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By dehloptoxic at 1:52 pm, Feb 28, 2007

CAMBRIA

November 7, 2005

Mr. Barney Chan Alameda County Health Care Services Department of Environmental Health 1153 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re:

Interim Corrective Action Overpurge Results Wells MW-2, MW-4 and MW-7, October 13, 2005 Former Chevron Service Station No. 9-1851

451 Hegenberger Road. Oakland, California



Dear Mr. Chan:

Cambria Environmental Technology, Inc. (Cambria) has been requested by Chevron Environmental Management Company (Chevron) to conduct periodic overpurging of groundwater at the site referenced above. Overpurge events were approved as part of Delta Environmental Consultants, Inc. (Delta) *Interim Corrective Action Plan*, dated August 1, 2000. A total of 13 overpurge events have taken place since May 2001. Site vicinity map and site plan are presented as Figures 1 and 2, respectively.

Presented below are the results of the overpurge event conducted on October 13, 2005. Fieldwork included collecting depth to water measurements for all wells and collecting pre- and post-purge groundwater samples from the purged wells (MW-2, MW-4, MW-7) for chemical analysis of dissolved petroleum hydrocarbons.

Groundwater elevations were calculated for monitoring wells MW-1 through MW-7 using depth to groundwater measurements. Groundwater elevations and depth to water data are presented in Table 1. Measurements recorded on October 13, 2005 were used to create the pre- and post-purge groundwater elevation contour maps shown as Figures 3 and 4, respectively.

SCOPE OF WORK AND RESULTS

The purging of monitoring wells MW-2, MW-4 and MW-7 occurred over approximately 8 hours and included the extraction of approximately 300 gallons. Groundwater samples were collected from each well before and after the overpurge event.

Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

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Laboratory Analysis: Selected groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by modified EPA Method 8015;
- TPH as diesel (TPHd) by modified EPA Method 8015;
- TPH as motor oil (TPHmo) by modified EPA Method 8015;
- BTEX and MTBE by EPA Method 8260B.



Volume of Impacted Groundwater Removed: A volume of approximately 300 gallons of groundwater was extracted from monitoring wells MW-2, MW-4 and MW-7 during this overpurge event. Based on average concentrations of TPHg and MTBE in samples collected from MW-2, MW-4 and MW-7, an estimated 0.000005 gallons of TPHg and 0.000039 gallons of MTBE were extracted during this event. A cumulative approximate volume of 0.002002 gallons of TPHg and 0.008991 gallons of MTBE have been extracted from the site over the course of these 13 overpurge events. Groundwater extraction data are shown in Table 2.

CLOSING

A total of thirteen overpurge events have been completed at this site over the past four years. With the cumulative removal of approximately 5,988 gallons of hydrocarbon impacted groundwater, a minimal calculated volume of hydrocarbons have been extracted using this method. Dissolved hydrocarbon concentrations have shown decreasing trends at the site. However, Cambria believes this is more likely due to natural attenuation of hydrocarbons in the subsurface. Therefore, based on the most current groundwater monitoring report and historical overpurge results, Cambria feels that continuation of this process is an ineffective method of accelerating remediation and requests approval to cease overpurge activities. Cambria will continue monitoring natural attenuation of hydrocarbons in groundwater beneath the site and, depending on future trends, will evaluate the need for additional active remediation.

Please contact Laura Genin at (510) 420-3367 or lgenin@cambria-env.com with any questions or comments.

CAMBRIA

Sincerely,

Cambria Environmental Technology, Inc.

Laura Genin

Cc:

Senior Staff Geologist

Robert Foss, P.G. #7445 Associate Geologist

Robert Joss

Figure: 1 – Vicinity Map

2 - Site Map

3 – Groundwater Elevation Contour Map (pre-purge)4 – Groundwater Elevation Contour Map (post-purge)

Tables: 1 – Groundwater Elevation Data

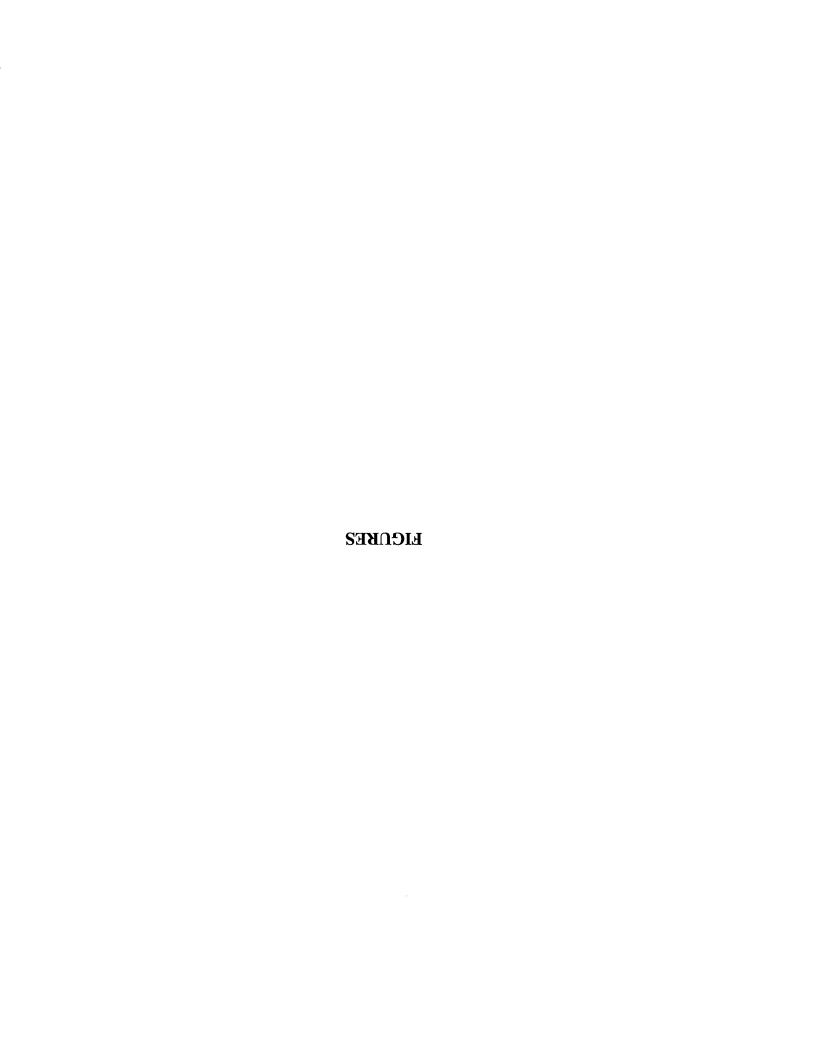
2 – Groundwater Extraction Data3 – Groundwater Analytic Results

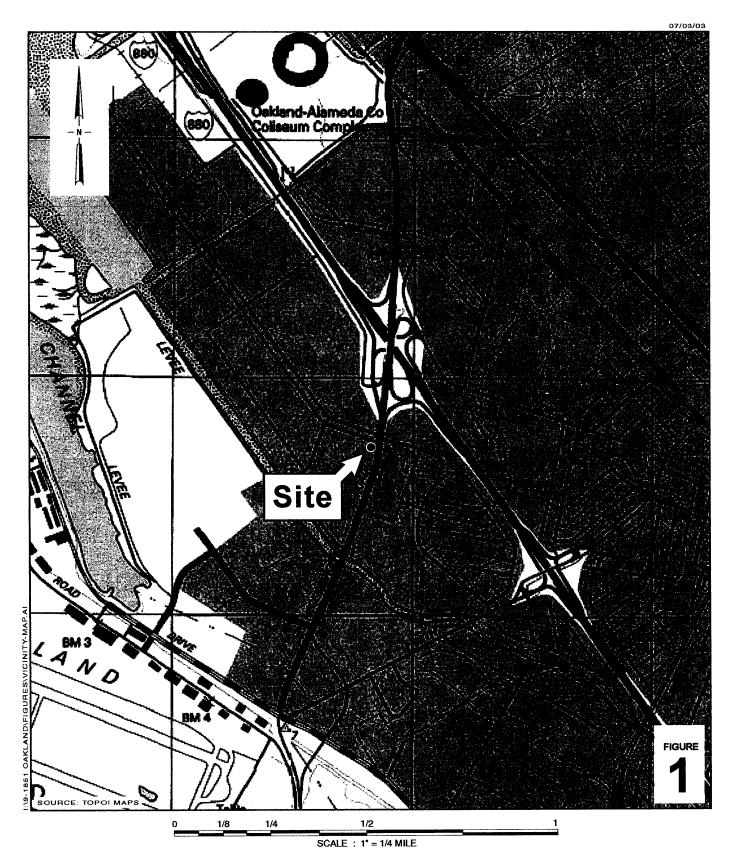
Attachment: A – Laboratory Analytic Results

Chevron Strata Database

Mr. Ben Shimek, Petroleum Sales Inc., 31 Industrial Way, Greenbrae, CA 94904





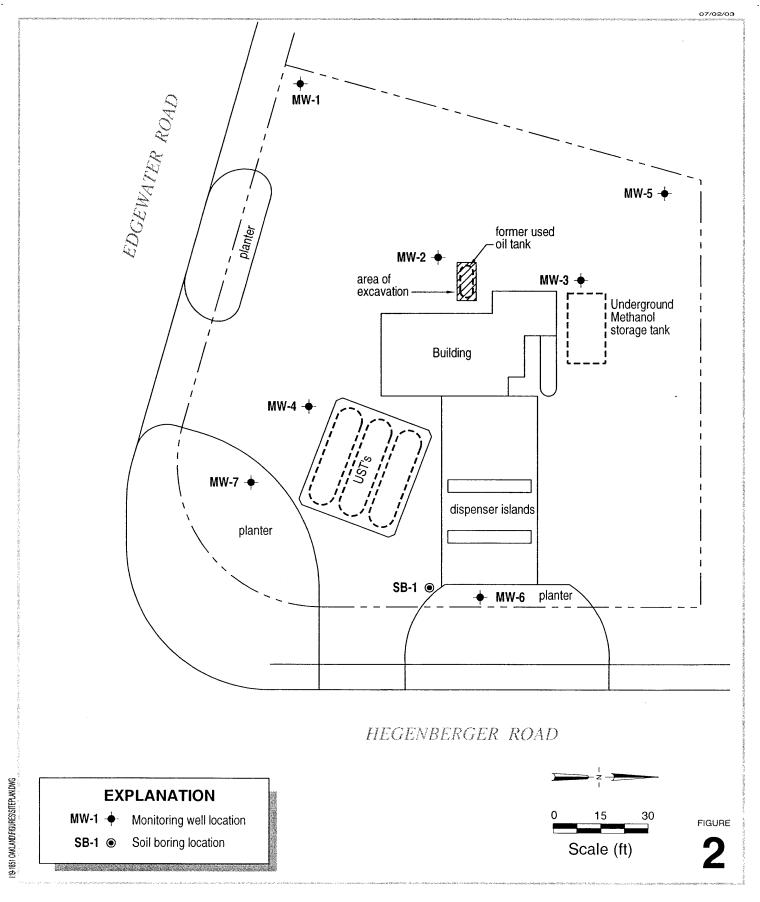




Vicinity Map

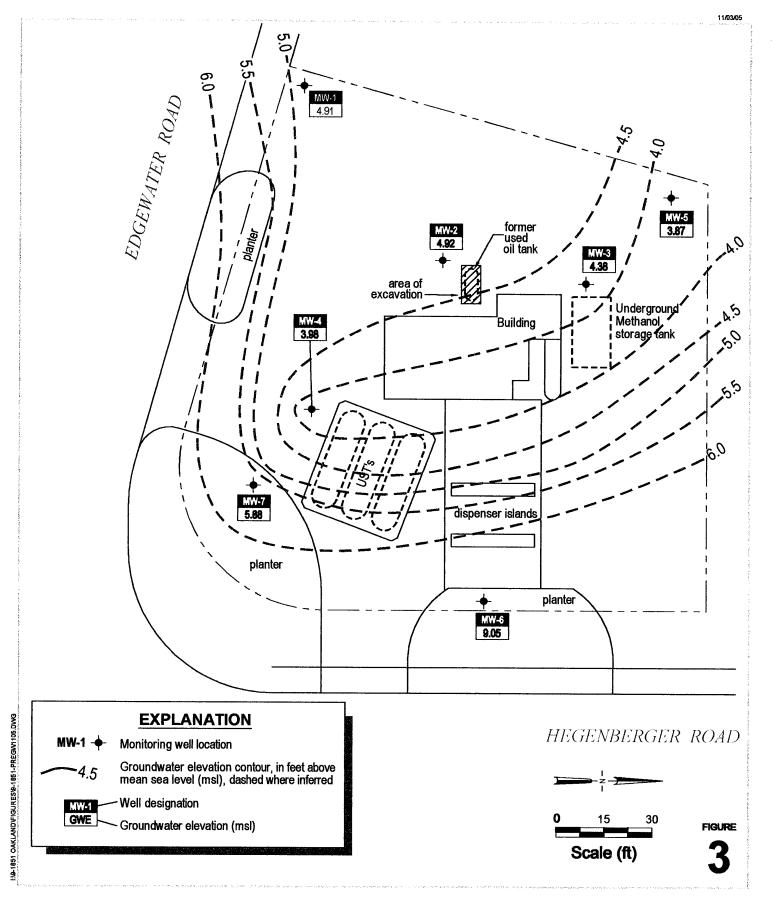
451 Hegenberger Road Oakland, California

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Site Plan



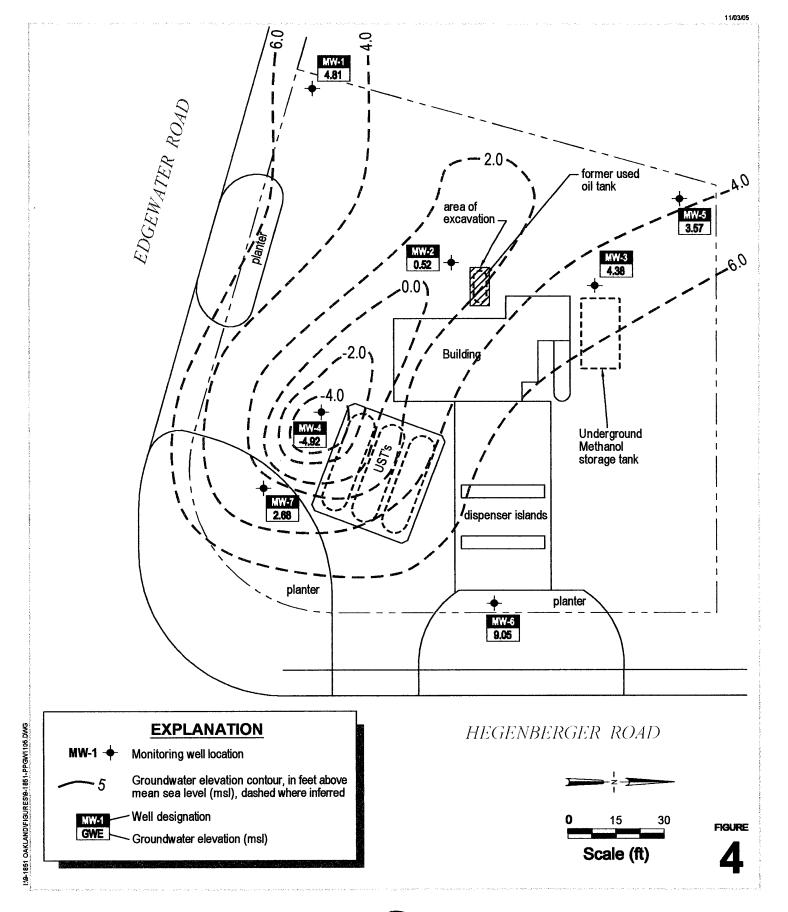
451 Hegenberger Road
Oakland, California



Groundwater Elevation Contour Map
Pre-Purge

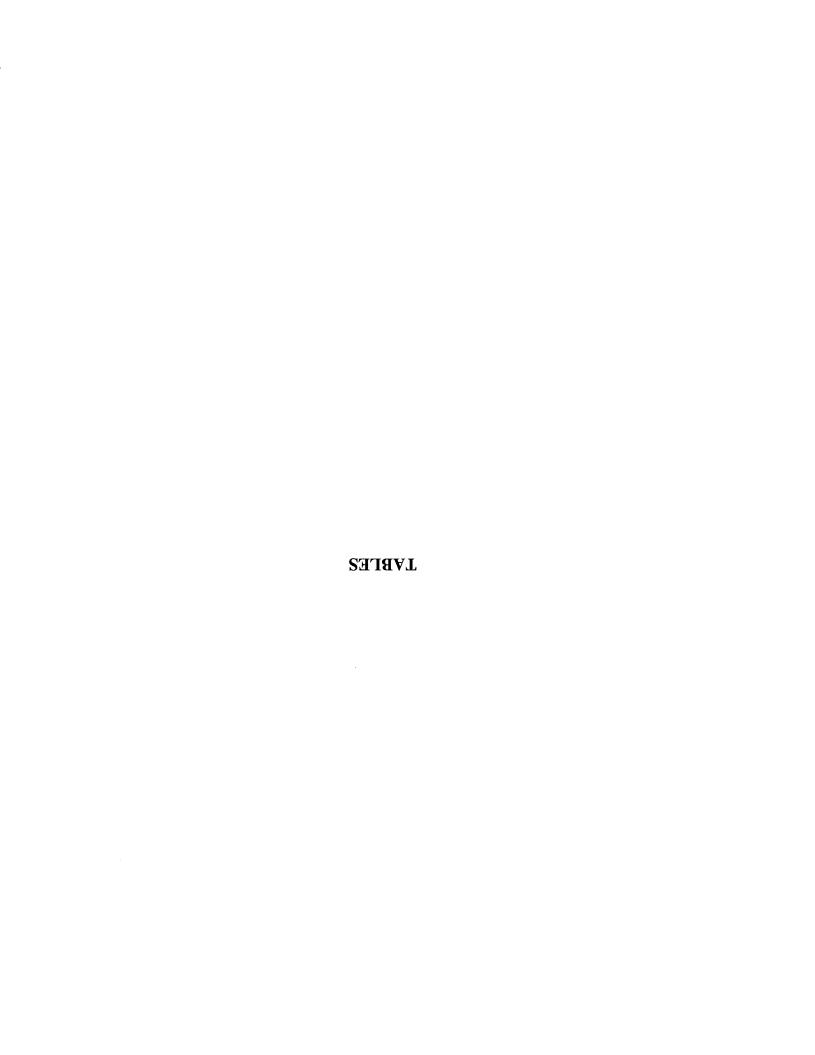
CAMBRIA

October 13, 2005



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Groundwater Elevation Contour Map
Post-Purge



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	Date	Time	Top of Casing Elevation (ft.)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Groundwater Elevation
Pre Purge						
MW-1	4/7/2005	0845	8.61	3.70	4.91	
MW-2	4/7/2005	0840	9.52	4.60	4.92	
MW-3	4/7/2005	0855	9.08	4.70	4.38	
MW-4	4/7/2005	0930	9.48	5.50	3.98	
MW-5	4/7/2005	0822	8.77	4.90	3.87	
MW-6	4/7/2005	0905	11.45	2.40	9.05	
MW-7	4/7/2005	0920 	10.58	4.70	5.88	
Post Purge						0.10
MW-1	4/7/2005	1530	8.61	3.80	4.81	0.10
MW-2	4/7/2005	1510	9.52	9.00	0.52	4.40
MW-3	4/7/2005	1130	9.08	4.70	4.38	0.00
MW-4	4/7/2005	1300	9.48	14.40	-4.92	8.90
MW-5	4/7/2005	1540	8.77	5.20	3.57	0.30
MW-6	4/7/2005	1550	11.45	2.40	9.05	0.00
MW-7	4/7/2005	1600	10.58	7.90	2.68	3.20

Table 2. Groundwater Extraction Data - Chevron Station 9-1851, 451 Hegenberger Road, C

Date	Extracted Groundwater Per Event (Gallons)	Cumulative Extracted Groundwater Volume (Gallons)	Extracted TPHg Volume Per Event* (Gallons)	Extracted MTBE Volume Per Event** (Gallons)	Cumulative Extracted TPHg Volume (Gallons)	Cumulative Extracted MTBE Volume (Gallons)	
5/3/2001	200	200	0.000085	0.000700	0.000085	0.000700	
6/6/2001	508	708	0.000177	0.001450	0.000261	0.002150	
8/30/2001	400	1,108	0.000241	0.000824	0.000502	0.002974	
1/15/2002	450	1,558	0.000187	0.000707	0.000689	0.003681	
3/5/2002	700	2,258	0.000298	0.001012	0.000987	0.004693	
6/18/2002	700	2,958	0.000260	0.001133	0.001247	0.005826	
8/8/2002	750	3,708	0.000132	0.000813	0.001378	0.006639	
10/31/2002	630	4,338	0.000236	0.000736	0.001614	0.007376	
5/20/2003	600	4,938	0.000159	0.000399	0.001773	0.007775	
1/5/2004	500	5,438	0.000172	0.000828	0.001945	0.008603	
8/5/2004	200	5,638	0.000045	0.000314	0.001990	0.008916	
4/7/2005	50	5,688	0.000006	0.000036	0.001996	0.008952	
8/13/2005	300	5,988	0.000005	0.000039	0.002002	0.008991	

Abbreviations/Notes:

TPHg = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tertiary Butyl Ether

* VTPH = VGW [TPH] pTPH/1x106

Where:

VTPH = Volume of TPH as gasoline in gallons

VGW = Volume of Groundwater in gallons

[TPH] = Average TPH as gasoline concentrations in micrograms per liter (ug/L)

 ρ TPH = density of TPH as gasoline = 0.74 kilograms per liter (kg/L).

 $1x10^6$ = Conversion factor from ug to g.

** VMTBE = VGW [MTBE] pMTBE/1x106

Where:

VMTBE = Volume of MTBE in gallons

VGW = Volume of Groundwater in gallons

MTBE = Average MTBE concentrations in micrograms per liter (ug/L)

pMTBE = density of MTBE = 0.74 kilograms per liter (kg/L).

 $1x10^6$ = Conversion factor from ug to g.

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Table 3. Groundwater Analytical Results - Chevron Station 9-1851, 451 Hegenberger Road, Oakland CA TPHg MTBE **TPHd** В Т Ε X Sample Sample Concentrations reported in micrograms per Liter - ug/l = Parts Per Billion ID Date MW-4-pre 5/3/2001 491 2,020*/4,270 NA <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 MW-4-post 5/3/2001 370 3,330*/4,250 NA NA < 0.5 < 0.5 < 0.5 < 0.5 MW-7-pre 5/3/2001 191 1,070*/1,190 MW-7-post 5/3/2001 201 472*/647 NA 0.619 < 0.5 1.65 0.961 Average 5/3/2001 313 2589.25 NA 1.09 0.75 1.10 0.93 MW-4-pre 6/11/2001 520 4,000*/3,700 NΑ < 5.0 < 5.0 < 5.0 < 5.0 MW-4-post 6/11/2001 <500 5,900*/3,500 NA < 5.0 < 5.0 <5.0 < 5.0 MW-7-pre 6/11/2001 130 730*/690 NA < 5.0 < 5.0 < 5.0 < 5.0 MW-7-post 590*/560 < 5.0 < 5.0 < 5.0 < 5.0 6/11/2001 130 NA 257.5 2112.5 NA 2.5 2.5 2.5 2.5 Average 6/11/2001 720 3,000 NA <1.0 <1.0 <1.0 <1.0 MW-4-pre 8/30/2001 MW-4-post 8/30/2001 590 2,600 NA <1.0 <1.0 <1.0 <1.0 MW-7-pre 8/30/2001 140 400 NA <1.0 <1.0 <1.0 <1.0 97 330 NA <1.0 <1.0 <1.0 <1.0 MW-7-post 8/30/2001 0.5 0.5 0.5 Average 8/30/2001 445 1,524 NA 0.5 MW-4-pre 1/15/2002 640 2,800 NA <1.0 <1.0 <1.0 <1.0 1,100 NA < 0.5 < 0.5 < 0.5 < 0.5 MW-4-post 1/15/2002 290 MW-7-pre 1/15/2002 89 290 NA < 0.5 <0.5 < 0.5 < 0.5 MW-7-post 210 460 NA < 0.5 < 0.5 < 0.5 < 0.5 1/15/2002 0.31 1/15/2002 307 1,163 NA 0.31 0.31 0.31 Average 3/5/2002 2,200 MW-4-pre 420 NA <1.0 <1.0 <1.0 <1.0 1,200 <3.0 MW-4-post <3.0 3/5/2002 160 NA <3.0 <3.0 MW-7-pre 440 3/5/2002 140 NA < 0.5 < 0.5 < 0.5 < 0.5 440 < 0.5 < 0.5 < 0.5 < 0.5 MW-7-post 3/5/2002 540 NA 3/5/2002 315 1,070 NA 0.625 0.625 0.625 0.625 Average

 Table 3. Groundwater Analytical Results - Chevron Station 9-1851, 451 Hegenberger Road, Oakland CA

Sample	Sample	TPHg	MTBE	TPHd	В	T	E	X
ID	Date C	Concentrations re	ported in microgran	ns per Liter - ug/l =	= Parts Per Billion	l		
MW-4-pre	6/18/2002	530	2,900	NA	<0.5	<0.5	<0.5	<0.5
MW-4-post	6/18/2002	180	1,200	NA	<0.5	<0.5	<0.5	<0.5
MW-7-pre	6/18/2002	120	290	NA	< 0.5	<0.5	< 0.5	<0.5
MW-7-post	6/18/2002	270	400	NA	<0.5	<0.5	<0.5	<0.5
Average	6/18/2002	275	1,198	NA	0.25	0.25	0.25	0.25
MW-4-pre	8/8/2002	370	2,400	NA	<0.5	<0.5	<0.5	<0.5
MW-4-post	8/8/2002	<50	220	NA	< 0.5	<0.5	< 0.5	<0.5
MW-7-pre	8/8/2002	74	190	NA	<0.5	<0.5	<0.5	<0.5
MW-7-post	8/8/2002	50	400	NA	<0.5	<0.5	<0.5	<0.5
Average	8/8/2002	130	803	NA	0.25	0.25	0.25	0.25
MW-4-pre	10/31/2002	490	2,200	NA	<0.5	<0.5	<0.5	<0.5
MW-4-post	10/31/2002	330	770	NA	0.9	1	2	13
MW-7-pre	10/31/2002	89	230	NA	< 0.5	<0.5	<0.5	<0.5
MW-7-post	10/31/2002	200	260	NA	< 0.5	<0.5	<0.5	<0.5
Average	10/31/2002	277	865	NA	0.41	0.44	0.69	3.44
MW-4-pre	5/20/2003	340	1,400	NA	<0.5	0.5	<0.5	<0.5
MW-4-post	5/20/2003	140	190	NA	<0.5	8	2	13
MW-7-pre	5/20/2003	93	170	NA	<0.5	<0.5	<0.5	<0.5
MW-7-post	5/20/2003	210	210	NA	2	22	4	27
Average	5/20/2003	196	493	NA	0.69	7.69	1.63	10.13
MW-3-pre	1/5/2004	290	1,500	NA	<1.0	<1.0	<1.0	<1.0
MW-3-post	1/5/2004	260	1,300	NA	<1.0	<1.0	<1.0	<1.0
MW-4-pre	1/5/2004	330	1,500	NA	<1.0	<1.0	<1.0	<1.0
MW-4-post	1/5/2004	140	600	NA	<0.5	<0.5	<0.5	<0.5
Average	1/5/2004	255	1,225	NA	0.44	0.44	0.44	0.44

Table 3. Groundwater Analytical Results - Chevron Station 9-1851, 451 Hegenberger Road, Oakland CA

Sample	Sample	TPHg	MTBE	TPHd	В	T	Е	X
ID	Date	Concentrations rep	oorted in microgram	ms per Liter - ug/l :	= Parts Per Billion	1		
MW-3-pre	8/5/2004	250	1,700	NA	2	<1.0	<1.0	<1.0
MW-3-post	8/5/2004	88	590	NA	<0.5	<0.5	<0.5	<0.5
MW-4-pre	8/5/2004	300	2,000	NA	<1.0	<1.0	<1.0	<1.0
MW-4-post	8/5/2004	<50	350	NA	<0.5	<0.5	<0.5	<0.5
Average	8/5/2004	165.75	1,160	NA	0.75	0.38	0.38	0.38
MW-2-pre	4/7/2005	<50	2	3,500	<0.5	<0.5	<0.5	<0.5
MW-2-post	4/7/2005	<50	34	2,900	<0.5	<0.5	<0.5	<0.5
MW-3-pre	4/7/2005	<50	86	300	<0.5	<0.5	<0.5	<0.5
MW-3-post	4/7/2005	100	420	240	<0.5	<0.5	<0.5	<0.5
MW-4-pre	4/7/2005	240	1,900	NA	<3	<3	<3	<3
MW-4-post	4/7/2005	130	730	NA	<1	<1	<1	<1
Average	4/7/2005	91	529	1,735	0.50	0.50	0.50	0.50
MW-2-pre	10/13/2005	<50	14	2,800	<0.5	<0.5	<0.5	<0.5
MW-2-post	10/13/2005	<50	6	5,400	<0.5	<0.5	<0.5	<0.5
MW-4-pre	10/13/2005	81	390	420	<0.5	<0.5	<0.5	<0.5
MW-4-post	10/13/2005	<50	100	220	<0.5	<0.5	<0.5	<0.5
MW-7-pre	10/13/2005	<50	34	200	<0.5	<0.5	<0.5	<0.5
MW-7-post	10/13/2005	<50	32	190	<0.5	<0.5	<0.5	<0.5
Average	10/13/2005	13.5	96	1,538	<0.5	<0.5	<0.5	<0.5

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

Methyl tertiary butyl ether (MTBE) by EPA Method 8260B, * = by EPA method 8021

<x = Not detected above method detection limit

NA = Not analyzed

Avergates were calculated using 1/2 of the detection limit if hydrocarbons were not detected above method reporting limits.

APPENDIX A LABORATORY ANALYTICAL RESULTS



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

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 963426. Samples arrived at the laboratory on Saturday, October 15, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

Client Description			<u>Lancaster Labs Number</u>
MW-2-PRE-W-051013	Grab	Water	4625908
MW-2-POST-W-051013	Grab	Water	4625909
MW-4-PRE-W-051013	Grab	Water	4625910
MW-4-POST-W-051013	Grab	Water	4625911
MW-7-PRE-W-051013	Grab	Water	4625912
MW-7-POST-W-051013	Grab	Water	4625913

1 COPY TO ELECTRONIC COPY TO Cambria Environmental ChevronTexaco

Attn: Bob Foss Attn: Laura Genin



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

Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Dana M. Kauffman

Lana m Xayfmar.

Manager



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

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Lancaster Laboratories Sample No. 4625908

MW-2-PRE-W-051013 Facility# 91851

Grab

Water

451 Hegenberger-Oakland

T0600102238 MW-2-PRE

CETR

Collected:10/13/2005 08:40

by BD

Account Number: 10880

Submitted: 10/15/2005 09:55

Reported: 10/27/2005 at 14:43

Discard: 11/27/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

2PRE-

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 TPI gasoline constituents eluting pr start time.					
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	2,800.	140.	ug/l	5
	The observed sample pattern incl	udes #2 fuel/d	iesel and an addi	tional		
	pattern which elutes later in the	e DRO range.				
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	2,800.	400.	ug/l	10
02508	TPH Motor Oil C16-C36	n.a.	2,800.	400.	ug/l	10
	TPH quantitation is based on peathat of a hydrocarbon component C8 (n-octane) through C40 (n-tet	mix calibratio racontane) nor	n in a range tĥat mal hydrocarbons.	includes		
	The chlorobenzene surrogate reco					
	with this sample are above QC li		_			
	in the blank and the LCS/LCSD sp	ike recoveries	are within limit	s, the data is		
	accepted.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	14.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle Analysis Dilution CAT No. Analysis Name Method Trial# Date and Time Analyst Factor TPH-GRO - Waters N. CA LUFT Gasoline 10/20/2005 10:08 K. Robert Caulfeild-01728 1 Method James CALUFT-DRO/8015B, 10/19/2005 14:08 Tracy A Cole 5 02202 TPH-DRO CALUFT(Water) w/Si Modified 02500 TPH Fuels by GC (Waters) SW-846 8015B, modified 1 10/19/2005 11:16 Matthew E Barton 10 SW-846 8260B 10/19/2005 22:32 Dawn M Harle BTEX+MTBE by 8260B 1 1 06054



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Lancaster Laboratories Sample No. WW 4625908

MW-2-PRE-W-051013 Grab Water

Facility# 91851 CETF 451 Hegenberger-Oakland T0600102238 MW-2-PRE

Collected:10/13/2005 08:40 by BD Account Number: 10880

Submitted: 10/15/2005 09:55 ChevronTexaco

Reported: 10/27/2005 at 14:43 6001 Bollinger Canyon Rd L4310

Discard: 11/27/2005 San Ramon CA 94583

2PRE-

01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 10:08	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/19/2005 22:32	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. 4625909

MW-2-POST-W-051013

Grab

Water

Facility# 91851

451 Hegenberger-Oakland T0600102238 MW-2-POST

Collected:10/13/2005 14:30

by BD

Account Number: 10880

Submitted: 10/15/2005 09:55

Reported: 10/27/2005 at 14:43

6001 Bollinger Canyon Rd L4310

ChevronTexaco

Discard: 11/27/2005

San Ramon CA 94583

As Received

2POST

				wa kecelved		
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.	rior to the C6				
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	5,400.	280.	ug/l	10
	The observed sample pattern inc	ludes #2 fuel/	diesel and an add	itional		
	pattern which elutes later in the	he DRO range.				
02500	TPH Fuels by GC (Waters)					
00501	makal mpu		F 200	000	/7	0.0
02501	Total TPH	n.a.	5,300.	800.	ug/l	20
02508	TPH Motor Oil C16-C36	n.a.	5,300.	800.	ug/l	20
	TPH quantitation is based on per that of a hydrocarbon component C8 (n-octane) through C40 (n-ter The chlorobenzene surrogate rec	mix calibration tracontane) no:	on in a range tha rmal hydrocarbons	t includes		
	with this sample are above QC la				ed.	
	in the blank and the LCS/LCSD s		_			
	accepted.	•				
	-					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	6.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/20/2005 10:37	K. Robert Caulfeild- James	1
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	10/19/2005 14:30	Tracy A Cole	10
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modifie	d 1	10/19/2005 11:41	Matthew E Barton	20
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/19/2005 23:43	Dawn M Harle	1



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Lancaster Laboratories Sample No. 4625909

MW-2-POST-W-051013

Grab

Water

Facility# 91851

451 Hegenberger-Oakland T0600102238 MW-2-POST Collected:10/13/2005 14:30 by BD

Account Number: 10880

Submitted: 10/15/2005 09:55

Reported: 10/27/2005 at 14:43 Discard: 11/27/2005

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

2POST

01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 10:37	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/19/2005 23:43	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. 4625910

MW-4-PRE-W-051013

Grab

Water

Facility# 91851

CETR

451 Hegenberger-Oakland T0600102238 MW-4-PRE

Collected:10/13/2005 08:50

by BD

Submitted: 10/15/2005 09:55

ChevronTexaco

Reported: 10/27/2005 at 14:43

6001 Bollinger Canyon Rd L4310

Discard: 11/27/2005

San Ramon CA 94583

Account Number: 10880

As Received

4PRE-

CAT			As Received	Method		Dilution	
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor	
01728	TPH-GRO - Waters	n.a.	81.	50.	ug/l	1	
	The reported concentration of Ti gasoline constituents eluting postart time.						
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	420.	50.	ug/l	1	
	The o-terphenyl surrogate recove	ery is above Q	C limits. The dat	ta is reported			
	since there was no sample availa	able for a ree	xtraction.				
	The observed sample pattern inc	ludes #2 fuel/d	diesel and an add	itional			
	pattern which elutes earlier and	d later in the	DRO range.				
02500	TPH Fuels by GC (Waters)						
02501	Total TPH	n.a.	360.	40.	ug/l	1	
02501					•		
	TPH Motor Oil C16-C36 n.a. 360. 40. ug/l 1 TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The surrogate recoveries are above QC limits. The data is reported since there was no sample available for a reextration. The chlorobenzene surrogate recoveries for the blank, LCS, and LCSD associated with this sample are above QC limits. Since there were no hydrocarbons detected in the blank and the LCS/LCSD spike recoveries are within limits, the data is accepted.						
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	390.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

Dilution CAT Analysis No. Analysis Name Method Trial# Date and Time Analyst Factor



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Page 2 of 2

Lancaster Laboratories Sample No. WW 4625910

MW-4-PRE-W-051013

Grab

Water

Facility# 91851

CETR

451 Hegenberger-Oakland T0600102238 MW-4-PRE Collected:10/13/2005 08:50 by BD

Account Number: 10880

Submitted: 10/15/2005 09:55

Reported: 10/27/2005 at 14:43

Discard: 11/27/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

4PRE-						
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/20/2005 11:06	K. Robert Caulfeild- James	1
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	10/19/2005 04:20	Tracy A Cole	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modified	1	10/19/2005 18:47	Matthew E Barton	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/20/2005 00:07	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 11:06	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/20/2005 00:07	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4625911

MW-4-POST-W-051013

Grab Water

Facility# 91851

CETR 451 Hegenberger-Oakland T0600102238 MW-4-POST

Collected:10/13/2005 14:50 by BD Account Number: 10880

As Received

ChevronTexaco

Submitted: 10/15/2005 09:55 Reported: 10/27/2005 at 14:43

6001 Bollinger Canyon Rd L4310

Discard: 11/27/2005 San Ramon CA 94583

4 POST

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.							
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	220.	50.	ug/l	1		
	The o-terphenyl surrogate recove	ery is below Q	C limits. The dat	a is reported				
	since there was no sample availa	able for a reex	ktraction.					
	The observed sample pattern inc	ludes #2 fuel/d	diesel and an add:	itional				
	pattern which elutes earlier and	d later in the	DRO range.					
02500	0 TPH Fuels by GC (Waters)							
02501	Total TPH	n.a.	120.	40.	ug/l	1		
02508	TPH Motor Oil C16-C36	n.a.	120.	40.	ug/l	1		
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The surrogate recoveries are below QC limits. The data is reported since there							
	was no sample available for a re	eextration.						
	The chlorobenzene surrogate reco							
	with this sample are above QC 1:				d			
	in the blank and the LCS/LCSD sp	pike recoveries	s are within limit	s, the data is				
	accepted.							
06054	BTEX+MTBE by 8260B							
02010	Methyl Tertiary Butyl Ether	1634-04-4	100.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chi	conicle
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CAT			Analysis	Dilution
No.	Analysis Name	Method	Trial# Date and Time Analyst	Factor



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Lancaster Laboratories Sample No. WW 4625911

MW-4-POST-W-051013

Grab

Water

Facility# 91851

CETR

451 Hegenberger-Oakland T0600102238 MW-4-POST Collected:10/13/2005 14:50 by BD

Account Number: 10880

Submitted: 10/15/2005 09:55 Reported: 10/27/2005 at 14:43

Discard: 11/27/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

4 POST						
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/20/2005 11:35	K. Robert Caulfeild- James	1
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	10/19/2005 03:15	Tracy A Cole	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modified	1	10/18/2005 17:32	Matthew E Barton	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/20/2005 00:54	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 11:35	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/20/2005 00:54	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4625912

MW-7-PRE-W-051013

Grab Water

Facility# 91851

CETR

451 Hegenberger-Oakland T0600102238 MW-7-PRE

by BD

Collected:10/13/2005 12:10

Account Number: 10880

As Received

ChevronTexaco

Submitted: 10/15/2005 09:55

Reported: 10/27/2005 at 14:44

6001 Bollinger Canyon Rd L4310

Discard: 11/27/2005 San Ramon CA 94583

7PRE-

				No Kecelved		
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 T. gasoline constituents eluting pastart time.					
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	200.	50.	ug/l	1
	The observed sample pattern inc	ludes #2 fuel/	diesel and an add	ditional		
	pattern which elutes earlier and	d later in the	DRO range.			
02500	TPH Fuels by GC (Waters)					
						_
02501	Total TPH	n.a.	100.	40.	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	100.	40.	ug/l	1
	TPH quantitation is based on pethat of a hydrocarbon component C8 (n-octane) through C40 (n-term)	mix calibrati tracontane) no	on in a range tha rmal hydrocarbons	at includes s.		
	The chlorobenzene surrogate rec					
	with this sample are above QC 1		_		ed	
	in the blank and the LCS/LCSD s	pike recoverie	s are within limi	its, the data is		
	accepted.					
06054	BTEX+MTBE by 8260B					
06054	BIEX+MIBE DY 6260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	34.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT	Analysis							
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	10/20/2005 12:04	K. Robert Caulfeild- James	1		
02202	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	10/19/2005 03:37	Tracy A Cole	1		
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modifie	d 1	10/18/2005 17:57	Matthew E Barton	1		
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/20/2005 01:18	Dawn M Harle	1		



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Lancaster Laboratories Sample No. WW 4625912

MW-7-PRE-W-051013

Grab

Water

Facility# 91851

CETR

451 Hegenberger-Oakland T0600102238 MW-7-PRE Collected:10/13/2005 12:10

Account Number: 10880

Submitted: 10/15/2005 09:55 Reported: 10/27/2005 at 14:44

Discard: 11/27/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

7PRE-

01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 12:04	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/20/2005 01:18	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



As Received

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Lancaster Laboratories Sample No. 4625913

MW-7-POST-W-051013 Grab

Facility# 91851

451 Hegenberger-Oakland T0600102238 MW-7-POST

Collected:10/13/2005 15:40 by BD Account Number: 10880

Water

Submitted: 10/15/2005 09:55 Reported: 10/27/2005 at 14:44 ChevronTexaco

6001 Bollinger Canyon Rd L4310

CETR

Discard: 11/27/2005 San Ramon CA 94583

7POST

				We 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.							
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	190.	50.	ug/l	1		
	The observed sample pattern incl	ludes #2 fuel/d	diesel and an add	itional				
	pattern which elutes earlier and	d later in the	DRO range.					
02500	TPH Fuels by GC (Waters)							
02501	Total TPH	n.a.	93.	40.	ug/l	1		
02508	TPH Motor Oil C16-C36	n.a.	93.	40.	ug/l	1		
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The chlorobenzene surrogate recoveries for the blank, LCS, and LCSD associated							
	with this sample are above QC li				d			
	in the blank and the LCS/LCSD sr		-					
	accepted.			,				
06054	BTEX+MTBE by 8260B							
02010	Methyl Tertiary Butyl Ether	1634-04-4	32.	0.5	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 Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle Dilution CAT Analysis No. Analysis Name Method Date and Time Factor N. CA LUFT Gasoline 10/20/2005 12:33 K. Robert Caulfeild-TPH-GRO - Waters 01728 1 Method James TPH-DRO CALUFT(Water) w/Si 02202 CALUFT-DRO/8015B, 10/19/2005 03:58 Tracy A Cole 1 Modified Gel 02500 TPH Fuels by GC (Waters) SW-846 8015B, modified 1 10/18/2005 18:22 Matthew E Barton 1 SW-846 8260B 10/20/2005 01:42 Dawn M Harle BTEX+MTBE by 8260B 1 06054 1



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Lancaster Laboratories Sample No. WW 4625913

MW-7-POST-W-051013

Grab

Water

Facility# 91851 CETR 451 Hegenberger-Oakland T0600102238 MW-7-POST

Collected:10/13/2005 15:40 Account Number: 10880

ChevronTexaco

Submitted: 10/15/2005 09:55 Reported: 10/27/2005 at 14:44 6001 Bollinger Canyon Rd L4310

Discard: 11/27/2005 San Ramon CA 94583

7POST

01146	GC VOA Water Prep	SW-846 5030B	1	10/20/2005 12:33	K. Robert Caulfeild- James	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/20/2005 01:42	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	10/17/2005 17:00	Olivia I Santiago	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	10/17/2005 17:00	Olivia I Santiago	1



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Quality Control Summary

Client Name: ChevronTexaco Reported: 10/27/05 at 02:44 PM Group Number: 963426

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: 052900017A TPH-DRO CALUFT(Water) w/Si Gel	Sample nu N.D.	mber(s): 50.	4625908-46 ug/l	25913 99	100	49-120	1	20
Batch number: 052900018A Total TPH TPH Motor Oil C16-C36	Sample nu N.D. N.D.	mber(s): 40. 40.	4625908-46 ug/l ug/l	25913 100	101	57-115	1	20
Batch number: 05292A16B TPH-GRO - Waters	Sample nu N.D.	mber(s): 50.	4625908-46 ug/l	25913 89	109	70-130	20	30
Batch number: Z052924AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D.	mber(s): 0.5 0.5 0.5 0.5 0.5	4625908-46 ug/l ug/l ug/l ug/l ug/l	25913 105 99 102 103 102		77-127 85-117 85-115 82-119 83-113		

Sample Matrix Quality Control

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: 05292A16B	Sample	number	(s): 462590	18-4625	913				
TPH-GRO - Waters	119		63-154	1020					
Batch number: Z052924AA	Sample	number	(s): 462590	08-4625	913				
Methyl Tertiary Butyl Ether	126	118	69-134	4	30				
Benzene	110	107	83-128	2	30				
Toluene	109	109	83-127	0	30				
Ethylbenzene	112	110	82-129	2	30				
Xylene (Total)	110	108	82-130	2	30				

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel Batch number: 052900017A Orthoterphenyl

4625908 103

*- 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.



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Quality Control Summary

	me: ChevronTexaco		Group Number: 963426						
Reported:	10/27/05 at 02:44 PM								
		Surrogate Qu	ality Control						
4625909	109								
4625910	206*								
4625911	0*								
4625912	101								
4625913	96								
Blank	98								
LCS	111								
LCSD	110								
Limits:	59-131								
Analysis Na	ne: TPH Fuels by GC (Water r: 052900018A	rs)							
	Chlorobenzene	Orthoterphenyl							
4625908	105	96							
4625909	114	111							
4625910	210*	205*							
4625911	4*	0*							
4625912	97	101							
4625913	93	98							
Blank	308*	101							
LCS	318*	109							
LCSD	303*	107							
Limits:	14-141	37-146							
Analysis Na Batch numbe	me: TPH-GRO - Waters r: 05292A16B Trifluorotoluene-F								
4625908	92								
4625909	93								
4625910	91								
4625911	91								
4625911 4625912									
	91								
4625912	91 92								
4625912 4625913	91 92 94								
4625912 4625913 Blank	91 92 94 92								
4625912 4625913 Blank LCS	91 92 94 92 95								
4625912 4625913 Blank LCS LCSD	91 92 94 92 95 93								
4625912 4625913 Blank LCS LCSD MS Limits:	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B								
4625912 4625913 Blank LCS LCSD MS Limits:	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: ZO52924AA		malway do	4 Duamefil washing					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Nau Batch numbe	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Nat Batch numbe	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane	100	107	101					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Na Batch numbe	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane	100	107 106	101 102					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Na Batch numbe	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane	100 100 101	107 106 106	101 102 100					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Na Batch numbe	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane 101 102 102 102	100 100 101 100	107 106 106 107	101 102 100 101					
4625912 4625913 Blank LCS LCSD MS Limits: Analysis Nat Batch numbe 4625908 4625909 4625910 4625911 4625912	91 92 94 92 95 93 96 63-135 me: BTEX+MTBE by 8260B r: Z052924AA Dibromofluoromethane 101 102 102 102 102	100 100 101 101 100 102	107 106 106 107 104	101 102 100 101					
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*- 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.



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

Page 3 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 963426

Reported: 10/27/05 at 02:44 PM

Surrogate Quality Control

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

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

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

U.S. EPA CLP Data Qualifiers:

ABCDE

- · 9		
TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
Analyte was also detected in the blank	E	Estimated due to interference
Pesticide result confirmed by GC/MS	М	Duplicate injection precision not met
Compound quantitated on a diluted sample	N	Spike sample not within control limits
Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
the instrument		for calculation
Presumptive evidence of a compound (TICs only)	U	Compound was not detected

N Presumptive evidence of a compound (TICs only)
 P Concentration difference between primary and confirmation columns >25%

Organic Qualifiers

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

Correlation coefficient for MSA < 0.995

Post digestion spike out of control limits

Duplicate analysis not within control limits

Inorganic Qualifiers

otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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

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