



GETTLER-RYAN INC

TRANSMITTAL

R2438

Alameda County

NOV 20 2002

November 1, 2002

G-R #386911

Environmental Health

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

CC: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station
#9-2029
890 West MacArthur Blvd.
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 22, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 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 **November 15, 2002**, 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, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
- Mr. Greg Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/9-2029-ks



GETTLER - RYAN INC.

October 22, 2002
G-R Job #386911

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

RE: Third Quarter Event of September 13, 2002
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-2029
890 West MacArthur Boulevard
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

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

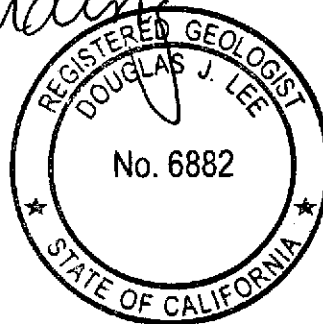
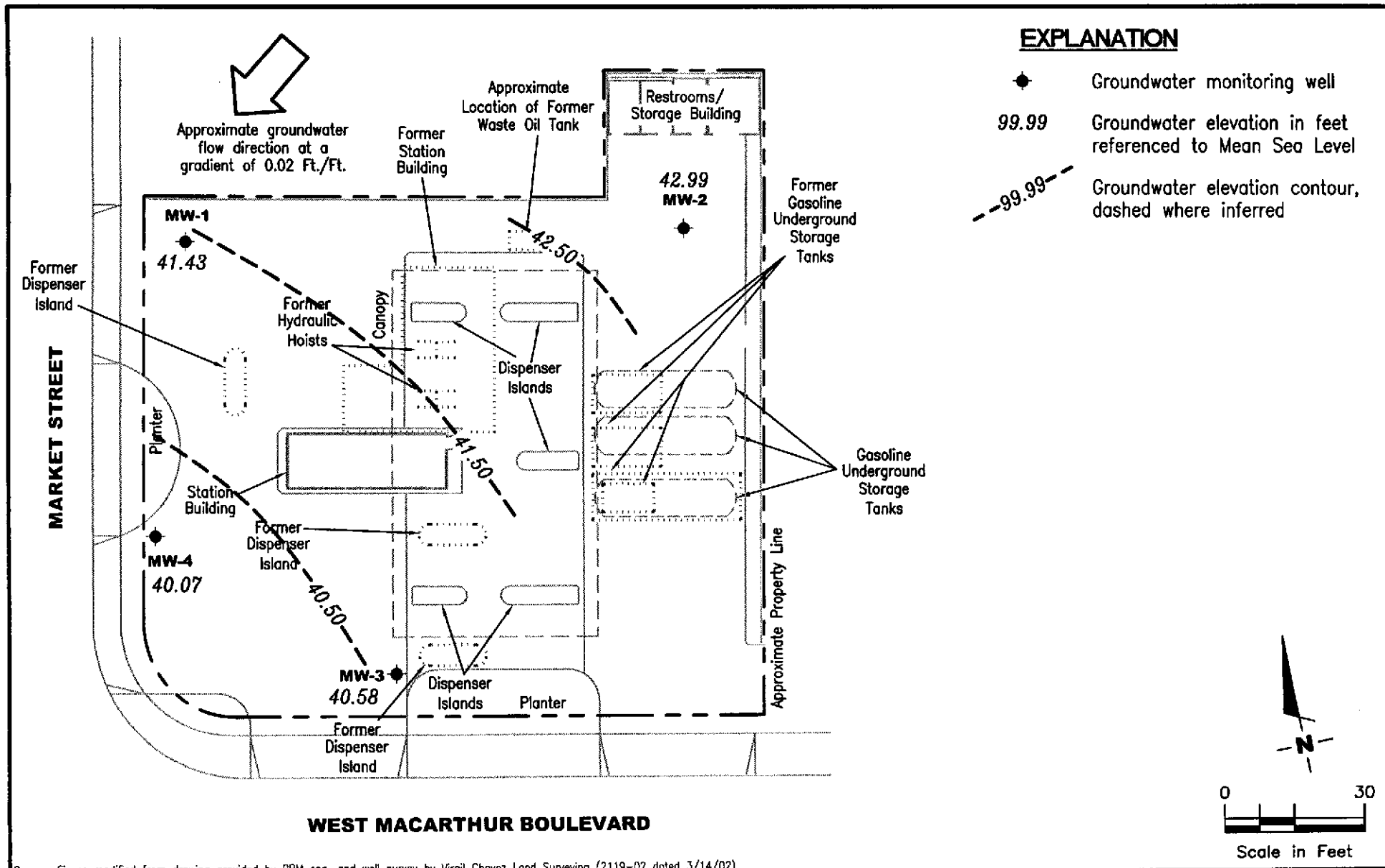


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM eng. and well survey by Virgil Chavez Land Surveying (2119-02 dated 3/14/02).

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

POTENTIOMETRIC MAP
 Chevron Service Station #9-2029
 890 West MacArthur Boulevard
 Oakland, California

FIGURE

1

PROJECT NUMBER
 386911

REVIEWED BY

DATE
 September 13, 2002

REVISED DATE

FILE NAME: P:\ROBIN\002-9-2029.DWG | Layout Tab: Pot3

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-2029
890 West MacArthur Blvd.
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									
50.71	03/12/02 ¹	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
	06/07/02	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
	09/13/02	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
MW-2									
52.57	03/12/02 ¹	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3 ²
	06/07/02	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
	09/13/02	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
MW-3									
50.31	03/12/02 ¹	6.50	43.81	12,000	600	8.5	1,100	370	700/650 ²
	06/07/02	7.74	42.57	14,000	630	8.8	1,200	160	520/490 ²
	09/13/02	9.73	40.58	3,000	270	3.2	200	11	600/640 ²
MW-4									
49.93	03/12/02 ¹	5.34	44.59	9,700	360	5.3	1,100	150	170/170 ²
	06/07/02	8.52	41.41	7,300	170	2.7	280	21	200/120 ²
	09/13/02	9.86	40.07	5,800	92	4.5	80	14	190/160 ²
TRIP BLANK									
QA	03/12/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	06/07/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	09/13/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

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 March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

¹ Well development performed.

² MTBE by EPA method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/12/02	<100	<2	<2	<2	<2	<2	<2
	06/07/02	<100	<2	<2	<2	<2	<2	<2
	09/13/02	<100	<2	<2	<2	<2	<2	<2
MW-2	03/12/02	<100	3	<2	<2	<2	<2	<2
	06/07/02	<100	<2	<2	<2	<2	<2	<2
	09/13/02	<100	<2	<2	<2	<2	<2	<2
MW-3	03/12/02	<100	650	<2	<2	18	<2	<2
	06/07/02	230	490	<5.0	<5.0	11	<5.0	<5.0
	09/13/02	170	640	<2	<2	8	<2	<2
MW-4	03/12/02	<100	170	<2	<2	13	<2	<2
	06/07/02	<100	120	<2	<2	14	<2	<2
	09/13/02	<100	160	<2	<2	14	<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
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 9.13.02
 City: Oakland, CA Sampler: FT

Well ID: MW-1 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 24.80 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 9.28 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

15.52 xVF .17 = 2.63 x3 (case volume) = Estimated Purge Volume: 7.91 gal.

Purge Equipment: Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment: Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Start Time (purge): 9:22 Weather Conditions: FOG
 Sample Time/Date: 9:35 / 9.13.02 Water Color: CLEAR Odor: NO
 Purging Flow Rate: 1.5 gpm. Sediment Description: _____
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>9:24</u>	<u>2.5</u>	<u>7.04</u>	<u>231</u>	<u>18.9</u>		
<u>9:26</u>	<u>5.0</u>	<u>7.02</u>	<u>147</u>	<u>19.2</u>		
<u>9:28</u>	<u>8.0</u>	<u>6.98</u>	<u>136</u>	<u>19.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x vovial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8021)/ 7 OXYS(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 9.13.02
 City: Oakland, CA Sampler: FT

Well ID: MW-2 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 24.70 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 9.58 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

15.12 xVF .17 = 2.57 x3 (case volume) = Estimated Purge Volume: 7.71 gal.

Purge Equipment: Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment: Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Start Time (purge): 9:50 Weather Conditions: FOG
 Sample Time/Date: 10:07 / 9.13.02 Water Color: CLOUDY/LT. TAN Odor: NO
 Purging Flow Rate: 1.5 gpm. Sediment Description: LITE SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>9:52</u>	<u>2.5</u>	<u>7.09</u>	<u>76</u>	<u>19.6</u>	_____	_____
<u>9:54</u>	<u>5.0</u>	<u>7.07</u>	<u>81</u>	<u>20.2</u>	_____	_____
<u>9:56</u>	<u>8.0</u>	<u>7.06</u>	<u>77</u>	<u>20.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)/ 7 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 9.13.02
 City: Oakland, CA Sampler: FT

Well ID: MW-3 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
 Total Depth: 24.53 ft.
 Depth to Water: 9.73 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

14.90 xVF .17 = 2.53 x3 (case volume) = Estimated Purge Volume: 7.59 gal.

Purge Equipment: Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump
 Suction Pump
 Grundfos _____
 Other: _____

Sampling Equipment: Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Start Time (purge): 10:58 Weather Conditions: FOG
 Sample Time/Date: 11:15 / 9.13.02 Water Color: CLOUDY/LT. GRAY Odor: YES/STRONG
 Purging Flow Rate: 2.0 gpm. Sediment Description: SLIGHTLY SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>11:00</u>	<u>2.5</u>	<u>7.10</u>	<u>93</u>	<u>22.4</u>		
<u>11:02</u>	<u>5.0</u>	<u>7.09</u>	<u>92</u>	<u>22.1</u>		
<u>11:04</u>	<u>7.5</u>	<u>7.06</u>	<u>94</u>	<u>21.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)/ 7 OXYS(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-2029 Job Number: 386911
 Site Address: 890 West MacArthur Blvd. Event Date: 9.13.02
 City: Oakland, CA Sampler: FT

Well ID: MW-4 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 24.64 ft. Thickness: 0 ft. (product/water): 0 gal.
 Depth to Water: 9.86 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

14.78 xVF .17 = 2.51 x3 (case volume) = Estimated Purge Volume: 7.53 gal.

Purge Equipment: Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump
 Suction Pump
 Grundfos _____
 Other: _____

Sampling Equipment: Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Start Time (purge): 10:31 Weather Conditions: FOG
 Sample Time/Date: 10:45 / 9.13.02 Water Color: CLOUDY/LT GRN Odor: YES / STRONG
 Purging Flow Rate: 2.0 gpm. Sediment Description: _____
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>10:33</u>	<u>2.5</u>	<u>7.09</u>	<u>83</u>	<u>21.9</u>	_____	_____
<u>10:35</u>	<u>5.0</u>	<u>7.06</u>	<u>86</u>	<u>21.7</u>	_____	_____
<u>10:37</u>	<u>7.5</u>	<u>7.04</u>	<u>84</u>	<u>21.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)/ 7 OXYS(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 10905 Sample #: 3299849-53/823025 SCR#:

091662-008

Facility #: 9-2029 Job #386911 Global ID#NA
 Site Address: 890 West MacArthur Blvd., OAKLAND, CA
 Chevron PM: Streich Lead Consultant: DELTA/G-R
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568
 Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: FRANK TERRINONI
 Service Order #: _____ Non SAR: _____

Matrix		Analyses Requested																
		Preservation Codes																
Potable	NPDES	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021A	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	8260	Lead 7420	7421	
<input type="checkbox"/>	<input type="checkbox"/>																	

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ 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	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021A	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	8260	Lead 7420	7421	
<u>QA</u>	<u>9-13-02</u>																				
<u>MW-1</u>		<u>0935</u>	<u>X</u>						<u>6</u>	<u>X</u>	<u>X</u>							<u>X</u>			
<u>MW-2</u>		<u>1007</u>	<u>X</u>						<u>6</u>	<u>X</u>	<u>X</u>							<u>X</u>			
<u>MW-3</u>		<u>1115</u>	<u>X</u>						<u>6</u>	<u>X</u>	<u>X</u>							<u>X</u>			
<u>MW-4</u>		<u>1045</u>	<u>X</u>						<u>6</u>	<u>X</u>	<u>X</u>							<u>X</u>			

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

Relinquished by: <u>Frank Terini</u>	Date: <u>9-13-02</u>	Time: _____	Received by: <u>Vanna</u>	Date: <u>9/16</u>	Time: <u>1250</u>
Relinquished by: <u>Vanna</u>	Date: <u>9/16</u>	Time: <u>1250</u>	Received by: <u>Cheshamaye</u>	Date: <u>9-16-02</u>	Time: <u>1250</u>
Relinquished by: <u>Cheshamaye</u>	Date: <u>9-16-02</u>	Time: <u>1530</u>	Received by: <u>Airborne</u>	Date: <u>9-16-02</u>	Time: _____
Relinquished by Commercial Carrier: <u>Airborne</u>	UPS FedEx Other: <u>Airborne</u>	Temperature Upon Receipt: <u>3-3.5 C</u>	Received by: <u>Debbie Y. Khan</u>	Date: <u>9/16/02</u>	Time: <u>0910</u>
Custody Seals Intact? <u>Yes</u> No					



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 823025. Samples arrived at the laboratory on Tuesday, September 17, 2002. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-020913	NA	Water	3899849
MW-1-W-020913	Grab	Water	3899850
MW-2-W-020913	Grab	Water	3899851
MW-3-W-020913	Grab	Water	3899852
MW-4-W-020913	Grab	Water	3899853

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,


Robert E. Mellinger
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 3899849

Collected: 09/13/2002 00:00

Account Number: 10905

Submitted: 09/17/2002 09:05
 Reported: 09/30/2002 at 16:25
 Discard: 10/31/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

QA-T-020913 NA Water
 Facility# 92029 Job# 386911 GRD
 890 W MACARTHUR BLVD 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			Dilution Factor
			Trial#	Date and Time	Analyst	
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/17/2002 20:50	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/17/2002 20:50	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2002 20:50	Anastasia Papadoplos	n.a.

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



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



Lancaster Laboratories Sample No. **WW 3899850**

Collected: 09/13/2002 09:35 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05
 Reported: 09/30/2002 at 16:26
 Discard: 10/31/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-1-W-020913 Grab Water
 Facility# 92029 Job# 386911 GRD
 890 W MACARTHUR BLVD NA MW-1

029M1

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.						
01595	Oxygenates by 8260B					
02010	Methyl t-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/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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	09/18/2002 00:53	Anastasia Papadopoulos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/18/2002 00:53	Anastasia Papadopoulos	1
01595	Oxygenates by 8260B	SW-846 8260B	1	09/23/2002 00:08	Susan McMahon-Luu	1

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



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Lancaster Laboratories Sample No. WW 3899850

Collected: 09/13/2002 09:35 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05

ChevronTexaco

Reported: 09/30/2002 at 16:26

6001 Bollinger Canyon Rd L4310

Discard: 10/31/2002

San Ramon CA 94583

MW-1-W-020913 Grab Water
Facility# 92029 Job# 386911 GRD
890 W MACARTHUR BLVD NA MW-1

029M1

01146	GC VOA Water Prep	SW-846 5030B	1	09/18/2002 00:53	Anastasia Papadopoulos	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/23/2002 00:08	Susan McMahon-Luu	n.a.

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Lancaster Laboratories Sample No. **WW 3899851**

Collected: 09/13/2002 10:07 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05
 Reported: 09/30/2002 at 16:26
 Discard: 10/31/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-2-W-020913 Grab Water
 Facility# 92029 Job# 386911 GRD
 890 W MACARTHUR BLVD NA MW-2

029M2

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.						
01595	Oxygenates by 8260B					
02010	Methyl t-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/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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	09/18/2002 01:26	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/18/2002 01:26	Anastasia Papadoplos	1
01595	Oxygenates by 8260B	SW-846 8260B	1	09/23/2002 00:34	Susan McMahon-Luu	1

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 N.D.=Not detected above the Reporting Limit



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Page 2 of 2

Lancaster Laboratories Sample No. WW 3899851

Collected: 09/13/2002 10:07 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05

Reported: 09/30/2002 at 16:26

Discard: 10/31/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-2-W-020913 Grab Water
Facility# 92029 Job# 386911 GRD
890 W MACARTHUR BLVD NA MW-2

029M2

01146	GC VOA Water Prep	SW-846 5030B	1	09/18/2002 01:26	Anastasia Papadopoulos	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/23/2002 00:34	Susan McMahon-Luu	n.a.

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



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Lancaster Laboratories Sample No. **WW 3899852**

Collected: 09/13/2002 11:15 by FT Account Number: 10905

Submitted: 09/17/2002 09:05
 Reported: 09/30/2002 at 16:26
 Discard: 10/31/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-3-W-020913 Grab Water
 Facility# 92029 Job# 386911 GRD
 890 W MACARTHUR BLVD NA MW-3

029M3

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.	3,000.	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	270.	0.50	ug/l	1
00777	Toluene	108-88-3	3.2	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	200.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	11.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	600.	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.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	640.	3.0	ug/l	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	8.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	170.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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	1	09/18/2002 01:59	Anastasia Papadopoulos	1
08214	BTEX, MTBE (8021)	Method SW-846 8021B	1	09/18/2002 01:59	Anastasia Papadopoulos	1
01595	Oxygenates by 8260B	SW-846 8260B	1	09/23/2002 04:03	Susan McMahon-Luu	1

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Lancaster Laboratories Sample No. WW 3899852

Collected: 09/13/2002 11:15 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05

ChevronTexaco

Reported: 09/30/2002 at 16:26

6001 Bollinger Canyon Rd L4310

Discard: 10/31/2002

San Ramon CA 94583

MW-3-W-020913

Grab

Water

Facility# 92029 Job# 386911

GRD

890 W MACARTHUR BLVD

NA

MW-3

029M3

01595 Oxygenates by 8260B

SW-846 8260B

1 09/25/2002 11:59

John B Kiser

5

01146 GC VOA Water Prep

SW-846 5030B

1 09/18/2002 01:59

Anastasia Papadopoulos

n.a.

01163 GC/MS VOA Water Prep

SW-846 5030B

2 09/23/2002 01:26

Susan McMahon-Luu

n.a.

01163 GC/MS VOA Water Prep

SW-846 5030B

3 09/25/2002 11:59

John B Kiser

n.a.

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



Lancaster Laboratories, Inc.
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Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. **WW 3899853**

Collected: 09/13/2002 10:45 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05

ChevronTexaco

Reported: 09/30/2002 at 16:26

6001 Bollinger Canyon Rd L4310

Discard: 10/31/2002

San Ramon CA 94583

MW-4-W-020913

Grab

Water

Facility# 92029 Job# 386911

GRD

890 W MACARTHUR BLVD

NA

MW-4

029M4

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.	5,800.	250.	ug/l	5
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	92.	1.0	ug/l	5
00777	Toluene	108-88-3	4.5	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	80.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	14.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	190.	2.5	ug/l	5
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	160.	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	14.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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	1	09/18/2002 04:43	Anastasia Papadoplos	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/18/2002 04:43	Anastasia Papadoplos	5
01595	Oxygenates by 8260B	SW-846 8260B	1	09/23/2002 04:29	Susan McMahon-Luu	1

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Page 2 of 2

Lancaster Laboratories Sample No. WW 3899853

Collected: 09/13/2002 10:45 by FT

Account Number: 10905

Submitted: 09/17/2002 09:05

ChevronTexaco

Reported: 09/30/2002 at 16:26

6001 Bollinger Canyon Rd L4310

Discard: 10/31/2002

San Ramon CA 94583

MW-4-W-020913

Grab

Water

Facility# 92029

Job# 386911

GRD

890 W MACARTHUR BLVD

NA

MW-4

029M4

01146 GC VOA Water Prep

SW-846 5030B

1

09/18/2002 04:43

Anastasia Papadoplos

n.a.

01163 GC/MS VOA Water Prep

SW-846 5030B

1

09/23/2002 04:29

Susan McMahon-Luu

n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected above the Reporting Limit



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



Quality Control Summary

Client Name: ChevronTexaco
 Reported: 09/30/02 at 04:26 PM

Group Number: 823025

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: 02260A51A	Sample number(s): 3899849-3899852							
Benzene	N.D.	.2	ug/l	109	103	80-118	6	30
Toluene	N.D.	.2	ug/l	115	107	82-119	8	30
Ethylbenzene	N.D.	.2	ug/l	105	98	81-119	7	30
Total Xylenes	N.D.	.6	ug/l	109	102	82-120	7	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	101	100	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	107	101	74-116	5	30
Batch number: 02260A51B	Sample number(s): 3899853							
Benzene	N.D.	.2	ug/l	109	103	80-118	6	30
Toluene	N.D.	.2	ug/l	115	107	82-119	8	30
Ethylbenzene	N.D.	.2	ug/l	105	98	81-119	7	30
Total Xylenes	N.D.	.6	ug/l	109	102	82-120	7	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	101	100	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	107	101	74-116	5	30
Batch number: N022651AA	Sample number(s): 3899850-3899853							
Methyl t-butyl ether	N.D.	.5	ug/l	106		77-127		
di-Isopropyl ether	N.D.	.5	ug/l	93		74-125		
Ethyl t-butyl ether	N.D.	.5	ug/l	91		74-120		
t-Amyl methyl ether	N.D.	.5	ug/l	92		71-114		
t-Butyl alcohol	N.D.	.5	ug/l	102		59-139		
1,2-Dichloroethane	N.D.	.5	ug/l	101		77-132		
1,2-Dibromoethane	N.D.	.5	ug/l	91		81-114		
Batch number: N022651AB	Sample number(s): 3899852							
Methyl t-butyl ether	N.D.	.5	ug/l	106		77-127		

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: 02260A51A	Sample number(s): 3899849-3899852							
Benzene	106		83-130					
Toluene	105		87-129					
Ethylbenzene	103		86-133					
Total Xylenes	106		86-132					
Methyl tert-Butyl Ether	95		66-140					
TPH-GRO - Waters	100		74-132					
Batch number: 02260A51B	Sample number(s): 3899853							
Benzene	106		83-130					
Toluene	105		87-129					
Ethylbenzene	103		86-133					
Total Xylenes	106		86-132					
Methyl tert-Butyl Ether	95		66-140					
TPH-GRO - Waters	100		74-132					
Batch number: N022651AA	Sample number(s): 3899850-3899853							
Methyl t-butyl ether	108	108	69-134	1	30			
di-Isopropyl ether	97	97	68-133	0	30			

*- 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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 PO Box 12425
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Quality Control Summary

Client Name: ChevronTexaco
 Reported: 09/30/02 at 04:26 PM

Group Number: 823025

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD
								RPD
Ethyl t-butyl ether	94	95	73-123	1	30			Max
t-Amyl methyl ether	95	95	69-118	1	30			
t-Butyl alcohol	104	103	51-148	1	30			
1,2-Dichloroethane	105	106	73-136	1	30			
1,2-Dibromoethane	95	96	78-120	1	30			
Batch number: N022651AB		Sample number(s): 3899852						
Methyl t-butyl ether	108	108	69-134	1	30			

Surrogate Quality Control

Analysis Name: BTEX, MTBE (8021)
 Batch number: 02260A51A

	Trifluorotoluene-F	Trifluorotoluene-F
3899849	85	92
3899850	86	92
3899851	89	94
3899852	107	126
Blank	87	94
LCS	99	94
LCSD	96	93
MS	98	94
Limits: 57-146		71-130

Analysis Name: BTEX, MTBE (8021)
 Batch number: 02260A51B

	Trifluorotoluene-F	Trifluorotoluene-F
3899853	109	116
Blank	85	93
LCS	99	94
LCSD	96	93
MS	98	94
Limits: 57-146		71-130

Analysis Name: Oxygenates by 8260B
 Batch number: N022651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3899850	102	93	96	96
3899851	102	93	96	96
3899852	99	89	97	100
3899853	98	90	98	99
Blank	103	95	96	96
LCS	100	93	98	100
MS	100	93	98	100
MSD	99	92	98	100

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/30/02 at 04:26 PM

Group Number: 823025

Surrogate Quality Control

Limits:	86-118	80-120	88-110	86-115
Analysis Name:	8260 Master Scan (water)			
Batch number:	N022651AB			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	103	91	97	96
LCS	100	93	98	100
MS	100	93	98	100
MSD	99	92	98	100
Limits:	86-118	80-120	88-110	86-115

*- 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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