GETTLER-RYAN INC.

Barney

TRANSMITTAL

Alameda County
OCT 24 2002
Environmental Health

October 7, 2002
G-R #386456

R0221

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: Chevron Service Station
#9-0338
5500 Telegraph Avenue 94609
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 20, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 9, 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 21, 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

Enclosures

trans/9-0338-ks

GETTLER-RYAN INC.

September 20, 2002
G-R Job #386456

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

RE: Third Quarter Event of August 9, 2002
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0338
5500 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,

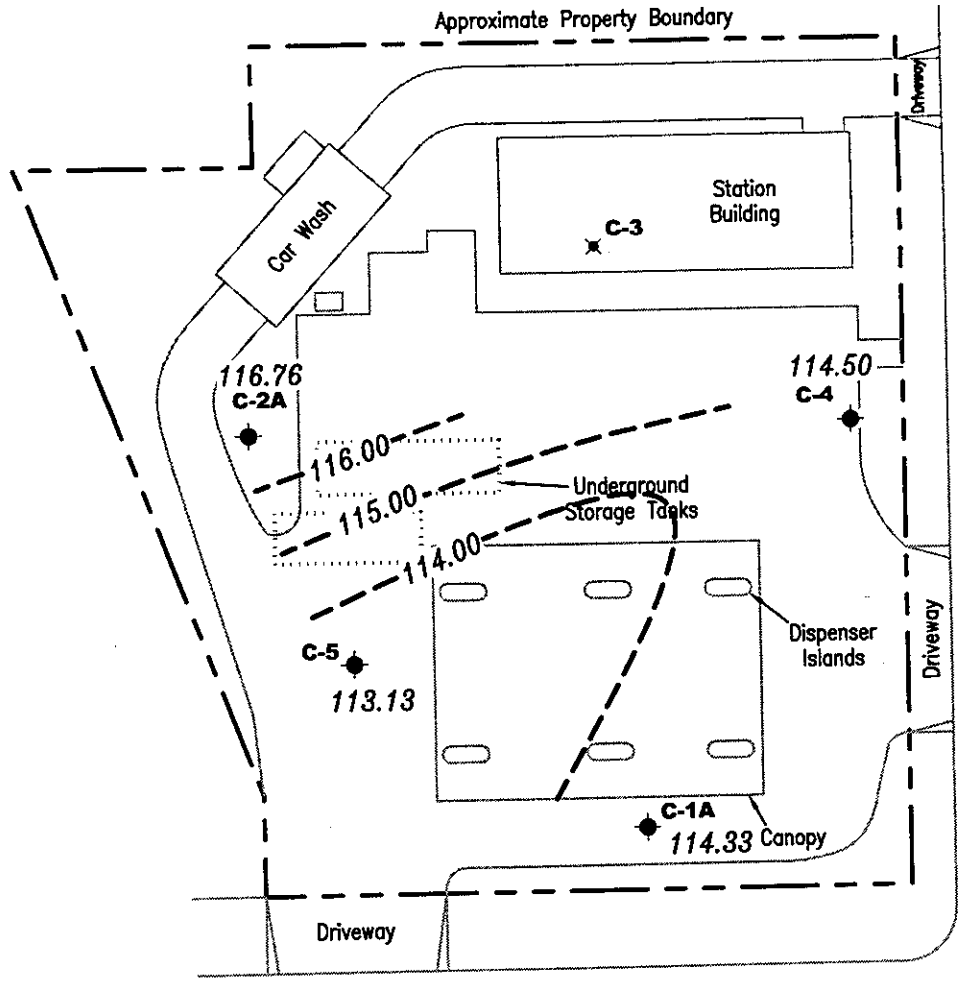
Deanna L. Harding

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
Table 3: Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

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

Groundwater flow direction varies at a gradient of 0.02 to 0.07 Ft./Ft.

N

0 40

Scale in Feet

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

FIGURE 1

POTENTIOMETRIC MAP
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

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

PROJECT NUMBER 386456

REVIEWED BY

DATE August 9, 2002

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-0338\Q02-9-0338.DWG | Layout Tab: Pot3

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338
5500 Telegraph 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)
C-1A									
05/27/99	123.27	115.93	7.34	9,100	40	25	560	1,900	35
09/02/99	123.27	115.72	7.55	9,700	24	18.4	626	754	66
10/27/99	123.27	115.84	7.43	4,740	<10	<10	276	270	<100/66.6[2]
02/11/00	123.27	115.27	8.00	5,100	17.5	<10	182	333	<50
05/10/00	123.27	116.65	6.62	11,000[1]	110	170	480	980	<500
07/27/00	123.27	115.14	8.13	6,200[1]	<50	<50	540	150	<250
11/21/00	123.27	115.60	7.67	6,500[1]	19	<10	450	360	<50
02/05/01	123.27	115.91	7.36	5,270	1.43	1.04	326	269	15.0
05/07/01	123.27	115.90	7.37	3,000[1]	37	27	520	490	63
08/06/01	123.27	115.15	8.12	3,300[1]	3.1	3.8	160	100	47
11/12/01	123.27	116.42	6.85	5,100	1.9	<2.0	230	230	3.1
02/11/02	123.27	114.99	8.28	820	1.3	<0.50	21	7.7	5.7/4[3]
05/13/02	123.27	114.30	8.97	1,800	<1.0	<0.50	26	8.6	7.5
08/09/02	**123.27**	**114.33**	**8.94**	**2,100**	**1.7**	**<5.0**	**29**	**<20**	**<2.5**
C-2A									
05/27/99	125.89	119.53	6.36	<50	<0.5	<0.5	<0.5	<0.5	44
09/02/99	125.89	117.04	8.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/27/99	125.89	116.65	9.24	<50	<0.5	<0.5	<0.5	<0.5	8.75/7.77[2]
02/11/00	125.89	117.64	8.25	<50	<0.5	<0.5	<0.5	<0.5	17.8
05/10/00	125.89	117.46	8.43	<50	<0.50	<0.50	<0.50	<0.50	3.2
07/27/00	125.89	116.34	9.55	<50	<0.50	<0.50	<0.50	<0.50	20
11/21/00	125.89	116.39	9.50	<50	<0.50	<0.50	<0.50	<0.50	<50
02/05/01	125.89	116.50	9.39	<50.0	<0.500	<0.500	<0.500	<0.500	3.36
05/07/01	125.89	116.29	9.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	125.89	115.72	10.17	<50	<0.50	0.59	<0.50	1.4	12
11/12/01	125.89	115.28	10.61	<50	<0.50	<0.50	<0.50	<1.5	3.4
02/11/02	125.89	117.31	8.58	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[3]
05/13/02	125.89	115.76	10.13	1,100	17	83	21	99	29
08/09/02	**125.89**	**116.76**	**9.13**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338

5500 Telegraph 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)
C-4									
05/27/99	125.40	115.34	10.06	<50	<0.5	<0.5	<0.5	<0.5	44
09/02/99	125.40	114.89	10.51	<50	<0.5	<0.5	<0.5	<0.5	3.1
10/27/99	125.40	115.03	10.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0[2]
02/11/00	125.40	114.48	10.92	<50	<0.5	<0.5	<0.5	<0.5	2.79
05/10/00	125.40	116.28	9.12	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00	125.40	113.50	11.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/00	125.40	113.76	11.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/05/01	125.40	115.21	10.19	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/07/01	125.40	114.45	10.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	125.40	113.75	11.65	<50	<0.50	0.52	<0.50	1.1	3.2
11/12/01	125.40	113.69	11.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/02[4]	125.40	114.45	10.95	<50	<0.50	<0.50	<0.50	<1.5	72/62[3]
05/13/02	125.40	113.64	11.76	<50	<0.50	<0.50	<0.50	<1.5	21
08/09/02	**125.40**	**114.50**	**10.90**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**4.9**
C-5									
05/27/99	124.15	117.54	6.61	2,800	350	73	32	280	2,200/2,500[2]
09/02/99	124.15	116.27	7.88	570	9.0	<2.5	<2.5	<2.5	890
10/27/99	124.15	116.90	7.25	543	4.22	<0.5	3.28	<0.5	845/1,080[2]
02/11/00	124.15	117.41	6.74	488	0.56	<0.5	1.45	<0.5	565
05/10/00	124.15	118.36	5.79	140[1]	3.6	1.2	0.53	2.0	380
07/27/00	124.15	116.92	7.23	260[1]	1.4	1.2	0.93	2.8	460
11/21/00	124.15	117.47	6.68	130[1]	0.74	0.73	<0.50	<0.50	350
02/05/01	124.15	117.74	6.41	111	<1.00	<1.00	<1.00	<1.00	197
05/07/01	124.15	117.91	6.24	100[1]	2.1	1.0	<0.50	0.80	210
08/06/01	124.15	116.74	7.41	94[1]	0.84	1.2	0.54	1.5	360
11/12/01	124.15	116.82	7.33	58	<0.50	<0.50	<0.50	<1.5	280
02/11/02	124.15	117.90	6.25	<50	<0.50	<0.50	<0.50	<1.5	150/140[3]
05/13/02	124.15	116.13	8.02	79	7.7	1.2	2.6	5.5	180
08/09/02	**124.15**	**113.13**	**11.02**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**220**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338
5500 Telegraph 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)
TRIP BLANK									
05/27/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/27/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
02/11/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/10/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/05/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/07/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
11/12/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/02	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 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 Laboratory report indicates gasoline C6-C12.
2 Confirmation run.
3 MTBE by EPA Method 8260.
4 Total Petroleum Hydrocarbons as Diesel (TPH-D) was less than the reporting limit.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

WELL ID	DATE	TBA *(ppb)*	MTBE *(ppb)*	DIPE *(ppb)*	ETBE *(ppb)*	TAME *(ppb)*
C-1A	02/11/02	<100	4	<2	<2	<2
C-2A	02/11/02	<100	<2	<2	<2	<2
C-4	02/11/02	<100	62	<2	<2	<2
C-5	02/11/02	<100	140	<2	<2	<2

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Groundwater Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

WELL ID	DATE	Cadmium *(ppb)*	Chromium *(ppb)*	Lead *(ppb)*	Nickel *(ppb)*	Zinc *(ppb)*	TOG *(ppb)*	HVOCs *(ppb)*
C-4	02/11/02	<10.0	80.5	16.7	126	143	<320	<0.20-<0.50

EXPLANATIONS:

TOG = Total Oil and Grease
HVOCs = Halogenated Volatile Oraganic Compounds
(ppb) = Parts per billion

Note: All HVOCs were not detected (ND) unless otherwise noted.

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 #9-0338 Job Number: 386456
Site Address: 5500 Telegraph Avenue Event Date: 08/09/02
City: Oakland, CA Sampler: DM.

Well ID C-14 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: ~~0~~ ft. Amount Bailed (product/water): ~~0~~ gal.
Total Depth 19.45 ft.
Depth to Water 8.97 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

10.48 xVF .17 = 1.78 x3 (case volume) = Estimated Purge Volume: 5.5 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): 1725 Weather Conditions: Sunny
Sample Time/Date: 1740 08/09/02 Water Color: clear Odor: yes
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? N/A If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1727	2	7.91	423	22.1		
1730	4	7.74	428	21.8		
1732	5.5	7.70	431	21.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-14	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 #9-0338 Job Number: 386456
Site Address: 5500 Telegraph Avenue Event Date: 08/09/02
City: Oakland, CA Sampler: DM.

Well ID C-2A Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 20.25 ft.
Depth to Water 9.13 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

11.12 xVF .17 = 1.89 x3 (case volume) = Estimated Purge Volume: 5.5 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): 1650 Weather Conditions: Sunny
Sample Time/Date: 1709 08/09/02 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)
1653	2	7.20	904	22.5		
1656	4	7.14	900	22.4		
1658	5.5	7.08	899	22.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2A	5 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 #9-0338 Job Number: 386456
Site Address: 5500 Telegraph Avenue Event Date: 08/09/02
City: Oakland, CA Sampler: DM.

Well ID C- 4 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: ~~0~~ ft. Amount Bailed (product/water): ~~0~~ gal.
Total Depth 19.49 ft.
Depth to Water 10.90 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

8.59 xVF .17 = 1.46 x3 (case volume) = Estimated Purge Volume: 4.5 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): 1551 Weather Conditions: Sunny
Sample Time/Date: 1607 08/09/02 Water Color: ~~Clear~~ Cloudy/Brown Odor: no
Purging Flow Rate: — gpm. Sediment Description: Silty
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)
1553	1.5	8.08	653	21.5		
1556	3	7.80	621	20.9		
1559	4.5	7.74	631	20.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C- 4	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 #9-0338 Job Number: 386456
Site Address: 5500 Telegraph Avenue Event Date: 08/09/02
City: Oakland, CA Sampler: DM.

Well ID C-5 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 20.24 ft.
Depth to Water 11.02 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

9.22 xVF .17 = 1.56 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): 1619 Weather Conditions: Sunny
Sample Time/Date: 1635 / 08/09/02 Water Color: Rust Color Odor: No
Purging Flow Rate: — gpm. Sediment Description: Silt
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)
1622	2	7.98	615	20.3		
1625	4	7.69	629	19.5		
1628	5	7.58	627	19.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-5	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

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Acct. #: 10905 — For Lancaster Laboratories use only — Sample #: 392855 4-8 — SCR#:

081202-007

Facility #: 9-0338 Job #386456 Globel ID#T0600100347

Site Address: 5500 TELEGRAPH AVE., OAKLAND, CA

Chevron PM: Karen Streich Lead Consultant: Delta/G-R

Consultant/Office: G-R, Inc., 6747 Sierra Court, 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: ____

Analyses Requested

Preservation Codes

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

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	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐
QA	08/04/02					X		2	X	X						
C-1	08/04/02	1740	X			X		3	X	X						
C-2	08/04/02	1709	X			X		3	X	X						
C-4	08/04/02	1607	X			X		3	X	X						
C-5	08/04/02	1635	X			X		3	X	X						

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:	08/04/02	1800	Received by:	8/17/02	1330
Relinquished by:	8/19/02	1330	Received by:	8-20-02	1330
Relinquished by:	8-13-02	1530	Received by:	8-BR	
Relinquished by Commercial Carrier: UPS FedEx (Other) Hibbard			Received by:	8/14/02	0920
Temperature Upon Receipt 3.5 C°			Custody Seals Intact? (Yes) No		

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 818820. Samples arrived at the laboratory on Wednesday, August 14, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-020809	NA	Water	3878554
C-1A-W-020809	Grab	Water	3878555
C-2A-W-020809	Grab	Water	3878556
C-4-W-020809	Grab	Water	3878557
C-5-W-020809	Grab	Water	3878558

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,

Steve Stabinger
Group Leader

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681

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Lancaster Laboratories Sample No. WW 3878554

Collected:08/09/2002 00:00

Account Number: 10905

Submitted: 08/14/2002 09:20
Reported: 08/20/2002 at 19:09
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QA-T-020809 NA Water
Facility# 90338 Job# 386456 GRD
5500 TELEGRAPH AVE T0600100347 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	08/15/2002 09:55	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/15/2002 09:55	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/15/2002 09:55	Anastasia Papadoplos	n.a.

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

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Lancaster Laboratories Sample No. WW 3878555

Collected:08/09/2002 17:40 by DM

Account Number: 10905

Submitted: 08/14/2002 09:20
Reported: 08/20/2002 at 19:09
Discard: 09/20/2002
C-1A-W-020809 Grab Water
Facility# 90338 Job# 386456 GRD
5500 TELEGRAPH AVE T0600100347 C-1A

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	2,100.	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	1.7	1.0	ug/l	5
00777	Toluene	108-88-3	N.D. #	5.0	ug/l	5
00778	Ethylbenzene	100-41-4	29.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	N.D. #	20.	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	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.					

Due to the nature of the sample matrix, normal reporting limits were not attained.

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	08/15/2002 16:54	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/16/2002 02:43	Anastasia Papadoplos	5
01146	GC VOA Water Prep	SW-846 5030B	1	08/15/2002 16:54	Melissa D Mann	n.a.

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

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Lancaster Laboratories Sample No. WW 3878556

Collected:08/09/2002 17:09 by DM

Account Number: 10905

Submitted: 08/14/2002 09:20
Reported: 08/20/2002 at 19:10
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

C-2A-W-020809 Grab Water
Facility# 90338 Job# 386456 GRD
5500 TELEGRAPH AVE T0600100347 C-2A

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	08/15/2002 17:28	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/15/2002 17:28	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/15/2002 17:28	Melissa D Mann	n.a.

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

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Lancaster Laboratories Sample No. WW 3878557

Collected:08/09/2002 16:07 by DM

Account Number: 10905

Submitted: 08/14/2002 09:20
Reported: 08/20/2002 at 19:10
Discard: 09/20/2002
C-4-W-020809 Grab Water
Facility# 90338 Job# 386456 GRD
5500 TELEGRAPH AVE T0600100347 C-4

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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	4.9	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	08/15/2002 18:03	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/15/2002 18:03	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/15/2002 18:03	Melissa D Mann	n.a.

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

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Lancaster Laboratories Sample No. WW 3878558

Collected:08/09/2002 16:55 by DM

Account Number: 10905

Submitted: 08/14/2002 09:20
Reported: 08/20/2002 at 19:10
Discard: 09/20/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

C-5-W-020809 Grab Water
Facility# 90338 Job# 386456 GRD
5500 TELEGRAPH AVE T0600100347 C-5

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	220.	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	Dilutic Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/15/2002 18:37	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	08/15/2002 18:37	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/15/2002 18:37	Melissa D Mann	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
Reported: 08/20/02 at 07:10 PM

Group Number: 818820

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02227A53A	Sample number(s): 3878554-3878558							
Benzene	N.D.	.2	ug/l	97	96	80-118	1	30
Toluene	N.D.	.2	ug/l	99	98	82-119	1	30
Ethylbenzene	N.D.	.2	ug/l	99	98	81-119	1	30
Total Xylenes	N.D.	.6	ug/l	101	99	82-120	1	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	94	93	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	103	101	74-116	2	30
Batch number: 02227A53B	Sample number(s): 3878555							
Benzene	N.D.	.2	ug/l	97	96	80-118	1	30
Toluene	N.D.	.2	ug/l	99	98	82-119	1	30
Ethylbenzene	N.D.	.2	ug/l	99	98	81-119	1	30
Total Xylenes	N.D.	.6	ug/l	101	99	82-120	1	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	94	93	79-127	1	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: 02227A53A	Sample number(s): 3878554-3878558								
Benzene	104		83-130						
Toluene	105		87-129						
Ethylbenzene	109		86-133						
Total Xylenes	110		86-132						
Methyl tert-Butyl Ether	94		66-140						
TPH-GRO - Waters	104		74-132						
Batch number: 02227A53B	Sample number(s): 3878555								
Benzene	104		83-130						
Toluene	105		87-129						
Ethylbenzene	109		86-133						
Total Xylenes	110		86-132						
Methyl tert-Butyl Ether	94		66-140						

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02227A53A

	Trifluorotoluene-F	Trifluorotoluene-P
3878554	80	87
3878555	90	
3878556	82	87
3878557	81	87
3878558	80	87
Blank	82	90
LCS	86	90
LCSD	86	89
MS	87	89
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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Quality Control Summary

Client Name: ChevronTexaco
Reported: 08/20/02 at 07:10 PM

Group Number: 818820

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02227A53B

	Trifluorotoluene-F	Trifluorotoluene-P
3878555		84
Blank	79	86
LCS	86	90
LCSD	86	89
MS	87	89
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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