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

R02438

April 23, 2003

ChevronTexaco

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

Alameda County
APR 25 2003
Environmental Health

Re: Chevron Service Station # 9-2029

Address: 890 West MacArthur Blvd., Oakland, CA

I have reviewed the attached routine groundwater monitoring report dated April 8, 2003.

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

April 8, 2003
G-R #386911

TO: Mr. Robert Foss
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

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
#9-2029
890 West MacArthur Blvd.
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 3, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of March 1, 2003

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 ***April 22, 2003***, 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, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577**

Enclosures

trans/9-2029-ks

GETTLER-RYAN INC.

April 3, 2003
G-R Job #386911

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

RE: First Quarter Event of March 1, 2003
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-2029
890 West MacArthur Boulevard
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.

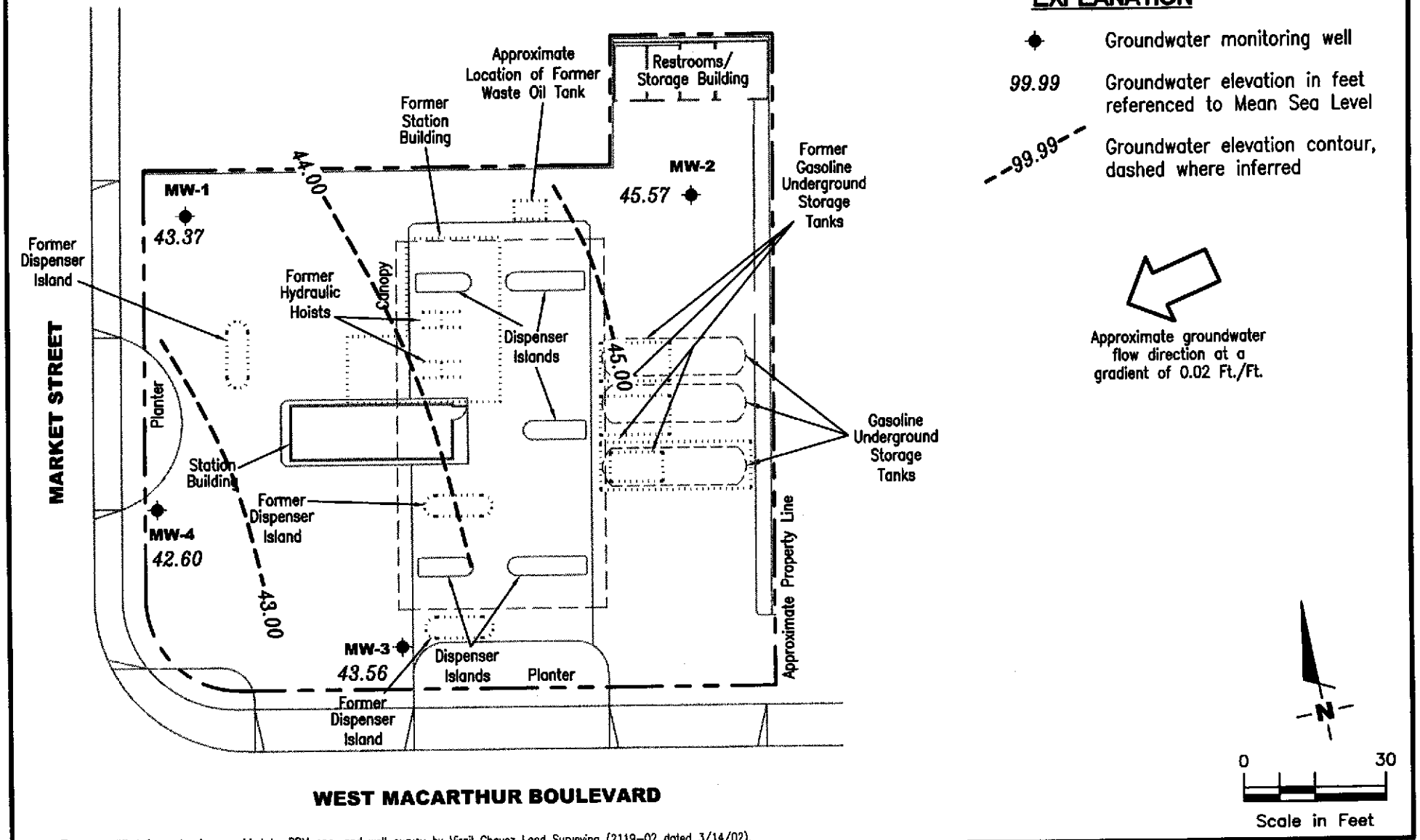
Sincerely,

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



Source: Figure modified from drawing provided by RRM eng. and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

FIGURE 1

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

POTENTIOMETRIC MAP
Chevron Service Station #9-2029
890 West MacArthur Boulevard
Oakland, California

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386911		March 1, 2003	

FILE NAME: P:\ENVIRO\CHEVRON\9-2029\COPY OF Q02-9-2029.DWG | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
50.71	03/12/02[1]	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	06/07/02	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	09/13/02	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	12/13/02	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	03/01/03	**7.34**	**43.37**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5/<0.5[2]**
MW-2									
52.57	03/12/02[1]	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3[2]
	06/07/02	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	09/13/02	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	12/13/02	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
	03/01/03	**7.00**	**45.57**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5/<0.5[2]**
MW-3									
50.31	03/12/02[1]	6.50	43.81	12,000	600	8.5	1,100	370	700/650[2]
	06/07/02	7.74	42.57	14,000	630	8.8	1,200	160	520/490[2]
	09/13/02	9.73	40.58	3,000	270	3.2	200	11	600/640[2]
	12/13/02	8.60	41.71	24,000	1,100	14	2,400	220	650/540[2]
	03/01/03	**6.75**	**43.56**	**16,000**	**500**	**9.0**	**1,200**	**130**	**460/330[2]**
MW-4									
49.93	03/12/02[1]	5.34	44.59	9,700	360	5.3	1,100	150	170/170[2]
	06/07/02	8.52	41.41	7,300	170	2.7	280	21	200/120[2]
	09/13/02	9.86	40.07	5,800	92	4.5	80	14	190/160[2]
	12/13/02	9.42	40.51	10,000	250	2.2	330	19	170/200[2]
	03/01/03	**7.33**	**42.60**	**12,000**	**300**	**4.6**	**900**	**110**	**160/100[2]**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK									
QA	03/12/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	06/07/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	09/13/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	12/13/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	03/01/03	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level

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 March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

1 Well development performed.

2 MTBE by EPA method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/12/02	<100	<2	<2	<2	<2	<2	<2
	06/07/02	<100	<2	<2	<2	<2	<2	<2
	09/13/02	<100	<2	<2	<2	<2	<2	<2
	12/13/02	<100	<2	<2	<2	<2	<2	<2
	03/01/03	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-2	03/12/02	<100	3	<2	<2	<2	<2	<2
	06/07/02	<100	<2	<2	<2	<2	<2	<2
	09/13/02	<100	<2	<2	<2	<2	<2	<2
	12/13/02	<100	<2	<2	<2	<2	<2	<2
	03/01/03	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3	03/12/02	<100	650	<2	<2	18	<2	<2
	06/07/02	230	490	<5.0	<5.0	11	<5.0	<5.0
	09/13/02	170	640	<2	<2	8	<2	<2
	12/13/02	240	540	<2	<2	29	31	<2
	03/01/03	**160**	**330**	**<0.5**	**<0.5**	**10**	**<0.5**	**<0.5**
MW-4	03/12/02	<100	170	<2	<2	13	<2	<2
	06/07/02	<100	120	<2	<2	14	<2	<2
	09/13/02	<100	160	<2	<2	14	<2	<2
	12/13/02	<100	200	<2	<2	17	<2	<2
	03/01/03	**19**	**100**	**<0.5**	**<0.5**	**8**	**<0.5**	**<0.5**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-2029
890 West MacArthur Blvd.
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
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion

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 #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 3.1.03 (inclusive)
City: Oakland, CA Sampler: FT

Well ID: MW- 1 Date Monitored: 3.1.03 Well Condition: Ok'
Well Diameter: 2 in.
Total Depth: 24.80 ft.
Depth to Water: 7.34 ft.
17.46 xVF .17 = 2.96 x3 (case volume) = Estimated Purge Volume: 8.90 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: 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): 12:55 Weather Conditions: SUNNY
Sample Time/Date: 1:08 / 3.1.03 Water Color: CLEAR Odor: NO
Purging Flow Rate: 3.0 gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
12:56	3.0	7.83	264	16.8		
12:57	6.0	7.73	260	16.7		
12:58	9.0	7.61	261	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 1	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)/ 7 Oxy's(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 3.1.03 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW- 2 Date Monitored: 3.1.03 Well Condition: OK
Well Diameter 2 in.
Total Depth 24.70 ft.
Depth to Water 7.00 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

17.70 xVF .17 = 3.00 x3 (case volume) = Estimated Purge Volume: 9.0 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: 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): 1:22 Weather Conditions: SUNNY
Sample Time/Date: 1:34 / 3.1.03 Water Color: CLOUDY | V. LT. TAN Odor: NO
Purging Flow Rate: 3.0 gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1:23	3.0	7.68	295	16.4		
1:24	6.0	7.58	291	16.2		
1:25	9.0	7.44	290	16.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 2	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)/ 7 Oxy's(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 3.1.03 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-3 Date Monitored: 3.1.03 Well Condition: O'K'
Well Diameter 2 in.
Total Depth 24.53 ft.
Depth to Water 6.75 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

17.78 xVF .17 = 3.02 x3 (case volume) = Estimated Purge Volume: 9.06 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: 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): 2:19 Weather Conditions: SUNNY
Sample Time/Date: 2:38 / 3.1.03 Water Color: CLEAR Odor: YES
Purging Flow Rate: 2.5 gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
2:20:30	3.0	7.51	311	18.7		
2:22	6.0	7.33	316	19.1		
2:24	9.0	7.30	313	19.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)/ 7 Oxy's(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 3.1.03 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-4 Date Monitored: 3.1.03 Well Condition: OK!
Well Diameter 2 in.
Total Depth 24.64 ft.
Depth to Water 7.33 ft.
17.31 xVF .17 = 2.94 x3 (case volume) = Estimated Purge Volume: 8.82 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: 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): 1:49 Weather Conditions: SUNNY
Sample Time/Date: 2:02 / 3.1.03 Water Color: CLEAR Odor: YES
Purging Flow Rate: 2.5 gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1:50:30	3.0	7.37	337	18.1		
1:52	6.0	7.23	344	18.4		
1:54	9.0	7.18	335	18.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)/ 7 Oxy's(8260)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

030303-008

Acct. #: 10904 For Lancaster Laboratories use only Sample #: 400480G-10 SCR#: 343320

Facility #: 9-2029 Job# 386911 Global ID# NA
Site Address: 890 West MacArthur Blvd., Oakland, CA
Chevron PM: Karen Streich Lead Consultant: Cambria/Foss
Consultant/Office: G-R inc,6747 Sierra Ct, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding Deanna@grinc.com
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: FRANK TERRINONI
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates (8260)	Lead 7420 ☐ 7421
					Preservation Codes					H	H				H	
QA	3.1.03					W			2	X	X					
MW-1		1308	X						6	X	X				X	
MW-2		1334	X						6	X	X				X	
MW-3		1438	X						6	X	X				X	
MW-4		1402	X						6	X	X				X	

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

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

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

Comments / Remarks

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

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

	Date	Time		Date	Time
Relinquished by:	3.1.03		Received by:	3/3/03	1117
Relinquished by:	3/3/03	1245	Received by:	3303	1245
Relinquished by:	3-3-03	1500	Received by:	33-03	
Relinquished by Commercial Carrier: UPS FedEx (Other)			Received by:	Date	Time
Temperature Upon Receipt 2.0 C°			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Analysis Report

Lancaster Laboratories

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 843320. Samples arrived at the laboratory on Tuesday, March 04, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-030301	NA	Water	4004806
MW-1-W-030301	Grab	Water	4004807
MW-2-W-030301	Grab	Water	4004808
MW-3-W-030301	Grab	Water	4004809
MW-4-W-030301	Grab	Water	4004810

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

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

Respectfully Submitted,

Robert E. Mellinger
Sr Chemist/Coordinator

MEMBER ACIL
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717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004806

Collected:03/01/2003 00:00

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
QA-T-030301 NA Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA QA

Q2029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	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.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	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
01729	TPH-GRO - Waters	TPH-GRO 8015B modified	1	03/06/2003 06:36	Linda C Pape	1
02159	BTEX, MTBE	SW-846 8021B	1	03/06/2003 06:36	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2003 06:36	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004807

Collected:03/01/2003 13:08 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-1-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-1

12029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	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.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
01595	Oxygenates by 8260B					
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
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/05/2003 23:30	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	03/05/2003 23:30	Martha L Seidel	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/07/2003 19:27	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/05/2003 23:30	Martha L Seidel	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2003 19:27	John B Kiser	n.a.

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004807

Collected:03/01/2003 13:08 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-1-W-030301 Grab Water

GRD

Facility# 92029 Job# 386911
890 W MACARTHUR-Oakland NA MW-1

12029

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004808

Collected:03/01/2003 13:34 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-2-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-2

22029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	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.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
01595	Oxygenates by 8260B					
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
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/06/2003 00:03	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	03/06/2003 00:03	Martha L Seidel	1
01595	Oxygenates by 8260B	SW-846 8260B	1	03/10/2003 11:38	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2003 00:03	Martha L Seidel	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2003 11:38	John B Kiser	n.a.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004808

Collected:03/01/2003 13:34 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-2-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-2

22029

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004809

Collected:03/01/2003 14:38 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-3-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-3

32029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	16,000.	250.	ug/l	5
	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.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	500.	2.5	ug/l	5
02164	Toluene	108-88-3	9.0	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	1,200.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	130.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	460.	13.	ug/l	5
01595	Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	330.	5.	ug/l	10
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	10.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	160.	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/06/2003 16:55	Melissa D Mann	5
02159	BTEX, MTBE	SW-846 8021B	1	03/06/2003 16:55	Melissa D Mann	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/10/2003 17:33	John B Kiser	10
01595	Oxygenates by 8260B	SW-846 8260B	1	03/11/2003 10:22	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2003 16:55	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/11/2003 10:22	John B Kiser	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004809

Collected:03/01/2003 14:38 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-3-W-030301 Grab Water

Facility# 92029 Job# 386911
890 W MACARTHUR-Oakland NA

GRD
MW-3

32029 01163	GC/MS VOA Water Prep	SW-846 5030B	2	03/10/2003 17:33	John B Kiser	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004810

Collected:03/01/2003 14:02 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-4-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-4

42029

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	12,000.	250.	ug/l	5
	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.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	300.	2.5	ug/l	5
02164	Toluene	108-88-3	4.6	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	900.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	110.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	160.	13.	ug/l	5
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.					
01595	Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	100.	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	8.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	19.	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/06/2003 02:13	Martha L Seidel	5
02159	BTEX, MTBE	SW-846 8021B	1	03/06/2003 02:13	Martha L Seidel	5
01595	Oxygenates by 8260B	SW-846 8260B	1	03/10/2003 18:04	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2003 02:13	Martha L Seidel	n.a.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4004810

Collected:03/01/2003 14:02 by FT

Account Number: 10904

Submitted: 03/04/2003 09:15
Reported: 03/12/2003 at 13:57
Discard: 04/12/2003
MW-4-W-030301 Grab Water

ChevronTexaco
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 92029 Job# 386911 GRD
890 W MACARTHUR-Oakland NA MW-4

42029

01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2003 18:04	John B Kiser	n.a.

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Lancaster Laboratories

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 843320
Reported: 03/12/03 at 01:57 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03064A55A	Sample number(s): 4004806-4004808,4004810							
TPH-GRO - Waters	N.D.	50.	ug/l	93	121	70-130	26	30
Benzene	N.D.	.5	ug/l	94	94	80-118	1	30
Toluene	N.D.	.5	ug/l	98	99	82-119	2	30
Ethylbenzene	N.D.	.5	ug/l	98	100	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	99	101	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	101	103	79-127	2	30
Batch number: 03064A55B	Sample number(s): 4004809							
TPH-GRO - Waters	N.D.	50.	ug/l	93	121	70-130	26	30
Benzene	N.D.	.5	ug/l	94	94	80-118	1	30
Toluene	N.D.	.5	ug/l	98	99	82-119	2	30
Ethylbenzene	N.D.	.5	ug/l	98	100	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	99	101	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	101	103	79-127	2	30
Batch number: P030661AA	Sample number(s): 4004807							
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	96		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	98		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	95		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	93		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	108		53-147		
1,2-Dichloroethane	N.D.	.5	ug/l	102		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	99		81-114		
Batch number: P030661AB	Sample number(s): 4004808							
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	96		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	98		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	95		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	93		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	108		53-147		
1,2-Dichloroethane	N.D.	.5	ug/l	102		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	99		81-114		
Batch number: P030691AA	Sample number(s): 4004809-4004810							
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	93		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	97		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	95		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	90		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	103		53-147		
1,2-Dichloroethane	N.D.	.5	ug/l	100		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	92		81-114		
Batch number: P030691AB	Sample number(s): 4004809							
di-Isopropyl ether	N.D.	.5	ug/l	97		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	95		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	90		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	103		53-147		
1,2-Dichloroethane	N.D.	.5	ug/l	100		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	92		81-114		

Sample Matrix Quality Control

*- 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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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: ChevronTexaco Group Number: 843320
Reported: 03/12/03 at 01:57 PM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 03064A55A	Sample number(s): 4004806-4004808,4004810								
TPH-GRO - Waters	99	97	70-130	1	30				
Benzene	(2)	(2)	67-136	0	20				
Toluene	105	99	78-129	6	30				
Ethylbenzene	(2)	(2)	75-133	1	30				
Total Xylenes	101	94	86-132	5	30				
Methyl tert-Butyl Ether	(2)	(2)	66-136	2	30				
Batch number: 03064A55B	Sample number(s): 4004809								
TPH-GRO - Waters	99	97	70-130	1	30				
Benzene	(2)	(2)	67-136	0	20				
Toluene	105	99	78-129	6	30				
Ethylbenzene	(2)	(2)	75-133	1	30				
Total Xylenes	101	94	86-132	5	30				
Methyl tert-Butyl Ether	(2)	(2)	66-136	2	30				
Batch number: P030661AA	Sample number(s): 4004807								
Methyl Tertiary Butyl Ether	97	98	69-134	0	30				
di-Isopropyl ether	101	103	75-130	2	30				
Ethyl t-butyl ether	98	98	73-123	1	30				
t-Amyl methyl ether	96	99	77-117	2	30				
t-Butyl alcohol	111	110	39-155	2	30				
1,2-Dichloroethane	113	112	73-136	1	30				
1,2-Dibromoethane	97	99	78-120	2	30				
Batch number: P030661AB	Sample number(s): 4004808								
Methyl Tertiary Butyl Ether	97	98	69-134	0	30				
di-Isopropyl ether	101	103	75-130	2	30				
Ethyl t-butyl ether	98	98	73-123	1	30				
t-Amyl methyl ether	96	99	77-117	2	30				
t-Butyl alcohol	111	110	39-155	2	30				
1,2-Dichloroethane	113	112	73-136	1	30				
1,2-Dibromoethane	97	99	78-120	2	30				
Batch number: P030691AA	Sample number(s): 4004809-4004810								
Methyl Tertiary Butyl Ether	94	96	69-134	2	30				
di-Isopropyl ether	100	102	75-130	2	30				
Ethyl t-butyl ether	96	99	73-123	3	30				
t-Amyl methyl ether	92	97	77-117	5	30				
t-Butyl alcohol	104	106	39-155	2	30				
1,2-Dichloroethane	106	108	73-136	2	30				
1,2-Dibromoethane	95	95	78-120	0	30				
Batch number: P030691AB	Sample number(s): 4004809								
di-Isopropyl ether	100	102	75-130	2	30				
Ethyl t-butyl ether	96	99	73-123	3	30				
t-Amyl methyl ether	92	97	77-117	5	30				
t-Butyl alcohol	104	106	39-155	2	30				
1,2-Dichloroethane	106	108	73-136	2	30				
1,2-Dibromoethane	95	95	78-120	0	30				

Surrogate Quality Control

*- 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

Client Name: ChevronTexaco
Group Number: 843320
Reported: 03/12/03 at 01:57 PM

Surrogate Quality Control

Analysis Name: BTEX, MTBE
Batch number: 03064A55A

	Trifluorotoluene-F	Trifluorotoluene-P
4004806	94	114
4004807	91	112
4004808	96	113
4004810	127	141*
Blank	100	114
LCS	107	110
LCSD	98	112
MS	131	131
MSD	128	131
Limits:	57-146	66-136

Analysis Name: BTEX, MTBE
Batch number: 03064A55B

	Trifluorotoluene-F	Trifluorotoluene-P
4004809	118	133
Blank	96	112
LCS	107	110
LCSD	98	112
MS	131	131
MSD	128	131
Limits:	57-146	66-136

Analysis Name: Oxygenates by 8260B
Batch number: P030661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4004807	94	94	94	94
Blank	93	92	95	94
LCS	92	93	96	97
MS	94	95	95	97
MSD	94	91	96	96
Limits:	81-120	82-112	85-112	83-113

Analysis Name: Oxygenates by 8260B
Batch number: P030661AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4004808	93	94	95	94
Blank	94	90	95	95
LCS	92	93	96	97
MS	94	95	95	97
MSD	94	91	96	96
Limits:	81-120	82-112	85-112	83-113

Analysis Name: Oxygenates by 8260B
Batch number: P030691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4004810	91	88	95	104
Blank	92	91	97	95

*- 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

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 843320
Reported: 03/12/03 at 01:57 PM

Surrogate Quality Control

LCS	93	93	96	97
MS	92	92	96	97
MSD	93	94	95	97
Limits:	81-120	82-112	85-112	83-113

Analysis Name: Oxygenates by 8260B
Batch number: P030691AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4004809	89	86	94	100
Blank	93	94	96	95
LCS	93	93	96	97
MS	92	92	96	97
MSD	93	94	95	97
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.

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