April 13, 2006

Mr. Jerry Wickham
Department of Environmental Health
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Dear Mr. Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in URS' report titled "**SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA - First Quarter 2006 Groundwater Monitoring Report**" are true and correct to the best of my knowledge at the present time.

Submitted by:

Jeffrey Cosgray
Chevron Pipe Line Company

URS

This report ("**SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA - First Quarter 2006 Groundwater Monitoring Report**") was prepared under my direct supervision. The information presented in this report is based on our review of available data obtained during first quarter sampling activities and our previous subsurface investigation efforts detailed in URS' December 15, 2005 "Subsurface Investigation Report: Chevron Pipeline Release Sunol California." To the best of our knowledge, we have incorporated into our recommendations all relevant data pertaining to the Chevron Pipeline Release site in Sunol, California.

The first quarter groundwater monitoring report discussed herein was developed in accordance with the standard of care used to develop this type of report. The assumptions that were made and the recommendations for additional field activities were based on our professional experience and protocols reported in the literature for similar investigations.

URS Corporation
Approved by:

Leonard P. Niles

Leonard P. Niles, R.G./C.H.G.

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
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URS

RECEIVED
By lopprojectop at 9:29 am, Apr 17, 2006

April 13, 2006

Mr. Jerry Wickham
Department of Environmental Health
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA - First Quarter 2006 Groundwater Monitoring Report

Dear Mr. Wickham:

In the December 30, 2005 letter provided by the Alameda County Environmental Health Staff (ACEH), you requested the initiation of a Quartering Groundwater Monitoring Program that incorporated ethanol and methanol analysis into the sampling program. In response to your request, URS, on behalf of Chevron Pipe Line Company, has prepared this groundwater monitoring report detailing measured groundwater levels, sampling methodologies, and groundwater analytical results for the Chevron Sunol Pipeline site (Site) for the first quarter of 2006. (A site vicinity map is included as Figure 1.) This groundwater monitoring report addresses concerns raised by the ACEH regarding further monitoring of groundwater contamination and its extent. A separate discussion on the Site's complex geologic and hydrogeologic conditions will be included in URS' upcoming Additional Subsurface Investigation Report.

On February 21 & 22, 2006, URS conducted field activities to assess the groundwater conditions at the Site. As part of this field effort, URS measured the depth to groundwater and collected analytical samples at the seven (7) groundwater monitoring wells, MW-1 through MW-7, at the Site (Figure 2).

Site Hydrogeology

Prior to collecting groundwater samples, the depth to groundwater was measured at each well location from the top of casing using an electronic oil/water interface meter. Free product was not detected at any of the well locations (MW-1 through MW-7). The measured groundwater levels are displayed on Table 1 and the calculated groundwater elevations are displayed on Table 2 and Figure 2. The groundwater elevations for the wells located in the nursery (MW-1 through MW-4) are approximately 292-294 ft above mean sea level (msl), while the groundwater elevations for wells located along Calaveras Road (MW-5 through MW-7) range from approximately 314 to 323 ft above msl. The hydraulic head differential between the wells within the nursery and the wells on the Calaveras Road is approximately 26 feet.

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Based on the range of groundwater elevations within the relatively short lateral distance between the road wells and the nursery wells (Figure 2), two separate water-bearing zones appear to be present. The measured groundwater levels for the wells within the nursery are all below the top of the screened intervals within the first encountered saturated zones (Table 1). This suggests unconfined conditions in which groundwater levels are influenced by local surface water infiltration conditions. The measured groundwater levels for the wells along Calaveras Road, however, are all at least 15 feet above the top of the screened interval within the first encountered saturated zone at each well (Table 1). This suggests that groundwater is under confined or partially confined conditions, creating the observed upward hydraulic gradient.

Groundwater Sampling

After measuring groundwater levels at each well, URS began low-flow groundwater sampling. Low-flow sampling was conducted using disposable LDPE tubing and a stainless steel electronic submersible continuous discharge pump purging between 0.1 to 0.5 L/min depending on the rate of recharge at each well. After re-measuring the groundwater level, the pump intake was slowly lowered into position in either the center of each well screen if the water level was higher than the top of the screen or the center of the water column if the water level was lower than the top of the screen.

During purging, the water level in each well was measured periodically to monitor draw down. In all of the nursery wells (MW-1 through MW-4) a stabilized draw down of less than 0.33 feet was achieved. In the wells along Calaveras Road, however, a draw down of less than 0.33 feet could not be achieved. In MW-5 the water level stabilized at 1.32 feet below the static groundwater level after an initial drop when purging began. In MW-6 and MW-7 a stabilized draw down could not be achieved, even at pumping rates between 0.1 and 0.2 L/min. The static and final groundwater levels before and after sampling are provided on the groundwater sampling forms included as Attachment A.

In addition to monitoring the water level at each well, parameters such as temperature, pH, conductivity, oxygen reduction potential (ORP), dissolved oxygen (DO) and turbidity of the groundwater were monitored using an in-line flow-through cell and multi-parameter device. The multi-parameter device was calibrated both days prior to sampling. During purging, parameter readings described above were recorded every 3-5 minutes until the parameters stabilized.

In all of the wells where a stabilized draw down could be achieved, the parameters were generally considered to be stable when three consecutive readings were within the following guidelines: pH +/- 0.2 pH units, conductivity +/- 3% of reading, ORP +/- 20mV, DO +/- 0.2 mg/L, turbidity +/- 1.0 NTU (Attachment A). Following parameter stabilization, the flow through cell was detached from the pump and tubing assembly and groundwater samples were collected directly from the pump tubing. At MW-6 and MW-7, where stabilized groundwater levels could not be achieved, the low flow sampling assembly was disconnected, and the well was either pumped or bailed dry before sampling.

The groundwater samples from each well and the duplicate sample from MW-2 were collected in 40 milliliter VOAs preserved with hydrochloric acid and placed on ice in a cooler. Each sample cooler included a trip blank and was submitted to Lancaster Analytical Laboratory in Lancaster Pennsylvania, a California Certified Laboratory, using proper chain-of-custody procedures. The samples were analyzed on a standard turn around time for benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA 8260B, ethanol and methanol by USEPA Method 8015B, and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) by N. CA LUFT GRO.

Analytical Results

A summary of the analytical results is presented on Table 3 and Figure 3. The complete laboratory analytical results and chain of custodies are included as Attachment B.

Analyte concentrations in the groundwater samples collected from the nursery wells (MW-1 through MW-4) were all below laboratory reporting limits with the exception of MW-1. The MW-1 sample contained concentrations of TPH-GRO and all BTEX constituents above the laboratory reporting limits. Ethanol and methanol concentrations were below detection limits for MW-1.

Analyte concentrations for the groundwater samples collected from the wells along Calaveras Road (MW-5 through MW-7) were below laboratory reporting limits at MW-6, with concentrations of some of the constituents above detection limits in the MW-5 and MW-7 samples. Benzene and ethylbenzene concentrations were above detection limits at MW-5 and all BTEX constituents were above detection limits at MW-7.

Conclusions & Recommendations

- To supplement the hydrogeologic discussion above, URS is currently preparing an Additional Subsurface Investigation Report that will include a more thorough discussion of the geology and hydrogeology at the Site as it is currently understood and will present boring logs, cross sections, and groundwater contour maps to help explain the complex subsurface conditions.

- Due to the continuous draw down encountered at MW-6 and MW-7, low flow conditions could not be established at these locations. In an effort to collect the most representative groundwater sample possible, in the future, URS suggests either removing three well volumes from each well or purging the wells dry prior to sampling at these locations rather than attempting low-flow methods.

- Although the stabilized draw down at MW-5 was greater than 0.33 ft (1.32 ft), URS would like to continue using low-flow sampling techniques at this location for the second quarter to evaluate if the ideal draw down (<0.33 ft) can be achieved. The use of low flow sampling techniques at MW-5 will be evaluated for its effectiveness in the Second Quarter 2006 Groundwater Monitoring Report.

URS

- In addition to the groundwater samples collected from the seven (7) monitoring wells on a quarterly basis, URS recommends collecting one surface water sample from the unnamed creek north and downslope from the release location on the east side of Calaveras Road (Figure 2). The surface water sample would be collected to monitor possible contaminant migration to the north of the release and possibly into the unnamed creek, which drains into the Alameda Creek floodplain. This sample would be analyzed for BTEX, ethanol, methanol, and TPH-g.

If you have any questions on this Groundwater Monitoring Report, please call me at 510-874-3201.

Sincerely yours,

URS CORPORATION

Joe Morgan III
Senior Project Manager

TABLE 1
Monitoring Well Groundwater Levels
First Quarter 2006
Chevron Sunol Pipeline

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Screen Intervals (ft)	29.4-39.5	23.8-38.8	22.2-37.2	30.7-40.7	39.5-49.5	34.7-49.7	34.7-49.7
Date	Depth to Groundwater (ft)						
2/21/2006	36.34	32.19	31.97	36.72	11.48	18.02	15.43

Notes:
Groundwater levels and screened intervals measured from top of casing - north.

TABLE 2
Monitoring Well Groundwater Elevations
First Quarter 2006
Chevron Sunol Pipeline

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Date Completed	10/20/2005	10/21/2005	10/21/2005	1/31/2006	1/27/2006	1/27/2006	1/27/2006
Ground Surface Elevation (ft msl)	328.49	324.85	326.05	329.97	335.14	332.61	336.46
Top of Casing Elevation (ft msl)	328.04	324.15	325.65	329.67	334.81	332.38	336.22
Date	**Groundwater Elevations (ft msl)**						
2/21/2006	291.70	291.96	293.68	292.95	323.33	314.36	320.79

Notes:
All elevations displayed in feet above average mean sea level (msl).
Groundwater elevations calculated from depth to groundwater as measured from top of casing - north.
MW-1 through MW-3 surveyed on October 31, 2005.
MW-4 through MW-7 surveyed on February 14, 2006.

TABLE 3
Summary Groundwater Analytical Results
First Quarter 2006
Chevron Sunol Pipeline

Well ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
Date	2/22/2006	2/21/2006[1]	2/21/2006	2/21/2006	2/22/2006	2/22/2006	2/22/2006
Contaminant							
TPH-gasoline	57,000	<50 / <50	<50	<50	<50	<50	<50
Benzene	38	<0.5 / <0.5	<0.5	<0.5	<0.5	<0.5	0.7
Toluene	2,700	<0.5 / <0.5	<0.5	<0.5	0.6	<0.5	2
Ethylbenzene	3,000	<0.5 / <0.5	<0.5	<0.5	<0.5	<0.5	0.9
Xylenes	8,700	<0.5 / <0.5	<0.5	<0.5	1	<0.5	5
Ethanol	<1,000	<50 / <50	<50	<50	<50	<50	<50
Methanol	<200	<200 / <200	<200	<200	<200	<200	<200

Notes:
All values are displayed in µg/L.

[1] Both sample and duplicate concentrations from well location are displayed.

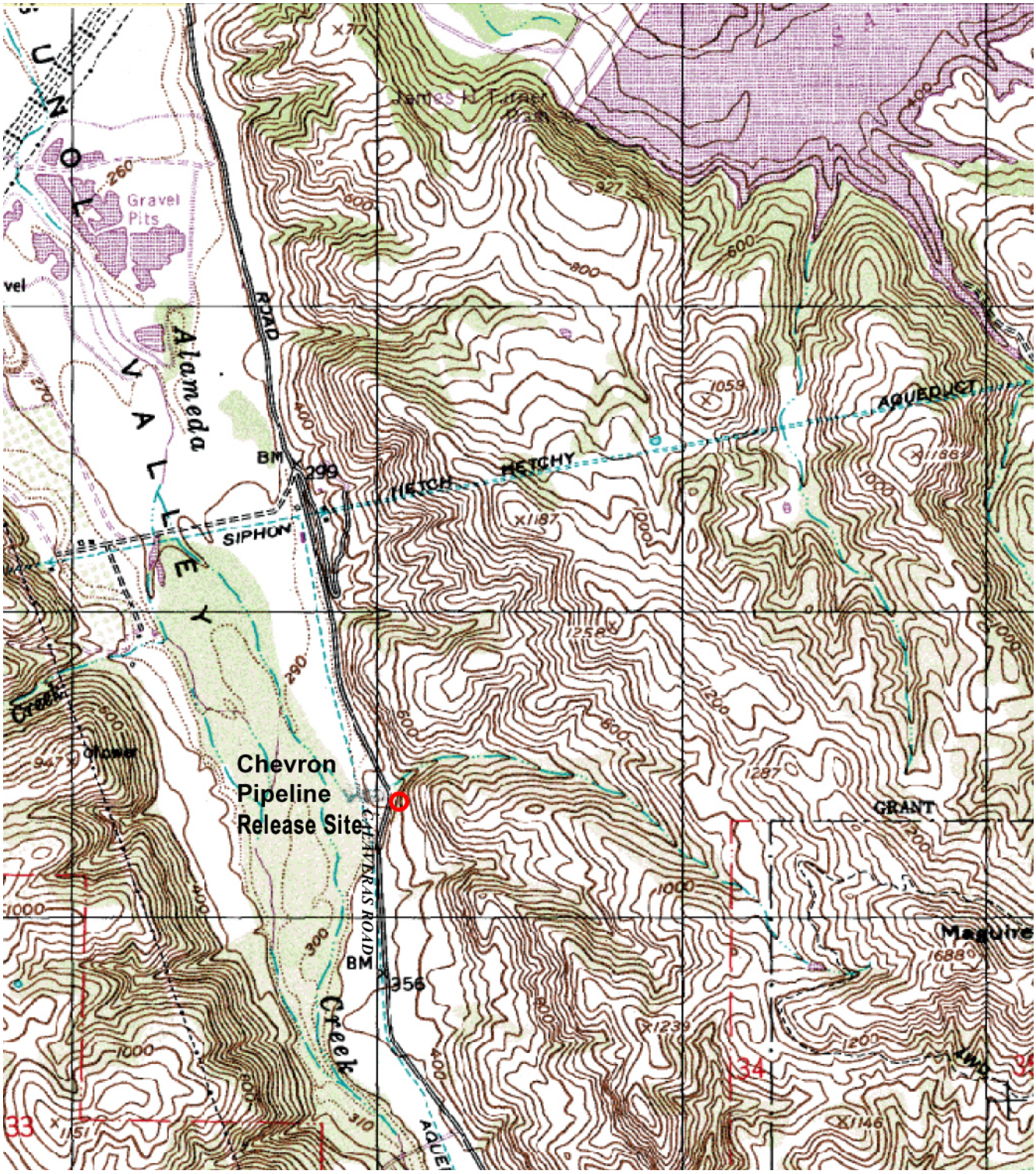


Image obtained from topozone.com

0 0.2 0.4 0.6 0.8 1 mi

N

MAP REFERENCE:

PORTION OF U.S.G.S. QUANDRANGLE MAP
7 1/2 MINUTE SERIES (TOPOGRAPHIC)
LA COSTA VALLEY QUADRANGLE

URS	Chevron Pipeline Company Project No. 26815217	SITE VICINITY MAP CHEVRON SUNOL PIPELINE	Figure 1

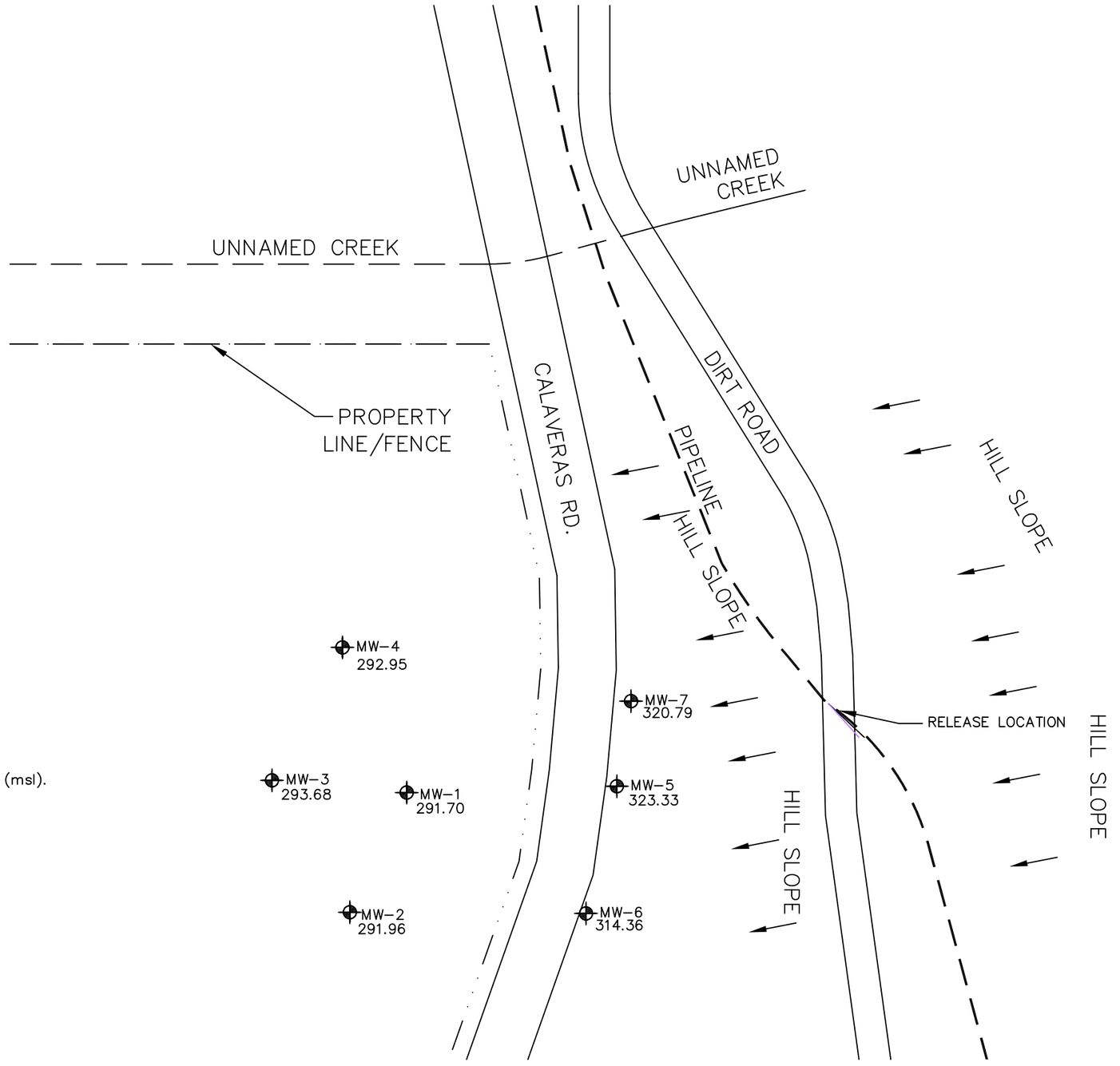
LEGEND:

MONITORING WELLS

PIPELINE

NOTE:

Groundwater Elevations In Feet Above Average Mean Sea Level (msl).



NORTH

50' 0 50'

SCALE 1"= 50'

URS	CHEVRON PIPELINE COMPANY Project No. 26815217	MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATIONS CHEVRON SUNOL PIPELINE	Figure 2

Apr 05, 2006 - 9:36am
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LEGEND:

MONITORING WELLS

PIPELINE

UNNAMED CREEK

UNNAMED CREEK

PROPERTY LINE/FENCE

CALAVERAS RD.

DIRT ROAD

PIPELINE

HILL SLOPE

HILL SLOPE

HILL SLOPE

HILL SLOPE

RELEASE LOCATION

Benzene:	0.7
Toluene:	2.0
Ethylbenzene:	0.9
Xylene:	5.0

MW-7
320.79

TPH-g:	57,000
Benzene:	38
Toluene:	2,700
Ethylbenzene:	3,000
Xylene:	8,700

MW-4
292.95

MW-3
293.68

MW-1
291.70

MW-5
323.33

Toluene:	0.6 ug/L
Xylene:	1.0 ug/L

MW-2
291.96

MW-6
314.36

NOTE:

Only Concentrations Exceeding Laboratory Repoting Limits Are Displayed.

NORTH

50' 0 50'

SCALE 1"= 50'

URS	CHEVRON PIPELINE COMPANY Project No. 26815217	MONITORING WELL SUMMARY GROUNDWATER ANALYTICAL RESULTS CHEVRON SUNOL PIPELINE	Figure 3

Apr 05, 2006 - 9:35am
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Attachment A

Low Flow Sampling Forms

URS

Troll 9000 | Low-Flow System
02/22/06 | ISI Low-Flow Log

Project Information:		**Pump Information:**	
Operator Name	Greg White	Pump Model/Type	Mega Typhoon
Company Name	URS	Tubing Type	LDPE
Project Name	Chevron Pipeline	Tubing Diameter	0.38 [in]
Site Name	Calaveras Rd, Sunol, CA	Tubing Length	40 [ft]
		Pump placement from TOC	38 [ft]

Well Information:		**Pumping information:**	
Well ID	MW-1	Final pumping rate	300 [mL/min]
Well diameter	4 [in]	Flowcell volume	1009.07 [mL]
Well total depth	39.56 [ft]	Calculated Sample Rate	202 [sec]
Depth to top of screen	29.38 [ft]	Sample rate	202 [sec]
Screen length	10 [ft]	Stabilized drawdown	4 [in]
Depth to Water	36.33 [ft]		

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	17:06:27	18.43	6.43	998.24	8.97	1.56	57.81
	17:09:53	17.96	6.43	986.85	5.22	1.51	62.32
	17:13:17	17.95	6.43	985.94	4.87	1.48	64.18
	17:16:43	17.92	6.43	985.44	4.23	1.47	66.85
	17:20:06	18.09	6.43	989.93	3.78	1.45	68.93
Variance in last 3 readings	17:13:17	0.00	0.00	-0.91	-0.35	-0.03	1.86
	17:16:43	-0.04	0.00	-0.49	-0.65	-0.01	2.68
	17:20:06	0.18	0.00	4.49	-0.45	-0.03	2.08

Notes: A total of 3 gallons were removed from MW-1.
Final water level: 36.39' below TOC-N.
17:25 Collect groundwater sample.

URS

Troll 9000 | Low-Flow System
02/21/06 | ISI Low-Flow Log

Project Information:

Operator Name	Greg White
Company Name	URS
Project Name	Chevron Pipeline
Site Name	Calaveras Rd Sunol, CA

Pump Information:

Pump Model/Type	Mega Typhoon
Tubing Type	LDPE
Tubing Diameter	0.38 [in]
Tubing Length	40 [ft]
Pump placement from TOC	35 [ft]

Well Information:

Well ID	MW-2
Well diameter	4 [in]
Well total depth	38.54 [ft]
Depth to top of screen	23.5 [ft]
Screen length	15 [ft]
Depth to Water	32.19 [ft]

Pumping information:

Final pumping rate	300 [mL/min]
Flowcell volume	1009.07 [mL]
Calculated Sample Rate	202 [sec]
Sample rate	202 [sec]
Stabilized drawdown	4 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	17:02:30	16.70	6.69	990.77	0.19	3.60	146.04
	17:05:57	16.66	6.69	986.86	0.10	3.64	145.72
	17:09:24	16.73	6.67	984.39	0.01	3.70	146.05
	17:12:49	16.71	6.68	980.16	-0.04	3.77	145.73
	17:13:52	16.66	6.68	978.37	-0.07	3.78	145.69
Variance in last 3 readings	17:09:24	0.06	-0.01	-2.48	-0.09	0.06	0.33
	17:12:49	-0.01	0.00	-4.23	-0.05	0.07	-0.31
	17:13:52	-0.06	0.00	-1.79	-0.03	0.01	-0.05

Notes: A total of 5.5 gallons were removed from MW-2.
Final water level: 32.18' below TOC-N.
17:15 Collect groundwater sample.

URS

Troll 9000 | Low-Flow System
02/21/06 | ISI Low-Flow Log

Project Information:

Operator Name	Greg White
Company Name	URS
Project Name	Chevron Pipeline
Site Name	Calaveras Rd Sunol, CA

Pump Information:

Pump Model/Type	Mega Typhoon
Tubing Type	LDPE
Tubing Diameter	0.38 [in]
Tubing Length	40 [ft]
Pump placement from TOC	35 [ft]

Well Information:

Well Id	MW-3
Well diameter	4 [in]
Well total depth	38.5 [ft]
Depth to top of screen	22.24 [ft]
Screen length	15 [ft]
Depth to Water	31.97 [ft]

Pumping information:

Final pumping rate	300 [mL/min]
Flowcell volume	1009.07 [mL]
Calculated Sample Rate	202 [sec]
Sample rate	202 [sec]
Stabilized drawdown	4 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	15:39:40	15.85	6.57	911.55	7.83	4.41	156.28
	15:43:04	15.75	6.58	909.28	4.67	4.38	155.93
	15:46:31	15.79	6.58	908.92	3.83	4.36	155.79
	15:49:57	15.79	6.57	909.76	3.38	4.37	156.22
	15:53:24	15.69	6.58	906.68	1.59	4.36	156.17
Variance in last 3 readings	15:46:31	0.04	0.00	-0.35	-0.83	-0.02	-0.13
	15:49:57	0.00	-0.01	0.83	-0.45	0.01	0.42
	15:53:24	-0.10	0.01	-3.08	-1.79	-0.01	-0.05

Notes: A total of 4.5 gallons were removed from MW-3.
Final water level: 31.98' below TOC-N.
15:55 Collect groundwater sample.

URS

Troll 9000 | Low-Flow System
02/21/06 | ISI Low-Flow Log

Project Information:

Operator Name	Greg White
Company Name	URS
Project Name	Chevron Pipeline
Site Name	Calaveras Rd Sunol, CA

Pump Information:

Pump Model/Type	Mega Typhoon
Tubing Type	LDPE
Tubing Diameter	0.38 [in]
Tubing Length	50 [ft]
Pump placement from TOC	38 [ft]

Well Information:

Well ID	MW-4
Well diameter	4 [in]
Well total depth	40.66 [ft]
Depth to top of screen	30.7 [ft]
Screen length	10 [ft]
Depth to Water	36.72 [ft]

Pumping information:

Final pumping rate	300 [mL/min]
Flowcell volume	1202.94 [mL]
Calculated Sample Rate	241 [sec]
Sample rate	241 [sec]
Stabilized drawdown	4 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	14:16:23	16.88	6.54	919.06	37.38	2.42	138.00
	14:20:28	16.91	6.55	919.52	33.32	2.37	136.10
	14:24:33	16.89	6.55	918.61	23.98	2.38	134.68
	14:28:42	16.72	6.56	914.74	17.86	2.36	133.12
	14:32:49	16.71	6.56	913.85	14.37	2.41	133.20
Variance in last 3 readings	14:24:33	-0.02	0.01	-0.91	-9.34	0.01	-1.42
	14:28:42	-0.18	0.01	-3.86	-6.12	-0.02	-1.56
	14:32:49	-0.01	0.00	-0.90	-3.49	0.05	0.08

Notes: A total of 5 gallons were removed from MW-4.
Final water level: 36.76' below TOC-N.
14:35 Collect groundwater sample.

URS

Troll 9000 | Low-Flow System
02/22/06 | ISI Low-Flow Log

Project Information:		**Pump Information:**	
Operator Name	Greg White	Pump Model/Type	Mega Typhoon
Company Name	URS	Tubing Type	LDPE
Project Name	Chevron Pipeline	Tubing Diameter	0.38 [in]
Site Name	Calaveras Rd Sunol, CA	Tubing Length	50 [ft]
		Pump placement from TOC	44 [ft]

Well Information:		**Pumping information:**	
Well ID	MW-5	Final pumping rate	300 [mL/min]
Well diameter	4 [in]	Flowcell volume	1232.09 [mL]
Well total depth	49.01 [ft]	Calculated Sample Rate	247 [sec]
Depth to top of screen	39.50 [ft]	Sample rate	247 [sec]
Screen length	10 [ft]	Stabilized drawdown	4 [in]
Depth to Water	11.48 [ft]		

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	13:28:32	17.97	7.08	715.18	4.81	4.28	-99.73
	13:32:45	18.05	7.11	716.03	4.93	1.27	-130.40
	13:36:57	18.06	7.09	715.65	3.72	1.24	-133.47
	13:41:09	17.99	7.09	714.85	3.01	1.26	-134.74
	13:45:21	18.11	7.10	719.28	2.56	1.24	-136.44
Variance in last 3 readings	13:36:57	0.02	-0.02	-0.38	-1.21	-0.03	-3.07
	13:41:09	-0.08	0.00	-0.80	-0.71	0.02	-1.27
	13:45:21	0.13	0.01	4.44	-0.45	-0.02	-1.70

Notes: A total of 4.5 gallons were removed from MW-5.
Final water level: 12.80' below TOC-N.
13:50 Collect groundwater sample.

URS

Troll 9000 | Low-Flow System
02/22/06 | ISI Low-Flow Log

Project Information:

Operator Name	Greg White
Company Name	URS
Project Name	Chevron Pipeline
Site Name	Calaveras Rd Sunol, CA

Pump Information:

Pump Model/Type	Mega Typhoon
Tubing Type	LDPE
Tubing Diameter	0.38 [in]
Tubing Length	50 [ft]
Pump placement from TOC	38 [ft]

Well Information:

Well ID	MW-6
Well diameter	4 [in]
Well total depth	50.64 [ft]
Depth to top of screen	34.70 [ft]
Screen length	15 ft]
Depth to Water	17.59 [ft]

Pumping information:

Final pumping rate	125 [mL/min]
Flowcell volume	1232.09 [mL]
Calculated Sample Rate	247 [sec]
Sample rate	247 [sec]
Stabilized drawdown	4 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
Last 5 Readings	10:01:56	17.04	7.75	824.25	351.58	1.12	-79.33
	10:06:08	16.74	7.76	818.50	79.92	1.13	-81.76
	10:10:19	17.68	7.73	836.02	3.43	1.12	-83.54
	10:14:31	17.26	7.77	828.03	18.26	1.08	-89.00
	10:18:43	17.36	7.77	829.88	6.61	1.09	-89.85
Variance in last 3 readings	10:10:19	0.94	-0.02	17.52	-76.49	-0.01	-1.78
	10:14:31	-0.42	0.04	-7.99	14.83	-0.04	-5.46
	10:18:43	0.10	0.00	1.85	-11.65	0.01	-0.85

Notes: 10:20 Water level would not stabilize, pumped approximately 2.5 gallons. Will bail 3 well volumes or until well is dry before sampling.
12:45 Collect groundwater sample after bailing well dry and waiting for sufficient recharge to collect sample. Approximately 35.5 total gallons removed from bailing and pumping effort.

URS

Troll 9000 | Low-Flow System
02/22/06 | ISI Low-Flow Log

Project Information:

Operator Name	Greg White
Company Name	URS
Project Name	Chevron Pipeline
Site Name	Calaveras Rd Sunol, CA

Pump Information:

Pump Model/Type	Mega Typhoon
Tubing Type	LDPE
Tubing Diameter	0.38 [in]
Tubing Length	50.44 [ft]
Pump placement from TOC	43 [ft]

Well Information:

Well ID	MW-7
Well diameter	4 [in]
Well total depth	50.44 [ft]
Depth to top of screen	34.70 [ft]
Screen length	15 [ft]
Depth to Water	15.43 [ft]

Pumping information:

Final pumping rate	175 [mL/min]
Flowcell volume	1241.9 [mL]
Calculated Sample Rate	249 [sec]
Sample rate	249 [sec]
Stabilized drawdown	4 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0	+/-0	+/-0	+/-0	+/-0
	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00
	14:23:46	20.51	7.11	874.76	4.19	1.45	-108.42
Last 5 Readings	14:27:57	20.51	7.12	874.89	4.00	1.48	-112.32
	14:32:08	19.87	7.11	862.55	3.89	1.47	-115.36
	14:36:21	19.66	7.12	859.23	3.75	1.35	-122.47
	14:27:57	0.00	0.01	0.13	-0.19	0.04	-3.90
Variance in last 3 readings	14:32:08	-0.65	-0.01	-12.34	-0.11	-0.01	-3.04
	14:36:21	-0.21	0.01	-3.32	-0.15	-0.12	-7.10

Notes: 14:39 Water level will not stabilize, purged approximately 2 gallons. Will pump 3 well volumes or until well is dry before sampling.
15:15 Collect groundwater sample after pumping well dry and waiting for sufficient recharge to collect sample. Removed approximately 31 total gallons.

Attachment B

Laboratory Analytical Results

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

713-432-3335

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 979364. Samples arrived at the laboratory on Friday, February 24, 2006. The PO# for this group is 0015010091.

Client Description	Lancaster Labs Number
MW-4-2/21/06 Grab Water Sample	4716936
Trip Blank-2/21/06 Water Sample	4716937
MW-3-2/21/06 Grab Water Sample	4716938
MW-2-2/21/06 Grab Water Sample	4716939
DUP-2/21/06 Grab Water Sample	4716940
MW-6-2/22/06 Grab Water Sample	4716941
MW-5-2/22/06 Grab Water Sample	4716942
MW-7-2/22/06 Grab Water Sample	4716943
SVE3S-2/22/06 Grab Water Sample	4716944
SVE1D-2/22/06 Grab Water Sample	4716945
MW-1-2/22/06 Grab Water Sample	4716946
Trip Blank-2/22/06 Water Sample	4716947

ELECTRONIC COPY TO	URS	Attn: Angela Liang
ELECTRONIC COPY TO	URS	Attn: Joe Morgan
ELECTRONIC COPY TO	URS	Attn: Greg White

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Analysis Report

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,

Jenifer E. Hess
Manager

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4716936

MW-4-2/21/06 Grab Water Sample

Sunol, CA
Collected:02/21/2006 14:35 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

4CRSC
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/27/2006 09:58	Steven A Skiles	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 15:42	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 11:33	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/27/2006 09:58	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 11:33	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716937

Trip Blank-2/21/06 Water Sample

Sunol, CA
Collected:02/21/2006

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

QA221
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 11:57	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 11:57	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716938

MW-3-2/21/06 Grab Water Sample

Sunol, CA
Collected:02/21/2006 15:55 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

72555
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/27/2006 10:27	Steven A Skiles	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 16:25	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 12:21	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/27/2006 10:27	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 12:21	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716939

MW-2-2/21/06 Grab Water Sample

Sunol, CA
Collected:02/21/2006 17:15 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

22221
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/27/2006 10:56	Steven A Skiles	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 16:54	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 12:45	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/27/2006 10:56	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 12:45	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716940

DUP-2/21/06 Grab Water Sample

Sunol, CA
Collected:02/21/2006 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

UP216
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/27/2006 11:25	Steven A Skiles	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 17:08	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 13:09	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/27/2006 11:25	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 13:09	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716941

MW-6-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 12:45 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

62226
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/03/2006 13:28	K. Robert Caulfeild-James	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 17:23	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/07/2006 21:17	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/03/2006 13:28	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2006 21:17	Dawn M Harle	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716942

MW-5-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 13:50 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:56
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

52226
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	0.6	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/03/2006 15:16	K. Robert Caulfeild-James	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 17:37	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/07/2006 21:40	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/03/2006 15:16	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2006 21:40	Dawn M Harle	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716943

MW-7-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 15:15 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:57
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

72226
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
05401	Benzene	71-43-2	0.7	0.5	ug/l	1
05407	Toluene	108-88-3	2.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	0.9	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	5.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/03/2006 13:57	K. Robert Caulfeild-James	1
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 17:51	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/07/2006 22:04	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/03/2006 13:57	K. Robert Caulfeild-James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2006 22:04	Dawn M Harle	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4716944

SVE3S-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 16:07 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:57
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

35226
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	71,000.	1,000.	ug/l	20
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
	The acetone surrogate recovery is above QC limits. Since methanol was not detected in the sample, the data is accepted.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	1,000.	ug/l	20
05401	Benzene	71-43-2	3,300.	10.	ug/l	20
05407	Toluene	108-88-3	20,000.	50.	ug/l	100
05415	Ethylbenzene	100-41-4	1,700.	10.	ug/l	20
06310	Xylene (Total)	1330-20-7	13,000.	50.	ug/l	100

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/07/2006 17:52	K. Robert Caulfeild-James	20
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 18:06	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 09:44	Ginelle L Feister	20
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 10:56	Ginelle L Feister	100
01146	GC VOA Water Prep	SW-846 5030B	1	03/07/2006 17:52	K. Robert Caulfeild-James	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/08/2006 09:44	Ginelle L Feister	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	03/08/2006 10:56	Ginelle L Feister	100

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Analysis Report

Lancaster Laboratories Sample No. WW 4716945

SVE1D-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 16:22 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:57
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

SVE1D
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	46,000.	500.	ug/l	10
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	10
05401	Benzene	71-43-2	750.	5.	ug/l	10
05407	Toluene	108-88-3	7,600.	25.	ug/l	50
05415	Ethylbenzene	100-41-4	1,500.	5.	ug/l	10
06310	Xylene (Total)	1330-20-7	11,000.	25.	ug/l	50

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/07/2006 17:24	K. Robert Caulfeild-James	10
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 18:20	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 10:08	Ginelle L Feister	10
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 11:20	Ginelle L Feister	50
01146	GC VOA Water Prep	SW-846 5030B	1	03/07/2006 17:24	K. Robert Caulfeild-James	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/08/2006 10:08	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	03/08/2006 11:20	Ginelle L Feister	50

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Analysis Report

Lancaster Laboratories Sample No. WW 4716946

MW-1-2/22/06 Grab Water Sample

Sunol, CA
Collected:02/22/2006 17:25 by GW

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:57
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

M1222
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	57,000.	2,500.	ug/l	50
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	1,000.	ug/l	20
05401	Benzene	71-43-2	38.	10.	ug/l	20
05407	Toluene	108-88-3	2,700.	10.	ug/l	20
05415	Ethylbenzene	100-41-4	3,000.	10.	ug/l	20
06310	Xylene (Total)	1330-20-7	8,700.	10.	ug/l	20

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	03/07/2006 14:31	K. Robert Caulfeild-James	50
01412	Methanol and Ethanol	SW-846 8015B	1	03/03/2006 18:35	Laura A Lockard	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 10:32	Ginelle L Feister	20
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/08/2006 11:44	Ginelle L Feister	20
01146	GC VOA Water Prep	SW-846 5030B	1	03/07/2006 14:31	K. Robert Caulfeild-James	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/08/2006 11:44	Ginelle L Feister	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	03/08/2006 10:32	Ginelle L Feister	20

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Analysis Report

Lancaster Laboratories Sample No. WW 4716947

Trip Blank-2/22/06 Water Sample

Sunol, CA
Collected:02/22/2006

Account Number: 11875

Submitted: 02/24/2006 09:10
Reported: 03/10/2006 at 08:57
Discard: 04/10/2006

Chevron Pipeline Co.
4800 Fournace Place - E320 D
Bellaire TX 77401

QA206
e

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	03/03/2006 13:33	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2006 13:33	Ginelle L Feister	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 979364
Reported: 03/10/06 at 08:57 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: 060580012A	Sample number(s): 4716936,4716938-4716946							
Methanol (by Direct Injection)	N.D.	200.	ug/l	100		80-120		
Batch number: 06058A08A	Sample number(s): 4716936,4716938-4716940							
TPH-GRO - Waters	N.D.	50.	ug/l	118	119	70-130	0	30
Batch number: 06062A16A	Sample number(s): 4716941-4716943							
TPH-GRO - Waters	N.D.	50.	ug/l	101	102	70-130	1	30
Batch number: 06062A16B	Sample number(s): 4716944-4716946							
TPH-GRO - Waters	N.D.	50.	ug/l	101	102	70-130	1	30
Batch number: Z060621AA	Sample number(s): 4716936-4716940,4716947							
Ethanol	N.D.	50.	ug/l	113	113	35-168	0	30
Benzene	N.D.	0.5	ug/l	92	94	85-117	2	30
Toluene	N.D.	0.5	ug/l	96	97	85-115	1	30
Ethylbenzene	N.D.	0.5	ug/l	95	97	82-119	2	30
Xylene (Total)	N.D.	0.5	ug/l	97	99	83-113	2	30
Batch number: Z060663AA	Sample number(s): 4716941-4716943							
Ethanol	N.D.	50.	ug/l	111		35-168		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	98		85-115		
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xylene (Total)	N.D.	0.5	ug/l	101		83-113		
Batch number: Z060671AA	Sample number(s): 4716944-4716946							
Ethanol	N.D.	50.	ug/l	108		35-168		
Benzene	N.D.	0.5	ug/l	91		85-117		
Toluene	N.D.	0.5	ug/l	95		85-115		
Ethylbenzene	N.D.	0.5	ug/l	95		82-119		
Xylene (Total)	N.D.	0.5	ug/l	98		83-113		

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: 060580012A	Sample number(s): 4716936,4716938-4716946 UNSPK: 4716936								
Methanol (by Direct Injection)	124*	124*	81-117	0	20				
Batch number: 06058A08A	Sample number(s): 4716936,4716938-4716940 UNSPK: P717640								
TPH-GRO - Waters	67		63-154						

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

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 979364
Reported: 03/10/06 at 08:57 AM

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: 06062A16A	Sample number(s): 4716941-4716943 UNSPK: P719606								
TPH-GRO - Waters	116		63-154						
Batch number: 06062A16B	Sample number(s): 4716944-4716946 UNSPK: P719606								
TPH-GRO - Waters	116		63-154						
Batch number: Z060621AA	Sample number(s): 4716936-4716940,4716947 UNSPK: P716850								
Ethanol	116		34-161						
Benzene	100		83-128						
Toluene	103		83-127						
Ethylbenzene	103		82-129						
Xylene (Total)	104		82-130						
Batch number: Z060663AA	Sample number(s): 4716941-4716943 UNSPK: P721550								
Ethanol	109	106	34-161	3	30				
Benzene	103	104	83-128	1	30				
Toluene	104	104	83-127	1	30				
Ethylbenzene	103	102	82-129	1	30				
Xylene (Total)	89	87	82-130	1	30				
Batch number: Z060671AA	Sample number(s): 4716944-4716946 UNSPK: P721567								
Ethanol	119	123	34-161	3	30				
Benzene	100	97	83-128	3	30				
Toluene	101	98	83-127	3	30				
Ethylbenzene	99	97	82-129	2	30				
Xylene (Total)	97	94	82-130	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: Methanol and Ethanol
Batch number: 060580012A

	Acetone
4716936	115
4716938	116
4716939	114
4716940	113
4716941	117
4716942	113
4716943	116
4716944	277*
4716945	116
4716946	119
Blank	107
LCS	107
MS	115

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

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 979364
Reported: 03/10/06 at 08:57 AM

Surrogate Quality Control

MSD	113
Limits:	67-131

Analysis Name: TPH-GRO - Waters
Batch number: 06058A08A

	Trifluorotoluene-F
4716936	64
4716938	66
4716939	64
4716940	67
Blank	66
LCS	72
LCSD	73
MS	74
Limits:	63-135

Analysis Name: TPH-GRO - Waters
Batch number: 06062A16A

	Trifluorotoluene-F
4716941	123
4716942	121
4716943	101
Blank	114
LCS	94
LCSD	94
MS	94
Limits:	63-135

Analysis Name: TPH-GRO - Waters
Batch number: 06062A16B

	Trifluorotoluene-F
4716944	126
4716945	98
4716946	92
Blank	90
LCS	94
LCSD	94
MS	94
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4716936	88	84	90	83
4716937	89	85	90	84
4716938	89	84	91	85
4716939	89	85	90	84
4716940	89	84	90	84
4716947	89	85	90	84
Blank	88	84	90	86

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

Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 979364
Reported: 03/10/06 at 08:57 AM

Surrogate Quality Control

LCS	87	85	91	91
LCSD	88	85	91	88
MS	87	85	91	88
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060663AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4716941	89	83	89	86
4716942	88	83	89	84
4716943	91	85	83	85
Blank	88	83	91	87
LCS	88	84	91	89
MS	89	84	88	88
MSD	89	84	88	88
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4716944	86	81	90	87
4716945	87	81	90	87
4716946	87	82	91	87
Blank	90	84	90	84
LCS	88	84	90	88
MS	89	85	88	89
MSD	88	84	88	88
Limits:	80-116	77-113	80-113	78-113

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Grp# 979364
For Lancaster Laboratories use only

242020

Acct. #: 11875 Sample #: 4716936-47 SCR#:

Facility #: Chevron Pipeline
Site Address: Calavera Rd, Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS-Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
Sampler: Greg White & Renee McFarlain
Service Order #: ☐ Non SAR:

Analyses Requested / **Preservation Codes**

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	(BTEX) + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	___ Oxygenates	Lead 7420 ☐ 7421 ☐	Ethanol	Methanol			
MW-4-2/21/06	W			2/21/06	14:35		X			X	X					X	X			
TRIP BLANK-2/21/06	W			2/21/06						X										
MW-3-2/21/06	W			2/21/06	15:55		X			X	X					X	X			
MW-2-2/21/06	W			2/21/06	17:15		X			X	X					X	X			
DUP-2/21/06	W			2/21/06			X			X	X					X	X			

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

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
Email Results to Angela Liang, Joe Morgan, Greg White, URS

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

Relinquished by:	Date	Time	Received by:	Date	Time
G. White	2/23/06	10:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by: Kathy Binkley	2-24-06	0910
Temperature Upon Receipt 5.5° C°			Custody Seals Intact? Yes No (N/A)		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Grp # 979364
For Lancaster Laboratories use only
242090

Acct. #: 11875 Sample #: 4916936-47 SCR#:

Facility #: Chevron Pipeline
Site Address: Calaveras Rd, Sunol, CA
Chevron PM: Lead Consultant:
Consultant/Office: URS - Oakland
Consultant Prj. Mgr.: Joe Morgan
Consultant Phone #: 510-874-3201 Fax #: 510-874-3268
Sampler: Greg White, Renee McFarlen
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX / MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	EtHanol	MeHanol
MW-6-2/22/06	W			2/22/06	12:45		X			X	X					X	X
MW-5-2/22/06	W			2/22/06	13:50		X			X	X					X	X
MW-7-2/22/06	W			2/22/06	15:15		X			X	X					X	X
SVE-3S-2/22/06	W			2/22/06	16:07		X			X	X					X	X
SVE-1D-2/22/06	W			2/22/06	16:22		X			X	X					X	X
MW-1-2/22/06	W			2/22/06	17:25		X			X	X					X	X
TRIP BLANK 2/22/06	W			2/22/06			X										

Comments / Remarks

Email Results to
Joe Morgan,
Angela Liang,
Greg White
of
URS

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

	Date	Time		Date	Time
Relinquished by:	2/23/06	10:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by: Kathy Binkley	2-24-06	0910
Temperature Upon Receipt 1.6° C°			Custody Seals Intact? Yes No	N/A	

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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