oil ☐ Air Total Number of Containers	44 MTBE	015 N	015 M	8260 full scan	Oxyg	2000	Dissolved Lead					☐ Confirm all hits by 8260 ☐ Run oxy's on highest hit			
Sample Identification Date Collecte	Time Collected	Grab	Soil	Water	Oii C	BTEX	TPH8	TPH 8	8260	Oxyg		DESCO					☐ Run		_	
- GA 6/22	41	X			2	X	X										Commen	ts / Re	emarks	
MW-5 MW-7	1200	X	-	X	6	X	X		+	-	+	+	-			_				
1V/W= 1/	1245	X -	\vdash	X	- 6	X	×	•	1000	+	-	-				\dashv	Please fo	mand	the lab	in outlier
								\top								\dashv	directly to	the L	ead Con	
																		and cc	: G-R.	
			H		-	-			+	+		+	├-							
		No. Committee	1													-				
				\vdash		-		_	-			-	-	·						
No.						Н		\dashv		11	+-					\dashv				1 4
Turnaround Time Requested (TAT) (please circle)	Relinquis	hed by:	. /	01	00	M	0		ate	Time	•	Rece	ived	by:	_				Date	Time
STD. TAT 72 hour 48 hour Palingulahed by			H	19	S	6/22 Date			1/33/		Received by:			12	J	4/1/5/	- 2	X-1	1330	
24 hour 4 day 5 day		1	1				_ (//	4. 4	Time 130		Hece	ived	by:	7	~		4	29.9/	7300
Type VI (Flaw Data) Liberty Deliverable Not Needed			V	Date Ti				Time	•	Received by:							Date	Time		
			Commercial Carrier:					1	Received by:						Date	Time				
			edEx Other							rissolved by.								11110		
Disk Temperature Upo				n Receipt					C° Custody Sea					eals	Intact'	?	Yes No			

ATTACHMENT B

LABORATORY ANALYTICAL REPORT



Analysis Report

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

ANALYTICAL RESULTS

Prepared by:

Prepared for:

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

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

June 15, 2011

Project: 307233

Submittal Date: 06/07/2011 Group Number: 1250138 PO Number: 0015075227 Release Number: FROHNAPPLE State of Sample Origin: CA

Client Sample Description	<u>Lancaster Labs (LLI) #</u>
MW-1-W-110606 Grab Water	6308008
MW-2-W-110606 Grab Water	6308009
MW-3-W-110606 Grab Water	6308010
MW-4-W-110606 Grab Water	6308011
MW-5-W-110606 Grab Water	6308012
MW-6-W-110606 Grab Water	6308013
MW-7-W-110606 Grab Water	6308014
MW-8-W-110606 Grab Water	6308015
MW-9-W-110606 Grab Water	6308016

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	Conestoga-Rovers & Associates	Attn: David Grunat



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

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

Respectfully Submitted,

Robert Heisey Senior Specialist



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

Page 1 of 1

Sample Description: MW-1-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-1

LLI Sample # WW 6308008 LLI Group # 1250138 Account # 10904

Project Name: 307233

Collected: 06/06/2011 10:30 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	nemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	7,000	250	5
00228	Sulfate		14808-79-8	71,000	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	N.D.	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 16:16	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 16:16	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1



Account

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

Page 1 of 1

Sample Description: MW-2-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-2

LLI Sample # WW 6308009 LLI Group # 1250138

10904

Project Name: 307233

Collected: 06/06/2011 08:30 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Cl	hemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	2,900	250	5
00228	Sulfate		14808-79-8	43,600	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	N.D.	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17:2	7 Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17:2	7 Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B	1	11158834401A	06/07/2011 20:5	O Daniel S Smith	1



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

Page 1 of 1

Sample Description: MW-3-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-3

LLI Group # 1250138 Account # 10904

LLI Sample # WW 6308010

Project Name: 307233

Collected: 06/06/2011 11:20 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	nemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	3,900	250	5
00228	Sulfate		14808-79-8	66,400	1,500	5
		SM20 3500 E	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	17	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17	:41 Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17	:41 Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20	:50 Daniel S Smith	1



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

Page 1 of 1

Sample Description: MW-4-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-4

LLI Sample # WW 6308011 LLI Group # 1250138 Account # 10904

Project Name: 307233

Collected: 06/06/2011 09:00 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	hemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	7,500	250	5
00228	Sulfate		14808-79-8	67,700	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	N.D.	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analys	st	Dilution
No.					Date and Time			Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17	:55 Ashley	y M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17	:55 Ashley	y M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20	:50 Danie	l S Smith	1



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

Page 1 of 1

Sample Description: MW-5-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-5

LLI Group # 1250138 Account # 10904

LLI Sample # WW 6308012

Project Name: 307233

Collected: 06/06/2011 11:30 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name	CF	AS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Cl	hemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14	4797-55-8	N.D.	250	5
00228	Sulfate	14	4808-79-8	2,700	1,500	5
		SM20 3500 Fe	e В	ug/l	ug/l	
08344	Ferrous Iron		.a.	11	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:	09 Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:	09 Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:	50 Daniel S Smith	1



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

Page 1 of 1

Sample Description: MW-6-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-6

LLI Group # 1250138 Account # 10904

LLI Sample # WW 6308013

Project Name: 307233

Collected: 06/06/2011 09:43 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	hemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	5,300	250	5
00228	Sulfate		14808-79-8	54,000	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	N.D.	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:2	4 Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:2	4 Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:5	0 Daniel S Smith	1



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

Page 1 of 1

Sample Description: MW-7-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-7

LLI Sample # WW 6308014 LLI Group # 1250138 Account # 10904

Project Name: 307233

Collected: 06/06/2011 12:15 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	nemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	8,000	250	5
00228	Sulfate		14808-79-8	70,300	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	4,300	100	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:38	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:38	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	10



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

Page 1 of 1

Sample Description: MW-8-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-8

LLI Group # 1250138 Account # 10904

LLI Sample # WW 6308015

Project Name: 307233

Collected: 06/06/2011 09:40 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Cl	nemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	2,400	1,500	5
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	2,000	50	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:	52 Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:	52 Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B	1	11158834401A	06/07/2011 20:	Daniel S Smith	5



Account

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

Page 1 of 1

Sample Description: MW-9-W-110606 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-9

LLI Sample # WW 6308016 LLI Group # 1250138

10904

Project Name: 307233

Collected: 06/06/2011 10:30 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/07/2011 10:15 Reported: 06/15/2011 16:13

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet C	hemistry	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	228,000	6,000	20
		SM20 3500 modified	Fe B	ug/l	ug/l	
08344	Ferrous Iron		n.a.	N.D.	10	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Time	9		Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 1	9:06	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/14/2011 2	22:35	Ashley M Adams	20
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 2	20:50	Daniel S Smith	1



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

Page 1 of 1

Quality Control Summary

Client Name: Chevron Group Number: 1250138

Reported: 06/15/11 at 04:13 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 11158196904A Nitrate Nitrogen Sulfate	Sample numb N.D. N.D.	er(s): 630 50. 300.	08008-6308 ug/l ug/l	016 99 103		90-110 90-110		
Batch number: 11158834401A Ferrous Iron	Sample numb	er(s): 630 10.	08008-6308 ug/l	016 98		92-105		

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 <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 11158196904A Nitrate Nitrogen Sulfate	Sample : 103 136*	number(s)	: 6308008- 90-110 90-110	-630801	6 UNSPI	7,000 71,000	BKG: 6308008 7,000 71,000	1 0	20 20
Batch number: 11158834401A Ferrous Iron	Sample 1	number(s) 95		-630801 4	6 UNSPI 6	<pre>6308014 4,300</pre>	BKG: 6308014 4,200	3 (1)	5

*- 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

For Lancaster Laboratories use only



Laboratories			A	Acct.	#:	109	04	r 	Sam	ple #	# <u>6</u>	30	280	108	<u> - ۲</u>	16		Group #:	006	<u> 409</u>	<u> </u>		
T. Laboratories											A	naly	ses	Red	que	stec	ı			12	5013	38	
Facility #: SS#307233-OML G-R#385876	Global ID#T	0600196	622	\Box	Matri:	x					Р	res	erva	tion	Co			·		Preserva	ative Cod	es	7
Site Address:2259 FIRST STREET, LIVERMO				_						_		\dashv	_		$\overline{}$	H.				H = HCl	T = Thios		
Observation TB	CR	ADG	Gruna	\vdash		┰╢			-	ğ	-	I	- []		0.	(83)				N = HNO3 S = H2SO4	B = NaO O = Other		ļ
Chevron PM: TB Lead C Consultant/Office: G-R, Inc., 6747 Sierra Court	ionsultant: <u> </u>	blin. CA 9	94568	1	_ 6 Ω		Containers			Silica Gel Cleanup				- 11	300.0	Soa				☐ J value repor		 	1
Deanna I Harding (deanna@grinc.com)				-	Potable NPDES		ıtain	8260 🖂 8021		8	İ			II	2	8				☐ Must meet lo	west detect	tion limit	s
Consultant Prj. Mgr.:				-			S	8		S			- t	8	VEP#	20				possible for 8	260 compo	ounds	ı
Consultant Phone #:925-551-7555		51-7899				†	rof	260	욅	930		δ	Method	Method	Ų	Š				8021 MTBE Co			ı
Sampler: JOE AJEMIAN / F-]	ē				ьфг		ğ	8	<u>_</u>	enate	2	Dg.	7/2	MSSma				Confirm high	•	260	
7			isod		<u>ب</u>	Ä	Ž	¥.	15 k	15 N	8	Oxygenates	ag	96	25	90				☐ Confirm all hi☐ Runox	•	aet hit	ı
Sample Identification	Date Collected 0	Time Collected	Grab	Soil	Water	Ö	Total Number of	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD	8260 full scan	∥	Total Lead	Sol	Nitrata	27				☐ Run ox			ı
		030.		<u>ω</u>	\rightarrow	М	3	-	-	뉘	80	-	+	읙	·	. /				Comments / !			-
mw-2		2830	Ť	T	<u> </u>	\Box	3				\neg				<u>`</u>	<u>v</u>				Oomments,	ternar ko		
Mw-3		120		1			3						1		J	Ţ		$\neg \dagger$					-
MW-4		900					3								√	/				Please forwa	rd the lab r	esults	
	1	130					73			T					V	/				directly to the	Lead Cons		
MW-6	0	943					3								√	V				and	cc: G-R.		
		215		<u> </u>	Ш		3								\checkmark	\checkmark							
Mm-8		940	\mathbb{H}	_	₩	\sqcup	3				_				7	\checkmark							
mw-9	<u> </u>	030	4	╀	Y _	\square	3					_			√	\checkmark							
				╂		\vdash					\dashv		\dashv						\dashv				
				╂		+			\dashv	+	\dashv		-+	_									
				╁		+1				\dashv	-			-					\dashv				
Turn around Time December (TAT)		Belingui	shed by		<u> </u>	1				T_{D}^{L}	ate	T Ti	ime	T _B	ecei	ved l	DV:	· l	J	· · · · · · · · · · · · · · · · · · ·	Date	Time	1
Turnaround Time Requested (TAT) (please circl STD_TAT 72 hour 48 hour	Θ)	5	<u> </u>	\angle	۷	بر	~				6-11		600			_	·,·				54.0	11110	1
24 hour 4 day 5 day		Belinquia	shed by	: \(\)	ノ						ate	Ti	ime	R	ecei	ved t	oy:		_		Date	Time	1
		Relinguia	shed hy			_		_		+-	ate	+-	ime	 	eceli	bev	311.	_:			Date	Time~	┨
Data Package Options (please circle if required)										† •		₩.		_ ' ''	00011	vou i	Jy.				Date	111110	ケ
QC Summary Type I - Full E Type VI (Raw Data) □ Coelt Deliverable not neede	Relinguishe					al Cau	rner:				•			P	ecej)	veg t	ру-ј		_	1///	Date	Time	1
WIP (RWQCB)	r u	UPS	(F	edEx			Other							ر/ل	\angle	W	M	uk	U)	Vest	4/7/11	1015	
Disk		Tempera	ature Up	on R	eceipt			D					_ C°	C	usto	dy S	eals	Intact	? (Yes No			1



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)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- **J** estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

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.

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.



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

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

July 05, 2011

Project: 307233

Submittal Date: 06/25/2011 Group Number: 1253438 PO Number: 0015075227 Release Number: FROHNAPPLE State of Sample Origin: CA

Client Sample Description Lancaster Labs (LLI) #

QA-T-110622 NA Water 6328403 MW-5-W-110622 Grab Water 6328404 MW-7-W-110622 Grab Water 6328405

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

ELECTRONIC CRA c/o Gettler-Ryan Attn: Rachelle Munoz

COPY TO

ELECTRONIC Chevron c/o CRA Attn: Report Contact

COPY TO

ELECTRONIC Chevron Attn: Anna Avina

COPY TO

ELECTRONIC CRA Attn: Kiersten Hoey

COPY TO



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

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

Respectfully Submitted,

Lawrence M. Taylor Senior Specialist



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

Page 1 of 1

Sample Description: QA-T-110622 NA Water

LLI Sample # WW 6328403 Facility# 307233 Job# 385876 GRD LLI Group # 1253438 2259 First St-Livermore T0600196622 QA Account # 10904

Project Name: 307233

Collected: 06/22/2011 Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/25/2011 09:00 Reported: 07/05/2011 12:57

QALVM

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 Vo	latiles	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P111794AA	06/28/2011 23:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P111794AA	06/28/2011 23:18	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 11:42	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 11:42	Laura M Krieger	1



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

Page 1 of 1

Sample Description: MW-5-W-110622 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-5

LLI Sample # WW 6328404 LLI Group # 1253438 Account # 10904

Project Name: 307233

Collected: 06/22/2011 12:00 by HK Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/25/2011 09:00 Reported: 07/05/2011 12:57

LVMM5

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 Vol	latiles	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P111794AA	06/29/2011 03:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P111794AA	06/29/2011 03:31	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 16:51	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 16:51	Laura M Krieger	1



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

Page 1 of 1

Sample Description: MW-7-W-110622 Grab Water

Facility# 307233 Job# 385876 GRD

2259 First St-Livermore T0600196622 MW-7

LLI Group # 1253438 Account # 10904

LLI Sample # WW 6328405

Project Name: 307233

Collected: 06/22/2011 12:45 by HK Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/25/2011 09:00 Reported: 07/05/2011 12:57

LVMM7

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	1,800	5	10
10943	Ethylbenzene		100-41-4	490	5	10
10943	Toluene		108-88-3	47	5	10
10943	Xylene (Total)		1330-20-7	2,200	5	10
_						
GC Vo.	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	19,000	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.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D111831AA	07/02/2011 07:08	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111831AA	07/02/2011 07:08	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 19:00	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 19:00	Laura M Krieger	5



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

Page 1 of 2

Quality Control Summary

Client Name: Chevron Group Number: 1253438

Reported: 07/05/11 at 12:57 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: D111831AA	Sample numbe	er(s): 632	8405					
Benzene	N.D.	0.5	ug/l	94		79-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		80-120		
Batch number: P111794AA	Sample numbe	er(s): 632	8403-6328	404				
Benzene	N.D.	0.5	ug/l	88	87	79-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	92	92	79-120	0	30
Toluene	N.D.	0.5	ug/l	93	94	79-120	1	30
Xylene (Total)	N.D.	0.5	ug/l	93	94	80-120	0	30
Batch number: 11180B07A	Sample numbe	er(s): 632	8403-6328	405				
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 <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: D111831AA Benzene Ethylbenzene Toluene Wildene (Total)	97 98 100	number(s) 92 96 96	80-126 71-134 80-125	UNSPK: 5 3	30 30 30	01			
Xylene (Total)	97	94	79-125	3	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water

Batch number: D111831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6328405	94	91	103	99
Blank	99	103	101	92
LCS	96	101	101	101

*- 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

Page 2 of 2

Quality Control Summary

Group Number: 1253438 Client Name: Chevron

Reported: 07/05/11 at 12:57 PM

Surrogate Quality Control 96 102 MS

100 MSD 100 101 Limits: 80-116 77-113 80-113 78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: P111794AA

Dibromofluoromethane 1.2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene 6328403 96 101 95 98 6328404 98 100 94 98 Blank 98 101 97 99 LCS 98 101 95 LCSD 97 102 98 77-113 80-113 Limits: 80-116 78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 11180B07A

Trifluorotoluene-F

6328403 96 6328404 97 6328405 146* 99 Blank 109 LCS LCSD 105

Limits: 63-135

- (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.

^{*-} Outside of specification

Chevron California Region Analysis Request/Chain of Custody



062411-01

For Lancaster Laboratories use only

Acct. #: 1090 4 Sample # 6328403-05 Group #: 006474

							Ar	naly	ses	Req	uest	ed				1253	428
Facility #: SS#307233-OML G-R#385876 Global ID#T0	0600196622	Matrix			 -		P	rese	rva	ion	Code)S			Preserva	tive Cod	es
2259 FIRST STREET, LIVERMORE, CA		<u> </u>		#	• • •	anub	+	+	\dashv	1	+	+	+		$N = HNO_3$	T = Thios B = NaO O = Othe	H
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Duble Consultant/Office: Deanna L. Harding (deanna@grinc.co Consultant Prj. Mgr.: Consultant Phone #: 925-551-7555 Sampler: HAIG KEVORK Date Collected Co	iblin, CA 94568 com)	☐ Potable ☐ NPDES	Total Number of Containers	BTEX € 8260 X 8021 □	TPH 8015 MOD GRO	TPH 8015 MOD DRO Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method					☐ J value report ☐ Must meet lov possible for 8/ 8021 MTBE Con ☐ Confirm highe ☐ Confirm all hit ☐ Run oxy ☐ Run oxy	ing needed west detect 260 compo nfirmation est hit by 82 ts by 8260 's on highe	d tion limits bunds 260 est hit
	200 X 245 X		866												Please forwar directly to the and o	d the lab re	
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by		<u>[]</u>		<u> </u>	, P	22/ 22/ ate	Ti II	ime <i>(37)</i> ime (30	F <u>je</u>		7% E	R-	* * * * * * * * * * * * * * * * * * *	YANTKIZGE (Date 2%-22-1 Date 6-24-//	Time /330 Time //30
Data Package Options (please circle if required) QC Summary Type I - Full EDF/EDD Type V! (Raw Data) □ Coelt Deliverable not needed WIP (RWQCB) Disk		Commercial Carri	ther.	3-1	_6	124/ 	Pate		ime \(\mathcal{D} \) \(\text{C}^\circ \)	Re	ceive eceive	By:	s Intact	1?	Yes (No	Date Date	Time Time



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)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- **J** estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

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.

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.