R. 2435

Environmental Management Company
6001 Bollinger Canyon Rd, L4050
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-1589
Fax 925-842-8370

Karen Streich
Project Manager

February 18, 2004

ChevronTexaco

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

Re: Chevron Service Station # 9-3600

Address: 2200 Telegraph Avenue, Oakland, California

I have reviewed the attached routine groundwater monitoring report dated February 4, 2004.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

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

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Karen Streich

Karen Streich
Project Manager

Enclosure: Report

GETTLER-RYAN INC.

TRANSMITTAL

February 3, 2004
G-R #386895

TO: Ms. Kristene Wilder
Cambria Environmental Technology, Inc.
4111 Citrus Avenue, Unit #9
Rocklin, California 95677

CC: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#9-3600
2200 Telegraph Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 27, 2004	Groundwater Monitoring and Sampling Report First Quarter - Event of January 5, 2004

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***February 17, 2004***, at which time the final report will be distributed to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Yichin Hwang (Property Owner) 2200 Telegraph Avenue, Oakland, CA 94612

Enclosures

trans/9-3600-ks

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

GETTLER-RYAN INC.

January 27, 2004
G-R Job #386895

Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of January 5, 2004
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

Dear Ms. Streich:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
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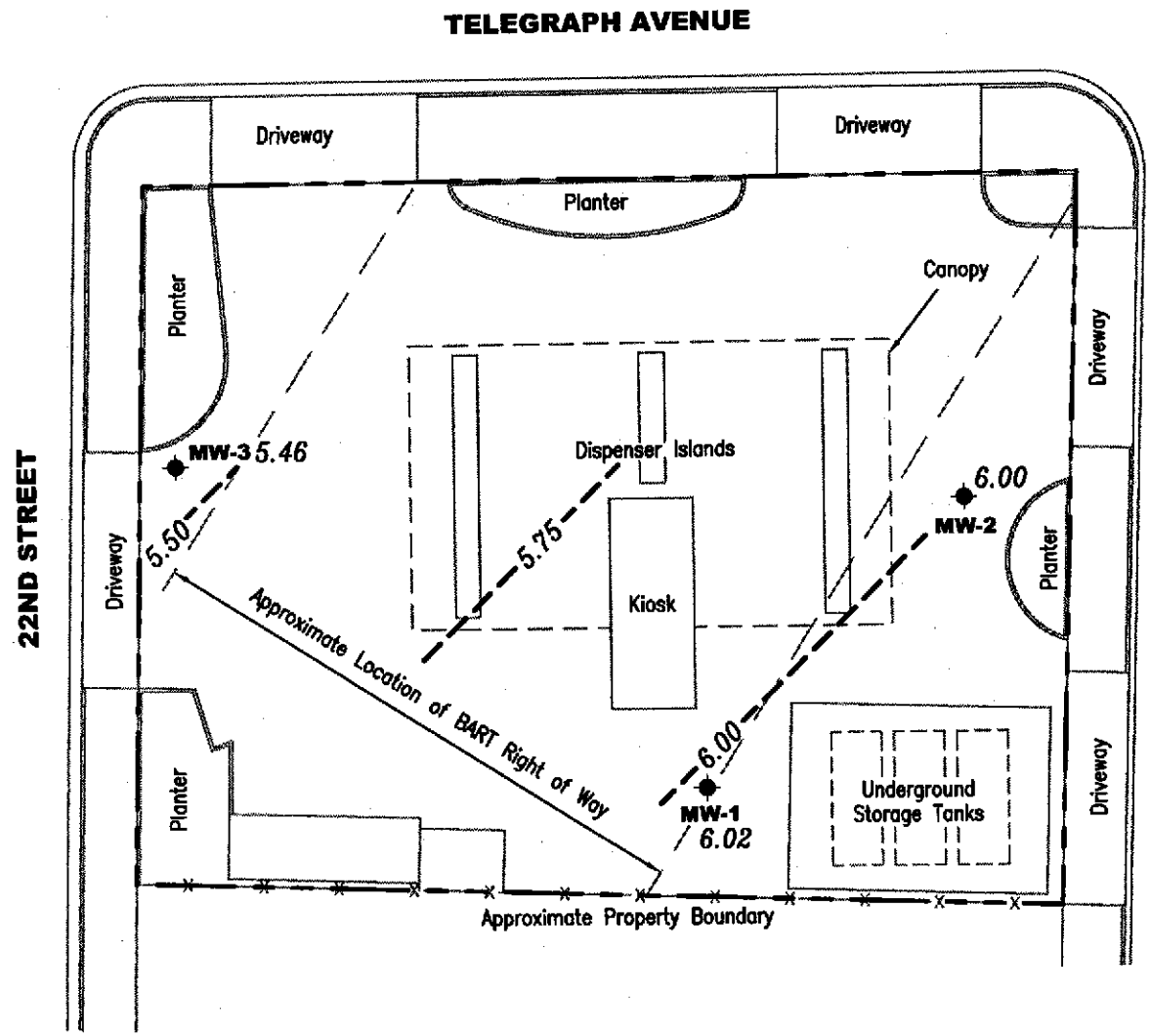

EXPLANATION

- Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.006 Ft./Ft.

N

0 30

Scale in Feet

Source: Figure modified from drawing provided by Morrow Surveying April 17, 2002

FIGURE 1

GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386895		January 5, 2004	

FILE NAME: P:\ENVIRO\CHEVRON\9-3600\Q04-9-3600.DWG | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
17.07	04/05/02[1]	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370[2]
	07/01/02	12.01	5.06	2,000	8.9	<1.0	97	31	370/420[2]
	10/08/02	12.20	4.87	1,400	9.2	<10	75	20	440/360[2]
	01/11/03	11.13	5.94	1,600	7.1	0.51	53	13	280/270[2]
	04/01/03	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210[2]
	07/01/03[3]	11.95	5.12	2,000	4	<0.5	31	12	170
	10/02/03[3]	12.25	4.82	480	<5	<5	<5	<5	9,800
	01/05/04[3]	**11.05**	**6.02**	**1,700**	**3**	**<0.5**	**27**	**4**	**140**
MW-2									
16.82	04/05/02[1]	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	07/01/02	11.36	5.46	<50	<0.50	0.57	0.52	<1.5	<2.5/<2[2]
	10/08/02	11.57	5.25	<100	<2.0	<2.0	<2.0	<5.0	<10/<2[2]
	01/11/03	10.94	5.88	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	04/01/03	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5[2]
	07/01/03[3]	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/02/03[3]	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	01/05/04[3]	**10.82**	**6.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3									
16.52	04/05/02[1]	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2[2]
	07/01/02	11.55	4.97	<50	<0.50	0.60	<0.50	<1.5	<2.5/<2[2]
	10/08/02	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<10/<2[2]
	01/11/03	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	04/01/03	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5[2]
	07/01/03[3]	11.42	5.10	<50	<0.5	<0.5	<0.5	<0.5	2
	10/02/03[3]	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	01/05/04[3]	**11.06**	**5.46**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK									
QA	04/05/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	07/01/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	10/08/02	--	--	<100	<2.0	<2.0	<2.0	<5.0	<10
	01/11/03	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	04/01/03	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
	07/01/03[3]	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/02/03[3]	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	01/05/04[3]	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

EXPLANATIONS:

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

1 Well development performed.

2 MTBE by EPA Method 8260.

3 BTEX and MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	04/05/02	--	200	370	<2	<2	10
	07/01/02	--	190	420	<2	<2	9
	10/08/02	--	110	360	<2	<2	8
	01/11/03	--	<100	270	<2	<2	7
	04/01/03	--	22	210	<0.5	<0.5	5
	07/01/03	<50	26	170	<0.5	<0.5	5
	10/02/03	<500	2,600	9,800	<5	<5	6
	01/05/04	**<50**	**21**	**140**	**<0.5**	**<0.5**	**3**
MW-2	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	--	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	**<50**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	--	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	2	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	**<50**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1-5-04 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-1 Date Monitored: 1-5-04 Well Condition: O.K
Well Diameter 2 in.
Total Depth 20.28 ft.
Depth to Water 11.05 ft.
9.23 xVF 0.17 = 1.57 x3 (case volume) = Estimated Purge Volume: 5 gal.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0830 Weather Conditions: clear/cold
Sample Time/Date: 0856 ~~0956~~ 1-5-04 Water Color: clear Odor:
Purging Flow Rate: 0.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0840	1.5	7.96	~~8.48~~	61.2		
~~0845~~	3	7.30	8.40	61.9		
0848	5	7.18	8.42	61.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1-5-04 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-2 Date Monitored: 1-5-04 Well Condition: O.K.
Well Diameter 2 in.
Total Depth 20.25 ft.
Depth to Water 10.82 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

9.43 xVF 0.17 = 1.60 x3 (case volume) = Estimated Purge Volume: 5 gal.

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0730 Weather Conditions: Cold
Sample Time/Date: 0752 / ~~1-5-04~~ 1-5-04 Water Color: Clear Odor:
Purging Flow Rate: ~.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) x low	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0736	1.5	7.66	10.11	60.4		
0740	3	7.60	9.28	60.8		
0743	5	7.53	9.31	61.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1.5.04 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-3 Date Monitored: 1-5-04 Well Condition: o.k
Well Diameter 2 in.
Total Depth 20.20 ft.
Depth to Water 11.06 ft.
9.14 xVF 0.17 = 1.55 x3 (case volume) = Estimated Purge Volume: 5 gal.

Volume Factor (VF)	.3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 0800 Weather Conditions: cold
Sample Time/Date: 0823 / 1-5-04 Water Color: clear Odor:
Purging Flow Rate: 0.3 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0808	1.5	6.97	2.45	62.2		
0812	3	7.18	2.42	62.0		
0815	5	6.20	2.38	61.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10904 Sample #: 419545-48 SCR#: 880619

010704 -010

Facility #: SS#9-3600 G-R#386895 Global ID#T0600161613
Site Address: 2200 TELEGRAPH AVENUE, OAKLAND, CA
Chevron PM: KS Lead Consultant: CAMBRIA
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: JOE ASEMIAN
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates (8260) (H)	Lead 7420 ☐ 7421 ☐	Ethanol (8260) (H)	Comments / Remarks
QA	—	—	✓			✓		2	✓	✓						
MW-1	1-5-04	0856	✓			✓		6	✓	✓			✓		✓	
MW-2	"	0752	✓			✓		6	✓	✓			✓		✓	
MW-3	"	0823	✓			✓		6	✓	✓			✓		✓	

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

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

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

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I — Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Joe Asemian	1-5-04	1315		1/7/04	1330
	1/7/04	1330	Andres Amaya	1/7/04	1400
Andres Amaya	1/7/04	1530	Airborne	1/7/04	

Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne
Temperature Upon Receipt 2.5 C°

Received by: Date 1/8/04 Time 0815
Custody Seals Intact? (Yes) No

Lancaster Laboratories

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Analysis Report

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 880619. Samples arrived at the laboratory on Thursday, January 08, 2004. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-040105	NA	Water	4195545
MW-1-W-040105	Grab	Water	4195546
MW-2-W-040105	Grab	Water	4195547
MW-3-W-040105	Grab	Water	4195548

1 COPY TO	Cambria C/O Gettler- Ryan	Attn: Deanna L. Harding
ELECTRONIC COPY TO	Gettler-Ryan	Attn: Cheryl Hansen

Lancaster Laboratories

Analysis Report

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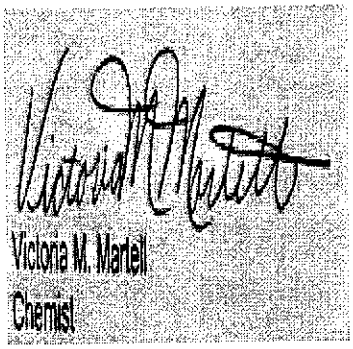
Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,



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Analysis Report

Lancaster Laboratories Sample No. WW 4195545

QA-T-040105 NA Water GRD
Facility# 93600 Job# 386895
2200 Telegraph Av-Oakland T0600161613 QA
Collected:01/05/2004 00:00

Account Number: 10904

Submitted: 01/08/2004 09:50
Reported: 01/12/2004 at 10:43
Discard: 02/12/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QA-TE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/09/2004 08:52	Todd T Smythe	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	01/09/2004 13:21	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/09/2004 08:52	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2004 13:21	Lauren C Marzario	n.a.

Lancaster Laboratories

Analysis Report

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Lancaster Laboratories Sample No. WW 4195546

MW-1-W-040105 Grab Water
Facility# 93600 Job# 386895 GRD
2200 Telegraph Av-Oakland T0600161613 MW-1
Collected:01/05/2004 08:56 by JA

Account Number: 10904

Submitted: 01/08/2004 09:50
Reported: 01/12/2004 at 10:43
Discard: 02/12/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1TEL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	1,700.	500.	ug/l	10
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	140.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	3.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	21.	5.	ug/l	1
05401	Benzene	71-43-2	3.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	27.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	4.	0.5	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/09/2004 09:25	Todd T Smythe	10
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	01/09/2004 11:16	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/09/2004 09:25	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2004 11:16	Lauren C Marzario	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4195547

MW-2-W-040105 Grab Water
Facility# 93600 Job# 386895 GRD
2200 Telegraph Av-Oakland T0600161613 MW-2
Collected:01/05/2004 07:52 by JA

Account Number: 10904

Submitted: 01/08/2004 09:50
Reported: 01/12/2004 at 10:44
Discard: 02/12/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M2TEL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	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

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/09/2004 09:58	Todd T Smythe	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	01/09/2004 11:41	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/09/2004 09:58	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2004 11:41	Lauren C Marzario	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4195548

MW-3-W-040105 Grab Water
Facility# 93600 Job# 386895 GRD
2200 Telegraph Av-Oakland T0600161613 MW-3
Collected:01/05/2004 08:23 by JA

Account Number: 10904

Submitted: 01/08/2004 09:50
Reported: 01/12/2004 at 10:44
Discard: 02/12/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M3TEL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	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
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/09/2004 10:31	Todd T Smythe	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	01/09/2004 12:06	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/09/2004 10:31	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2004 12:06	Lauren C Marzario	n.a.

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 880619
Reported: 01/12/04 at 10:44 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04008A07B	Sample number(s): 4195545-4195548							
TPH-GRO - Waters	N.D.	50.	ug/l	92		70-130		
Batch number: N040071AD	Sample number(s): 4195546-4195548							
Ethanol	N.D.	50.	ug/l	99	104	46-145	4	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97	101	77-127	4	30
di-Isopropyl ether	N.D.	0.5	ug/l	97	100	74-125	4	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	98	101	74-120	3	30
t-Amyl methyl ether	N.D.	0.5	ug/l	98	102	79-113	4	30
t-Butyl alcohol	N.D.	5.	ug/l	101	101	53-147	0	30
Benzene	N.D.	0.5	ug/l	99	103	85-117	4	30
Toluene	N.D.	0.5	ug/l	94	100	85-115	6	30
Ethylbenzene	N.D.	0.5	ug/l	96	99	82-119	3	30
Xylene (Total)	N.D.	0.5	ug/l	95	99	84-120	4	30
Batch number: N040091AA	Sample number(s): 4195545							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		77-127		
Benzene	N.D.	0.5	ug/l	98		85-117		
Toluene	N.D.	0.5	ug/l	94		85-115		
Ethylbenzene	N.D.	0.5	ug/l	96		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		84-120		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04008A07B	Sample number(s): 4195545-4195548								
TPH-GRO - Waters	100	103	63-154	1	30				
Batch number: N040071AD	Sample number(s): 4195546-4195548								
Ethanol	94		38-149						
Methyl Tertiary Butyl Ether	121		69-134						
di-Isopropyl ether	122		75-130						
Ethyl t-butyl ether	119		78-119						
t-Amyl methyl ether	120*		77-117						
t-Butyl alcohol	108		44-150						
Benzene	127		83-128						
Toluene	122		83-127						
Ethylbenzene	122		82-129						
Xylene (Total)	122		82-130						
Batch number: N040091AA	Sample number(s): 4195545								
Methyl Tertiary Butyl Ether	102	98	69-134	4	30				
Benzene	108	106	83-128	3	30				
Toluene	105	104	83-127	1	30				
Ethylbenzene	107	103	82-129	4	30				
Xylene (Total)	106	103	82-130	3	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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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Reported: 01/12/04 at 10:44 AM

Group Number: 880619

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 04008A07B

	Trifluorotoluene-F
4195545	79
4195546	91
4195547	79
4195548	78
Blank	79
LCS	100
MS	104
MSD	105
Limits:	57-146

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: N040071AD

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4195546	98	94	101	98
4195547	96	91	98	95
4195548	97	94	98	94
Blank	96	92	99	96
LCS	96	96	99	99
LCSD	95	95	100	99
MS	96	97	99	98
Limits:	81-120	82-112	85-112	83-113

Analysis Name: BTEX+MTBE by 8260B
Batch number: N040091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4195545	95	92	99	95
Blank	96	92	99	96
LCS	98	94	99	97
MS	97	96	99	98
MSD	98	94	99	98
Limits:	81-120	82-112	85-112	83-113

*- 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.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

Inorganic Qualifiers

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

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

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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