GETTLER-RYAN INC.

RO CO-065

DEC 17 2001

TRANSMITTAL

November 26, 2001
G-R #386498

TPHd exceeds SEPA Screening Levels

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	November 16, 2001	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of October 8, 2001

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 ***December 10, 2001***, 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.

November 16, 2001
G-R Job #386498

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

RE: Fourth Quarter Event of October 8, 2001
Groundwater Monitoring & Sampling Report
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

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 1. 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 Harding

-FOR-
Deanna L. Harding
Project Coordinator

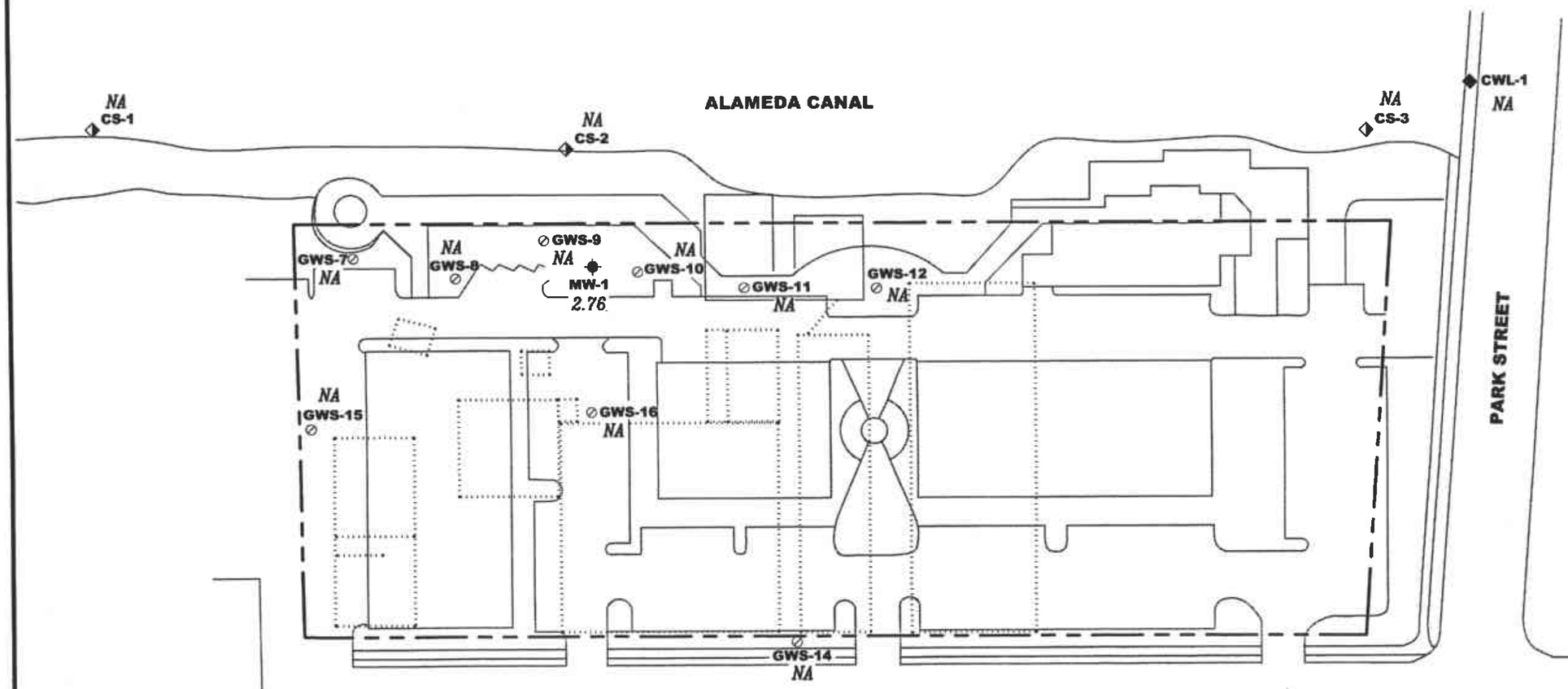
Douglas J. Lee
Senior Geologist, R.G. No. 6882

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

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 (MSL)
◆	Canal water level gauging station from Park Street Bridge (RRM, October 1998)	*NA*	Not Available
◈	Canal grab surface water sample		
⊘	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.

FIGURE 1

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

REVISED DATE

DATE
October 8, 2001

REVIEWED BY

PROJECT NUMBER
386498

FILE NAME: P:\ENVIRO\CHEVRON\206127\Q01-20-6127.DWG | Layout Tab: Fig1

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*	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**
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**
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**

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

* 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 as requested on the Chain of Custody. (but not done by lab)

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
ent/ 206127 Job#: 386498
cility # 2301-2337 Blanding Ave. Date: 10-8-01
ddress: Alameda, CA Sampler: FRANK T.
ity:

Well ID MW-1 Well Condition: O'K
/ell Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
otal Depth 17.55 ft.
)epth to Water 7.86 ft.

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

9.69 x VF .17 = 1.64 x 3 (case volume) = Estimated Purge Volume: 4.94 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other:
Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 3:47
Sampling Time: 4:06
Purging Flow Rate: N/A gpm.
Did well de-water? NO

Weather Conditions: SUNNY
Water Color: CLOUDY / GREY Odor: YES
Sediment Description: SILTY
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:50	1.5	6.98	907	65.1			
3:53	3.0	6.96	730	64.6			
3:57	5.0	6.93	662	64.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x VOA VIAL	Y	HCL	LAN.	TPHG/BTEX/MTBE/
	2 x 1 LT. AMBER	"	"	"	TPH-D

COMMENTS:

3/97-fieldst.frm

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client: CHEVRON
Facility #: 206127 Job#: 386498
Address: 2301-2337 Blanding Ave. Date: 10.8.01
City: Alameda, CA Sampler: FRANK T.

Well ID: CS-2 Well Condition: CREEK SAMPLE

Well Diameter: N/A in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: ft.

Depth to Water: ft.

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

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

Purge Equipment: Disposable Bailer, Bailer, Stack, N/A Suction, Grundfos, Other:

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

Starting Time:
Sampling Time: 3:30
Purging Flow Rate: gpm.
Did well de-water?

Weather Conditions: SUNNY
Water Color: CLEAR Odor: YES
Sediment Description:
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm x1000	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		6.97	220	67.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
CS-2	3 x VOA VIAL	Y	HCL	LAB.	TPHG/BTEX/MTBE/
	2 x LT. AMBER	"	"	"	TPH-D

COMMENTS: TOOK CREEK SAMPLE FROM LOCATION SHOWN ON THE MAP.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

091001-001

Acct. #: 10905 | For Lancaster Laboratories use only Sample #: 370328 5-87 | SCR#:

Facility #: 206127 JOB #386498
Site Address: 2301-2337 Dlanding Ave., Alameda, CA
Chevron PM: Thomas Bauhs Lead Consultant: Delta/G-R
Consultant/Office: G-R Inc, 6747 Sierra Ct, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding Deanna@grinc.com
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Frank Terrinoni
Service Order #: ☐ Non SAR:

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	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421
					Potable ☐ NPDES ☐					H	H	H			
QA	10.8.01					W			2	X	X				
CS-2	↓	1530	X			↓			5	X	X	X			
MW-1	↓	1606	X			↓			5	X	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:	Frank Terrinoni	10.9.01		Received by:	Andres Amaya	10.9.01 0820
Relinquished by:	Andres Amaya	10.9.01	15:10	Received by:	Fed Ex	10.9.01
Relinquished by:		Date	Time	Received by:		Date Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ____				Received by:		Date Time
Temperature Upon Receipt 2.5 3.2 C°				Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

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

Analysis Report

Lancaster Laboratories
Where quality is a science.

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

SAMPLE GROUP

The sample group for this submittal is 781519. Samples arrived at the laboratory on Wednesday, October 10, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA	NA	Water	3703285
CS-2	Grab	Water	3703286
MW-1	Grab	Water	3703287

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,

Christine M. Dulanev
Sr. Chemist

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3703285

Collected:10/08/2001 00:00

Submitted: 10/10/2001 09:30
Reported: 10/18/2001 at 07:46
Discard: 11/18/2001
QA NA Water

Account Number: 10905

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 N. California (waters)					
01730	TPH-GRO N. California (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 N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/11/2001 23:54	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/11/2001 23:54	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/11/2001 23:54	Melissa Mann	n.a.

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3703286

Collected:10/08/2001 15:30 by FT

Account Number: 10905

Submitted: 10/10/2001 09:30
Reported: 10/18/2001 at 07:46
Discard: 11/18/2001
CS-2 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
05553	TPH - DRO CA LUFT (Waters)	n.a.	53.	J	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). Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO N. California (waters)						
01730	TPH-GRO N. California (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

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3703286

Collected:10/08/2001 15:30 by FT

Account Number: 10905

Submitted: 10/10/2001 09:30
Reported: 10/18/2001 at 07:46
Discard: 11/18/2001
CS-2 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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	10/12/2001 19:42	Devin M. Lahr	1
01729	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/11/2001 18:01	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/11/2001 18:01	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/11/2001 18:01	Melissa Mann	n.a.
02176	Silica Quick Gel Cleanup	FL-PRO, 11/95	1	10/11/2001 17:00	Elia R. Botrous	1

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3703287

Collected:10/08/2001 16:06 by FT

Account Number: 10905

Submitted: 10/10/2001 09:30
Reported: 10/18/2001 at 07:46
Discard: 11/18/2001
MW-1 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

BAMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	2,200.	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). Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO N. California (waters)					
01730	TPH-GRO N. California (waters)	n.a.	1,200.	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	120.	0.50	ug/l	1
00777	Toluene	108-88-3	2.4	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	5.9	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	6.4	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

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3703287

Collected:10/08/2001 16:06 by FT

Account Number: 10905

Submitted: 10/10/2001 09:30
Reported: 10/18/2001 at 07:46
Discard: 11/18/2001

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

MW-1 Grab Water

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

BAMW1

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	10/12/2001 20:10	Devin M. Lahr	1
01729	TPH-GRO N. California (waters)	N. CALIF. LUFT Gasoline Method	1	10/11/2001 18:36	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	10/11/2001 18:36	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/11/2001 18:36	Melissa Mann	n.a.
02176	Silica Quick Gel Cleanup	FL-PRO, 11/95	1	10/11/2001 17:00	Elia R. Botrous	1

Lancaster Laboratories
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company
Reported: 10/18/01 at 07:46 AM

Group Number: 781519

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 012840002A	Sample number(s): 3703286-3703287							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	99	79	54-120	23*	20
Batch number: 01284A56	Sample number(s): 3703285-3703287							
Benzene	N.D.	0.5	ug/l	106	108	80-118	2	30
Toluene	N.D.	0.5	ug/l	106	108	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	108	110	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	108	110	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	103	108	79-127	4	30
TPH-GRO N. California (waters)	N.D.	50.	ug/l	106	109	76-119	3	20

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: 01284A56	Sample number(s): 3703285-3703287								
Benzene	116		66-140						
Toluene	117		72-138						
Ethylbenzene	119		71-138						
Total Xylenes	118		69-140						
Methyl tert-Butyl Ether	140		60-145						
TPH-GRO N. California (waters)	112		74-132						

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 012840002A

	Orthoterphenyl
3703286	86
3703287	87
Blank	85
LCS	125
LCSD	102
Limits:	59-157

Analysis Name: TPH-GRO N. California (waters)
Batch number: 01284A56

	Trifluorotoluene-F	Trifluorotoluene-P
3703285	102	97
3703286	100	99
3703287	128	115

*- 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: 781519
Reported: 10/18/01 at 07:46 AM

Surrogate Quality Control

Blank	102	96
LCS	113	97
LCSD	114	97
MS	120	98
Limits:	65-137	72-134

*- 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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