RECEIVED By dehloptoxic at 1:47 pm, Feb 28, 2007

CAMBRIA

August 2, 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-3 and MW-4, April 7, 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 Products Company (Chevron) to conduct periodic overpurging of groundwater at the above referenced site. Overpurging events were approved as part of Delta Environmental Consultants, Inc. (Delta) *Interim Corrective Action Plan*, dated August 1, 2000. A site vicinity map is shown as Figure 1 and a site plan is shown as Figure 2.

Presented below are the results of the overpurge event conducted on April 7, 2005. Fieldwork included collecting depth to water measurements for all wells and collecting pre- and post-purge groundwater samples from the overpurged wells (MW-2, MW-3, MW-4) 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 April 7, 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-3 and MW-4 occurred over approximately 8 hours. Groundwater samples were collected from each well before and after the overpurge event. Monitoring wells MW-2, MW-3 and MW-4 did not recharge to sufficient levels to continue extraction. After approximately 8 hours, only 50 gallons of water has been purged.

Cambria Environmental Technology, Inc.

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

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 cumulative total of approximately 50 gallons of groundwater were extracted from monitoring wells MW-2, MW-3 and MW-4. Based on average concentrations of TPHg and MTBE reported in groundwater samples collected from MW-2, MW-3 and MW-4 during the event, it is estimated that approximately 0.000006 gallons of TPHg and 0.000036 gallons of MTBE were extracted during this event. A total of 0.001996 gallons of TPHg, and a total of 0.008952 gallons of MTBE have been extracted from the site. Groundwater extraction data are shown on Table 2.

CLOSING

Please contact Robert Foss at (510) 420-3348 or bfoss@cambria-env.com with any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

Laura Genin

Senior Staff Scientist

Jaura Din

Robert Foss, P.G. #7445

Robert Joss

Associate Geologist



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 Analytical Results

Attachment:

A – Laboratory Analytical Results



Cc:

Mr. Mark Inglis, Chevron Products Co., P.O. Box 6012, San Ramon, CA 94583

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



TABLES

	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	3.00	5.61	
MW-2	4/7/2005	0840	9.52	2.60	6.92	
MW-3	4/7/2005	0855	9.08	4.35	4.73	
MW-4	4/7/2005	0930	9.48	5.35	4.13	
MW-5	4/7/2005	0822	8.77	4.75	4.02	
MW-6	4/7/2005	0905	11.45	5.45	6.00	
MW-7	4/7/2005	0920	10.58	5.75	4.83	
Post Purge						
MW-1	4/7/2005	1530	8.61	3.00	5.61	0.00
MW-2	4/7/2005	1510	9.52	13.90	-4.38	11.30
MW-3	4/7/2005	1130	9.08	5.50	3.58	1.15
MW-4	4/7/2005	1300	9.48	14.80	-5.32	9.45
MW-5	4/7/2005	1540	8.77	4.90	3.87	0.15
MW-6	4/7/2005	1550	11.45	5.50	5.95	0.05
MW-7	4/7/2005	1600	10.58	6.00	4.58	0.25

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

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	0.00006	0.000036	0.001996	0.008952

Abbreviations/Notes:

TPHg = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tertiary Butyl Ether

* VTPH = VGW [TPH] ρ TPH/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)

ρΤΡΗ = 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).

1x10⁶ = Conversion factor from ug to g.

Sample	Sample	TPHg	MTBE	TPHd	В	T	Е	X
ID	Date	Concentrations	reported in micrograms	s per Liter - ug/l	= Parts Per Billion	1		
MW-4-pre	5/3/2001	491	2,020*/4,270	NA	<2.5	<2.5	<2.5	<2.5
MW-4-post	5/3/2001	370	3,330*/4,250	NA	<2.5	<2.5	<2.5	<2.5
MW-7-pre	5/3/2001	191	1,070*/1,190	NA	<0.5	<0.5	<0.5	<0.5
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	NA	<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	6/11/2001	130	590*/560	NA	<5.0	<5.0	<5.0	<5.0
Average	6/11/2001	257.5	2112.5	NA	2.5	2.5	2.5	2.5
MW-4-pre	8/30/2001	720	3,000	NA	<1.0	<1.0	<1.0	<1.0
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
MW-7-post	8/30/2001	330	97	NA	<1.0	<1.0	<1.0	<1.0
Average	8/30/2001	445	1,524	NA	0.5	0.5	0.5	0.5
MW-4-pre	1/15/2002	640	2,800	NA	<1.0	<1.0	<1.0	<1.0
MW-4-post	1/15/2002	290	1,100	NA	<0.5	<0.5	<0.5	<0.5
MW-7-pre	1/15/2002	89	290	NA	<0.5	<0.5	<0.5	<0.5
MW-7-post	1/15/2002	210	460	NA	<0.5	<0.5	<0.5	<0.5
Average	1/15/2002	307	1,163	NA	0.31	0.31	0.31	0.31
MW-4-pre	3/5/2002	420	2,200	NA	<1.0	<1.0	<1.0	<1.0
MW-4-post	3/5/2002	160	1,200	NA	<3.0	<3.0	<3.0	<3.0
MW-7-pre	3/5/2002	140	440	NA	<0.5	<0.5	<0.5	<0.5
MW-7-post	3/5/2002	540	440	NA	<0.5	<0.5	<0.5	<0.5
Average	3/5/2002	315	1,070	NA	0.625	0.625	0.625	0.625

Table 3. Groundwater Analytical Results - Chevron Station 9-1851, 451 Hegenberger Road, Oakland CA T Ε TPHg MTBE TPHd В X Sample Sample Concentrations reported in micrograms per Liter - ug/l = Parts Per Billion \mathbf{ID} Date < 0.5 530 2,900 NA < 0.5 < 0.5 < 0.5 MW-4-pre 6/18/2002 MW-4-post 6/18/2002 180 1,200 NA < 0.5 < 0.5 <0.5 <0.5 < 0.5 <0.5 <0.5 120 290 NA < 0.5 MW-7-pre 6/18/2002 < 0.5 < 0.5 < 0.5 MW-7-post 6/18/2002 270 400 NA < 0.5 0.25 0.25 0.25 6/18/2002 275 1,198 NA 0.25 Average < 0.5 <0.5 <0.5 MW-4-pre 8/8/2002 370 2,400 NA < 0.5 MW-4-post <50 220 NA < 0.5 < 0.5 <0.5 <0.5 8/8/2002 8/8/2002 <0.5 <0.5 <0.5 MW-7-pre 190 NA <0.5 74 < 0.5 < 0.5 8/8/2002 50 400 NA < 0.5 < 0.5 MW-7-post 8/8/2002 0.25 0.25 0.25 0.25 Average 130 803 NA 2,200 <0.5 < 0.5 MW-4-pre 10/31/2002 490 NA < 0.5 < 0.5 NA 0.9 2 13 MW-4-post 10/31/2002 330 770 1 <0.5 < 0.5 MW-7-pre 10/31/2002 89 230 NA < 0.5 < 0.5 260 NA < 0.5 <0.5 <0.5 < 0.5 200 MW-7-post 10/31/2002 3.44 865 0.41 0.44 0.69 Average 10/31/2002 277 NA <0.5 <0.5 0.5 MW-4-pre 5/20/2003 340 1,400 NA < 0.5 5/20/2003 190 NA <0.5 8 2 13 MW-4-post 140 <0.5 < 0.5 < 0.5 MW-7-pre 5/20/2003 93 170 NA <0.5 22 4 27 210 2 MW-7-post 5/20/2003 210 NA 7.69 1.63 10.13 493 NA 0.69 Average 5/20/2003 196 NA <1.0 1/5/2004 <1.0 <1.0 <1.0 MW-3-pre 290 1,500 MW-3-post 1/5/2004 260 1,300 NA <1.0 <1.0 <1.0 <1.0 MW-4-pre 330 1,500 NA <1.0 <1.0 <1.0 <1.0 1/5/2004

NA

NA

< 0.5

0.44

< 0.5

0.44

< 0.5

0.44

< 0.5

0.44

MW-4-post

Average

1/5/2004

1/5/2004

140

255

600

1,225

 Table 3. Groundwater Analytical Results - Chevron Station 9-1851, 451 Hegenberger Road, Oakland CA
 TPHg MTBE TPHd В Sample Sample T E X ID Concentrations reported in micrograms per Liter - ug/l = Parts Per Billion Date NA MW-3-pre 8/5/2004 250 1,700 2 <1.0 <1.0 <1.0 MW-3-post 8/5/2004 590 88 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 2 4/7/2005 <50 3,500 < 0.5 <0.5 <0.5 <0.5 MW-2-post 4/7/2005 <50 34 <0.5 2,900 <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 <3 <3 NA <3 <3 MW-4-post 4/7/2005 130 730 NA <1 <1 <1 <1 Average 4/7/2005 91 529 1735.00 0.50 0.50 0.50 0.50

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

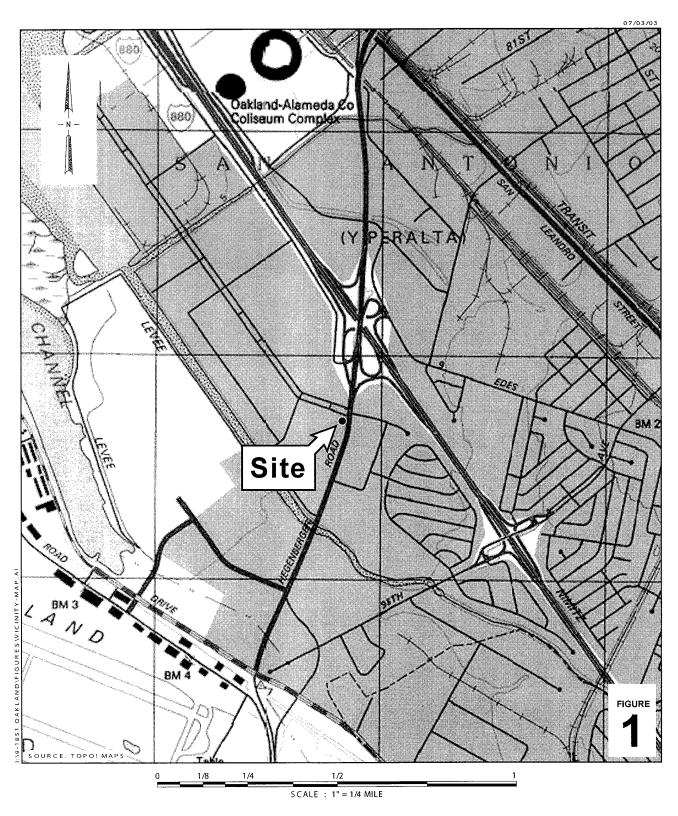
<x = Not detected above method detection limit</p>

NA = Not analyzed

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

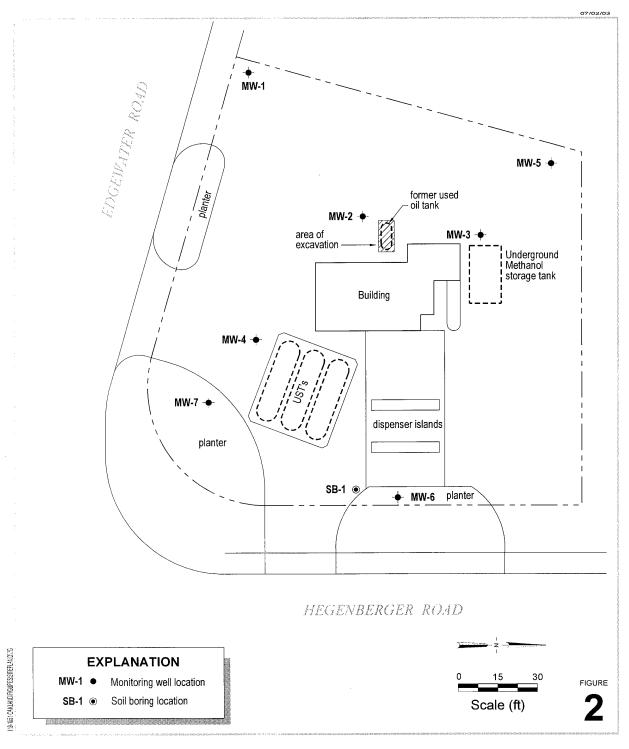


FIGURES





Vicinity Map

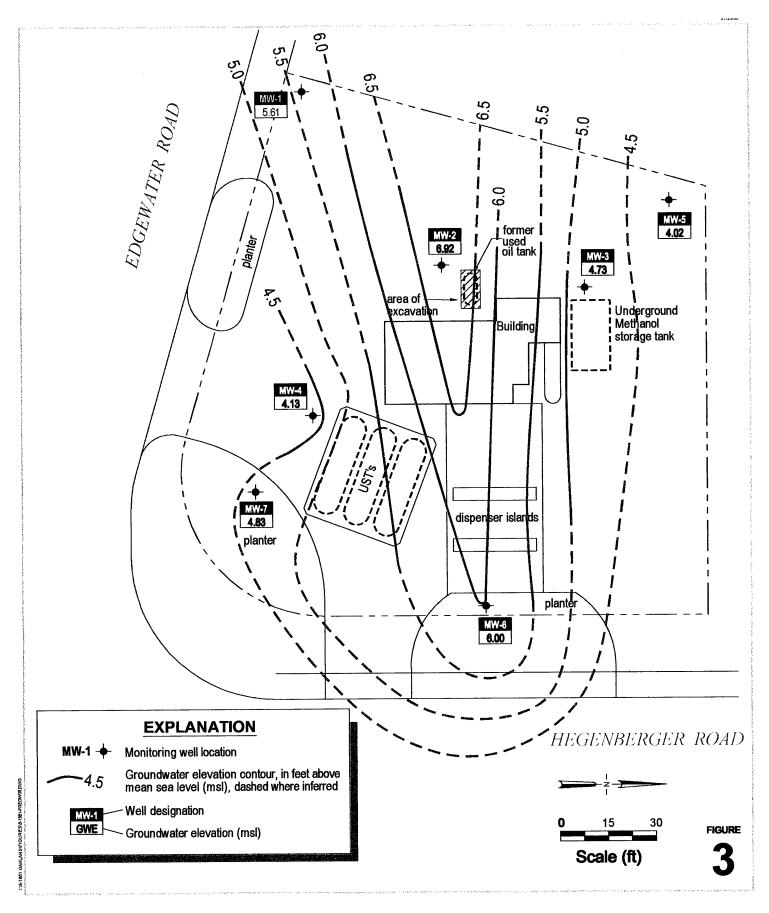


0

Site Plan

451 Hegenberger Road Oakland, California

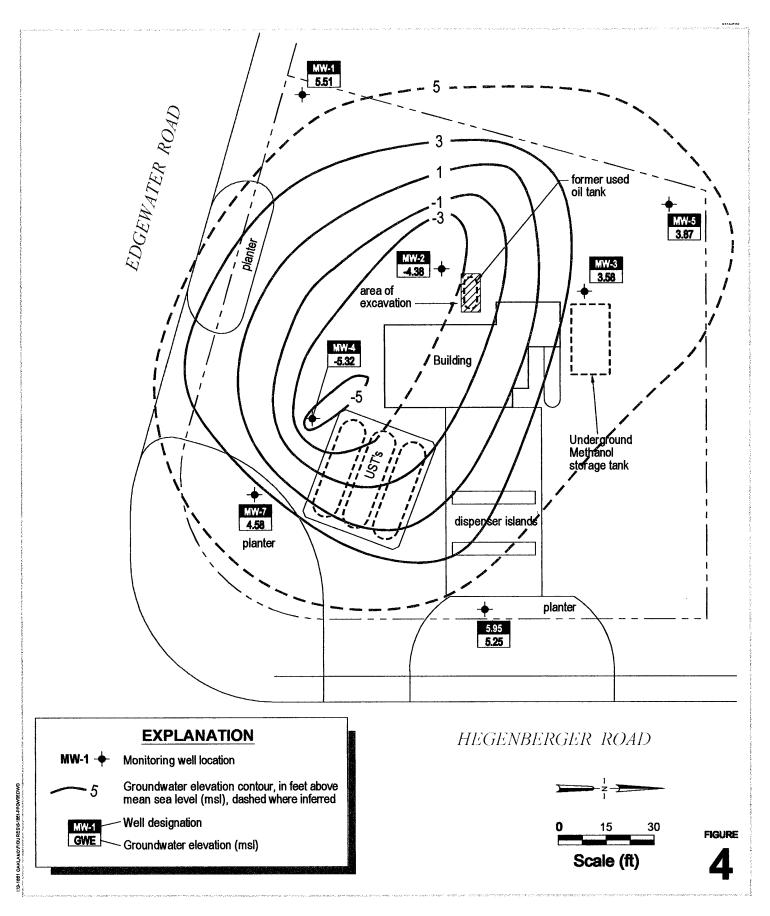
CAMBRIA



451 Hegenberger Road Oakland, California



Groundwater Elevation Contour Map



③

Groundwater Elevation
Contour Map



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 938804. Samples arrived at the laboratory on Saturday, April 09, 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-050407	Grab	Water	4499733
MW-2-post-W-050407	Grab	Water	4499734
MW-3-pre-W-050407	Grab	Water	4499735
MW-3-post-W-050407	Grab	Water	4499736
MW-4-pre-W-050407	Grab	Water	4499737
MW-4-post-W-050407	Grab	Water	4499738

1 COPY TO

Cambria Environmental

Attn: Bob Foss



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,

Michele M. Turner

Michele M. Turner

Manager



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Page 1 of 2

Lancaster Laboratories Sample No. WW 4499733

MW-2-pre-W-050407

Grab

Water

Facility# 91851 451 Hegenberger-Oakland

CETR T0600102238 MW-2-pre

Collected: 04/07/2005 14:15

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

Reported: 04/21/2005 at 11:28

ChevronTexaco

Discard: 05/22/2005 at 11

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

2-PRE

CAT			As Received	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.								
05553	TPH - DRO CA LUFT (Waters)	n.a.	3,500.	50.	ug/l	2			
02500	TPH Fuels by GC (Waters)								
02501	Total TPH	n.a.	4,200.	400.	ug/l	10			
02508	TPH Motor Oil C16-C36	n.a.	4,200.	400.	ug/l	10			
	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibration	on in a range tha	t includes					
06054	BTEX+MTBE by 8260B								
02010	Methyl Tertiary Butyl Ether	1634-04-4	2.	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.

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 06:33	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	04/16/2005 05:47	Sarah M Snyder	2
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modified	l 1	04/16/2005 05:14	Matthew E Barton	10
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 22:04	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 06:33	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 22:04	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/12/2005 18:05	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	04/12/2005 18:05	JoElla L Rice	1



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Page 2 of 2

Lancaster Laboratories Sample No. 4499733

MW-2-pre-W-050407

Grab Water

Facility# 91851

CETR

451 Hegenberger-Oakland

T0600102238 MW-2-pre

Collected: 04/07/2005 14:15

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

Reported: 04/21/2005 at 11:28

Discard: 05/22/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

2-PRE



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Page 1 of 2

Lancaster Laboratories Sample No. WW 4499734

MW-2-post-W-050407

Grab

Water CETR

Facility# 91851 451 Hegenberger-Oakland

T0600102238 MW-2-post

Collected: 04/07/2005 15:20

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

ChevronTexaco

Reported: 04/21/2005 at 11:28

6001 Bollinger Canyon Rd L4310

Discard: 05/22/2005

San Ramon CA 94583

2-PST

CAT			As Received	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. The vial submitted for volatile analysis did not have a pH < 2 at the time								
	of analysis. Due to the volatile nature of the analytes, it is not								
	appropriate for the laboratory t	o adjust the p	oH at the time of	sample					
	receipt. The pH of this sample	was $pH = 4$.							
05553	TPH - DRO CA LUFT (Waters)	n.a.	2,900.	50.	ug/l	1			
02500	TPH Fuels by GC (Waters)								
02501	Total TPH	n.a.	3,400.	400.	ug/l	10			
02508	TPH Motor Oil C16-C36	n.a.	3,400.	400.	ug/l	10			
	TPH quantitation is based on peathat of a hydrocarbon component C8 (n-octane) through C40 (n-tet	mix calibration	on in a range that	includes					
06054	BTEX+MTBE by 8260B								
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.

		паротасоту	CIII O.	IIICIE				
CAT			Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 07:01	Linda C Pape	1		
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	04/14/2005 23:12	Sarah M Snyder	1		
02500	TPH Fuels by GC (Waters)	SW-846 8015B, modifie	:d 1	04/16/2005 06:01	Matthew E Barton	10		
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 15:51	Ginelle L Haines	1		
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 07:01	Linda C Pape	1		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 15:51	Ginelle L Haines	n.a.		



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Lancaster Laboratories Sample No. 4499734

MW-2-post-W-050407

Grab

Facility# 91851

CETR T0600102238

451 Hegenberger-Oakland Collected: 04/07/2005 15:20

MW-2-post by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

ChevronTexaco

Reported: 04/21/2005 at 11:28 Discard: 05/22/2005

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

2-PST

02135 Extraction - DRO Water TPH by CA LUFT 1 04/12/2005 18:05 JoElla L Rice 1 SW-846 3510C 04/12/2005 18:05 JoElla L Rice 07003 Extraction - DRO (Waters) 1



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Page 1 of 1

Lancaster Laboratories Sample No. 4499735

MW-3-pre-W-050407

Grab Water

Facility# 91851

CETR

451 Hegenberger-Oakland

MW-3-pre T0600102238

Collected:04/07/2005 10:00

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

Reported: 04/21/2005 at 11:28 Discard: 05/22/2005

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ChevronTexaco

3-PRE

CAT			As Received	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 prostart time. The vial submitted for volatile of analysis. Due to the volatile appropriate for the laboratory treceipt. The pH of this sample	rior to the C6 analysis did r le nature of th to adjust the p	(n-hexane) TPH-GF not have a pH < 2 ne analytes, it is	RO range at the time s not		
05553	TPH - DRO CA LUFT (Waters)	n.a.	300.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	86.	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 07:30	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	04/15/2005 00:19	Sarah M Snyder	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 22:25	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 07:30	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 22:25	Dawn M Harle	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/12/2005 18:05	JoElla L Rice	1



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Lancaster Laboratories Sample No. 4499736

MW-3-post-W-050407

Grab

Facility# 91851

CETR

451 Hegenberger-Oakland

MW-3-post T0600102238

Account Number: 10880

Collected: 04/07/2005 11:30

by MT

Submitted: 04/09/2005 09:25

ChevronTexaco

Reported: 04/21/2005 at 11:28 Discard: 05/22/2005

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

3-PST

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	100.	50.	ug/l	1
	The reported concentration of gasoline constituents eluting start time.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	240.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	420.	3.	ug/l	5
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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 07:59	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	04/15/2005 00:41	Sarah M Snyder	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 17:04	Ginelle L Haines	5
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 22:46	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 07:59	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 22:46	Dawn M Harle	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	04/13/2005 17:04	Ginelle L Haines	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/12/2005 18:05	JoElla L Rice	1



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Lancaster Laboratories Sample No. 4499737

all $\operatorname{GC}/\operatorname{MS}$ volatile compounds were raised.

MW-4-pre-W-050407

Grab

Facility# 91851

CETR T0600102238 MW-4-pre

451 Hegenberger-Oakland Collected: 04/07/2005 12:00

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

Reported: 04/21/2005 at 11:28 Discard: 05/22/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

4-PRE

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	240.	50.	ug/l	1
	The reported concentration of Tr gasoline constituents eluting pr start time. The vial submitted for volatile of analysis. Due to the volatil appropriate for the laboratory t receipt. The pH of this sample	rior to the C6 analysis did r le nature of th to adjust the p	(n-hexane) TPH-G not have a pH < 2 ne analytes, it i	RO range at the time s not		
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1,900.	13.	ug/l	25
05401	Benzene	71-43-2	N.D.	3.	ug/l	5
05407	Toluene	108-88-3	N.D.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	N.D.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	N.D.	3.	ug/l	5
	Due to the level of methyl terti	iarv butvl ethe	er, the reporting	limits for		

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

CAT		1		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 08:28	Linda C Pape	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 17:28	Ginelle L Haines	5
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 17:53	Ginelle L Haines	25
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 08:28	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 17:28	Ginelle L Haines	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	04/13/2005 17:53	Ginelle L Haines	n.a.



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Lancaster Laboratories Sample No. 4499738

MW-4-post-W-050407

Grab

Water

Facility# 91851 451 Hegenberger-Oakland

CETR T0600102238 MW-4-post

Collected: 04/07/2005 13:35

by MT

Account Number: 10880

Submitted: 04/09/2005 09:25

Reported: 04/21/2005 at 11:28

Discard: 05/22/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

4-PST

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	130.	50.	ug/l	1
	The reported concentration of T gasoline constituents eluting p start time.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	730.	5.	ug/l	10
05401	Benzene	71-43-2	N.D.	1.	ug/l	2
05407	Toluene	108-88-3	N.D.	1.	ug/l	2
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	2
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	2
	Due to the level of methyl term all GC/MS volatile compounds we		er, the reporting	limits for		

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2005 08:57	Linda C Pape	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 08:45	Ginelle L Haines	2
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/13/2005 09:09	Ginelle L Haines	10
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2005 08:57	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/13/2005 08:45	Ginelle L Haines	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	04/13/2005 09:09	Ginelle L Haines	n.a.



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 938804

Reported: 04/21/05 at 11:29 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 051010021A Total TPH TPH Motor Oil C16-C36	Sample num N.D. N.D.	nber(s): 4 40. 40.	1499733-449 ug/l ug/l	9973 4 70	85	57-115	19	20
Batch number: 051010023A TPH - DRO CA LUFT (Waters)	Sample num	nber(s): 4 50.	1499733-449 ug/l	99736 74	85	64-125	14	20
Batch number: 05104A16A TPH-GRO - Waters	Sample num	mber(s): 4 50.	499733-449 ug/l	99738 103	104	70-130	1	30
Batch number: Z051031AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample num N.D. N.D. N.D. N.D. N.D.	nber(s): 4 0.5 0.5 0.5 0.5 0.5	1499738 ug/l ug/l ug/l ug/l ug/l	96 85 90 95 94		77-127 85-117 85-115 82-119 83-113		
Batch number: Z051032AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample num N.D. N.D. N.D. N.D. N.D.	nber(s): 4 0.5 0.5 0.5 0.5 0.5	1499734,449 ug/1 ug/1 ug/1 ug/1 ug/1	99736-4499 103 89 89 92 92	737	77-127 85-117 85-115 82-119 83-113		
Batch number: Z051033AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample num N.D. N.D. N.D. N.D. N.D.	nber(s): 4 0.5 0.5 0.5 0.5 0.5	1499733,449 ug/l ug/l ug/l ug/l ug/l	99735-4499 105 93 95 97 97	736	77-127 85-117 85-115 82-119 83-113		

Sample Matrix Quality Control

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: 05104A16A TPH-GRO - Waters	Sample 115	number	(s): 4499733 63-154	3-44997	'38				
Batch number: Z051031AA Methyl Tertiary Butyl Ether Benzene	Sample 96 92	number 98 92	(s): 4499738 69-134 83-128	8 1 0	30 30				

*- 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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Page 2 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 938804

Reported: 04/21/05 at 11:29 AM

Sample Matrix Quality Control

Analysis Name Toluene Ethylbenzene Xylene (Total)	MS %REC 97 102 100	MSD %REC 98 102 101	MS/MSD Limits 83-127 82-129 82-130	RPD 1 1 0	RPD <u>MAX</u> 30 30 30	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: Z051032AA	Sample	number	(s): 449973	4.44997	736-449	9737			
Methyl Tertiary Butyl Ether	107	108	69-134	1	30				
Benzene	95	98	83-128	3	30				
Toluene	97	99	83-127	2	30				
Ethylbenzene	102	102	82-129	0	30				
Xylene (Total)	100	101	82-130	1	30				
Batch number: Z051033AA	Sample	number	(s): 449973	3,44997	735-449	9736			
Methyl Tertiary Butyl Ether	108	109	69-134	1	30				
Benzene	99	100	83-128	1	30				
Toluene	102	103	83-127	0	30				
Ethylbenzene	106	104	82-129	1	30				
Xylene (Total)	104	103	82-130	1	30				

Surrogate Quality Control

Analysis Name: TPH Fuels by GC (Waters)

Batch number: 051010021A Chlorobenzene

Dacon mana	Chlorobenzene	Orthoterphenyl	
4499733	63	104	
4499734	64	80	
Blank	58	74	
LCS	64	93	
LCSD	120	112	
Limits:	14-141	37-146	

Analysis Name: TPH - DRO CA LUFT (Waters) Batch number: 051010023A

Orthoterphenyl

4499733	95
4499734	84
4499735	80
4499736	74
Blank	93
LCS	101
LCSD	109

Limits: 52-134

Analysis Name: TPH-GRO - Waters Batch number: 05104A16A Trifluorotoluene-F

4499733	101
4499734	101

- *- 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.



83-113

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Quality Control Summary

	me: ChevronTexaco 04/21/05 at 11:29	AM	roup Number: 938804	
4499735 4499736 4499737 4499738 Blank LCS LCSD MS	101 101 102 102 100 101 102 103	J - Z	•	
Limits:	70-142			
	me: BTEX+MTBE by 8260B r: Z051031AA			
Baccii ilumbei	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4499738	100	100	91	92
Blank	100	102	91	91
LCS	102	104	92	95
MS	101	101	92	94
MSD	101	102	91	95
Limits:	81-120	82-112	85-112	83-113
	me: BTEX+MTBE by 8260B r: Z051032AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4499734	111	111	94	100
4499737	109	110	94	98
Blank	109	111	94	98
LCS	112	110	94	101
MS	106	106	95	101
MSD	107	109	94	101
Limits:	81-120	82-112	85-112	83-113
	me: BTEX+MTBE by 8260B r: Z051033AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4499733	108	106	95	95
4499735	102	106	95	96
4499736	103	105	95	96
Blank	103	104	95	96
LCS	107	99	95	98
MS	104	104	95	98
MSD	110	104	95	98
		•		

85-112

*- Outside of specification

81-120

Limits:

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

82-112

(2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

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A!	Where quality is a science.	

Lancaster Where quality is a	Labor science.	atories	<u>.</u>	194	0805-	- 177	A	.cct. #	: <u>4 c</u>	184	PD.	_ Sa	F ample	or L	anca: 44	Ref Labor	atories 3 - 3	use or	nly 614 scr#:_	938804		
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Service Order#: Non SAR:									BTEX + MTBE	015	0151	8 3	8	7420	1				Run oxy's on highest hit			
Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month D	Time Day Collected	New Field Pt.	Grab	Composite	Total	Ĕ	TPH 8015 MOD	TPH 8015 MOD DRO	8260 full scan		Lead 7420.				1	oxy's on all hi	1	
MW-2-pre	W			05 04 0		1.1010.1.1	X	1	7	文	X	X				Z T			Comment	/ Remarks		
MW-2-dost				1	1520				7	X	X	X				X T			-1	•	•	
MW3- pre					1000		П		7	X	X	X			Ī				7	•		
MW-3 post					1130		Ш		7	\times	X	X							7			
MW-4- pre					1200				6	X	X											
MW-4-post				<u> </u>	1335		Ц		6	\boxtimes	X								brack	,		
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3460 Rev. 10/04/01



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

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)	1	liter(s)
m3	cubic meter(s)	ul	microliter(s)

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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 quantitated on a diluted sample Concentration exceeds the calibration range of	B E M N S	Value is <crdl, (msa)="" additions="" but="" control="" due="" duplicate="" estimated="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" th="" to="" used<="" within="" ≥idl=""></crdl,>
N P	the instrument Presumptive evidence of a compound (TICs only) Concentration difference between primary and	U W	for calculation Compound was not detected Post digestion spike out of control limits
U X.Y.Z	confirmation columns >25% Compound was not detected Defined in case narrative	*	Duplicate analysis not within control limits Correlation coefficient for MSA <0.995

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

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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