



GETTLER-RYAN INC.

TRANSMITTAL

JUN 1 9 2002

June 3, 2002
G-R #386521

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
#209339
5940 College Avenue
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 21, 2002	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 8, 2002

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **June 14, 2002**, at which time the final report will be distributed to the following:

- cc: ~~Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 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
Mr. Donald Sweet, San Francisco Property Management Co., 1375 Sutter St., Suite 308, San Francisco, CA 94109

Enclosures

trans/20-9339-KS

Ro-466



GETTLER - RYAN INC.

May 14, 2002

Ms. Eva Chu
Alameda County Health Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

MAY 17 2002

Subject: Monitoring and Sampling Program At Former Chevron Service Station Number 20-9339, 5940 College Avenue, Oakland California.

Dear Ms. Chu:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants Inc. Network Associates Gettler - Ryan Inc. (GR) would like to request modification to the current monitoring and sampling program at the subject site. Currently, wells at the site are monitored and sampled on a quarterly basis. Groundwater samples are analyzed for total petroleum hydrocarbons as gasoline (TPHg) by Environmental Protection Agency (EPA) Method 8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MtBE) by EPA Method 8021. In addition, all samples containing MtBE detected by EPA Method 8021 are analyzed for tert-butyl alcohol (TBA), MtBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE) and tert-amyl methyl ether (TAME) by EPA Method 8260. Each quarter, joint monitoring is scheduled with Sheaff's Garage located at 5930 Collage Avenue in Oakland California.

Based on information supplied by Chevron, the station was closed in the late 1960s prior to the introduction of MtBE into gasoline in California. Therefore, the site should not be suspected as a source of MtBE impact to groundwater in the vicinity. MtBE has been detected in groundwater samples collected at the site in concentrations ranging from 5.3 parts per billion (ppb) to 150 ppb by EPA Method 8021. However, when MtBE was confirmed by EPA Method 8260, the results were non-detectable. TPHg and BTEX concentrations have decreased in samples collected during consecutive monitoring and sampling events from January 2001 to January 2002. Furthermore, BTEX was not detected in groundwater samples collected from MW-1 on October 8, 2001 or January 13, 2002, and TPHg was not detected in groundwater samples collected from MW-1 on January 13, 2002 (Gettler - Ryan Inc. Groundwater Monitoring and Sampling Report, First Quarter Event of January 13, 2002).

Based on data from the quarterly monitoring and sampling events at the site, GR would like to propose that the monitoring and sampling program at the site be reduced from quarterly to semi-annually.



GETTLER - RYAN INC.

May 21, 2002
G-R Job #386521

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

RE: Second Quarter Event of April 8, 2002
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209339
5940 College 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). A joint monitoring event was conducted with Sheaff's Garage, located at 5930 College Avenue, Oakland, California.

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 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



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

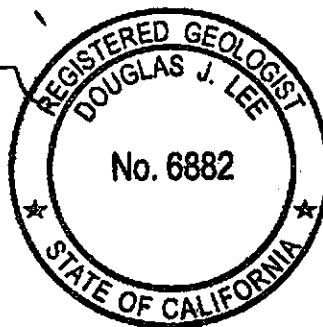
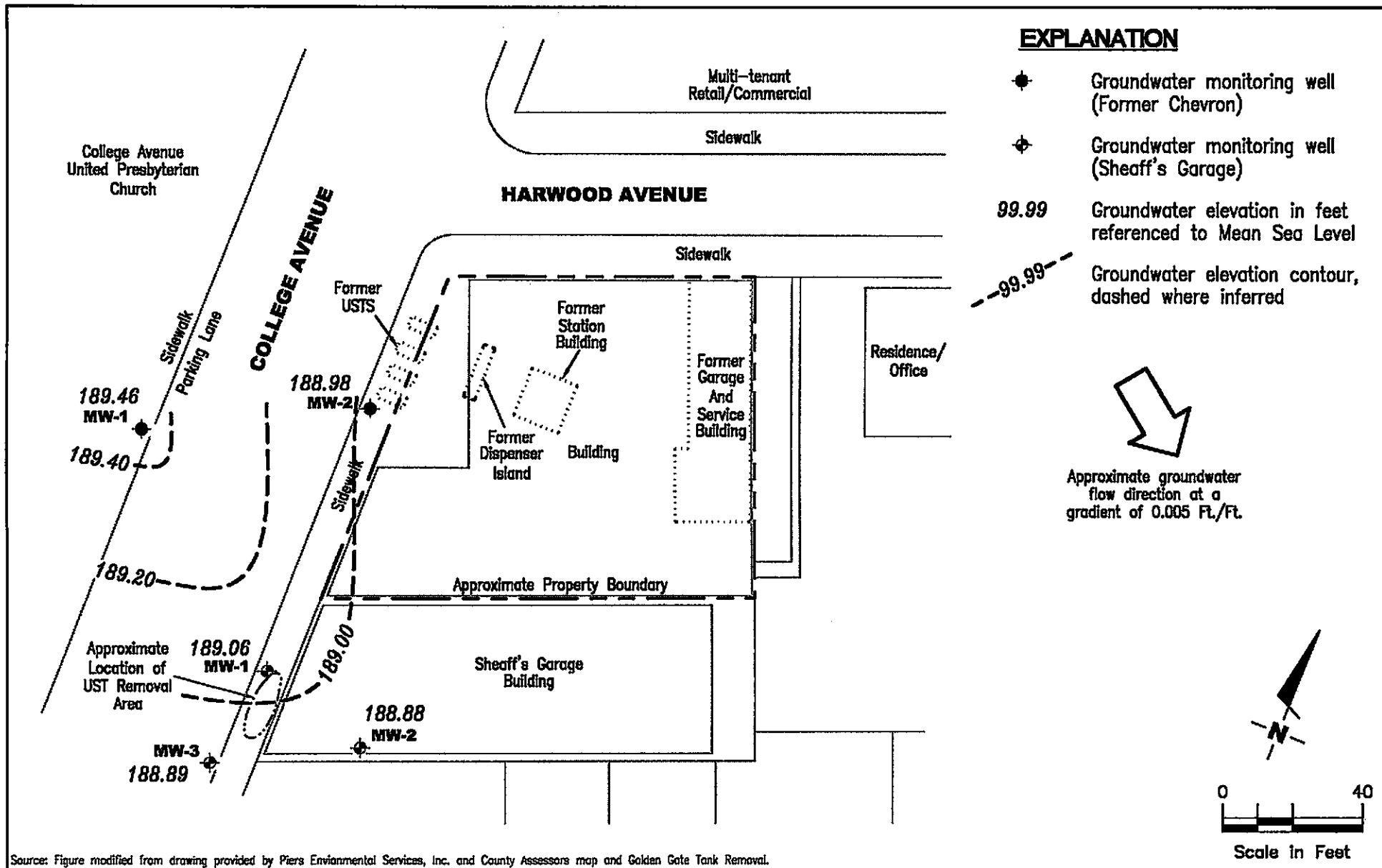


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
Table 4: Field Measurements
Table 5: Joint Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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

POTENTIOMETRIC MAP
 Former Chevron Service Station #209339
 5940 College Avenue
 Oakland, California

FIGURE
1

PROJECT NUMBER
386521

REVIEWED BY

DATE
April 8, 2002

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
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									
196.91	01/03/01	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
	04/25/01	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
	07/09/01	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
	10/08/01	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/08/02	7.45	189.46	670	<0.50	<2.0	<1.0	5.6	<2.5
MW-2									
197.35	01/03/01	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
	04/25/01	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
	07/09/01	11.44	185.91	2,500 ⁵	200	21	55	26	<50
	10/08/01	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
	01/13/02	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
	04/08/02	8.37	188.98	4,000	70	1.7	17	17	<2.5
TRIP BLANK									
TB-LB	01/03/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/09/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	10/08/01	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/08/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

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

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elev. = 179.075 feet, msl).

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

⁵ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
	01/13/02	--	<20	<2.0	<2.0	<2.0	<2.0	--

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
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	FERROUS IRON (ppm)	TOTAL ALKALINITY (ppm)	SULFATE AS SO ₄ (ppm)
MW-1	04/25/01	0.15	380	11
	07/09/01	<0.050	410	6.8
	10/08/01	-- ¹	414	5.4
	01/13/02	<0.10 ²	390	10
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3
	10/08/01	-- ¹	683	3.8
	01/13/02	<0.10 ²	630	7.0

EXPLANATIONS:

(ppm) = Parts per million

-- = Not Analyzed

¹ Analysis was not performed by the Laboratory as requested on the Chain of Custody.

² Due to sample transfer by the lab from laboratory to another, the sample was received beyond the EPA recommended holding time.

ANALYTICAL METHODS:

EPA Method SM 3500 Fe for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO₄

Table 4
Field Measurements
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	D.O. Before Purging (mg/L)	ORP Before Purging (mV)
MW-1	07/09/01	1.25	111
	10/08/01	1.20	64
	01/13/02 ¹	--	--
MW-2	07/09/01	1.89	16
	10/08/01	1.04	58
	01/13/02 ¹	--	--

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration

(mg/L) = Milligrams per liter

ORP = Oxygen Reduction Potential

(mV) = Millivolt

-- = Not Measured

¹ D.O. and ORP meter erratic; measurements not taken.

Table 5
Joint Groundwater Monitoring Data and Analytical Results
 Sheaff's Garage
 5930 College Avenue
 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									
195.90	04/25/01 ¹	7.39	188.51	--	--	--	--	--	--
	07/09/01	9.72	186.18	79,000	15,000	7,800	3,000	15,000	660
	10/08/01	10.88	185.02	112,000	25,300	11,800	4,280	20,600	374
	01/07/02 ³	4.34	191.56	96,100	21,100	13,500	4,160	21,900	596/330 ²
	04/08/02	6.84	189.06	111,000	21,200	13,400	4,230	21,000	814
MW-2									
197.28	04/25/01 ¹	8.52	188.76	--	--	--	--	--	--
	07/09/01	11.05	186.23	39,000	6,200	730	2,300	6,100	180
	10/08/01	12.79	184.49	40,700	6,310	399	2,100	5,320	6,460
	01/07/02 ³	4.92	192.36	59,600	10,300	3,250	4,180	14,400	366/170 ²
	04/08/02	8.40	188.88	66,700	10,200	2,670	3,840	13,200	583
MW-3									
195.22	04/25/01 ¹	6.61	188.61	--	--	--	--	--	--
	07/09/01	8.85	186.37	12,000	39	10	690	1,600	35
	10/08/01	9.75	185.47	4,912.5	107.7	3.9	99.0	132.5	52.2
	01/07/02 ³	4.25	190.97	7,260	723	138	492	887	81.7/16.7 ²
	04/08/02	6.33	188.89	11,700	540	108	706	1,710	<0.5

Table 5
Joint Groundwater Monitoring and Analytical Results
Sheaff's Garage
5930 College Avenue
Oakland, California

EXPLANATIONS:

Joint groundwater monitoring data and laboratory analytical results were provided by Golden Gate Tank Removal, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

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

* TOC elevations were surveyed on April 26, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

¹ Joint monitoring laboratory analytical results were not provided.

² MTBE by EPA Method 8260

³ Joint monitoring was conducted on different day than Chevron.

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.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

CHEVRON Facility# 209339 Job#: 386521
 Address: 5940 College Ave. Date: 4.8.02
 City: Oakland, CA Sampler: FT

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0 (feet) (product/water): 0 (Gallons)
 Total Depth 20.14 ft.
 Depth to Water 7.45 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

12.69 X VF .17 = 2.15 X 3 (case volume) = Estimated Purge Volume: 6.47 (gal.)

Purge Equipment: (Disposable Bailer)
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: (Disposable Bailer)
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 10:04 Weather Conditions: FOG
 Sampling Time: 10:23 Water Color: CLEAR Odor: NO
 Purging Flow Rate: N/A gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:09</u>	<u>2.0</u>	<u>7.12</u>	<u>335</u> $\times 100$	<u>59.7</u>			
<u>10:13</u>	<u>4.0</u>	<u>7.06</u>	<u>426</u>	<u>60.2</u>			
<u>10:18</u>	<u>6.5</u>	<u>7.96</u>	<u>407</u>	<u>60.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/bTEX/MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

CHEVRON
Facility# 209339
Address: 5940 College Ave.
City: Oakland, CA

Job#: 386521
Date: 4.8.02
Sampler: FT

Well ID MW-2
Well Diameter 2 in.
Total Depth 20.10 ft.
Depth to Water 8.37 ft.

Well Condition: OK
Hydrocarbon Thickness: (feet) Amount Bailed (product/water): (Gallons)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

11.73 X VF .17 = 1.99 X 3 (case volume) = Estimated Purge Volume: 5.98 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
(Suction)
Grundfos
Other: _____

Sampling Equipment: (Disposable Bailer)
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 11:02
Sampling Time: 11:35
Purging Flow Rate: N/A gpm.
Did well de-water? NO

Weather Conditions: FOG
Water Color: CLOUDY/LT. TAN Odor: YES
Sediment Description: SLIGHTLY SILTY
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{hos/cm} \times 100$	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:07</u>	<u>2.0</u>	<u>6.85</u>	<u>581</u>	<u>68.3</u>			
<u>11:12</u>	<u>4.0</u>	<u>6.81</u>	<u>596</u>	<u>65.7</u>			
<u>11:17</u>	<u>6.0</u>	<u>6.77</u>	<u>588</u>	<u>65.5</u>			
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Chevron California Region Analysis Request/Chain of Custody



041002-007

Acct. #: 10905 For Lancaster Laboratories use only
 Sample #: 3804294-6 SCR#: _____

Facility #: <u>209339</u> Job # <u>386521</u> Global ID# <u>NA</u> Site Address: <u>5940 COLLEGE AVE., OAKLAND, CA</u> Chevron PM: <u>Tom Bauhs</u> Lead Consultant: <u>Delta/G-R</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding</u> (Deanna@grinc.com) Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>FRANK TERNONI</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested Preservation Codes H H H BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup 8260 full scan Oxygenates Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input checked="" type="checkbox"/> Run <u>5</u> oxy s on all hits					
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers											Comments / Remarks	
<u>QA</u>	<u>4-8-02</u>					<u>W</u>			<u>2</u>	<u>X</u>											
<u>MW-1</u>	↓	<u>1023</u>	<u>X</u>			↓			<u>6</u>	<u>X</u>											
<u>MW-2</u>	↓	<u>1135</u>	<u>X</u>			↓			<u>6</u>	<u>X</u>											
Turnaround Time Requested (TAT) (please circle) (STD. TAT) 24 hour 48 hour 72 hour 4 day 5 day										Relinquished by: <u>Frank Ternoni</u> Date: <u>4-8-02</u> Time: _____ Relinquished by: <u>Denise Vance</u> Date: <u>4/10/02</u> Time: <u>1500</u> Relinquished by: <u>Proches Longo</u> Date: <u>4/11/02</u> Time: <u>1500</u>		Received by: <u>Denise Vance</u> Date: <u>4/10/02</u> Time: <u>1500</u> Received by: <u>Wayne Auber</u> Date: <u>4/11/02</u> Time: <u>1520</u> Received by: <u>Airborne</u> Date: <u>4-11-02</u> Time: _____									
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk										Relinquished by Commercial Carrier: <u>Airborne</u> UPS FedEx Other <input checked="" type="checkbox"/>		Received by: <u>Denise Vance</u> Date: <u>04/12/02</u> Time: <u>0845</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Temperature Upon Receipt <u>3-5</u> °C																					



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

RECEIVED

APR 12 2002

GETTLER-RYAN INC.
GENERAL CONTRACTOR

SAMPLE GROUP

The sample group for this submittal is 803755. Samples arrived at the laboratory on Friday, April 12, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

QA-T-020408	NA	Water
MW-1-W-020408	Grab	Water
MW-2-W-020408	Grab	Water

Lancaster Labs Number

3804294
3804295
3804296

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

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,

Steven A. Skiles
Steven A. Skiles
Sr. Chemist



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3804294

Collected: 04/08/2002 00:00

Account Number: 10905

Submitted: 04/12/2002 09:45
 Reported: 04/19/2002 at 21:23
 Discard: 05/20/2002
 QA-T-020408 NA Water

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 209339 Job# 386521 GRD
 5940 COLLEGE-OAKLAND NA 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	04/13/2002 15:36	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/13/2002 15:36	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/13/2002 15:36	John B Kiser	n.a.

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



Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3804295**

Collected: 04/08/2002 10:23 by FT Account Number: 10905

Submitted: 04/12/2002 09:45
 Reported: 04/19/2002 at 21:23
 Discard: 05/20/2002
 MW-1-W-020408 Grab Water
 Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 209339 Job# 386521 GRD
 5940 COLLEGE-OAKLAND NA NA

M1339

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.	670.	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. Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D. #	2.0	ug/l	1
00778	Ethylbenzene	100-41-4	N.D. #	1.0	ug/l	1
00779	Total Xylenes	1330-20-7	5.6	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.

Due to the presence of interferents near their retention time, normal reporting limits were not attained for toluene and ethylbenzene. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory Method Detection Limit Exceeded target detection limit
 N.D.=Not detected Above Reporting Limit



Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3804295

Collected: 04/08/2002 10:23 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:23

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

MW-1-W-020408

Grab

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

NA

M1339

CAT

No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/14/2002 06:08	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/14/2002 06:08	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2002 06:08	John B Kiser	n.a.

#=Laboratory Method Detection Limit Exceeded Target detection limit

N.D.=Not detected above the Reporting Limit



2425 New Holland Pike
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3804296**

Collected: 04/08/2002 11:35 by FT Account Number: 10905

Submitted: 04/12/2002 09:45
 Reported: 04/19/2002 at 21:24
 Discard: 05/20/2002
 MW-2-W-020408 Grab Water
 Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 209339 Job# 386521 GRD
 5940 COLLEGE-OAKLAND NA NA

M2339

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.	4,000.	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. Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	70.	0.50	ug/l	1
00777	Toluene	108-88-3	1.7	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	17.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	17.	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	04/14/2002 06:40	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/14/2002 06:40	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2002 06:40	John B Kiser	n.a.

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



Lancaster Laboratories, Inc.
 2425 New Holland Pike.
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3804296

Collected: 04/08/2002 11:35 by FT

Account Number: 10905

Submitted: 04/12/2002 09:45

Chevron Products Company

Reported: 04/19/2002 at 21:24

6001 Bollinger Canyon Road

Discard: 05/20/2002

Building L PO Box 6004

MW-2-W-020408

Grab

Water

San Ramon CA 94583-0904

Facility# 209339 Job# 386521

GRD

5940 COLLEGE-OAKLAND

NA

NA

M2339

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



MEMBER
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



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Quality Control Summary

Client Name: Chevron Products Company
Reported: 04/19/02 at 09:24 PM

Group Number: 803755

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02103A16A	Sample number(s): 3804294							
Benzene	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30
Batch number: 02103A16B	Sample number(s): 3804295-3804296							
Benzene	N.D.	0.5	ug/l	112	111	80-118	1	30
Toluene	N.D.	0.5	ug/l	114	112	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	110	108	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	111	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	104	107	76-126	3	30

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD Max</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
Batch number: 02103A16A	Sample number(s): 3804294							
Benzene	117		77-131					
Toluene	117		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	112		76-132					
Methyl tert-Butyl Ether	100		61-144					
TPH-GRO - Waters	105		74-132					
Batch number: 02103A16B	Sample number(s): 3804295-3804296							
Benzene	117		77-131					
Toluene	117		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	112		76-132					
Methyl tert-Butyl Ether	100		61-144					
TPH-GRO - Waters	105		74-132					

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters

Batch number: 02103A16A

Trifluorotoluene-F

Trifluorotoluene-P

3804294	76	99
Blank	79	99

*- 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, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



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Quality Control Summary

Page 2 of 2

Client Name: Chevron Products Company
Reported: 04/19/02 at 09:24 PM

Group Number: 803755

Surrogate Quality Control

LCS	105	98
LCSD	100	98
MS	124	97

Limits: 67-135 71-130

Analysis Name: TPH-GRO - Waters

Batch number: 02103A16B

Trifluorotoluene-F

Trifluorotoluene-P

3804295	207*	121
3804296	455*	123
Blank	77	98
LCS	105	98
LCSD	100	98
MS	124	97

Limits: 67-135 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.



Lancaster Laboratories, Inc.
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PO Box 12425
Lancaster, PA 17605-2425
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