GETTLER-RYAN INC.

TRANSMITTAL

Alameda County

OCT 18 2002

Environmental Health

September 30, 2002
G-R #386420

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

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: Former Chevron Service Station
#9-0517
3900 Piedmont Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 17, 2002	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of August 5, 2002

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 ***October 15, 2002,*** at which time the final report will be distributed to the following:

cc: Mr. Larry Seto, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Neil B. Goodhue and Mrs. Diane C. Goodhue, 300 Hillside Avenue, Piedmont, CA 94611

Enclosures

trans/9-0517-ks

GETTLER-RYAN INC.

September 17, 2002
G-R Job #386420

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

RE: Second Semi-Annual Event of August 5, 2002
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-0517
3900 Piedmont 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.

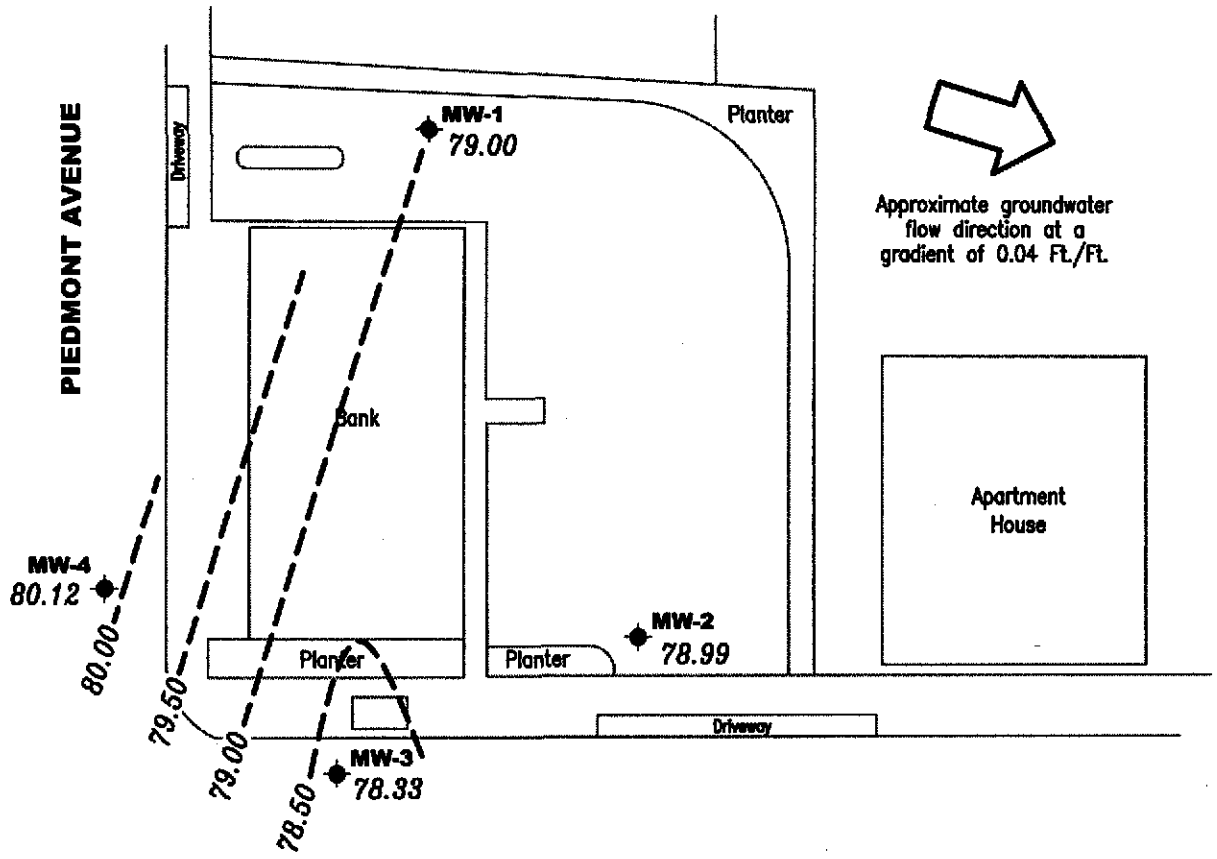
Sincerely,

Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Douglas J. Lee
Senior Geologist, R.G. No. 6882

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



EXPLANATION

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

N

0 30

Scale in Feet

Source: Figure modified from drawing provided by RRM engineering contracting firm.

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

POTENTIOMETRIC MAP
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386420		August 5, 2002	

FILE NAME: P:\ENVIRO\CHEVRON\9-0517\Q02-9-0517.DWG | Layout Tab: Pot3

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
08/03/98	87.89	75.46	12.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	78.84	9.05	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	87.89	81.39	6.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	87.89	80.76	7.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	87.89	78.74	9.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	87.89	78.35	9.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	87.89	81.99	5.90	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00[3]	87.89	80.84	7.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	87.89	79.49	8.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	87.89	79.24	8.65	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	87.89	82.06	5.83	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	87.89	80.18	7.71	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	87.89	DRY	--	--	--	--	--	--	--
02/25/02	87.89	81.18	6.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	**87.89**	**79.00**	**8.89**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**
MW-2									
08/03/98	86.09	74.75	11.34	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	79.19	6.90	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	86.09	80.86	5.23	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.09	79.97	6.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	86.09	79.68	6.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	86.09	78.80	7.29	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	86.09	81.60	4.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	86.09	80.19	5.90	4,000[3]	240	26	100	76	<100
07/31/00	86.09	79.51	6.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	86.09	79.86	6.23	<50.0	<0.500	2.92	<0.500	1.88	4.89
02/27/01	86.09	81.49	4.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	86.09	79.79	6.30	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2 (cont)									
08/23/01	86.09	78.81	7.28	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/25/02	86.09	80.48	5.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	**86.09**	**78.99**	**7.10**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**
MW-3									
08/03/98	86.28	74.20	12.08	4000	160	<5.0	<5.0	73	180
11/23/98	86.28	78.59	7.69	4000	67.7	7.56	17.1	24.5	41.2
02/08/99	86.28	80.01	6.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.28	79.32	6.96	1800	53.6	8.96	33	18.6	21.4
08/23/99	86.28	78.36	7.92	3970	155	24	88.8	39.8	185
11/03/99	86.28	78.36	7.92	3320	108	19.9	98.4	44.8	<25
02/15/00	86.28	80.54	5.74	779	26.7	3.82	15.4	4.24	<12.5
05/12/00	86.28	79.52	6.76	12,000[3]	3,100	120	980	1,400	820
07/31/00	86.28	78.98	7.30	1,200[3]	32	<5.0	11	7.3	39
10/30/00	86.28	79.26	7.02	3,300[4]	119	<5.00	40.0	<15.0	<25.0
02/27/01	86.28	80.39	5.89	432[3]	15.5	1.53	14.9	1.06	15.7
05/15/01	86.28	79.21	7.07	3,220[3]	96.4	12.6	11.5	11.6	128
08/23/01	86.28	78.23	8.05	2,300	48	<10	<10	<10	100
02/25/02	86.28	79.55	6.73	3,100	27	2.1	4.8	6.6	<2.5
08/05/02	**86.28**	**78.33**	**7.95**	**4,100**	**87**	**21**	**90**	**47**	**21**
MW-4									
08/03/98	87.22	74.30	12.92	1900	110	12	<0.5	55	130
11/23/98	87.22	77.82	9.40	4080	136	17.8	37.2	30.1	51.8
02/08/99[1]	87.22	79.40	7.82	2900	150	16	<5.0	15	230/30.7[2]
05/07/99	87.22	79.80	7.42	6050	161	<25	39.8	36.9	<250/30.2[2]
08/23/99	87.22	77.83	9.39	3930	203	37.6	58.6	42.2	255
11/03/99	87.22	77.41	9.81	5350	324	44.7	91.5	56.1	<50
02/15/00	87.22	79.50	7.72	4080	161	27.7	31.1	39.1	73.9
05/12/00	87.22	79.31	7.91	3,600[3]	170	27	49	64	170

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4 (cont)									
07/31/00	87.22	78.57	8.65	2,900[3]	160	20	15	56	170
10/30/00	87.22	78.14	9.08	5,630[4]	301	17.8	11.8	51.5	<25.0
02/27/01	87.22	79.92	7.30	2,140[3]	95.1	12.8	53.4	43.0	235
05/15/01	87.22	79.07	8.15	4,580[3]	200	44.1	46.3	51.7	172
08/23/01	87.22	77.89	9.33	2,700	250	44	21	72	130
02/25/02	87.22	79.42	7.80	4,100	100	18	27	39	<10
08/05/02	**87.22**	**80.12**	**7.10**	**4,100**	**130**	**18**	**50**	**20**	**<10**
TRIP BLANK									
08/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
02/25/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

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

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

[1] Chromatogram pattern indicates gas and an unidentified hydrocarbon.

[2] Confirmation run.

[3] Laboratory report indicates gasoline C6-C12.

[4] Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride 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 Chevron-designated 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 #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 08/05/02
City: Oakland, CA Sampler: DM.

Well ID MW- 1 Well Condition: Ok.
Well Diameter 2 in. Hydrocarbon Thickness: ~~0~~ ft. Amount Bailed (product/water): ~~0~~ gal.
Total Depth 16.01 ft.
Depth to Water 8.89 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

7.12 xVF .17 = 1.21 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

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

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

Start Time (purge): 1432 Weather Conditions: Sunny
Sample Time/Date: 1453 / 08/05/02 Water Color: Clear Odor: Slight
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? No If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1439	1	7.59	328	22.6		
1440	2	7.53	332	22.5		
1442	3.5	7.48	324	22.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 1	3 x voa vial	YES	HCL	LANCASTER	TPH-G (8015)/ BTEX/MTBE (8021)

COMMENTS: Took Total Depth.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 04/05/02
City: Oakland, CA Sampler: DM

Well ID MW-2 Well Condition: OK.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 16.61 ft.
Depth to Water 7.10 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

9.51 xVF .17 = 1.61 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:

Start Time (purge): 1508 Weather Conditions: Sunny
Sample Time/Date: 1522 / 04/05/02 Water Color: clear Odor: NO
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? NO If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1511	2	7.60	372	24.2		
1513	4	7.56	351	23.8		
1515	5	7.50	360	23.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x voa vial	YES	HCL	LANCASTER	TPH-G (8015)/ BTEX/MTBE (8021)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 10/05/02
City: Oakland, CA Sampler: DM.

Well ID MW-3 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: ~~0~~ ft. Amount Bailed (product/water): ~~0~~ gal.
Total Depth 17.59 ft.
Depth to Water 7.95 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

9.64 xVF .17 = 1.63 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:

Start Time (purge): 1602 Weather Conditions: Sunny
Sample Time/Date: 1624 10/05/02 Water Color: Clear Odor: Yes
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? No If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1605	2	7.27	464	22.4		
1607	4	7.24	474	22.1		
1609	5	7.21	481	21.9		

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 04/05/02
City: Oakland, CA Sampler: DM.

Well ID MW- 4 Well Condition: Ok.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 16.61 ft.
Depth to Water 7.10 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

9.51 xVF .17 = 1.61 x3 (case volume) = Estimated Purge Volume: ~~15~~ 5 gal.

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

Sampling Equipment:
- Disposable Bailer V
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): 1533 Weather Conditions: Sunny
Sample Time/Date: 1550 / 04/05/02 Water Color: Cloudy Odor: yes
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? no If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1535	2	7.33	525	22.1		
1557	4	7.26	520	21.8		
1540	6	7.21	516	21.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 4	3 x voa vial	YES	HCL	LANCASTER	TPH-G (8015)/ BTEX/MTBE (8021)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

080702-008

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 3875082-91 SCR#:
gr# 818180

Facility #: 9-0517 Job# 386420 Global ID# T0600102248
Site Address: 3900 PIEDMONT AVENUE, OAKLAND, CA
Chevron PM: Karen Streich Lead Consultant: Delta/G-R
Consultant/Office: G-R Inc 6747 Sierra Ct #J Dublin CA 94568
Consultant Prj. Mgr.: Deanna L Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: David Moreno
Service Order #: ☐ Non SAR:

Matrix: Soil; Water (☐ Potable ☐ NPDES); Oil ☐ Air ☐

Analyses Requested — Preservation Codes: H, H

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil/Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☒	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐						
QA	08/05/02	—				X		2	X	X										
mw-1	08/05/02	1455	X			X		3	X	X										
mw-2	08/05/02	1522	X			X		3	X	X										
mw-3	08/05/02	1624	X			X		3	X	X										
mw-4	08/05/02	1550	X			X		3	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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	08/05/02	1400	[signature]	8/8/02	1500
[signature]	8/8/02	1500	[signature]	8/7/02	1500
Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			[signature]	8/8/02	0925
Temperature Upon Receipt 6.6 C°			Custody Seals Intact? (Yes) No		

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.

3460 Rev. 7/30/01

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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 818180. Samples arrived at the laboratory on Thursday, August 08, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-020805	NA	Water	3875087
MW-1-W-020805	Grab	Water	3875088
MW-2-W-020805	Grab	Water	3875089
MW-3-W-020805	Grab	Water	3875090
MW-4-W-020805	Grab	Water	3875091

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

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

Respectfully Submitted,

Victoria M. Martell
Chemist

MEMBER ACIL
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Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3875087

Collected:08/05/2002 00:00

Account Number: 10905

Submitted: 08/08/2002 09:25
Reported: 08/20/2002 at 18:19
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QA-T-020805 NA Water
Facility# 90517 Job# 386420 GRD
3900 Piedmont Ave-Oakland T0600102248 QA

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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	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
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/08/2002 22:59	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/08/2002 22:59	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/08/2002 22:59	Patrick N Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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PO Box 12425
Lancaster, PA 17605-2425
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Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3875088

Collected:08/05/2002 14:53 by DM

Account Number: 10905

Submitted: 08/08/2002 09:25
Reported: 08/20/2002 at 18:19
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-1-W-020805 Grab Water
Facility# 90517 Job# 386420 GRD
3900 Piedmont Ave-Oakland T0600102248 MW-1

M1420

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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	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.					

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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	08/09/2002 12:46	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/09/2002 12:46	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/09/2002 12:46	Patrick N Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

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Lancaster Laboratories Sample No. WW 3875089

Collected:08/05/2002 15:22 by DM

Account Number: 10905

Submitted: 08/08/2002 09:25
Reported: 08/20/2002 at 18:19
Discard: 09/20/2002
MW-2-W-020805 Grab Water
Facility# 90517 Job# 386420 GRD
3900 Piedmont Ave-Oakland T0600102248 MW-2

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M2420

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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	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.					

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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	08/09/2002 13:20	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/09/2002 13:20	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/09/2002 13:20	Patrick N Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3875090

Collected:08/05/2002 16:24 by DM

Account Number: 10905

Submitted: 08/08/2002 09:25
Reported: 08/20/2002 at 18:19
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-3-W-020805 Grab Water
Facility# 90517 Job# 386420 GRD
3900 Piedmont Ave-Oakland T0600102248 MW-3

M3420

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.	4,100.	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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	87.	1.0	ug/l	5
00777	Toluene	108-88-3	21.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	90.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	47.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	21.	2.5	ug/l	5
	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.					

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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	08/09/2002 13:55	Patrick N Evans	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/09/2002 13:55	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	08/09/2002 13:55	Patrick N Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3875091

Collected:08/05/2002 15:50 by DM

Account Number: 10905

Submitted: 08/08/2002 09:25
Reported: 08/20/2002 at 18:19
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-4-W-020805 Grab Water
Facility# 90517 Job# 386420 GRD
3900 Piedmont Ave-Oakland T0600102248 MW-4

M4420

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.	4,100.	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. 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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	130.	1.0	ug/l	5
00777	Toluene	108-88-3	18.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	50.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	20.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	10.	ug/l	5
	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.					
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					

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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	08/09/2002 14:29	Patrick N Evans	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/09/2002 14:29	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	08/09/2002 14:29	Patrick N Evans	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Quality Control Summary

Client Name: ChevronTexaco
Group Number: 818180
Reported: 08/20/02 at 06:20 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: 02220A53A	Sample number(s): 3875087							
Benzene	N.D.	.2	ug/l	102	99	80-118	3	30
Toluene	N.D.	.2	ug/l	105	102	82-119	4	30
Ethylbenzene	N.D.	.2	ug/l	105	102	81-119	2	30
Total Xylenes	N.D.	.6	ug/l	106	104	82-120	2	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	104	101	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	109	107	74-116	2	30
Batch number: 02220A53B	Sample number(s): 3875088-3875091							
Benzene	N.D.	.2	ug/l	102	99	80-118	3	30
Toluene	N.D.	.2	ug/l	105	102	82-119	4	30
Ethylbenzene	N.D.	.2	ug/l	105	102	81-119	2	30
Total Xylenes	N.D.	.6	ug/l	106	104	82-120	2	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	104	101	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	109	107	74-116	2	30

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: 02220A53A	Sample number(s): 3875087								
Benzene	91		83-130						
Toluene	94		87-129						
Ethylbenzene	101		86-133						
Total Xylenes	102		86-132						
Methyl tert-Butyl Ether	96		66-140						
TPH-GRO - Waters	117		74-132						
Batch number: 02220A53B	Sample number(s): 3875088-3875091								
Benzene	91		83-130						
Toluene	94		87-129						
Ethylbenzene	101		86-133						
Total Xylenes	102		86-132						
Methyl tert-Butyl Ether	96		66-140						
TPH-GRO - Waters	117		74-132						

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02220A53A

	Trifluorotoluene-F	Trifluorotoluene-P
3875087	89	89
Blank	84	91
LCS	94	91
LCSD	91	92
MS	94	92
Limits:	57-146	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02220A53B

*- 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: 818180
Reported: 08/20/02 at 06:20 PM

Surrogate Quality Control

	Trifluorotoluene-F	Trifluorotoluene-P
3875088	86	91
3875089	83	92
3875090	78	83
3875091	79	82
Blank	83	90
LCS	94	91
LCSD	91	92
MS	94	92
Limits:	57-146	71-130

*- 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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