February 18, 2003 G-R #386895

TO:

Mr. Robert Foss

Cambria Environmental Technology, Inc.

2680 Bishop Drive, Suite 290

San Ramon, CA 94583

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

Alameda County

MAR 0 7 2003

Chevron Service Station

#9-3600

2200 Telegraph Avenue Oakland, California

Environmental Health

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 14, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of January 11, 2003

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 3, 2003*, at which time the final report will be distributed to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures

trans/9-3600-ks



GETTLER-RYAN INC.

February 14, 2003 G-R Job #386895

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

RE: First Quarter Event of January 11, 2003

Groundwater Monitoring & Sampling Report

Chevron Service Station #9-3600

2200 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 Project Coordinator

Robert C. Mallory

Registered Geologist, No. 7285

Figure 1: Table 1:

Potentiometric Map

Table 2:

Groundwater Monitoring Data and Analytical Results Groundwater Analytical Results - Oxygenate Compounds

Attachments:

Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

TELEGRAPH AVENUE Driveway Driveway **Planter** Canopy **Planter** Driveway MW-3 Dispenser, Islands **22ND STREET** 5.43 Approximate Location of BART Right of Way Kiosk Planter Underground Storage Tanks MW-1 / 5.94 **Approximate Property Boundary** Source: Figure modified from drawing provided by Morrow Surveying April 17, 2002

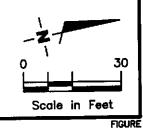
EXPLANATION

Groundwater monitoring well

Groundwater elevation in feet 99.99 referenced to Mean Sea Level

> Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.005 Ft./Ft.





(925) 551-7555

POTENTIOMETRIC MAP Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, Čalifornia

WEST GRAND AVENUE

DATE January 11, 2003

REVISED DATE

PROJECT NUMBER 386895

FILE NAME: P:\ENMRO\CHEVRON\9-3600\Q03-9-3600.DWG Loyout Tab: Pot1

REVIEWED BY

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-3600

evron Service Station #9-36 2200 Telegraph Avenue Oakland, California

WELL ID/	DATE	DTW	GWE	TPH-G	В	T	E	X	MTBE
TOC*(ft.)		(fL)	(ft,)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
			•						
MW-1	1		5.20	2,000	5.0	<1.0	14	8.4	310/370 ²
17.07	04/05/021	11.68	5.39	2,000	8.9	<1.0	97	31	370/420 ²
	07/01/02	12.01	5.06		9.2	<10	75	20	440/360 ²
	10/08/02	12.20	4.87	1,400		0.51	53	13	280/270 ²
	01/11/03	11.13	5.94	1,600	7.1	0.51			
									- 1 24 .
								<u>.</u> .	-
MW-2	1			<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
16.82	04/05/021	11.17	5.65	<50	<0.50	0.57	0.52	<1.5	<2.5/<2 ²
	07/01/02	11.36	5,46		<2.0	<2.0	<2.0	<5.0	<10/<2 ²
	10/08/02	11.57	5.25	<100	<0.50	<0.50	<0.50	<1.5	<2.5/<22
	01/11/03	10.94	5.88	<50	-V _{0.5} U		. •••		
MW-3					0.40	0.50	<0.50	<1.5	<2.5/<2 ²
16.52	04/05/021	11.29	5.23	<50	<0.50	0.59		<1.5	<2.5/<2 ²
	07/01/02	11.55	4.97	<50	<0.50	0.60	<0.50	<5.0	<10/<2 ²
	10/08/02	11.62	4.90	<100	<2.0	<2.0	<2.0		<2.5/<2 ²
	01/11/03	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	-2.31 -2
TRIP BLANK	•								
QA	04/05/02	 .		<50	<0.50	< 0.50	<0.50	<1.5	<2.5
***	07/01/02			<50	<0.50	< 0.50	<0.50	<1.5	<2.5
	10/08/02			<100	<2.0	<2.0	<2.0	<5.0	<10
	01/11/03			<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

EXPLANATIONS:

TOC = Top of Casing

B = Benzene

(ppb) = Parts per billion

(ft.) = Feet

T = Toluene

-- = Not Measured/Not Analyzed

DTW = Depth to Water

E = Ethylbenzene

QA = Quality Assurance/Trip Blank

X = Xylenes

GWE = Groundwater Elevation TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary butyl ether

TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

- Weil development performed.
- MTBE by EPA Method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

			Oakiand, Camonia			
WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	04/05/02	200	370	<2	<2 <2	10 9
	07/01/02 10/08/02	190 110	420 360	<2 <2	<2 <2 <2	8 7
	01/11/03	<100	270	<2		,
BATE 1	04/05/02	<100	<2	<2	<2	2
MW-2	07/01/02	<100	<2 <2	<2 <2	<2 <2	<2 <2
	10/08/02 01/11/03	<100 <100	<2	<2	<2	<2
	0.1105/03	<100	<2	<2	<2	<2
MW-3	04/05/02 07/01/02	<100	<2	<2	<2	<2
	10/08/02 01/11/03	<100 <100	<2 <2	<2 <2	<2 <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

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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 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.



Add/Replaced Lock: __

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

		#9-3600		ob Number: <u> </u>	1-11-03	<u> </u>	(inclusi
-	2200 Telegraph			_		· · · · · · · · · · · · · · · · · · ·	- (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
City:	Oakland, CA	<u>. 43</u>		iampler:	KKelly		-
Vell ID	MW- /	W	ell Condition:	OK.			.
Vell Diameter	2 in.			0445-0-00	1=0.04 2=0.17	3= 0.38	1
otal Depth	20.26 ft.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	5"= 1.02 6"= 1.50		
Depth to Water	11.13 ft.		<u> </u>				·=
	9.13 ×V	F 0.17	_ = <u>/-55</u> _;	k3 (case volume) = E	stimated Purge Volur	ne: <u># 65</u> gal	
	. —	•	u - Faulamante		Time Started:		2400 hrs)
Purge Equipment:	./	·	oling Equipment:	V	Time Bailed:		2400 hrs) ft
Disposable Bailer		•	sable Bailer sure Bailer		Depth to Water:		fe
Stainless Steel Bailer			ete Bailer		Hydrocarbon Thick		ft
Stack Pump Suction Pump			r:		Visual Confirmation	n/Description:	
Grundfos					Skimmer / Absorba	ant Sock (circle one	 '
Other:					Amt Removed from	n Skimmer:	gai
				-	Amt Removed from		gal
					Product Transferre	-0 (0	
			A 191	puercast	•		•
Start Time (purge		_	ner Conditions:			nr: <i>1/8</i> 0	
,	ate: <u>/245 /-//</u>		vyater Color.	Clear les	ouay ou	or: <u>Yes</u>	_
Purging Flow Re	ate: gpm.		ent Description:				_
		T		Volumo	len		
Did well de-water	er? No	If yes, Time	e:	Volume:	gal.		
	· · · · · · · · · · · · · · · · · · ·	•	e:	Volume:	D.O.	ORP	
Did well de-water Time (2400 hr.)	Volume (gal.)	If yes, Time	Conductivity (u mhos/cm)	Temperature		ORP (mV)	
Time	Volume	•	Conductivity	Temperature (OF) 19.1	D.O.		
Time	Volume (gal.)	pН	Conductivity (u mhos/cm)	Temperature (ØF) 19.1	D.O.		
Time	Volume (gal.)	рн <u>7.62</u> _	Conductivity (u mhos/cm)	Temperature (OF) 19.1	D.O.		
Time (2400 hr.) 1236 1238	Volume (gal.) 	pH 7.62 7.50	Conductivity (u mhos/cm)	Temperature (ØF) 19.1	D.O.		
Time (2400 hr.) 1236 1238	Volume (gal.) 	pH 7.62 7.50	Conductivity (u mhos/cm)	Temperature (ØF) 19.1	D.O.		
Time (2400 hr.) 1236 1238	Volume (gal.) 	pH 7.62 7.50 7.51	Conductivity (u mhos/cm) 406 423 394	Temperature ØF) 19.1 /8.8 /8.3	D.O.		
Time (2400 hr.) 1236 1238	Volume (gal.) /.5 3.0 /.75	pH 7.62 7.50 7.51 1.51 LA REFRIG.	Conductivity (u mhos/cm)	Temperature ©F) 19.1 /8.8 /8.3 CORMATION	D.O. (mg/L)	(mV)	
Time (2400 hr.) 1236 1238 1240	Volume (gal.) 	pH 7.62 7.50 7.51 1.51 LA REFRIG.	Conductivity (u mhos/cm) 406 423 394 BORATORY INF	Temperature ©F) 19.1 /8.8 /8.3 CORMATION	D.O. (mg/L)	(mV)	
Time (2400 hr.) 1236 1238 1240	Volume (gal.) /.5 3.0 /.75	pH 7.62 7.50 7.51 1.51 LA REFRIG.	Conductivity (umhos/cm) 406 423 394 BORATORY INF	Temperature (OF) 19.1 /8.8 /8.3 FORMATION LABORATOR	D.O. (mg/L) RY / A TPH-G(8015)/BT	(mV)	
Time (2400 hr.) 1236 1238 1240	Volume (gal.) /.5 3.0 /.75 (#) CONTAINER	pH 7.62 7.50 7.51 1.51 LA REFRIG.	Conductivity (umhos/cm) 406 423 394 BORATORY INF	Temperature (OF) 19.1 /8.8 /8.3 FORMATION LABORATOR	D.O. (mg/L) RY / A TPH-G(8015)/BT	(mV)	

WELL MONITORING/SAMPLING FIELD DATA SHEET

lient/Facility #:	Olice Coll Cydo	o #9-360 0	Job Number:	386895	
ite Address:	2200 Telegrapi	h Avenue	Event Date:	1-11-03	(inclu
City:	Oakland, CA		Sampler:	K.Kelly	<u></u>
Vell ID	мw- 2	Well Conditi	on: <i>NY</i> .		
Vell Diameter	2 in.				
otal Depth	20.23 ft.	Volum		1*= 0.04 2*= 0.17	3°= 0.38
Depth to Water	10.94 ft.	Facto	(VF) 4"= 0.66	5"= 1.02 6"= 1.50	12"= 5.80
cpui to water		vf_0.17 = 1.5	7 x3 (case volume) =	Estimated Purge Volum	e: <u>4.73</u> gal.
urge Equipment:		Sampling Equipn	ient:	Time Started:	
isposable Bailer		Disposable Bailer	········	Time Bailed: Depth to Product:	
Stainless Steel Bailer		Pressure Bailer		Depth to Water:	
Stack Pump	 	Discrete Bailer		Hydrocarbon Thickn	•
Suction Pump	-	Other:	_	Visual Confirmation	
Srundfos				Skimmer / Absorbar	nt Sock (circle one)
Other:					Skimmer: ga
					Well:ga
				Product Transferred	i to:
Start Time (purge Sample Time/Da Purging Flow Ra	ite: 1225 1/-/	Weather Condition Water Condition Water Condition Sediment Descript	olor: Cloudy		: <u>No</u>
	ate: 1225 1/-/ ate: gpm. er? No	Sediment Descript If yes, Time:	olor: Cloudy ion: Volume:		: No
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.)	te: 1/2/5 1/-/ te: gpm. tr? No Volume (gal.)	Sediment Descript If yes, Time: PH Conductivity (umhos/cm)	olor: Cloudy ion: Volume: Temperature OF)	Odor gal.	
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) /2:/3	te: 1225 1/-1 te: gpm. ter? No Volume (gal.) 1.5	Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7-58 504	olor: Cloudy ion: Volume: Temperature OF) /7.6	Odor gal. p.o.	ORP
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) /2:/4	te: 1225 1/-1 ate: gpm. cr? No Volume (gal.) 1.5 3.0	Water Conductivity PH Conductivity (umhos/cm) 7-58 504 7-36 5/0	olor: Cloudy ion: Volume: Temperature OF) /7.6	Odor gal. p.o.	ORP
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.)	te: 1225 1/-1 te: gpm. ter? No Volume (gal.) 1.5	Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7-58 504	olor: Cloudy ion: Volume: Temperature OF) /7.6	Odor gal. p.o.	ORP
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) /2:/4	te: 1225 1/-1 ate: gpm. cr? No Volume (gal.) 1.5 3.0	Water Conductivity PH Conductivity (umhos/cm) 7-58 504 7-36 5/0	olor: Cloudy ion: Volume: Temperature OF) /7.6	Odor gal. p.o.	ORP
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / 2:16 / 2:19	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Co Sediment Descript If yes, Time:	olor: Cloudy ion: Volume: Temperature ØF) /7.6 /8.9 /9./	gal. D.O. (mg/L)	ORP (mV)
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / 2:/3 / 2:/6 / 3:/9	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Constitution Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7.58 504 7.36 5/0 7.21 5/5 LABORATORY REFRIG. PRESERV. 1	Temperature OF) /7.6 /8.9 /9./ INFORMATION YPE LABORATOI	gal. D.O. (mg/L)	ORP (mV)
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / 2:16 / 2:19	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Co Sediment Descript If yes, Time:	olor: Cloudy ion: Volume: Temperature ØF) /7.6 /8.9 /9./	gal. D.O. (mg/L)	ORP (mV)
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / R:/3 / R:/9 SAMPLE ID	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Constitution Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7.58 504 7.36 5/0 7.21 5/5 LABORATORY REFRIG. PRESERV. 1	Temperature OF) /7.6 /8.9 /9./ INFORMATION YPE LABORATOI	Odor gal. D.O. (mg/L) RY AN R TPH-G(8015)/BTE	ORP (mV)
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / R:/3 / R:/9 SAMPLE ID	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Constitution Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7.58 504 7.36 5/0 7.21 5/5 LABORATORY REFRIG. PRESERV. 1	Temperature OF) /7.6 /8.9 /9./ INFORMATION YPE LABORATOI	Odor gal. D.O. (mg/L) RY AN R TPH-G(8015)/BTE	ORP (mV)
Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.) / 2://6 / 2://9 SAMPLE ID MW- 2	te: 1225 1/-1 te: gpm. Volume (gal.) 1.5 3.0 4.75	Water Constitution Sediment Descript If yes, Time: PH Conductivity (umhos/cm) 7.58 504 7.36 5/0 7.21 5/5 LABORATORY REFRIG. PRESERV. 1	Temperature OF) /7.6 /8.9 /9./ INFORMATION YPE LABORATOI	Odor gal. D.O. (mg/L) RY AN R TPH-G(8015)/BTE	ORP (mV)



Add/Replaced Lock: __

WELL MONITORING/SAMPLING **FIELD DATA SHEET**

· · · · · · · · · · · · · · · · · · ·	nevronTexaco	#9-3600	J	_	886895	
ite Address: 22	00 Telegraph		-	vent Date: 👱	1-11-03 K.Kelly	(inclusi
	akland, CA		S	Sampler:	K.Kelly	
Vell ID	MW- <i>3</i>	We	ell Condition:	ØK.		
Vell Diameter	2 in.			3/4*= 0.02	1"= 0.04 2"= 0.17	3°= 0.38
— ∩otal Depth	/7.// ft.		Volume Factor (VF)		5"= 1.02 6"= 1.50	12"= 5.80
Depth to Water	11.09 ft.					307
	6.03 ×V	F 0.17	_= <u>/·VA</u> ;	x3 (case volume) = E	Estimated Purge Volume:	
D Facilitation		Samn	iing Equipment:		Time Started: Time Bailed:	
Purge Equipment:		-	sable Bailer	<u> </u>	Depth to Product:	
Disposable Bailer			socie Bailer sure Bailer		Depth to Water:	
Stainless Steel Bailer			ete Bailer		Hydrocarbon Thicknes	
Stack Pump	·	•	ete baller		Visual Confirmation/D	
Suction Pump		Oute	·		Skimmer / Absorbant	Seek (girde one)
Grundios Other:						kimmer: gal
Other:					Amt Removed from V	
					Product Transferred t	0:
Purging Flow Rate Did well de-water?		If yes, Time	nt Description: e: Conductivity		D.O.	ORP
(2400 hr.)	(gal.)	pH 9′ 4° o	(u mhos/cm)	9 F)	(mg/L)	(mV)
<u> 163</u>	1.0	<u>8.30</u>	369	18.9		
	<i>2.0</i>	8.03	<u> 373 </u>	19.3		
1156						
115b 1158	3.0	787	367	20.2		
		787	367	20.2		
			BORATORY INF	FORMATION		
			BORATORY INF	FORMATION		ALYSES
1158	3.0	LA REFRIG.	BORATORY INF	FORMATION		
1(5%	.3. 0	LA REFRIG.	BORATORY INF	FORMATION	R TPH-G(8015)/BTEX	
1(5%	.3. 0	LA REFRIG.	BORATORY INF	FORMATION	R TPH-G(8015)/BTEX	

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories Where quality is a science.					Acı	:ct. #:	10	91	55	∕ Sa	F ample	or L e #:_	ancasi 3	ter La	aborat 응긴	torie	use - 7	only	/ SCR#:		
Where quality is a science.	011	303-	ODC)									yses 1						13/48	3788	,0
9-3600 Job #38689	5 Global II	#187			Matrix	_x		_				res	ervati	on (Codes	3			Preserva	tive Code:	\$
Facility #:				•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	^		H	Ħ			K			\Box	ļ.,	Ţ		H = HCI	T = Thiose	
Site Address: 2200 TELEGRAPH AVE										율									N = HNO ₃ S = H ₂ SO ₄	B = NaOH O = Other	
Chevron PM: KS Lead	Consultant:	a/G-R 			<u> </u>		2	l.,		Clea									☐ J value report		
Consultant/Office: G-R, Inc., 6747 Sierra	Court, Du	blin, Ca 9	4568		tabi O C		aine	8021 X		g g					1				☐ Must meet lov	vest detectio	on limits
Consultant Pri. Mgr. Deanna L. Harding	(Deanr	na@grinc.	com)		☐ Potable ☐ NPDES	,	of Containers	ΙП		Silica Gel Cleanup		8360		ļ	ļ				possible for 82		ınds
Consultant Phone #925-551-7555	_ Fax #:9:	25-551-78	99			4		8260	8	TPH 8015 MOD DRO			7421						8021 MTBE Con		60
Sampler: Kristina Kelly	 			1		Ā	Total Number	_	Ş	9	 	5 Oxygenates							☐ Confirm all hit		
· · · · · · · · · · · · · · · · · · ·	on SAR:				<u></u>		Z	+ MT	TPH 8015 MOD	2015	ls ≣	δίνο Ο	7420			1			Runoxy		
	Date Collected	Time Collected	ag S	Soil	Water	Oil	Tota	BTEX + MTBE	PH 8	Ŧ	928	4	Lead 7420 [ı		١.			Runoxy	s on all hits	3
Sample Identification	1-11-03	Conscied	X	1	W	_	2	X	X										Comments / F	lemarks	
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mw-2	1 / -		X	Τ			6	X	X			X									
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3460 Rev. 7/30/01

Yes)

Custody Seals Intact?

Temperature Upon Receipt

WIP (RWQCB)

Disk



RECEWED

JAN 2 9 2003

GETTER-MARING. General Contactuum

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 837880. Samples arrived at the laboratory on Wednesday, January 15, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description		Lancaster Labs Number
OA-T-030111	NA Water	3978274
MW-1-W-030111	Grab Water	3978275
MW-2-W-030111	Grab Water	3978276
MW-3-W-030111	Grab Water	3978277

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

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

Respectfully Submitted,

Steven A. Skiles St. Chemist

Analysis Report



Page 1 of 1

Lancaster Laboratories Sample No. WW 3978274

Collected:01/11/2003 00:00

Submitted: 01/15/2003 10:00 Reported: 01/27/2003 at 19:45

Discard: 02/27/2003

QA-T-030111 Facility# 93600 Job# 386895

2200 TELEGRAPH AV-OAKLAND 187

Water

QΑ

Account Number: 10905

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received CAT As Received Dilution Method No. Analysis Name CAS Number Result Detection Units **Factor** Limit 01729 TPH-GRO - Waters 01730 TPH-GRO - Waters n.a. ug/l 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. 08214 BTEX, MTBE (8021) 00776 Benzene 71-43-2 N.D. 0.50 ug/11 00777 Toluene 108-88-3 N.D. 0.50 ug/11 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

GRD

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/16/2003 21:12	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/16/2003 21:12	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/16/2003 21:12	Melissa D Mann	n.a.



Page 1 of 1

Lancaster Laboratories Sample No. WW 3978275

Collected:01/11/2003 00:00 by KK Account Number: 10905

Submitted: 01/15/2003 10:00 ChevronTexaco

Reported: 01/27/2003 at 19:45 6001 Bollinger Canyon Rd L4310

Discard: 02/27/2003 San Ramon CA 94583

MW-1-W-030111 Grab Water

2200 TELEGRAPH AV-OAKLAND 187 MW-1

600M1

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 The reported concentration of TI gasoline constituents eluting pr start time.	n.a. PH-GRO does not rior to the C6	1,600. include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	7.1	0.50	ug/l	1
00777	Toluene	108-88-3	0.51	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	53.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	13.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	280.	2.5	ug/l	1
01595	Oxygenates by 8260B	•				
02010	Methyl Tertiary Butyl Ether	1634-04-4	270.	2.0	ug/l	2.5
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	7.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

CAT		Laboratory	Chro		Dilution	
No.	Analysis Name	Method	Trial#		Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/17/2003 01:32	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/17/2003 01:32	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	01/23/2003 23:59	Kenneth L Boley Jr	1
01595	Oxygenates by 8260B	SW-846 8260B	1	01/24/2003 07:38	Kelly L Hoffer	2.5
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2003 01:32	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/23/2003 23:59	Kenneth L Boley Jr	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	01/24/2003 07:38	Kelly L Hoffer	n.a.

#=Laboratory MethodDetection Limit acceeded larget detection limit N.D.=Not detected at or above the posting kimit

Analysis Report



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Lancaster Laboratories Sample No. 3978276

Account Number: 10905 Collected:01/11/2003 00:00

Submitted: 01/15/2003 10:00 ChevronTexaco

Reported: 01/27/2003 at 19:45 Discard: 02/27/2003 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-2-W-030111 Water

Facility# 93600 Job# 386895 GRD

2200 TELEGRAPH AV-OAKLAND 187 MW-2

600M2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Pactor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of TF gasoline constituents eluting pr start time.				ug/l	1
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
01595	Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/1	1

State of California Lab Certification No. 2116

		Laboratory	' Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	01/16/2003 21:44	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	01/16/2003 21:44	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	01/24/2003 00:25	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030E	1	01/16/2003 21:44	Melissa D Mann	п.а.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/24/2003 00:25	Kenneth L Boley Jr	n.a.

Analysis Report



Page 1 of 1

Lancaster Laboratories Sample No. WW 3978277

Collected:01/11/2003 00:00 by KK Account Number: 10905

Submitted: 01/15/2003 10:00 ChevronTexaco

Reported: 01/27/2003 at 19:45 6001 Bollinger Canyon Rd L4310

Discard: 02/27/2003 San Ramon CA 94583

MW-3-W-030111 Grab Water

Facility# 93600 Job# 386895 GRD

2200 TELEGRAPH AV-OAKLAND 187 MW-3

600M3

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time.	n.a. PH-GRO does no rior to the C6	N.D. t include MTBE o (n-hexane) TPH-	50. r other GRO range	ug/l	1
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
01595	Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	2.	ug/l	1
02010	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02011	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02013	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		Dilution
CAT No. 01729	Analysis Name TPH-GRO - Waters	Method N. CA LUFT Gasoline	Trial# 1	Date and Time 01/16/2003 22:17	Analyst Melissa D Mann	Pactor 1
08214 01595 01146 01163	BTEX, MTBE (8021) Oxygenates by 8260B GC VOA Water Prep GC/MS VOA Water Prep	Method SW-846 8021B SW-846 8260B SW-846 5030B SW-846 5030B	1 1 1	01/16/2003 22:17 01/24/2003 00:52 01/16/2003 22:17 01/24/2003 00:52	Melissa D'Mann Kenneth L Boley Jr Melissa D Mann Kenneth L Boley Jr	l l n.a. n.a.

Lancaster, PA 17605-2425



Page 1 of 2

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 837880

Reported: 01/27/03 at 07:45 PM

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 03015A55B	Sample n	umber(s):	3978274-39	78277				
Benzene	N.D.	. 2	uq/l	98	104	80-118	6	30
Toluene	N.D.	. 2	uq/1	103	110	82-119	6	30
Ethylbenzene	N.D.	.2	ug/1	104	111	81-119	7	30
Total Xylenes	N.D.	.6	ug/l	104	111	82-120	6	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	107	114	79-127	6	30
TPH-GRO - Waters	N.D.	50.	ug/l	102	99	74-116	3	30
Batch number: N030232AA	Sample n	umber(s):	3978275-39	78277				
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	102		77-127		
di-Isopropyl ether	N.D.	. 5	ug/l	92		74-125		
Ethyl t-butyl ether	N.D.	. 5	ug/l	101		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	100		71-114		
t-Butyl alcohol	N.D.	5.	ug/l	81		59-139		
Batch number: N030232AB	Sample n	umber(s):	3978275					
Methyl Tertiary Butyl Ether	N.D.	.5	ug/l	102		77-127		

Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	<u>MAX</u>	Conc	Conc	RPD	Max
Batch number: 03015A55B	Sample	number	(s): 3978274	-39782	77				
Benzene	103	106	83-130	2	30				
Toluene	107	108	87-129	1	30				
Ethylbenzene	106	109	86-133	3	30				
Total Xylenes	106	109	86-132	2	30				
Methyl tert-Butyl Ether	110	110	66-140	0	30				
TPH-GRO - Waters	121	124	74-132	2	30				
Batch number: N030232AA	Sample	number	(s): 3978275	-39782	.77				
Methyl Tertiary Butyl Ether	106	97	69-134	8	30				
di-Isopropyl ether	97	90	68-133	В	30				
Ethyl t-butyl ether	106	100	73-123	6	30				
t-Amyl methyl ether	105	97	69-118	7	30				
t-Butyl alcohol	82	78	51-148	5	30				
Batch number: N030232AB	Sample	number	(s): 397827	5					
Methyl Tertiary Butyl Ether	106	97	69-134	8	30				

Surrogate Quality Control

Analysis Name: BTEX, MTBE (8021)

Batch number: 03015A55B

Trifluorotoluene-F

Trifluorotoluene-P

 3978274
 107
 116

 3978275
 129
 121

*- 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, 7200 East 747,656,7681



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Quality Control Summary

Client Na	ame: ChevronTexaco		roup Number: 837880	
Reported	: 01/27/03 at 07:45 P	M Surrogate Qu	ality Control	
	103	115	_	
3978276	107	115		
3978277	107	116		
Blank	102	114		
LCS	110	115		
LCSD	111			
MS	120	118		
MSD	117	' . 117		
Limits:	57-146	71-130		
Analusis N	Name: Oxygenates by 8260B			
But ap nump	er: N030232AA		_ a _ ao	4-Bromofluorobenzene
Batth nume	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	d-BIOMOITEGET OF COLUMN
	DIDIORIOITUOIORICCHARIC			102
3978275	102	94	99	95
	102	96	97	96
3978276	105	98	98	96
3978277		96	97	
Blank	105	97	99	101
LCS	104	98	99	101
MS	104	96 97	99	100
MSD	105	97		
_		20 100	88-110	86-115
Limits:	86-118	80-120	00	
Analysis	Name: 8260 Master Scan (wa	ater)		
Batch num	ber: N030232AB		Toluene-d8	4-Bromofluorobenzene
	Dibromofluoromethane	1,2-Dichloroethane-d4	TOTHESIE GO	
				97
Blank	105	. 100	98	101
LCS	104	97	99	101
MS	104	98	99	100
	105	97	99	100
MSD	103	<u>. </u>		86-115
#75 2 a a	86-118	80-120	88-110	00-11-
Limits:	00-170			

*- 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.

