



GETTLER-RYAN Inc.

TRANSMITTAL

MAR 08 2002

February 19, 2002

G-R #386498

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

CC: Mr. Thomas Bauhs
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 #206127**
(Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 11, 2002	Groundwater Monitoring and Sampling Report First Quarter - Event of January 13, 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 **March 5, 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., 3164 Gold Camp Drive, Suite 240, Rancho Cordova, CA 95670

Enclosures

trans/206127-tb



GETTLER-RYAN INC.

February 11, 2002
G-R Job #386498

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of January 13, 2002
Groundwater Monitoring & Sampling Report
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

MAR 08 2002

Dear Mr. Bauhs:

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 level was measured and the well was checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevation, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table I. A Groundwater Elevation Map is included as Figure 1.

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

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

Sincerely,

Deanna L. Harding
Project Coordinator

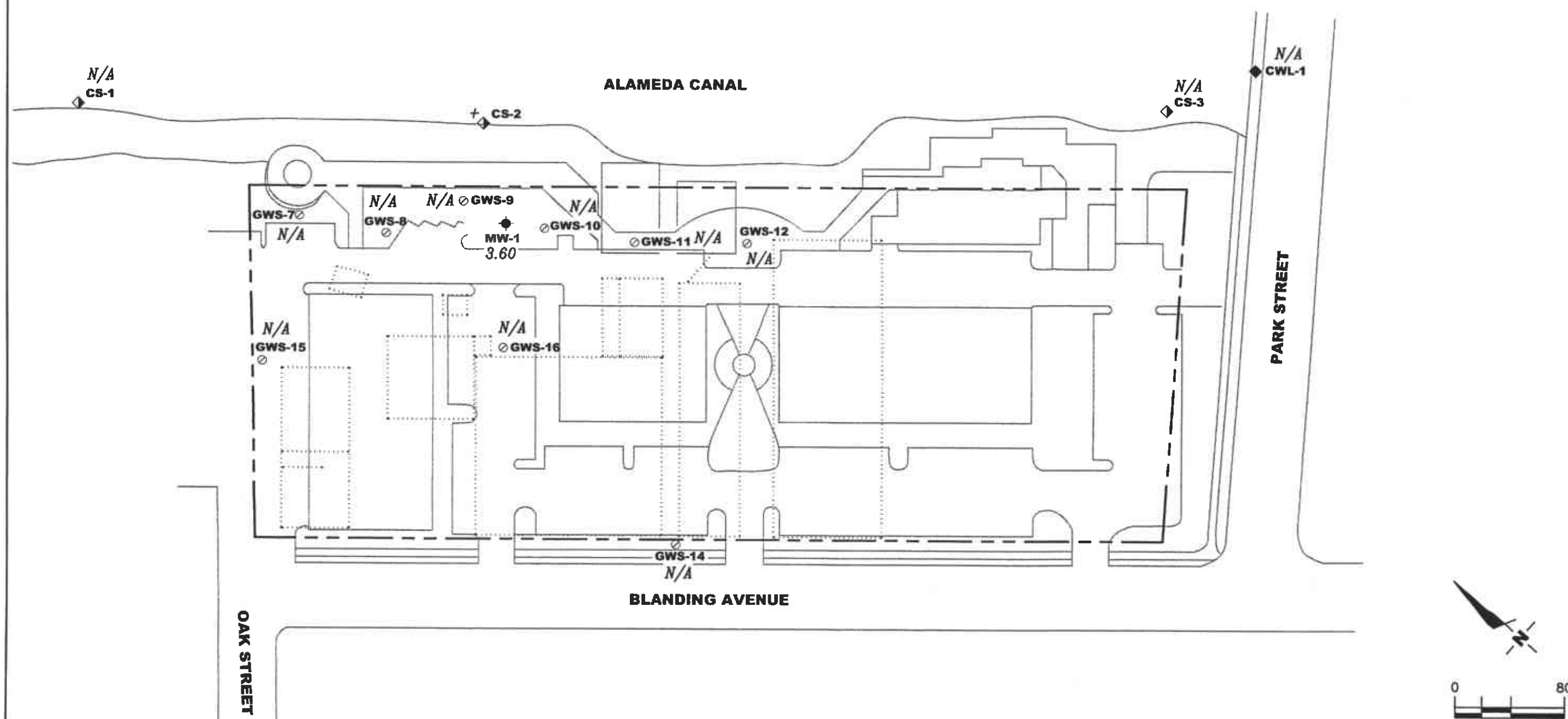
Hagop Kevork
P.E. No. C55734



Figure 1: Groundwater Elevation 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
◆	Canal water level gauging station from Park Street Bridge (RRM, October 1998)	+	TOC not available
◇	Canal grab surface water sample	N/A	Not Available
⊙	Shallow groundwater survey point (Geomatrix, April 1995)		
⋯	Site features noted on Sanborn Fire Insurance map, dated 1932		



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

GROUNDWATER ELEVATION MAP
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

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

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	01/23/01 ¹	7.16	--	1,100 ^{2,3}	5,210 ⁴	868	<50.0	<50.0	<50.0	<250
10.62	04/09/01	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100
	07/30/01	9.15	1.47	550 ^{4,8}	2,000 ⁷	730	13	<5.0	<5.0	<25
	10/08/01	7.86	2.76	2,200 ⁹	1,200	120	2.4	5.9	6.4	<2.5
	01/13/02	7.02	3.60	3,300⁴	930	320	0.78	0.87	3.8	<2.5
CS-2	07/30/01	--	--	140 ^{4,5}	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	10/08/01	--	--	53 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	--	--	<50 ⁴	<50	<0.50	<0.50	<0.50	<1.5	<2.5
Trip Blank										
TB-LB	01/23/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	04/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/30/01	--	--	--	<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	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

EXPLANATIONS:

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppb) = Parts per billion
DTW = Depth to Water	B = Benzene	QA = Quality Assurance
(ft.) = Feet	T = Toluene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	E = Ethylbenzene	CS-2 = Creek Sample
(msl) = Mean sea level	X = Xylenes	
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	

* TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

- 1 Well development performed.
- 2 Laboratory report indicates unidentified hydrocarbons <C16.
- 3 Laboratory report indicates weathered gasoline C6-C12.
- 4 TPH-D with silica gel cleanup.
- 5 Laboratory report indicates discrete peaks.
- 6 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- 7 Laboratory report indicates gasoline C6-C12.
- 8 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 9 Analysis performed without silica gel cleanup although was requested on the Chain of Custody.

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.**

Client/ CHEVRON

Facility # 206127

Job#: 386498

Address: 2301-2337 Blanding Ave.

Date: 1-13-02

City: Alameda

Sampler: B6

Well ID Mu-1

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon 6 Amount Bailed 6
Thickness: _____ (feet) (product/water): _____ (Gallons)

Total Depth 17.55 ft.

Depth to Water 7.02 ft.

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

10.53 X VF .17 = 2 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

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

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

Starting Time: 8:13

Weather Conditions: Cloudy

Sampling Time: 8:24

Water Color: Cloudy Odor: yes

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? NO

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:17</u>	<u>2</u>	<u>6.11</u>	<u>310</u>	<u>52.8</u>			
<u>8:20</u>	<u>4</u>	<u>6.80</u>	<u>380</u>	<u>52.6</u>			
<u>8:22</u>	<u>6</u>	<u>6.91</u>	<u>391</u>	<u>52.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>Mu-1</u>	<u>3x VOAS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>Mu-1</u>	<u>1x AMS</u>	<u>Y</u>	<u>HCL</u>	<u>n</u>	<u>TPH-D</u>

COMMENTS: _____

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

Client/CHEVRON

Facility # 206127

Job#: 386498

Address: 2301-2337 Blanding Ave.

Date: 1-13-02

City: Alameda

Sampler: B6

Well ID CS-2

Well Condition: N/A

Well Diameter - in.

Hydrocarbon Amount Bailed
Thickness: _____ (feet) (product/water): _____ (Gallons)

Total Depth - ft.

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

Depth to Water - ft.

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

Sampling Equipment: Disposable Bailer
~~Bailer~~
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____

Weather Conditions: Clody

Sampling Time: 9:03

Water Color: Clear Odor: NO

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
CS-2	3 VUA	Y	HCL	LANCASTER	TPH(G)/btex/mtbe
CS-2	1 XAMB	Y	HCL	"	TPH-D

COMMENTS: _____

Chevron California Region Analysis Request/Chain of Custody



140103-003

For Lancaster Laboratories use only
 Acct. #: 10905 Sample #: 3158332-34 SCR#: _____

Facility #: <u>206127</u> Job # <u>386498</u> Global ID # <u>NA</u>			Matrix: <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Air			Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																												
Site Address: <u>2301-2337 BLANDING AVE., ALAMEDA, CA</u>			Chevron PM: <u>Tom Bauhs</u> Lead Consultant: <u>Delta/G-R</u>			Preservation Codes										<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 type="checkbox"/> Run ___ oxy s on all hits																																																																												
Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u>			Consultant Prj. Mgr.: <u>Deanna L. Harding (Deanna@grinc.com)</u>			Total Number of Containers: <u>2</u> <input checked="" type="checkbox"/> BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> TPH 8015 MOD GRO <input type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> 8260 full scan Oxygenates <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421										Service Order #: _____ <input type="checkbox"/> Non SAR: _____																																																																												
Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u>			Sampler: <u>BC</u>			Sample Identification										Comments / Remarks																																																																												
Date Collected: <u>1-13-02</u> Time Collected: <u>8:24</u>			Grab <input checked="" type="checkbox"/> Composite <input type="checkbox"/>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample Identification</th> <th style="width: 10%;">Date Collected</th> <th style="width: 10%;">Time Collected</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;">Soil</th> <th style="width: 5%;">Water</th> <th style="width: 5%;">Oil</th> <th style="width: 5%;">Air</th> <th style="width: 5%;">Total Number of Containers</th> <th style="width: 5%;">BTEX + MTBE 8260</th> <th style="width: 5%;">8021</th> <th style="width: 5%;">TPH 8015 MOD GRO</th> <th style="width: 5%;">TPH 8015 MOD DRO</th> <th style="width: 5%;">8260 full scan</th> <th style="width: 5%;">Oxygenates</th> <th style="width: 5%;">Lead 7420</th> <th style="width: 5%;">7421</th> </tr> </thead> <tbody> <tr> <td><u>QPA</u></td> <td><u>1-13-02</u></td> <td><u>8:24</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><u>2</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><u>MW-1</u></td> <td><u>"</u></td> <td><u>9:03</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><u>3</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><u>CS-2</u></td> <td><u>"</u></td> <td><u>9:03</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><u>5</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>										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	8260 full scan	Oxygenates	Lead 7420	7421	<u>QPA</u>	<u>1-13-02</u>	<u>8:24</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>MW-1</u>	<u>"</u>	<u>9:03</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>CS-2</u>	<u>"</u>	<u>9:03</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turnaround Time Requested (TAT) (please circle) STD. TAT: <u>24 hour</u> 72 hour 48 hour 4 day 5 day	
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	8260 full scan	Oxygenates	Lead 7420	7421																																																																											
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Data Package Options (please circle if required) QC Summary Type I - Full <input type="checkbox"/> Coelt Deliverable not needed Type VI (Raw Data) <input type="checkbox"/> WIP (RWQCB) <input type="checkbox"/> Disk <input type="checkbox"/>			Relinquished by: <u>[Signature]</u> Date: <u>1/14/02</u> Time: <u>8:25</u>			Received by: <u>[Signature]</u> Date: <u>1/14/02</u> Time: <u>8:10</u>										Relinquished by: <u>[Signature]</u> Date: <u>1/14/02</u> Time: <u>14:00</u>																																																																												
Relinquished by: _____ Date: _____ Time: _____			Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____										Relinquished by: _____ Date: _____ Time: _____																																																																												
Relinquished by Commercial Carrier: UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/> <u>Airborne</u>			Temperature Upon Receipt: <u>2.5, 2.0, 0.2</u>			Received by: <u>[Signature]</u> Date: <u>1/15/02</u> Time: <u>09:10</u>										Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																												



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
JAN 30 2002
GETTLER-RYAN, INC.
GENERAL CONTRACTORS

SAMPLE GROUP

The sample group for this submittal is 793369. Samples arrived at the laboratory on Tuesday, January 15, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

QA-T-020113	NA	Water
MW-1-W-020113	Grab	Water
CS-2-W-020113	Grab	Water

Lancaster Labs Number

3758332
3758333
3758334

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,

Matthew E. Barton
Sr. Chemist/Coordinator



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 3758332

Collected: 01/13/2002 00:00

Account Number: 10905

Submitted: 01/15/2002 09:10
 Reported: 01/28/2002 at 17:42
 Discard: 02/28/2002
 QA-T-020113 NA Water

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

Facility# 206127 Job# 386498 GRD
 2301 2337 Blanding-Alamed 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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/18/2002 04:05	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/18/2002 04:05	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/18/2002 04:05	Anastasia Papadoplos	n.a.

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



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



Lancaster Laboratories Sample No. **WW 3758333**

Collected: 01/13/2002 08:24 by BG Account Number: 10905

Submitted: 01/15/2002 09:10 Chevron Products Company
 Reported: 01/28/2002 at 17:42 6001 Bollinger Canyon Road
 Discard: 02/28/2002 Building L PO Box 6004
 MW-1-W-020113 Grab Water San Ramon CA 94583-0904

Facility# 206127 Job# 386498 GRD
 2301 2337 Blanding-Alamed NA NA

BAMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02202	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	3,300.	50.	ug/l	2
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	930.	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	320.	0.50	ug/l	1
00777	Toluene	108-88-3	0.78	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	0.87	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	3.8	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
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#=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 3758333

Collected: 01/13/2002 08:24 by BG

Account Number: 10905

Submitted: 01/15/2002 09:10
Reported: 01/28/2002 at 17:42
Discard: 02/28/2002

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

MW-1-W-020113 Grab Water

Facility# 206127 Job# 386498 GRD
2301 2337 Blanding-Alamed NA NA

BAMW1

Sample ID	Method	Method Description	Count	Date/Time	Analyst	Result
02202	TPH-DRO CALUFT (Water) w/Si Gel	CA LUFT Diesel Range Organics	1	01/24/2002 13:34	Tracy A Cole	2
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/18/2002 04:39	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/18/2002 04:39	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/18/2002 04:39	Anastasia Papadoplos	n.a.
02176	Silica Quick Gel Cleanup	SW846, 3630C modified	1	01/17/2002 07:30	JoElla L Rice	1
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	01/16/2002 11:55	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeds target detection limit

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



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



Lancaster Laboratories Sample No. **WW 3758334**

Collected: 01/13/2002 09:03 by **BG** Account Number: 10905

Submitted: 01/15/2002 09:10
 Reported: 01/28/2002 at 17:42
 Discard: 02/28/2002
 CS-2-W-020113 Grab Water
 Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 206127 Job# 386498 GRD
 2301 2337 Blanding-Alamed NA NA

BACS2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02202	TPH-DRO CALUFT (Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
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
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected



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Page 2 of 2

Lancaster Laboratories Sample No. **WW 3758334**

Collected: 01/13/2002 09:03 by BG

Account Number: 10905

Submitted: 01/15/2002 09:10
Reported: 01/28/2002 at 17:42
Discard: 02/28/2002
CS-2-W-020113

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

Grab Water

Facility# 206127 Job# 386498 GRD
2301 2337 Blanding-Alamed NA NA

BACS2

02202	TPH-DRO CALUFT(Water) w/Si Gel	CA LUFT Diesel Range Organics	1	01/17/2002 17:30	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/18/2002 05:13	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/18/2002 05:13	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/18/2002 05:13	Anastasia Papadoplos	n.a.
02176	Silica Quick Gel Cleanup	SW846, 3630C modified	1	01/17/2002 07:30	JoElla L Rice	1
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	01/16/2002 11:55	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeds target detection limit

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



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



Client Name: Chevron Products Company
Reported: 01/28/02 at 05:42 PM

Group Number: 793369

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: 020160016A TPH-DRO CALUFT (Water) w/Si Gel	Sample number(s): 3758333-3758334							
	N.D.	50.	ug/l	114	109	54-120	4	20
Batch number: 02017A53	Sample number(s): 3758332-3758334							
Benzene	N.D.	0.5	ug/l	110	108	80-118	2	30
Toluene	N.D.	0.5	ug/l	104	103	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	108	106	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	109	107	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	110	106	79-127	4	30
TPH-GRO - Waters	N.D.	50.	ug/l	92	93	76-126	1	20

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 MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02017A53	Sample number(s): 3758332-3758334							
Benzene	109		77-131					
Toluene	107		80-128					
Ethylbenzene	109		71-138					
Total Xylenes	109		76-132					
Methyl tert-Butyl Ether	112		60-145					
TPH-GRO - Waters	97		74-132					

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT (Water) w/Si Gel
Batch number: 020160016A
Orthoterphenyl

3758333	115
3758334	113
Blank	116
LCS	98
LCSD	96
<hr/>	
Limits:	59-157

Analysis Name: TPH-GRO - Waters
Batch number: 02017A53
Trifluorotoluene-F Trifluorotoluene-P

3758332	99	99
3758333	104	107
3758334	92	97

***- 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: Chevron Products Company

Group Number: 793369

Reported: 01/28/02 at 05:42 PM

Surrogate Quality Control

Blank	91	95
LCS	100	96
LCSD	98	99
MS	101	93

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