Chevron

Satya P. Sinha
Project Manager
Retail and Terminal
Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road,
Room K2256
San Ramon, CA 94583
Tel (925) 842-9876
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satyasinha@chevron.com

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RE: Chevron Service Station # 20-6145

Address 800 Center St., Oakland, CA

I have reviewed the attached report dated 10/01/07.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b) (1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Satya P. Sinha

Satya P. Sinha

Attachment: Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

October 1, 2007

Ms. Donna Drogos
Hazardous Materials Specialist
Alameda County Environmental Health Services (ACEHS)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Third Multi-Level Groundwater Monitoring Report**
Former Signal Oil Service Station (Chevron Site #20-6145)
800 Center Street
Oakland, California
Fuel Leak Case No. RO0000454

Dear Ms. Drogos:

Conestoga-Rovers & Associates (CRA) is submitting this *3rd Multi-Level Groundwater Monitoring Report* on behalf of Chevron Environmental Management Company (Chevron) in response to a February 6, 2007 letter from ACEHS (Attachment A). A site summary, a description of the current monitoring activities and conclusions are summarized below.

SITE SUMMARY

Site Description: The site is a former Signal Oil gasoline service station located on the northeastern corner of the intersection of 8th Street and Center Street in Oakland, California. Local topography is relatively flat and the site is approximately 15 feet above mean sea level (Figure 1). The site is currently undeveloped. Both commercial and residential properties are located in the vicinity of the site. The site was first developed as a service station in 1932. Four 1,000-gallon fuel underground storage tanks (USTs) and one used oil UST were installed when the site was built. These USTs were removed in 1973 when the station was closed. The nearest surface water body is Oakland Inner Harbor, located approximately 1 mile south of the site.

THIRD EVENT MULTI-LEVEL MONITORING ACTIVITIES

Groundwater Gauging and Sampling: Gettler-Ryan, Inc. (GR) of Dublin, California gauged and sampled groundwater monitoring wells MW-9 through MW-17 on August 17, 2007 (Figure 2). Groundwater samples were submitted for analysis to Lancaster Laboratories in Lancaster, Pennsylvania. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd)

by modified EPA Method 8015B and benzene, toluene, ethylbenzene and xylenes (BTEX), by EPA Method 8021B.

Analytical Results: The maximum TPHg and TPHd concentrations detected in groundwater were 8,200 micrograms per liter (µg/L) and 640 µg/L, respectively, in well MW-16, screened from 55-60 feet below grade (fbg). Benzene was detected at a maximum concentration of 110 µg/L in well MW-16, screened from 55-60 fbg. Hydrocarbon concentrations decreased during the third sampling event. Table 1 summarizes the analytic results with a comparison to the San Francisco Bay Regional Water Quality Control Board's environmental screening levels (ESLs) for groundwater (where groundwater is not a potential or current source of drinking water) as presented in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, February 2005.* Groundwater analytic results are included as Attachment B.

CONCLUSIONS

Three groundwater sampling events have been performed on groundwater monitoring wells MW-9 through MW-17. CRA recommends that wells MW-9 through MW-17 be included in the quarterly monitoring and sampling program and recommend for this to begin in the Fourth Quarter 2007. A Feasibility Study/Corrective Action Plan, as requested by ACEHS, will be submitted under separate cover by November 1, 2007.

CLOSING

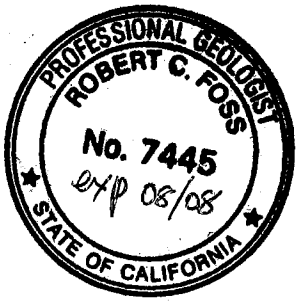
If you have any questions or comments, please contact Charlotte Evans at (510) 420-3351 or Satya Sinha of Chevron at (925) 842-9876.

Sincerely,

Conestoga-Rovers & Associates

Charlotte Evans

Robert Foss, CA. P.G. No. 7445



Figures: 1 – Vicinity Map
2 – Site Plan

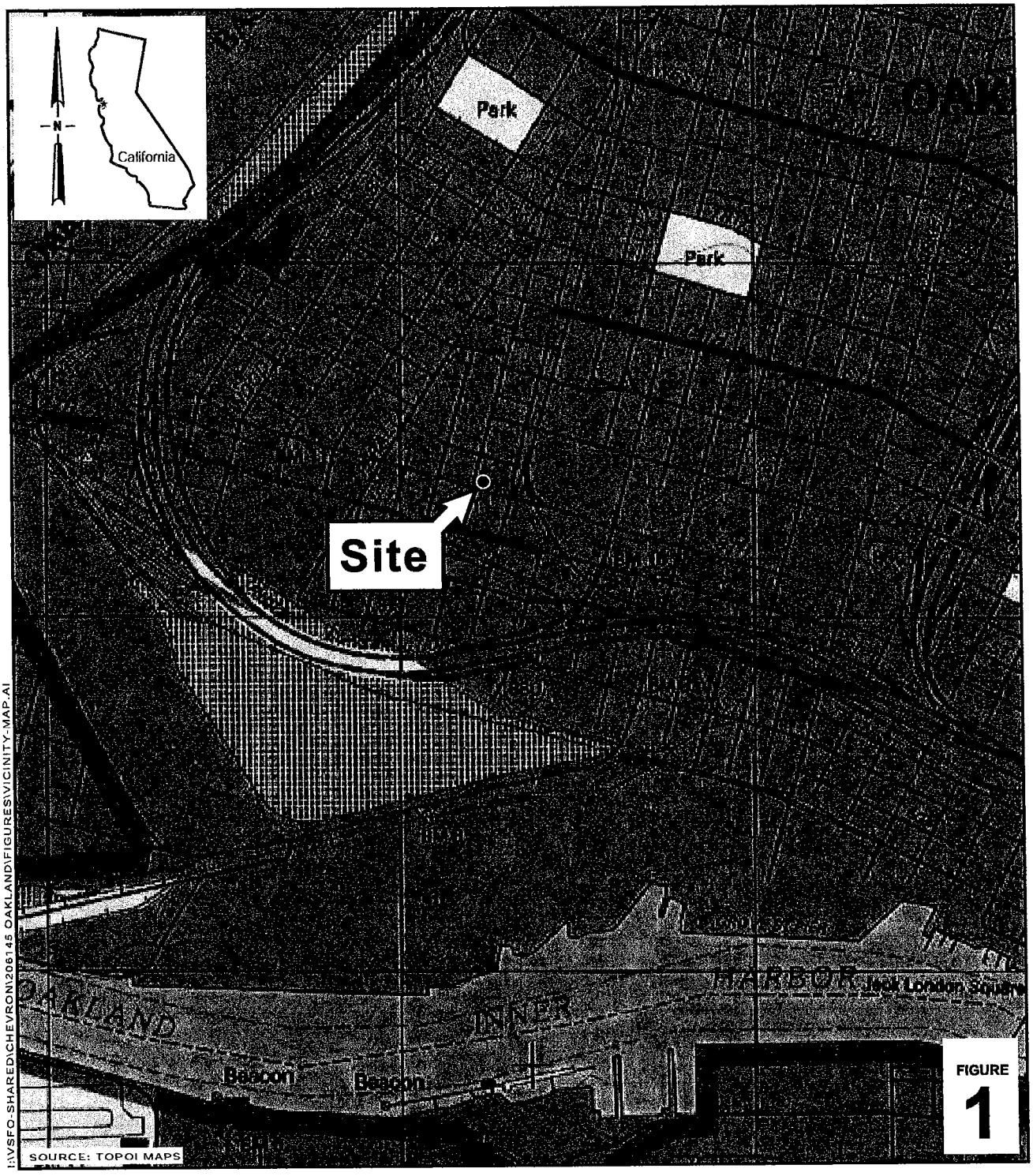
Tables: 1 – Analytic Results for Groundwater

Attachments: A – Regulatory Correspondence
B – Groundwater Analytic Data

cc: Mr. Satya Sinha, Chevron Environmental Management Company, P.O. Box 6012, San Ramon, CA 94583
Mr. Rene Boisvert. 800 Center LLC, 484 Lake Park Avenue #246, Oakland, CA 94610

I:\Chevron\206145 Oakland\GW Data\Deep Wells\206145 3rd event.10.07.doc

05/14/07



I:\VSFO-SHARED\CHEVRON\206145 OAKLAND\FIGURES\VICINITY-MAP.AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Chevron Station No. 206145

800 Center Street

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

08/14/07

Site Plan

MW-8

MW-6

MW-5

CENTER STREET

CONC. SIDEWALK

RAMP

RAMP

DWY

DWY

3.5" PIPE VERT O

LANDSCAPE

CONC. SIDEWALK

MW-1A

MW-3

MW-13

MW-14

MW-10

MW-9

ADJACENT STRUCTURE

MW-4

DWY

DWY

LANDSCAPE

MW-12

MW-11

MW-17

MW-16

MW-15

MW-2

ORIGINAL PROPERTY LINE

CONC. SLAB

MW-7

CURRENT PROPERTY LINE

8TH STREET

W

N

S

E

Groundwater Flow Direction
(11/03 through 11/08)

EXPLANATION

MW-1A ✦ Monitoring well location

N

0 10 20 40

Scale (ft)

I:\SFO-S1\SHARED\CHEVRON\20\6145 OAKLAND\FIGURES\20-6145_WELLS_SITEPLAN.DWG

CRA

CONESTOGA-ROVERS & ASSOCIATES

Former Chevron Station No. 20-6145

800 Center Street

Oakland, California

FIGURE

2

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Analytic Results for Groundwater - Former Signal Oil Service Station 20-6145
800 Center Street, Oakland, CA

Sample ID	Sample Date	Interval (fbg)	TPHd	TPHg	B	T	E	X
			Concentrations reported in micrograms per liter (µg/l)					
MW-9	04/20/07	35-40	**1,100**	**4,100**	28	6.9	9.2	**240**
	06/22/07		**310**	**500**	4.4	<0.5	<0.5	**12**
	08/17/07		92	<50	<0.5	<0.5	<0.5	<1.5
MW-10	04/20/07	55-60	260	**1,200**	29	31	11	**140**
	06/22/07		110	<50	1.5	<0.5	<0.5	<1.5
	08/17/07		53	<50	<0.5	<0.5	<0.5	<1.5
MW-11	04/20/07	35-40	350	77	<2.0	4.6	<0.5	3.2
	06/22/07		140	51	<0.5	<0.5	<0.5	<1.5
	08/17/07		<50	<50	<0.5	<0.5	<0.5	<1.5
MW-12	04/20/07	55-60	430	400	2.3	40	14	49
	06/22/07		390	<50	0.7	1.1	<0.5	4.3
	08/17/07		<50	<50	<0.5	<0.5	<0.5	<1.5
MW-13	04/20/07	35-40	140	**650**	16	23	7.5	61
	06/22/07		400	**<50**	0.6	0.9	<0.5	<1.5
	08/17/07		<50	<50	<0.5	<0.5	<0.5	<1.5
MW-14	04/20/07	55-60	**2,000**	**16,000**	**550**	**1,600**	**620**	**2,400**
	06/22/07		**1,300**	**3,700**	**190**	**150**	**49**	**580**
	08/17/07		**780**	**2,600**	**74**	54	11	**220**
MW-15	04/20/07	35-40	**720**	240	1.0	1.3	<0.5	20
	06/22/07		**150**	<50	<0.5	<0.5	<0.5	<1.5
	08/17/07		<50	<50	<0.5	<0.5	<0.5	<1.5
MW-16	04/20/07	55-60	**2,200**	**15,000**	**87**	**1,200**	**500**	**2,000**
	06/22/07		**2,100**	**10,000**	**130**	**1,800**	**580**	**1,400**
	08/17/07		**640**	**8,200**	**110**	**1,400**	280	**730**
MW-17	04/20/07	70-75	**1,300**	**7,400**	**66**	**880**	**300**	**1,300**
	06/22/07		**690**	**2,000**	**35**	**27**	**9.3**	**360**
	08/17/07		240	380	6.7	2.3	0.5	15
ESL's			**640**	**500**	**46**	**130**	**290**	**100**

Abbreviations/Notes:
Total Petroleum Hydrocarbons as diesel (TPHd) by EPA Method 8015M w/ silica gel cleanup
Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method 8015M
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B
fbg = feet below grade
<x = Not detected above method detection limit
ESL = Environmental screening level (where groundwater is not a potential or current source of drinking water)
All ESL values taken from the SFB-RWQCB's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, dated February 2005

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 6, 2007

Mr. Satya Sinha
Chevron Environmental Management
6001 Bollinger Canyon Rd., Room K2256
San Ramon, CA 94583

Mr. Rene Boisvert
Boulevard Equity Group
484 Lakepark Ave. #246
Oakland, CA 94610

Dear Messrs. Sinha and Boisvert:

Subject: Fuel Leak Case No. RO0000454, Chevron #20-6145 / SIGNAL SS,
800 Center St., Oakland CA 94607

Alameda County Environmental Health (ACEH) staff has recently reviewed the case file for the subject site and has determined that additional work is necessary to progress the site towards closure. After our 11/9/06 meeting with both of you and Brown & Caldwell, it appeared that the proposed excavation of the site was not proceeding, however, it was unclear what direction the site investigation would be moving towards. We discussed verification sampling to confirm the original vertical contaminant profile. No other specific remediation was proposed at that time. The alternative of taking soil vapor samples and installing a vapor barrier were also discussed, however, given the residual contamination at this site, this alternative is not acceptable if residential housing is proposed. Please address the following technical comments and submit the technical reports requested below.

TECHNICAL COMMENTS

1. Assuming that confirmation sampling is still intended to verify the vertical extent of contamination, please submit a work plan to take current depth discrete soil and groundwater samples. Please include a table and figure indicating the previous data and the locations of the confirmation samples.
2. If the previously approved dewatering and excavation is not going to be done, please explain specifically the reasons why. Please keep in mind that Fund reimbursement is not an acceptable reason. Please submit a new Feasibility Study/Corrective Action Plan. The FS/CAP should be able to meet clean-up goals consistent with the future property use in a timely manner.

TECHNICAL REPORT REQUEST

Please submit the following technical reports according to the following schedule:

- March 6, 2007- Work Plan for Re-sampling Site
- March 6, 2007- FS/CAP

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at barney.chan@acgov.org.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6765.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: files, D. Drogos
Ms. Charlotte Evans, Cambria Environmental, 5900 Hollis St., Suite A, Emeryville, CA 94608
Mr. Hollis Rodgers, 215 W. MacArthur Blvd., Apt. #434, Oakland, CA 94611
2_6_07 800Center St

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT B

Groundwater Analytic Results

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
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 1052181. Samples arrived at the laboratory on Saturday, August 18, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

Client Description			Lancaster Labs Number
MW-9-W-070817	Grab	Water	5132233
MW-10-W-070817	Grab	Water	5132234
MW-11-W-070817	Grab	Water	5132235
MW-12-W-070817	Grab	Water	5132236
MW-13-W-070817	Grab	Water	5132237
MW-14-W-070817	Grab	Water	5132238
MW-15-W-070817	Grab	Water	5132239
MW-16-W-070817	Grab	Water	5132240
MW-17-W-070817	Grab	Water	5132241

ELECTRONIC COPY TO CRA c/o Gettler-Ryan Attn: Cheryl Hansen

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Martha L. Seidel

Martha L. Seidel
Senior Chemist

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5132233

MW-9-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-9
Collected:08/17/2007 11:00 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO09
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	92.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 05:26	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 01:33	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 01:33	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 01:33	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5132234

MW-10-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-10
Collected:08/17/2007 11:35 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO10
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	53.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 05:48	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 02:06	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 02:06	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 02:06	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5132235

MW-11-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-11
Collected:08/17/2007 12:40 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO11
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 06:11	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 02:39	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 02:39	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 02:39	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5132236

MW-12-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-12
Collected:08/17/2007 11:45 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO12
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 06:33	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 03:12	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 03:12	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 03:12	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5132237

MW-13-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-13
Collected:08/17/2007 13:10 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO13
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 06:57	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 23:12	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 23:12	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 23:12	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5132238

MW-14-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-14
Collected:08/17/2007 12:40 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO14
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	780.	50.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	2,600.	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.					
05879	BTEX					
02161	Benzene	71-43-2	74.	0.5	ug/l	1
02164	Toluene	108-88-3	54.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	11.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	220.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 17:31	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/21/2007 23:45	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/21/2007 23:45	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/21/2007 23:45	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5132239

MW-15-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-15
Collected:08/17/2007 10:50 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO15
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
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.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 07:42	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/22/2007 00:18	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/22/2007 00:18	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2007 00:18	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5132240

MW-16-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-16
Collected:08/17/2007 11:00 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO16
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	640.	50.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	8,200.	500.	ug/l	10
	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.					
05879	BTEX					
02161	Benzene	71-43-2	110.	5.0	ug/l	10
02164	Toluene	108-88-3	1,400.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	280.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	730.	15.	ug/l	10

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 08:05	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/22/2007 07:59	Martha L Seidel	10
05879	BTEX	SW-846 8021B	1	08/22/2007 07:59	Martha L Seidel	10
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2007 07:59	Martha L Seidel	10
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5132241

MW-17-W-070817 Grab Water
Facility# 206145 Job# 386492 GRD
800 Center Street-Oakland T0600102230 MW-17
Collected:08/17/2007 09:15 by AC

Account Number: 10904

Submitted: 08/18/2007 09:45
Reported: 09/04/2007 at 15:16
Discard: 10/05/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CSO17
I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	n.a.	240.	50.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	380.	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.					
05879	BTEX					
02161	Benzene	71-43-2	6.7	0.5	ug/l	1
02164	Toluene	108-88-3	2.3	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	15.	1.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	08/31/2007 08:27	Diane V Do	1
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	08/22/2007 00:50	Martha L Seidel	1
05879	BTEX	SW-846 8021B	1	08/22/2007 00:50	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2007 00:50	Martha L Seidel	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	08/21/2007 11:00	Jessica Agosto	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Group Number: 1052181
Reported: 09/04/07 at 03:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07231A51B	Sample number(s): 5132233-5132236							
TPH-GRO - Waters	N.D.	50.	ug/l	114	123	75-135	7	30
Benzene	N.D.	0.5	ug/l	99	101	86-119	2	30
Toluene	N.D.	0.5	ug/l	99	97	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	99	97	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	100	97	82-120	3	30
Batch number: 072320019A	Sample number(s): 5132233-5132241							
TPH-DRO (Water) w/Si Gel	N.D.	29.	ug/l	106	109	63-119	2	20
Batch number: 07233A51A	Sample number(s): 5132237-5132241							
TPH-GRO - Waters	N.D.	50.	ug/l	107	113	75-135	6	30
Benzene	N.D.	0.5	ug/l	96	101	86-119	5	30
Toluene	N.D.	0.5	ug/l	96	97	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	97	98	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	97	99	82-120	2	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07231A51B	Sample number(s): 5132233-5132236 UNSPK: P132189, P132190								
TPH-GRO - Waters	137		63-154						
Benzene	104		78-131						
Toluene	110		78-129						
Ethylbenzene	106		75-133						
Total Xylenes	108		84-131						
Batch number: 07233A51A	Sample number(s): 5132237-5132241 UNSPK: P132245, P132246								
TPH-GRO - Waters	140		63-154						
Benzene	106		78-131						
Toluene	100		78-129						
Ethylbenzene	99		75-133						
Total Xylenes	99		84-131						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

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

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 09/04/07 at 03:16 PM

Group Number: 1052181

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 07231A51B

	Trifluorotoluene-F	Trifluorotoluene-P
5132233	118	116
5132234	117	117
5132235	118	116
5132236	118	117
Blank	120	115
LCS	116	116
LCSD	117	115
MS	120	116
Limits:	63-135	69-129

Analysis Name: TPH-DRO (Water) w/Si Gel
Batch number: 072320019A

	Orthoterphenyl
5132233	110
5132234	108
5132235	103
5132236	107
5132237	104
5132238	70
5132239	99
5132240	111
5132241	131
Blank	108
LCS	127
LCSD	135*
Limits:	59-131

Analysis Name: TPH-GRO - Waters
Batch number: 07233A51A

	Trifluorotoluene-F	Trifluorotoluene-P
5132237	117	116
5132238	136*	122
5132239	118	113
5132240	119	115
5132241	123	116
Blank	118	115
LCS	119	116
LCSD	119	115
MS	117	114
Limits:	63-135	69-129

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

089707-02 p 2 of 2

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 5132233-41 Group #: 002698

C# 1052181

Facility #: SS#206145-OML G-R#386492 [redacted]
Site Address: 800 CENTER STREET, OAKLAND, CA
Chevron PM: SS Lead Consultant: CRACE
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Aaron Chandler

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX 8260	BTEX 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
MW-9	8-17-7	1100	X			X			5	X		X	X					
MW-10		1135	X			X			5	X		X	X					
MW-11		1240	X			X			5	X		X	X					
MW-12		1145	X			X			5	X		X	X					
MW-13		1310	X			X			5	X		X	X					
MW-14		1240	X			X			5	X		X	X					
MW-15		1050	X			X			5	X		X	X					
MW-16		1100	X			X			5	X		X	X					
MW-17		0915	X			X			5	X		X	X					

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

Comments / Remarks
NO EDD/EDF

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 nee[redacted] | WIP (RWQCB) | Disk

	Date	Time		Date	Time
Relinquished by:	8.17.7	1620	Received by:	8/17/07	1620
Relinquished by:	8/17/07		Received by:	8/17/07	
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:		
Temperature Upon Receipt 0-7-5-0 C°			Custody Seals Intact? (Yes) No		

Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.