

Disclosure

This report ("SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Rd, Sunol, CA Second 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 our quarterly sampling activities and our previous subsurface investigation efforts. 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 second 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 continued field activities were based on our professional experience and protocols reported in the literature for similar investigations.

> **URS** Corporation Approved by:

George Muehleck, P.G.



August 3, 2006

Mr. Jerry Wickham

Department of Environmental Health Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

### Jeff Cosgray Sr. Site Remediation

Sr. Site Remediation Specialist

Health, Environmental & Safety

Chevron Pipe Line Company 4800 Fournace, E320C Bellaire, Texas 77401-2324 Tel 713 432 3335 Fax 866 653 0301 JCOS@Chevron.com

#### 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 - Second Quarter 2006 Groundwater Monitoring Report" are true and correct to the best of my knowledge at the present time.

Submitted by

Jeff Cosgray

Chevron Pipe Line Company

August 14, 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 Rd, Sunol, CA **Second 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 (Chevron), 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 second 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.

On June 7 and 8, 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). URS also collected a surface water sample for analysis from the unnamed creek, located northwest and downslope of the release location, at the Site (Figure 2).

#### SITE HYDROGEOLOGY

Prior to collecting groundwater samples, the depth to groundwater was measured at each well from the top of casing using an electronic oil/water interface meter. Free product was not detected at any of the wells (MW-1 through MW-7). The measured depths to groundwater are displayed in Table 1 and the calculated groundwater elevations are displayed in Table 2.

The groundwater elevations for the unconfined water-bearing zone wells (MW-1 through MW-4), located in the nursery, ranges from 293 to 295 ft above mean sea level (msl). Based

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on these groundwater elevations, the inferred groundwater flow direction in the unconfined water-bearing zone is to the east with a calculated hydraulic gradient of 0.018 ft/ft (Figure 3).

The potentiometric surface elevations for the confined sandstone water-bearing zone wells (MW-5 through MW-7), located along the eastern shoulder of Calaveras Road, range from 315 to 325 ft above msl, with the highest groundwater elevation measured from MW-5, the middle well. The groundwater flow direction and hydraulic gradient have not been calculated for the confined sandstone water-bearing zone because these wells are installed in essentially a straight line along Calaveras Road for monitoring purposes. The relative groundwater elevations for these wells are similar with the first quarter groundwater levels and will continue to be monitored during future quarterly groundwater sampling events. The groundwater elevations for these wells are displayed on Figure 4.

#### SAMPLING METHODOLOGY

After measuring the groundwater level at each well, URS began groundwater sampling. As discussed in URS' First Quarter 2006 Groundwater Monitoring Report, prior to sampling, MW-1 through MW-5 were purged using low-flow methods and MW-6 and MW-7 were purged dry.

Both purging methods were conducted using disposable low-density polyethylene (LDPE) tubing and a stainless steel electronic submersible continuous discharge pump.

A surface water sample, labeled SW-Creek, was also collected from the unnamed creek northwest and downslope of the release location.

#### MW-1 through MW-5

After re-measuring the groundwater levels at MW-1 through MW-5, 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.

Low-flow purging rates were between 250 to 1000 milliliters per minute (mL/min) depending on the rate of recharge at each well. During low-flow purging, the water level in each well was measured periodically to monitor draw down. In all of the unconfined water-bearing zone wells (MW-1 through MW-4) a stabilized draw down of less than 0.1 feet was achieved. Although the drawdown at MW-5 was greater than 0.33 feet, the water level stabilized at 0.7 feet below the static water level after an initial drop when purging began. Low-flow purging will be continued at MW-5 during future quarterly sampling activities. The static and final groundwater levels before and after sampling are provided on the low-flow groundwater sampling forms for monitoring wells MW-1 through MW-5, included in Attachment A.

In addition to monitoring the water level at each well during low-flow sampling, 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, the parameter readings described above were recorded every 2-5 minutes until the parameters stabilized.

In all of the wells where low-flow purging was conducted, the parameters were considered to be stable when three consecutive readings were within the following guidelines: pH +/- 0.2 pH units, conductivity +/- 3% of reading, ORP +/- 20 millivolts (mV), DO +/- 0.2 milligrams per liter (mg/L), turbidity +/- 1.0 nephelometric turbidity units (NTU) (Attachment A).

After monitoring the field parameters, the flow through cell was detached from the pump and tubing assembly. Groundwater samples were collected directly from the pump tubing.

#### MW-6 and MW-7

Because of slow recharge rates at MW-6 and MW-7, low-flow purging methods could not be used. Instead, the monitoring wells were purged dry. At MW-6 and MW-7, approximately 30 and 35 gallons were removed from each well, respectively. After the wells were purged dry, the recharging water levels were monitored until sufficient water was present to collect the groundwater samples. Once a sufficient water column was present, the pump was restarted and operated for approximately one minute to flush out any stagnant water remaining in the pump and tubing assembly. The flow-rate during sample collection at MW-6 and MW-7 was approximately 300 to 500 mL/min.

#### ANALYTICAL PROGRAM

The groundwater samples from each well were collected in laboratory provided containers and placed on ice in a cooler immediately after collection. Each sample cooler included a trip blank and was submitted to Lancaster Analytical Laboratory in Lancaster, Pennsylvania, a California Certified Laboratory, under URS chain-of-custody procedures. The samples were analyzed on a standard turn around time.

As discussed in URS' May 2006 Additional Subsurface Investigation Report, groundwater samples collected during quarterly groundwater sampling activities are analyzed for the following parameters:

#### Gasoline Compounds

- Benzene, toluene, ethylbenzene, xylenes (BTEX) by USEPA Method 8260B
- Ethanol and methanol by USEPA Method 8015B



 Total petroleum hydrocarbons – gasoline range organics (TPH-GRO) by N. CA LUFT GRO

#### Geochemical Indicator Parameters

- Nitrate and sulfate by USEPA Method 300.0
- Total manganese and dissolved iron by USEPA Method 6010B
- Ferrous iron by SM20 Method 3500-FE B Modified
- Methane by USEPA Method 8015B Modified
- Alkalinity including breakdown by USEPA Method 310.1
- Total dissolved solids (TDS) by USEPA Method 160.1

The surface water sample was analyzed for BTEX, ethanol, methanol, and TPH-GRO.

#### GROUNDWATER ANALYTICAL RESULTS

A summary of the analytical results for the gasoline compounds is presented in Table 3 along with the San Francisco Regional Water Quality Control Board Environmental Screening Levels for groundwater as a potential source of drinking water (ESLs). A summary of the analytical results for the geochemical indicator parameters is presented in Table 4. The complete laboratory analytical results and chain of custodies are included as Attachment B.

#### Gasoline Compounds

Concentrations of gasoline compounds in the groundwater samples collected from the unconfined water-bearing zone (MW-1 through MW-4) remained below their respective laboratory reporting limits in the second quarter of 2006 except for MW-1. For MW-1, the concentrations for TPH-GRO and BTEX have decreased substantially since the first quarter of 2006. TPH-GRO decreased from 57,000 to 37,000 micrograms per liter ( $\mu$ g/L), benzene decreased from 38 to 10  $\mu$ g/L, toluene decreased from 2,700 to 330  $\mu$ g/L, ethylbenzene decreased from 3,000 to 120  $\mu$ g/L, and xylenes decreased from 8,700 to 8,200  $\mu$ g/L. Ethanol and methanol concentrations remained below their respective laboratory reporting limits for MW-1.

Concentrations of gasoline compounds in the groundwater samples collected from the confined sandstone water-bearing zone (MW-5 through MW-7) were below their respective laboratory reporting limits with the exception of MW-7. Trace amounts of toluene and xylenes  $(0.6 \,\mu\text{g/L})$  for toluene and  $1.0 \,\mu\text{g/L}$  for xylenes) were detected in MW-5 in the first quarter of 2006; however, the concentrations dropped and no gasoline compounds were detected above their respective laboratory reporting limits in the second quarter of 2006. Concentrations of gasoline compounds in MW-6 remained below their respective laboratory reporting limits in the second quarter of 2006. For MW-7, TPH-GRO, methanol, and ethanol concentrations remained below the laboratory reporting limits. Trace amounts of BTEX remained in MW-7

with the exception of toluene, which was below its reporting limit. The concentrations of all gasoline compounds for MW-7 remained below the most stringent ESLs.

No gasoline compounds were reported in the surface water sample collected from the unnamed creek.

#### Geochemical Indicator Parameters

DO concentration quantifies the amount of oxygen available for aerobic respiration. When DO is available, it is the primary electron acceptor used by in-situ microbes to biodegrade organic carbon. Where DO concentrations are decreased relative to upgradient concentrations within a dissolved plume, aerobic respiration is indicated. Once DO is depleted, nitrate, manganese (Mn IV), ferric iron (Fe III), and sulfate are used as electron acceptors. This sequence of biodegradation represents the ideal. Historical field data from various sites indicate that contaminant plume biodegradation can be affected by such variables as hydrogeologic setting, water temperature, pH, total organic carbon, alkalinity, and contaminant concentrations. Interaction between contaminants and electron acceptors is not static and changes both temporally and spatially (Wiedemeier et al. 1999).

Geochemical indicator parameters were collected for MW-1 through MW-5 in the second quarter of 2006. More data are required to establish a meaningful enhanced bioremediation and/or natural attenuation review. URS recommends continued monitoring of the geochemical indicator parameters at the Site during future quarterly groundwater sampling activities.

#### CONCLUSIONS

- No free product was observed in any groundwater monitoring wells in the second quarter of 2006.
- No gasoline compounds were detected in wells MW-2 through MW-6 and the unnamed creek.
- Concentrations of gasoline compounds in MW-1 have decreased substantially: 35
  percent decrease for TPH-GRO, 74 percent decrease for benzene, 88 percent decrease
  for toluene, 96 percent for ethylbenzene, and 6 percent for xylenes.
- Trace amount of gasoline compounds were observed in MW-7, but the concentrations remained below the most stringent ESLs.

#### RECOMMENDATIONS

- Continue gauging groundwater elevations and collecting analytical samples from the unconfined water-bearing zone groundwater monitoring wells (MW-1 through MW-4).
- Incorporate the two additional proposed unconfined water-bearing zone groundwater monitoring wells (URS' July 2006 Work Plan for Groundwater Monitoring Well Installation and SVE System Expansion and Operation) into future quarterly groundwater monitoring activities.
- Continue gauging groundwater elevations and collecting analytical samples from the
  confined sandstone water-bearing zone groundwater monitoring wells (MW-5
  through MW-7). No additional investigation is planned for the confined sandstone
  water-bearing zone because only trace amounts of hydrocarbons have been detected
  during quarterly groundwater sampling at MW-5 and MW-7. All detections have
  been below the most stringent ESLs.
- Continue low-flow groundwater sampling techniques at MW-5.
- Continue analyzing future quarterly groundwater samples for geochemical indicator parameters.

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

Sincerely,

**URS CORPORATION** 

Joe Morgan III

Senior Project Manager

# TABLE 1 Monitoring Well Groundwater Levels Second Quarter 2006 Chevron Sunol Pipeline

Well ID	Screen Intervals	Depth to Groundwater (feet)			
	(feet)	2/21/2006	6/7/2006		
MW-1	29.4-39.5	36.34	34.28		
MW-2	23.8-38.8	32.19	30.23		
MW-3	22.2-37.2	31.97	30.91		
MW-4	30.7-40.7	36.72	35.76		
MW-5	39.5-49.5	11.48	10.61		
MW-6	34.7-49.7	18.02	16.83		
MW-7	34.7-49.7	15.43	16.68		

#### Notes:

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

#### TABLE 2 Monitoring Well Groundwater Elevations Second Quarter 2006 Chevron Sunol Pipeline

Well ID	Date Completed	Ground Surface Elevation	Top of Casing Elevation	Groundwater Elevations (feet msl)		
	oopiotou	(ft msl)	(ft msl)	2/21/2006	6/7/2006	
MW-1	10/20/2005	328.49	328.04	291.70	293.76	
MW-2	10/21/2005	324.85	324.15	291.96	293.92	
MW-3	10/21/2005	326.05	325.65	293.68	294.74	
MW-4	1/31/2006	329.97	329.67	292.95	293.91	
MW-5	1/27/2006	335.14	334.81	323.33	324.20	
MW-6	1/27/2006	332.61	332.38	314.36	315.55	
MW-7	1/27/2006	336.46	336.22	320.79	319.54	

#### 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 of Groundwater Analytical Results Gasoline Compounds Second Quarter 2006 Chevron Sunol Pipeline

				Gaso	line Compoun	ds		
Well ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Ethanol	Methanol
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
ESL <sup>1)</sup>		100	1	40	30	20	50,000	NL
MW-1	2/22/2006	57,000	38	2,700	3,000	8,700	<1,000	<200
	6/8/2006	37,000	10	330	120	8,200	<250	<200
MW-2	2/21/2006 <sup>2)</sup>	<50 / <50	<0.5 / <0.5	<0.5 / <0.5	<0.5 / <0.5	<0.5 / <0.5	<50 / <50	<200 / <200
	6/7/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
MW-3	2/21/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
	6/7/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
MW-4	2/21/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
	6/7/2006	<50	<0.5	<0.5	< 0.5	< 0.5	<50	<200
MW-5	2/22/2006	<50	<0.5	0.6	<0.5	1	<50	<200
	6/8/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
MW-6	2/22/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
	6/7/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200
MW-7	2/22/2006	<50	0.7	2	0.9	5	<50	<200
	6/8/2006	<50	0.7	<0.5	1	4	<50	<200
SW-Creek	6/7/2006	<50	<0.5	<0.5	<0.5	<0.5	<50	<200

#### Notes:

Values in bold indicate concentrations exceed ESL.

NL - ESL not listed for this compound.

- 1) Environmental Screening Levels (ESLs) for groundwater as a current or potential source of drinking water were obtained from the San Francisco Regional Water Quality Control Board (RWQCB) Interim Final: Table A, February 2005.
- 2) Both sample and duplicate concentrations from well location are displayed.

# TABLE 4 Summary of Groundwater Analytical Results Geochemical Indicators and Other Parameters Second Quarter 2006 Chevron Sunol Pipeline

			Geochemical Indicators and Other Parameters										
Well ID	Date	DO <sup>1)</sup>	ORP <sup>1)</sup>	Nitrate	Manganese	Ferrous Iron	Dissolved Iron	Sulfate	Methane	pH <sup>1)</sup>	TDS	Alkalinity to pH 4.5	Alkalinity to pH 8.3
		(mg/L)	(mV)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		(mg/L)	(mg/L) as CaCO <sub>3</sub>	(mg/L) as CaCO <sub>3</sub>
MW-1	6/8/2006	0.28	88.15	2.60	0.116	<0.008	< 0.052	48.30	< 0.002	6.62	494.00	317.00	<0.46
MW-2	6/7/2006	$NR^{3)}$	36.43	11.90	0.003	<0.008	< 0.052	47.50	< 0.002	6.56	465.00	286.00	<0.46
MW-3	6/7/2006	0.37	31.23	10.90	0.005	<0.008	< 0.052	45.10	< 0.002	6.56	446.00	274.00	<0.46
MW-4	6/7/2006	0.28	29.57	9.20	0.020	0.059	< 0.052	60.20	< 0.002	6.65	423.00	282.00	< 0.46
MW-5	6/8/2006	0.19	12.05	<0.25	0.029	0.120	< 0.052	71.30	0.004	7.24	502.00	313.00	2.60
MW-6	6/7/2006	NM <sup>2)</sup>	NM <sup>2)</sup>	<0.25	0.599	12.600	< 0.052	41.60	<0.002	NM <sup>2)</sup>	531.00	364.00	3.70
MW-7	6/8/2006	NM <sup>2)</sup>	NM <sup>2)</sup>	< 0.25	0.706	13.400	< 0.052	70.40	0.022	NM <sup>2)</sup>	542.00	310.00	5.90

#### Notes:

DO = Dissolved oxygen

ORP = Oxygen reduction potential

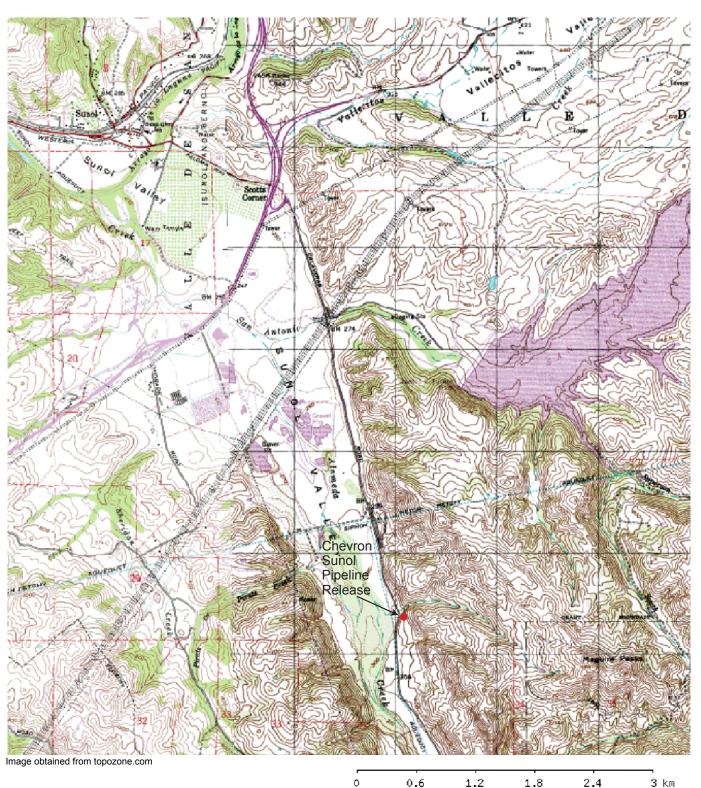
TDS = Total dissolved solids

CaCO3 = Calcium Carbonate

NM = Not measured

NR = Not Reported

- 1) DO, ORP, and pH values were obtained in the field using a flow-through cell and a multi-parameter meter.
- 2) Field data was not collected for DO, ORP, and pH for MW-6 and MW-7 during the second quarter 2006 sampling activities because the groundwater was removed without using the in-line flow-through cell.
- 3) DO meter did not appear to be functioning correctly at MW-2 during the second quarter 2006 sampling activities.



N

MAP REFERENCE:

PORTION OF U.S.G.S. QUANDRANGLE MAP 71/2 MINUTE SERIES (TOPOGRAPHIC) LA COSTA VALLEY QUADRANGLE



ó	0.6	1.2	1.8	2.4	3 km
ó	0.4	0.8	1.2	1.6	 2 mi

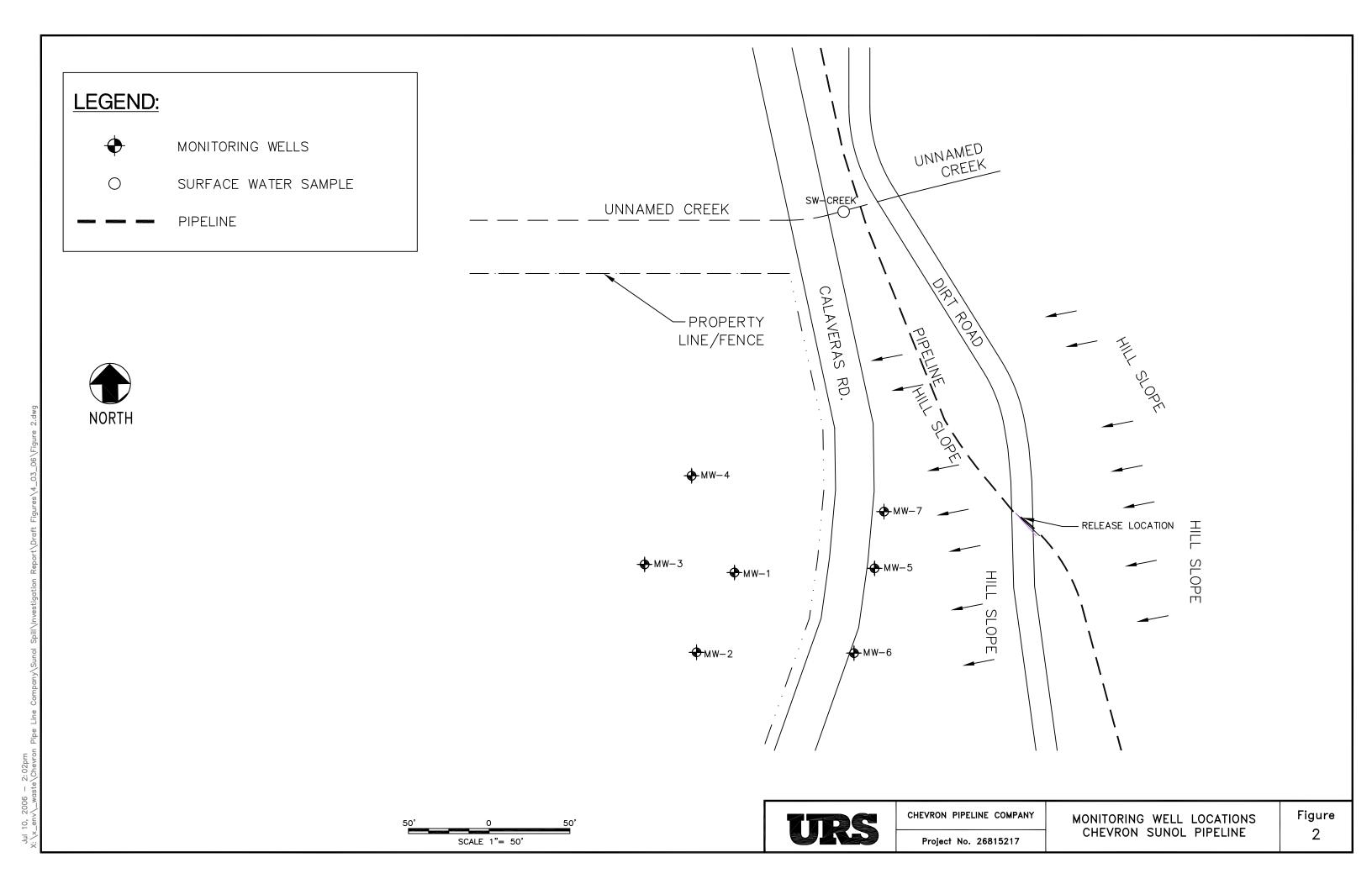


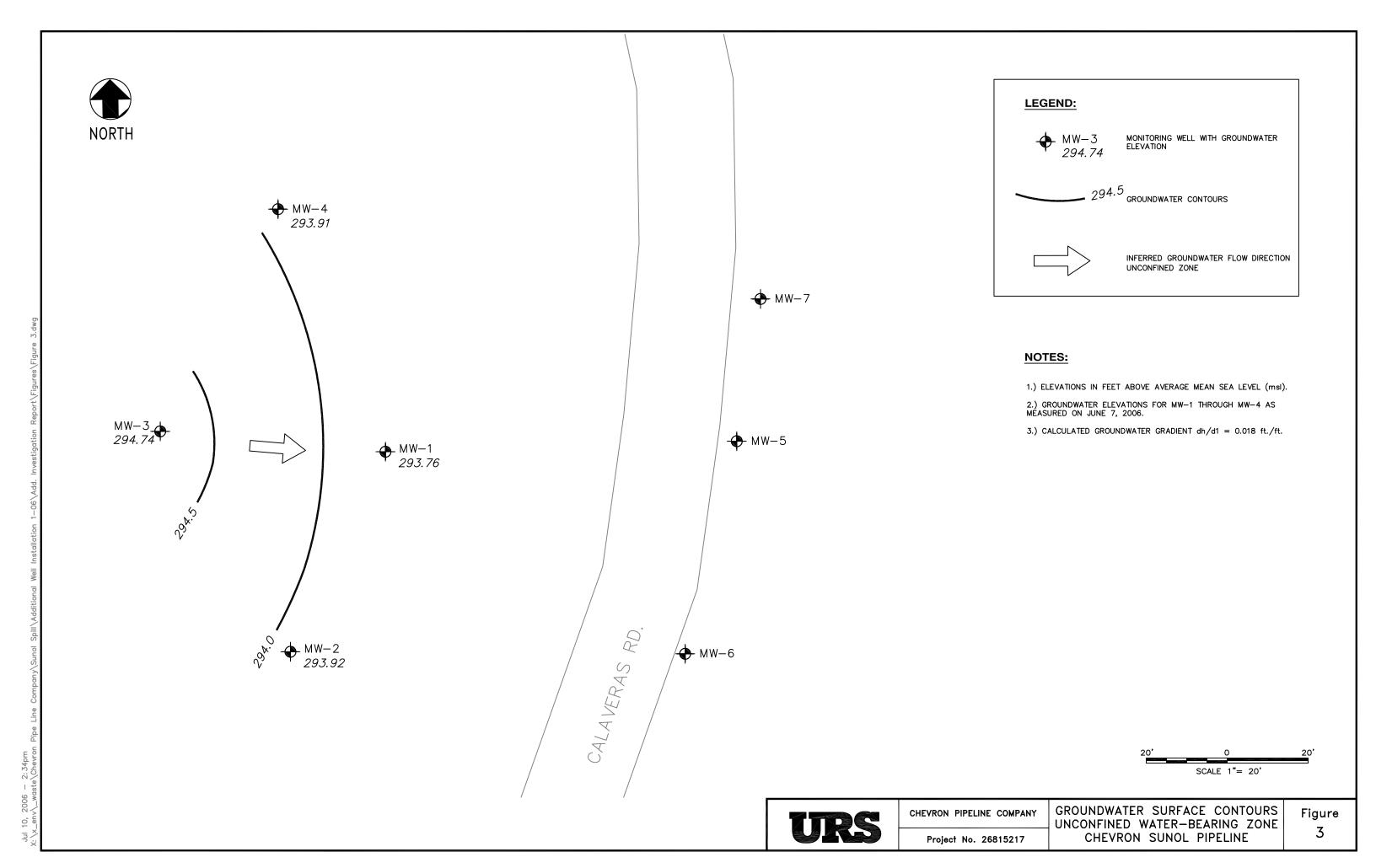
Chevron Pipeline Company

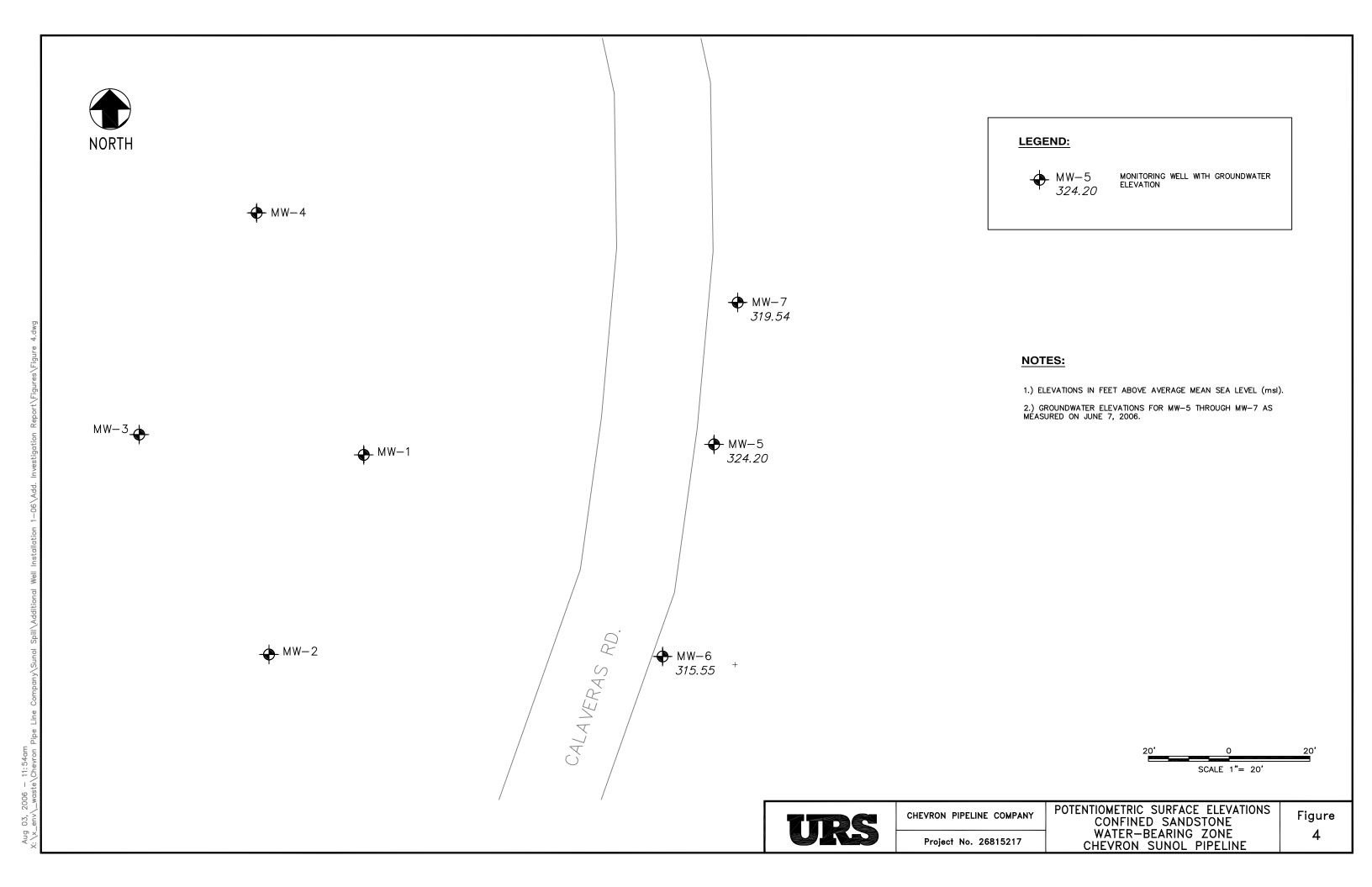
Project No. 26815217

SITE VICINITY MAP CHEVRON SUNOL PIPELINE SUNOL, CALIFORNIA

Figure 1







Attachment A Low Flow Sampling Forms



**Troll 9000** 06/08/06

Low-Flow System ISI Low-Flow Log

**Project Information:** 

Operator Name Greg White
Company Name URS
Project Name Chevron Sunol 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 36 [ft]

**Well Information:** 

Well IdMW-1Well diameter4 [in]Well total depth40 [ft bgs]Depth to top of screen29.3 [ft bgs]Screen length10 [ft]Depth to Water34.91 [ft bgs]

**Pumping information:** 

Final pumping rate 850 [mL/min]
Flowcell volume 1009.07 [mL]
Calculated Sample Rate 243 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0.06 [ft]

#### **Low-Flow Sampling Stabilization Summary**

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-1	+/-1	+/-0.2	+/-20
				+/-3 %			
	5.52E-02	17.74	6.61	740.86	5.03	0.31	94.70
	5.66E-02	16.94	6.61	722.99	6.02	0.30	93.06
Last 5 Readings	5.80E-02	16.87	6.61	718.54	7.46	0.29	91.44
	5.94E-02	16.67	6.61	713.49	9.05	0.28	89.99
	6.08E-02	16.68	6.62	712.51	11.40	0.28	88.15
	5.80E-02	-0.07	0.00	-4.45	1.44	-0.01	-1.62
Variance in last 3 readings	5.94E-02	-0.21	0.00	-5.05	1.59	-0.01	-1.45
	6.08E-02	0.01	0.01	-0.98	2.35	0.00	-1.84

**Notes:** Initial water level: 34.46 ft TOC-N

Final water level: 34.52 ft TOC-N Initial pumping rate: 400 mL/min Final pumping rate: 850 mL/min Total volume removed: 5 gal



**Troll 9000** 06/07/06

Low-Flow System ISI Low-Flow Log

**Project Information:** 

Operator Name Greg White
Company Name URS
Project Name Chevron Sunol 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 34 [ft]

**Well Information:** 

Well IdMW-2Well diameter4 [in]Well total depth38.75 [ft bgs]Depth to top of screen23.75 [ft bgs]Screen length15 [ft]Depth to Water30.95 [ft bgs]

**Pumping information:** 

Final pumping rate 350 [mL/min]
Flowcell volume 1009.07 [mL]
Calculated Sample Rate 243 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0.01 [ft]

#### **Low-Flow Sampling Stabilization Summary**

	Time	Temp [F]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-1	+/-1	+/-0.2	+/-20
				+/-3 %			
	5.71E-02	63.20	6.60	702.17	12.16	2.54	38.47
	5.85E-02	61.97	6.58	690.31	13.74	2.73	38.17
Last 5 Readings	6.00E-02	62.93	6.57	698.75	13.62	2.52	37.66
	6.14E-02	62.59	6.56	695.57	13.88	2.55	37.24
	6.28E-02	63.14	6.56	700.19	14.44	2.39	36.43
	6.00E-02	0.96	-0.01	8.44	-0.12	-0.21	-0.51
Variance in last 3 readings	6.14E-02	-0.34	-0.01	-3.18	0.26	0.03	-0.42
	6.28E-02	0.55	0.00	4.62	0.56	-0.16	-0.81

**Notes:** Initial water level: 30.29 ft

Final water level: 30.28 ft

Initial pumping rate: 1000 mL/min Final pumping rate: 350 mL/min Total volume removed: 14 gal

DO meter did not appear to be functioning correctly during low-flow activities. Re-calibrated

muliparameter meter prior to setting up for low-flow sampling at next well location.



**Troll 9000** 06/07/06

Low-Flow System ISI Low-Flow Log

**Project Information:** 

Operator Name Greg White
Company Name URS
Project Name Chevron Sunol 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 34 [ft]

**Well Information:** 

Well Id MW-3
Well diameter 4 [in]
Well total depth 37.24 [ft bgs]
Depth to top of screen 22.24 [ft bgs]
Screen length 15 [ft]
Depth to Water 31.54 [ft bgs]

Pumping information:

Final pumping rate 600 [mL/min]
Flowcell volume 1009.07 [mL]
Calculated Sample Rate 243 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0.01 [ft]

#### **Low-Flow Sampling Stabilization Summary**

	Time	Temp [F]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-1	+/-1	+/-0.2	+/-20
				+/-3 %			
	23:18:33	59.59	6.54	644.41	-0.05	0.38	38.60
	23:20:34	59.75	6.55	646.00	0.40	0.37	36.36
Last 5 Readings	23:22:38	59.77	6.56	645.84	-0.28	0.37	34.04
	23:24:39	59.92	6.56	647.43	-0.02	0.37	32.57
	23:26:42	60.00	6.56	647.26	-0.15	0.37	31.23
	23:22:38	0.02	0.01	-0.17	-0.67	0.00	-2.32
Variance in last 3 readings	23:24:39	0.15	0.00	1.59	0.26	0.00	-1.47
	23:26:42	0.08	0.00	-0.17	-0.13	0.00	-1.34

**Notes:** Initial water level: 30.94 ft

Final water level: 30.95 ft

Initial pumping rate: 700 mL/min Final pumping rate: 600 mL/min Total volume removed: 5 gal



**Troll 9000** 06/07/06

Low-Flow System ISI Low-Flow Log

**Project Information:** 

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

**Pump Information:** 

Pump Model/Type Mega Typhoon
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 45 [ft]
Pump placement from TOC 38 [ft]

**Well Information:** 

Well Id MW-4
Well diameter 4 [in]
Well total depth 40.7 [ft bgs]
Depth to top of screen 30.7 [ft bgs]
Screen length 10 [ft]
Depth to Water 36.09 [ft bgs]

**Pumping information:** 

Final pumping rate 950 [mL/min]
Flowcell volume 1094.34 [mL]
Calculated Sample Rate 263 [sec]
Sample rate 263 [sec]
Stabilized drawdown 0.02 [ft]

#### **Low-Flow Sampling Stabilization Summary**

	Time	Temp [F]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-1	+/-1	+/-0.2	+/-20
				+/-3 %			
	21:47:13	60.92	6.58	645.70	2.60	1.00	38.73
	21:51:42	60.37	6.61	640.64	7.67	3.87	36.59
Last 5 Readings	21:56:09	59.82	6.63	635.91	5.52	0.31	33.60
	22:00:37	59.63	6.64	633.70	10.10	0.27	31.38
	22:05:06	59.78	6.65	634.89	15.41	0.28	29.57
	21:56:09	-0.55	0.01	-4.73	-2.15	-3.56	-2.99
Variance in last 3 readings	22:00:37	-0.19	0.01	-2.21	4.58	-0.04	-2.22
	22:05:06	0.14	0.01	1.20	5.31	0.01	-1.81

**Notes:** Initial water level: 35.85 ft

Final water level: 35.83 ft Initial pumping rate: 400mL/min Final pumping rate: 950 mL/min Total volume removed: 15 gal



**Troll 9000** 06/08/06

Low-Flow System ISI Low-Flow Log

**Project Information:** 

Operator Name Greg White
Company Name URS
Project Name Chevron Sunol 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 44 [ft]

**Well Information:** 

Well IdMW-5Well diameter4 [in]Well total depth49.5 [ft bgs]Depth to top of screen39.5 [ft bgs]Screen length10 [ftDepth to Water10.91 [ft bgs]

**Pumping information:** 

Final pumping rate 250 [mL/min]
Flowcell volume 1009.07 [mL]
Calculated Sample Rate 243 [sec]
Sample rate 180 [sec]
Stabilized drawdown 0.70 [ft]

#### **Low-Flow Sampling Stabilization Summary**

	Time	Temp [C]	pH [pH]	Cond [uS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-1	+/-1	+/-0.2	+/-20
				+/-3 %			
	21:04:03	17.75	7.24	715.09	4.29	0.21	34.56
	21:07:05	17.68	7.23	714.00	4.22	0.61	29.35
Last 5 Readings	21:10:09	17.72	7.23	714.65	4.06	0.20	23.02
	21:13:13	17.81	7.24	716.06	4.43	0.20	17.61
	21:16:17	17.84	7.24	716.57	4.01	0.19	12.05
	21:10:09	0.04	0.00	0.65	-0.16	-0.41	-6.32
Variance in last 3 readings	21:13:13	0.09	0.00	1.41	0.37	0.00	-5.41
	21:16:17	0.03	0.00	0.52	-0.42	-0.01	-5.56

**Notes:** Initial water level: 10.97 ft

Final water level: 11.67 ft Initial pumping rate: 350 mL/min Final pumping rate: 250 mL/min Total volume removed: 3.5 gal Attachment B Laboratory Analytical Results



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#### 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 992722. Samples arrived at the laboratory on Thursday, June 08, 2006. The PO# for this group is 0015010091 and the release number is COSGRAY.

Client Description	Lancaster Labs Number
Trip Blank-6/7/06 Water Sample	4789106
Un-Named Creek-6/7/06 Grab Water Sample	4789107
MW-2-GW-6/7/06 Grab Water Sample	4789108
MW-2-GW-6/7/06 Filtered Grab Water Sample	4789109
MW-6-GW-6/7/06 Grab Water Sample	4789110
MW-6-GW-6/7/06 Filtered Grab Water Sample	4789111
MW-4-GW-6/7/06 Grab Water Sample	4789112
MW-4-GW-6/7/06 Filtered Grab Water Sample	4789113
MW-3-GW-6/7/06 Grab Water Sample	4789114
MW-3-GW-6/7/06 Filtered Grab Water Sample	4789115
Trip Blank-6/7/06 Water Sample	4789116

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



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

Respectfully Submitted,

Max E. Snavely Senior Specialist



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#### Lancaster Laboratories Sample No. WW 4789106

#### Trip Blank-6/7/06 Water Sample

Sunol, CA

Collected: 06/07/2006 Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### TB677

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06053	BTEX by 8260B					
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.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06053	BTEX by 8260B	SW-846 8260B	1	06/18/2006 06:59	Marc S Neal	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:59	Marc S Neal	1



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#### Lancaster Laboratories Sample No. WW 4789107

#### Un-Named Creek-6/7/06 Grab Water Sample

Sunol, CA

Collected: 06/07/2006 13:20 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### UNNAC

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TF gasoline constituents eluting pr start time.					
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	06/13/2006 06:22	Martha L Seidel	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 02:05	Hai D Nguyen	1
01594	BTEX+5	SW-846 8260B	1	06/18/2006 05:59	Marc S Neal	1
	Oxygenates+EDC+EDB+ETOH					
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2006 06:22	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 05:59	Marc S Neal	1



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#### Lancaster Laboratories Sample No. WW 4789108

#### MW-2-GW-6/7/06 Grab Water Sample

Sunol, CA

Collected: 06/07/2006 13:40 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### 2GW67

				As Received		
CAT			As Received	Method	_	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of The gasoline constituents eluting prestart time.	rior to the C6	(n-hexane) TPH-G	RO range		
07058	Manganese	7439-96-5	2.5	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	286,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	465,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	47,500.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	11,900.	250.	ug/l	5
08344	Ferrous Iron	n.a.	N.D.	8.0	ug/l	1
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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	uq/l	1
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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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/13/2006 06:41 Martha L	Seidel 1



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#### Lancaster Laboratories Sample No. WW 4789108

#### MW-2-GW-6/7/06 Grab Water Sample

Sunol, CA

Collected:06/07/2006 13:40 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discar	d: 07/21/2006		В	ellaire TX 77401	<u> </u>	
2GW67						
07058	Manganese	SW-846 6010B	1	06/13/2006 19:32	Choon Y Tian	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/13/2006 11:45	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/13/2006 11:45	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/10/2006 07:08	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/09/2006 08:17	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/09/2006 08:17	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/08/2006 22:40	Daniel S Smith	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 02:22	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 15:30	Robert I Pusch	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 06:23	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2006 06:41	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:23	Marc S Neal	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/12/2006 19:40	James L Mertz	1



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Lancaster Laboratories Sample No. WW 4789109

MW-2-GW-6/7/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/07/2006 13:40 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

2GWDM

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/13/2006 06:36	Eric L Eby	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/12/2006 19:40	James L Mertz	1



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#### Lancaster Laboratories Sample No. WW 4789110

#### MW-6-GW-6/7/06 Grab Water Sample

Sunol, CA

Collected: 06/07/2006 15:55 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### 6GW67

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TI gasoline constituents eluting prestart time.					
07058	Manganese	7439-96-5	599.	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	3,700.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	364,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	531,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	41,600.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	N.D.	250.	ug/l	5
08344	Ferrous Iron	n.a.	12,600.	200.	ug/l	25
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/13/2006 07:00 Martha L	Seidel 1



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#### Lancaster Laboratories Sample No. WW 4789110

#### MW-6-GW-6/7/06 Grab Water Sample

#### Sunol, CA

Collected: 06/07/2006 15:55 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 Discard: 07/21/2006 4800 Fournace Place - E320 D

Bellaire TX 77401

DISCAL	u: 07/21/2000		ь	Sellalle IX //401	L	
6GW67						
07058	Manganese	SW-846 6010B	1	06/13/2006 19:24	Choon Y Tian	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/10/2006 07:08	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/09/2006 08:47	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/09/2006 08:47	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/08/2006 22:40	Daniel S Smith	25
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 02:39	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 15:43	Robert I Pusch	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 06:46	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2006 07:00	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:46	Marc S Neal	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/12/2006 19:53	James L Mertz	1



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Lancaster Laboratories Sample No. WW 4789111

MW-6-GW-6/7/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/07/2006 15:55 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:26 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

6GWDM

CAT As Received

CAS Number Result Detection Units Factor

1754 Iron 7439-89-6 N.D. 52.2 ug/1 1

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/13/2006 19:27	Choon Y Tian	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/12/2006 19:53	James L Mertz	1



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#### Lancaster Laboratories Sample No. WW 4789112

#### MW-4-GW-6/7/06 Grab Water Sample

Sunol, CA

Collected: 06/07/2006 10:15 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### 4GW67

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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.					
07058	Manganese	7439-96-5	19.9	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	282,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	423,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	60,200.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	9,200.	250.	ug/l	5
08344	Ferrous Iron	n.a.	59.	8.0	ug/l	1
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/13/2006 07:19 Martha L	Seidel 1



06/18/2006 07:09 Marc S Neal

1 06/12/2006 19:53 James L Mertz

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1

1

#### Lancaster Laboratories Sample No. WW 4789112

WW SW846 ICP Digest (tot SW-846 3005A

#### MW-4-GW-6/7/06 Grab Water Sample

GC/MS VOA Water Prep

#### Sunol, CA

01163

01848

rec)

Collected:06/07/2006 10:15 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

SW-846 5030B

4GW67						
07058	Manganese	SW-846 6010B	1	06/13/2006 19:38	Choon Y Tian	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/10/2006 07:08	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/09/2006 08:03	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/09/2006 08:03	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/08/2006 22:40	Daniel S Smith	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 02:56	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 15:56	Robert I Pusch	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 07:09	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2006 07:19	Martha L Seidel	1



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Lancaster Laboratories Sample No. WW 4789113

MW-4-GW-6/7/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/07/2006 10:15 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

4GWDM

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/13/2006 19:42	Choon Y Tian	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/12/2006 19:53	James L Mertz	1



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#### Lancaster Laboratories Sample No. WW 4789114

#### MW-3-GW-6/7/06 Grab Water Sample

Sunol, CA

Collected: 06/07/2006 11:30 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

#### 3GW67

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of Tigasoline constituents eluting pastart time.					
07058	Manganese	7439-96-5	4.6	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	274,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	446,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	45,100.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	10,900.	250.	ug/l	5
08344	Ferrous Iron	n.a.	N.D.	8.0	ug/l	1
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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	uq/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	uq/l	1
	*				٥.	

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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/13/2006 07:39 Martha I	Seidel 1



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### Lancaster Laboratories Sample No. WW 4789114

### MW-3-GW-6/7/06 Grab Water Sample

Sunol, CA

rec)

Collected: 06/07/2006 11:30 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

3GW67						
07058	Manganese	SW-846 6010B	1	06/13/2006 19:46	Choon Y Tian	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/14/2006 08:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/10/2006 07:08	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/09/2006 08:32	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/09/2006 08:32	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/08/2006 22:40	Daniel S Smith	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 03:13	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 16:23	Robert I Pusch	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 07:32	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2006 07:39	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 07:32	Marc S Neal	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/12/2006 19:53	James L Mertz	1



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Lancaster Laboratories Sample No. WW 4789115

MW-3-GW-6/7/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/07/2006 11:30 by GW Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

5GWDM

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/13/2006 19:49	Choon Y Tian	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/12/2006 19:53	James L Mertz	1



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#### Lancaster Laboratories Sample No. WW 4789116

### Trip Blank-6/7/06 Water Sample

Sunol, CA

Collected:06/07/2006 Account Number: 11875

Submitted: 06/08/2006 09:10 Chevron Pipeline Co.

Reported: 06/20/2006 at 12:27 4800 Fournace Place - E320 D

Discard: 07/21/2006 Bellaire TX 77401

TB286

			As Received		-17
		As Received	Method		Dilution
Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
BTEX by 8260B					
Benzene	71-43-2	N.D.	0.5	ug/l	1
Toluene	108-88-3	N.D.	0.5	ug/l	1
Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
	BTEX by 8260B  Benzene Toluene Ethylbenzene	BTEX by 8260B  Benzene 71-43-2 Toluene 108-88-3 Ethylbenzene 100-41-4	BTEX by 8260B  Benzene 71-43-2 N.D. Toluene 108-88-3 N.D. Ethylbenzene 100-41-4 N.D.	Analysis Name         CAS Number         As Received Result         Method Detection Limit           BTEX by 8260B         71-43-2         N.D.         0.5           Benzene         71-43-2         N.D.         0.5           Toluene         108-88-3         N.D.         0.5           Ethylbenzene         100-41-4         N.D.         0.5	Analysis Name         CAS Number         Result         Method Detection Limit         Units           BTEX by 8260B         71-43-2         N.D.         0.5         ug/l           Benzene         71-43-2         N.D.         0.5         ug/l           Toluene         108-88-3         N.D.         0.5         ug/l           Ethylbenzene         100-41-4         N.D.         0.5         ug/l

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.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06053	BTEX by 8260B	SW-846 8260B	1	06/18/2006 07:23	Marc S Neal	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 07:23	Marc S Neal	1



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992722

Reported: 06/20/06 at 12:27 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 %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 06159130102A Sulfate Nitrate Nitrogen	Sample N.D. N.D.	number(s): 0.30 0.050	4789108,4 mg/l mg/l	1789112,47 99 98	89114	89-110 90-110		
Batch number: 06159130102B Sulfate Nitrate Nitrogen	Sample N.D. N.D.	number(s): 0.30 0.050	4789110 mg/l mg/l	99 98		89-110 90-110		
Batch number: 06159834401A Ferrous Iron	Sample N.D.	number(s): 0.0080	4789108,4 mg/l	1789110,47 98	89112,4789	9114 95-105		
Batch number: 06161021201A Total Dissolved Solids	Sample N.D.	number(s): 9.7	4789108,4 mg/l	1789110,47 95	89112,4789	9114 80-120		
Batch number: 061630030A Methanol (by Direct Injection)	Sample N.D.	number(s):	4789107-4 ug/l	1789108,47 81	89110,4789	9112,4789114 80-120		
Batch number: 061631848004 Iron Manganese	Sample N.D. N.D.	number(s): 0.0522 0.00036	mg/1	1789109 98 98		90-112 90-110		
Batch number: 061631848006 Iron Manganese	Sample N.D. N.D.	number(s): 0.0522 0.00036	mg/1	1789115 95 99		90-112 90-110		
Batch number: 06164020202A Alkalinity to pH 4.5	Sample	<pre>number(s):</pre>	4789108	101		98-103		
Batch number: 06164A54A TPH-GRO - Waters	Sample N.D.	number(s): 50.	4789107-4 ug/l	1789108,47 114	/89110,4789 106	9112,4789114 70-130	7	30
Batch number: 06165020201A Alkalinity to pH 4.5	Sample	<pre>number(s):</pre>	4789110,4	1789112,47 102	89114	98-103		
Batch number: 061670015A Methane	Sample N.D.	number(s): 2.0	4789108,4 ug/l	1789110,47 95	89112,4789	9114 80-120		
Batch number: D061681AA Ethanol Benzene Toluene Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D. N.D.	number(s): 50. 0.5 0.5 0.5 0.5	4789107-4 ug/1 ug/1 ug/1 ug/1 ug/1	1789108,47 115 107 105 105 104	89110,4789	9112,4789114 35-168 85-117 85-115 82-119 83-113		
Batch number: Z061682AA Benzene Toluene	Sample N.D. N.D.	number(s): 0.5 0.5	4789106,4 ug/l ug/l	1789116 92 104		85-117 85-115		

- (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.



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992722

Reported: 06/20/06 at 12:27 PM

### Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
<u>Analysis Name</u>	<u>Result</u>	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	RPD Max
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xvlene (Total)	N.D.	0.5	ug/l	103		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 <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
Batch number: 06159130102A Sulfate Nitrate Nitrogen	Sample 112* 107	number	(s): 4789108 90-110 90-110	,478913	12,4789	114 UNSPK: 41.4 N.D.	P788674 BKG 41.3 N.D.	: P788674 0 0 (1)	3 2
Batch number: 06159130102B Sulfate Nitrate Nitrogen	Sample 112* 111*	number	(s): 4789110 90-110 90-110	UNSPK	: 47891	10 BKG: 478 41.6 N.D.	9110 40.1 N.D.	4* 0 (1)	3 2
Batch number: 06159834401A Ferrous Iron	Sample 95	number 99	(s): 4789108 86-110	,478913 2	10,4789 4	112,4789114 7.3	UNSPK: P789	9424 BKG: P' 1 (1)	789424 8
Batch number: 06161021201A Total Dissolved Solids	Sample 103	number	(s): 4789108 60-140	,478911 1	10,4789 5	112,4789114 10,600.	UNSPK: P788	8750 BKG: P'	788750 5
Batch number: 061630030A Methanol (by Direct Injection)	Sample 88	number 88	(s): 4789107 81-117	-478910 0	08,4789 20	110,4789112	,4789114 UNS	SPK: P785102	2
Batch number: 061631848004 Iron Manganese	Sample 100 98	number 100 99	(s): 4789108 75-125 75-125	-478910 0 1	09 UNSP 20 20	K: P787731 0.137 0.0040	BKG: P787733 0.139 0.0042	1 1 (1) 4 (1)	20 20
Batch number: 061631848006 Iron Manganese	Sample 103 101	number 98 98	(s): 4789110 75-125 75-125	-478911 2 2	15 UNSP 20 20	K: P788656 1.75 0.555	BKG: P788656 1.74 0.551	6 1 1	20 20
Batch number: 06164020202A Alkalinity to pH 8.3 Alkalinity to pH 4.5	Sample	number	(s): 4789108 64-130	UNSPK 9*	: P7890 2	61 BKG: P78 N.D. 325.	9061 N.D. 333.	0 (1) 3	4 4
Batch number: 06164A54A TPH-GRO - Waters	Sample 123	number	(s): 4789107 63-154	-478910 4	08,4789 30	110,4789112	,4789114 UNS	SPK: P78996	4
Batch number: 06165020201A Alkalinity to pH 8.3 Alkalinity to pH 4.5	Sample	number	(s): 4789110 64-130	,47891: 3*	12,4789 2	114 UNSPK: N.D. 115.	P789419 BKG N.D. 123.	: P789419 0 (1) 7*	4 4
Batch number: 061670015A Methane	Sample 100	number	(s): 4789108 63-124	,47891 8	10,4789 20	112,4789114	UNSPK: P78	7305	
Batch number: D061681AA Ethanol Benzene Toluene	Sample 85 107 103	number 70 107 104	(s): 4789107 34-161 83-128 83-127	-478910 20 0 1	08,4789 30 30 30	110,4789112	,4789114 UNS	SPK: P78901	3

- (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.



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992722

Reported: 06/20/06 at 12:27 PM

### 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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Ethylbenzene	105	104	82-129	0	30				
Xylene (Total)	104	105	82-130	1	30				
Batch number: Z061682AA	Sampl	e number	(s): 478910	6,47891	116 UNS	PK: P793275			
Benzene	99	95	83-128	4	30				
Toluene	107	102	83-127	5	30				
Ethylbenzene	103	100	82-129	3	30				
Xylene (Total)	109	104	82-130	5	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: 061630030A

Acetone

Limits:	67-131			
MSD	99			
MS	100			
LCS	95			
Blank	96			
4789114	97			
4789112	96			
4789110	95			
4789108	99			
4789107	96			

Analysis Name: TPH-GRO - Waters Batch number: 06164A54A

Trifluorotoluene-F

4789107	91		
4789108	92		
4789110	90		
4789112	96		
4789114	89		
Blank	90		
LCS	104		
LCSD	95		
MS	96		
MSD	101		
Limits:	63-135		

Analysis Name: Volatile Headspace Hydrocarbon Batch number: 061670015A

Propene

- (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.



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992722

Reported: 06/20/06 at 12:27 PM

### Surrogate Quality Control

80-113

4789108	80			
4789110	85			
4789112	79			
4789114	78			
Blank	77			
LCS	79			
MS	59			
MSD	60			
Limits:	48-132			
Analweie N	ame: BTEX+5 Oxygenates+ED	C+FDB+FTOH		
Batch numb	er: D061681AA	CTEDETETOR		
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4789107	107	95	99	101
4789108	105	94	99	100
4789110	105	96	99	101
4789112	106	96	100	101
4789114	105	97	98	99
Blank	107	95	102	102
LCS	107	98	99	102
MS	106	99	103	112
		97		
MSD	105	97	103	111
Limits:	80-116	77-113	80-113	78-113
Analysis N	ame: BTEX by 8260B			
Batch numb	er: Z061682AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4789106	89	87	93	85
4789116	90	88	93	84
Blank	88	86	95	86
LCS	88	88	96	90
MS	87	87	94	89
MSD	88	87	94	90
תטויו	00	0 /	24	<i>3</i> U

80-116

Limits:

77-113

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The background result was more than four times the spike added.

### Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	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)	1	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 <u>limit of quantitation</u>, 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.

**Inorganic Qualifiers** 

- ppb parts per billion
- **Dry weight**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:

9	lifier	(uu	9	 u	" 9	•

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

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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### 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 992890. Samples arrived at the laboratory on Friday, June 09, 2006. The PO# for this group is 0015010091 and the release number is COSGRAY.

Client Description	<u>Lancaster Labs Number</u>
Trip Blank-6/8/06 Water Sample	4790061
MW-5-GW-6/8/06 Grab Water Sample	4790062
MW-5-GW-6/8/06 Filtered Grab Water Sample	4790063
MW-7-GW-6/8/06 Grab Water Sample	4790064
MW-7-GW-6/8/06 Filtered Grab Water Sample	4790065
Trip Blank-6/8/06 Water Sample	4790066
MW-1-GW-6/8/06 Grab Water Sample	4790067
MW-1-GW-6/8/06 Filtered Grab Water Sample	4790068

ELECTRONIC COPY TO	URS	Attn: Angela Liang
ELECTRONIC	URS	Attn: Joe Morgan
COPY TO ELECTRONIC	URS	Attn: April Giongoralli
COPY TO	UKS	Attn: April Giangerelli
ELECTRONIC	URS	Attn: Greg White
COPY TO		



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

Respectfully Submitted,

Max E. Snavely Senior Specialist



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#### Lancaster Laboratories Sample No. WW 4790061

### Trip Blank-6/8/06 Water Sample

Sunol, CA

Collected:06/08/2006 Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

#### TBCSP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06053	BTEX by 8260B					
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.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06053	BTEX by 8260B	SW-846 8260B	1	06/16/2006 11:03	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2006 11:03	Anita M Dale	1



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#### Lancaster Laboratories Sample No. WW 4790062

#### MW-5-GW-6/8/06 Grab Water Sample

Sunol, CA

Collected:06/08/2006 09:30 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

#### 5GWSP

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TP gasoline constituents eluting pr start time.					
07058	Manganese	7439-96-5	28.6	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	2,600.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	313,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	502,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	71,300.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	N.D.	250.	ug/l	5
08344	Ferrous Iron	n.a.	120.	8.0	ug/l	1
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	4.0	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/16/2006 11:04 Steven A	Skiles 1



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### Lancaster Laboratories Sample No. WW 4790062

### MW-5-GW-6/8/06 Grab Water Sample

#### Sunol, CA

Collected:06/08/2006 09:30 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

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000						
07058	Manganese	SW-846 6010B	1	06/14/2006 13:28	Joanne M Gates	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/13/2006 08:28	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/10/2006 10:51	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/10/2006 10:51	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/09/2006 18:15	Daniel S Smith	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 03:30	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 21:53	Hai D Nguyen	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 06:12	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/16/2006 11:04	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:12	Marc S Neal	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/14/2006 00:30	Helen L Schaeffer	1



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Lancaster Laboratories Sample No. WW 4790063

MW-5-GW-6/8/06 Filtered Grab Water Sample

Sunol, CA

Collected:06/08/2006 09:30 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

As Received

CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 01754 Iron 7439-89-6 N.D. 52.2 ug/1 1

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/14/2006 13:33	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/14/2006 00:30	Helen L Schaeffer	1



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#### Lancaster Laboratories Sample No. WW 4790064

#### MW-7-GW-6/8/06 Grab Water Sample

Sunol, CA

Collected: 06/08/2006 11:00 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

#### 7GWSP

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of Tigasoline constituents eluting postart time.					
07058	Manganese	7439-96-5	706.	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	5,900.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	310,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	542,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	70,400.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	N.D.	250.	ug/l	5
08344	Ferrous Iron	n.a.	13,400.	400.	ug/l	50
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	22.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+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	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	4.	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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/16/2006 11:33 Steven A Ski	les 1



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### Lancaster Laboratories Sample No. WW 4790064

### MW-7-GW-6/8/06 Grab Water Sample

Sunol, CA

rec)

Collected: 06/08/2006 11:00 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

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7GWSP						
07058	Manganese	SW-846 6010B	1	06/14/2006 13:18	Amanda S Bitner	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/13/2006 08:28	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/10/2006 10:36	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/10/2006 10:36	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/09/2006 18:15	Daniel S Smith	50
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 03:47	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 22:08	Hai D Nguyen	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 06:35	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/16/2006 11:33	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:35	Marc S Neal	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/14/2006 01:00	Helen L Schaeffer	1



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Lancaster Laboratories Sample No. WW 4790065

MW-7-GW-6/8/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/08/2006 11:00 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

As Received

CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 01754 Iron 7439-89-6 N.D. 52.2 ug/1 1

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/14/2006 13:22	Amanda S Bitner	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/14/2006 01:00	Helen L Schaeffer	1



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#### Lancaster Laboratories Sample No. WW 4790066

### Trip Blank-6/8/06 Water Sample

Sunol, CA

Collected:06/08/2006 Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

TBSUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06053	BTEX by 8260B					
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.

CAT			-	Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
06053	BTEX by 8260B	SW-846 8260B	1	06/16/2006 11:30	Anita M Dale	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2006 11:30	Anita M Dale	1	



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### Lancaster Laboratories Sample No. WW 4790067

#### MW-1-GW-6/8/06 Grab Water Sample

Sunol, CA

Collected: 06/08/2006 13:40 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

#### W1GWP

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	37,000.	500.	ug/l	10
	The reported concentration of Ti gasoline constituents eluting postart time.					
07058	Manganese	7439-96-5	116.	0.36	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	317,000.	460.	ug/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	494,000.	9,700.	ug/l	1
00228	Sulfate	14808-79-8	48,300.	1,500.	ug/l	5
00368	Nitrate Nitrogen	14797-55-8	2,600.	250.	ug/l	5
08344	Ferrous Iron	n.a.	N.D.	8.0	ug/l	1
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	200.	ug/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	250.	ug/l	5
05401	Benzene	71-43-2	10.	3.	ug/l	5
05407	Toluene	108-88-3	330.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	120.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	8,200.	25.	ug/l	50
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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.

CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1 06/16/2006 12:03 Steven A Sk	iles 10



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### Lancaster Laboratories Sample No. WW 4790067

### MW-1-GW-6/8/06 Grab Water Sample

#### Sunol, CA

rec)

Collected: 06/08/2006 13:40 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

W1GWP						
07058	Manganese	SW-846 6010B	1	06/14/2006 13:25	Amanda S Bitner	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/15/2006 09:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/13/2006 08:28	Yolunder Y Bunch	1
00228	Sulfate	EPA 300.0	1	06/10/2006 02:24	William L Hamaker Jr	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/10/2006 02:24	William L Hamaker Jr	5
08344	Ferrous Iron	SM20 3500-Fe B modified	1	06/09/2006 18:15	Daniel S Smith	1
01412	Methanol and Ethanol	SW-846 8015B	1	06/13/2006 04:04	Hai D Nguyen	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	06/19/2006 22:24	Hai D Nguyen	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 06:57	Marc S Neal	5
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/18/2006 07:20	Marc S Neal	50
01146	GC VOA Water Prep	SW-846 5030B	1	06/16/2006 12:03	Steven A Skiles	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/18/2006 06:57	Marc S Neal	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/18/2006 07:20	Marc S Neal	50
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/14/2006 01:00	Helen L Schaeffer	1



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Lancaster Laboratories Sample No. WW 4790068

MW-1-GW-6/8/06 Filtered Grab Water Sample

Sunol, CA

Collected: 06/08/2006 13:40 by GW Account Number: 11875

Submitted: 06/09/2006 09:10 Chevron Pipeline Co.

Reported: 06/22/2006 at 16:28 4800 Fournace Place - E320 D

Discard: 07/23/2006 Bellaire TX 77401

As Received

CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 01754 Iron 7439-89-6 N.D. 52.2 ug/1 1

State of California Lab Certification No. 2116 This sample was filtered in the lab for dissolved metals.

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

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01754	Iron	SW-846 6010B	1	06/14/2006 13:29	Amanda S Bitner	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/14/2006 01:00	Helen L Schaeffer	1



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992890

Reported: 06/22/06 at 04:28 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 %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 06160834401A Ferrous Iron	Sample N.D.	number(s): 0.0080	4790062,47 mg/l	90064,47 100	90067	95-105		
Batch number: 06160865101A Sulfate Nitrate Nitrogen	Sample N.D. N.D.	number(s): 0.30 0.050	4790062,47 mg/l mg/l	90064 101 96		89-110 90-110		
Batch number: 06160865101B Sulfate Nitrate Nitrogen	Sample N.D. N.D.	number(s): 0.30 0.050	4790067 mg/l mg/l	101 96		89-110 90-110		
Batch number: 061630030A Methanol (by Direct Injection)	Sample N.D.	number(s):	4790062,47 ug/l	90064,47 81	90067	80-120		
Batch number: 06164021201A Total Dissolved Solids	Sample N.D.	number(s):	4790062,47 mg/l	90064,47	90067	80-120		
Batch number: 061651848001 Iron Manganese	Sample N.D. N.D.	number(s): 0.0522 0.00036	mg/l	90063 100 98		90-112 90-110		
Batch number: 061651848002 Iron Manganese	Sample N.D. N.D.	number(s): 0.0522 0.00036	4790064-47 mg/l mg/l	90065,47 106 104	90067-4790	068 90-112 90-110		
Batch number: 06166020201A Alkalinity to pH 4.5	Sample	number(s):	4790062,47	90064,47	90067	98-103		
Batch number: 06167A08A TPH-GRO - Waters	Sample N.D.	number(s):	4790062,47 ug/l	90064,47	90067 103	70-130	2	30
Batch number: 061690000A Methane	Sample N.D.	number(s): 2.0	4790062,47 ug/l	90064,47	90067	80-120		
Batch number: D061682AA Ethanol Benzene Toluene Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D. N.D.	number(s): 50. 0.5 0.5 0.5 0.5	4790062,47 ug/l ug/l ug/l ug/l ug/l	90064,47 117 107 107 106 105	90067	35-168 85-117 85-115 82-119 83-113		
Batch number: P061672AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D.	number(s): 0.5 0.5 0.5 0.5	4790061,47 ug/l ug/l ug/l ug/l	90066 95 95 92 94		85-117 85-115 82-119 83-113		

- (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.



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### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992890

Reported: 06/22/06 at 04:28 PM

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 RPD	Dup RPD Max
Batch number: 06160834401A Ferrous Iron	Sample 97	number 97	(s): 4790062 86-110	,479006 0	54,4790 4	067 UNSPK: 13.4	4790064 BKG 13.4	: 4790064 0 (1)	8
Batch number: 06160865101A Sulfate Nitrate Nitrogen	Sample 98 106	number	(s): 4790062 90-110 90-110	,479000	54 UNSP	K: P790023 164. N.D.	BKG: P790023 161. N.D.	3 2 200* (1)	3 2
Batch number: 06160865101B Sulfate Nitrate Nitrogen	Sample 103 108	number	(s): 4790067 90-110 90-110	UNSPK	: P7900	29 BKG: P79 186. N.D.	90029 182. N.D.	2 200* (1)	3 2
Batch number: 061630030A Methanol (by Direct Injection)	Sample 88	number 88	(s): 4790062 81-117	,479006 0	54,4790 20	067 UNSPK:	P785102		
Batch number: 06164021201A Total Dissolved Solids	Sample 177*	number 184*	(s): 4790062 60-140	,479006 3	54,4790 5	067 UNSPK: 4,500.	P790688 BKG	: P790688 84* (1)	5
Batch number: 061651848001 Iron Manganese	Sample 97 103	number 96 99	(s): 4790062 75-125 75-125	-479000 1 2	53 UNSP 20 20	K: P791648 N.D. 0.567	BKG: P791648 N.D. 0.565	3 -5 (1) 0	20 20
Batch number: 061651848002 Iron Manganese	Sample 149* 145*	number 108 106	(s): 4790064 75-125 75-125	-479006 31* 29*	55,4790 20 20	067-4790068 0.0668 0.0442	0.0788 0.0540	7760 BKG: P 16 (1) 20	787760 20 20
Batch number: 06166020201A Alkalinity to pH 8.3 Alkalinity to pH 4.5	Sample	number	(s): 4790062 64-130	,479006 26*	54,4790 2	067 UNSPK: N.D. 152.	P791334 BKG N.D. 140.	: P791334 0 (1) 9*	4 4
Batch number: 06167A08A TPH-GRO - Waters	Sample 120	number	(s): 4790062 63-154	,479006	54,4790	067 UNSPK:	P792483		
Batch number: 061690000A Methane	Sample 88	number 88	(s): 4790062 63-124	,479006 0	54,4790 20	067 UNSPK:	P787315		
Batch number: D061682AA Ethanol Benzene Toluene Ethylbenzene Xylene (Total)	Sample 85 107 106 107 109	number 100 107 105 105	(s): 4790062 34-161 83-128 83-127 82-129 82-130	,479000 16 0 1 0 1	54,4790 30 30 30 30 30 30	067 UNSPK:	P791898		
Batch number: P061672AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample 103 103 101 100	number 103 104 101 99	(s): 4790061 83-128 83-127 82-129 82-130	,479000 1 0 0	30 30 30 30 30	K: P789943			

- (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.



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Page 3 of 4

### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992890

Reported: 06/22/06 at 04:28 PM

#### Surrogate Quality Control

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

Analysis Name: Methanol and Ethanol

Batch number: 061630030A Acetone

4790062	94
4790064	98
4790067	96
Blank	96
LCS	95
MS	100
MSD	99

Limits: 67-131

Analysis Name: TPH-GRO - Waters Batch number: 06167A08A

Trifluorotoluene-F

86
94
95
90
101
99
100

Limits: 63-135

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 061690000A Propene

4790062	74
4790064	77
4790067	88
Blank	78
LCS	92
MS	70
MSD	75

Limits:

Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH

Batch number: D061682AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4790062	106	100	98	101
4790064	106	100	99	102
4790067	108	100	102	106
Blank	106	101	102	103
LCS	106	101	101	104
MS	103	101	99	101
MSD	105	99	100	103
Limits:	80-116	77-113	80-113	78-113

- (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.



78-113

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77-113

Page 4 of 4

### Quality Control Summary

Client Name: Chevron Pipeline Co. Group Number: 992890

Reported: 06/22/06 at 04:28 PM

### Surrogate Quality Control

80-113

Analysis Name: BTEX by 8260B Batch number: P061672AA

80-116

Limits:

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
4790061	98	98	100	91
4790066	97	96	99	90
Blank	97	97	100	92
LCS	96	97	99	96
MS	97	97	99	95
MSD	96	96	99	95

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The background result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody



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# Chevron California Region Analysis Request/Chain of Custody



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### 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
С	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)	1	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 <u>limit of quantitation</u>, 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.

**Inorganic Qualifiers** 

- ppb parts per billion
- **Dry weight**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:

9	lifier	(uu	9	 u	" 9	•

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

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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