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11:03 am, Oct 17, 2011

Alameda County
Environmental Health

Olivia Skance
Team Lead
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6521

October 11, 2011

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

Re: Chevron Facility # 9-4612

Address: 3616 San Leandro Street, Oakland, California

I have reviewed the attached report titled 2011 Annual Groundwater Monitoring Report and dated October 11, 2011.

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 Conestoga-Rovers & Associates, 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,

Olivia Skance
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
<http://www.craworld.com>

October 11, 2011

Reference No. 611996

Mr. Mark Detterman, PG, CEG
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: 2011 Annual Groundwater Monitoring Report
Former Chevron Service Station 9-4612
3616 San Leandro Street
Oakland, California
LOP Case #RO0000233

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) has prepared this *2011 Annual Groundwater Monitoring Report* (report) for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). The report presents the results of the sampling of wells VH-1 and MW-2 through MW-4 during third quarter 2011. In a letter dated June 30, 2011 (Technical Comments 2 and 3) (Attachment A), ACEH requested the resumption of groundwater monitoring at the site, which had been temporarily suspended while the case was reviewed for possible closure. Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California. A copy of G-R's September 21, 2011 *Groundwater Monitoring and Sampling Report* is included as Attachment B. Current and historical groundwater monitoring data are presented in Tables 1 through 5 of Attachment B. The attached Figure 2 (Concentration Map) presents the analytical results along with a rose diagram. The monitoring results from the current event are discussed below. Please note that in the June 30, 2011 letter, ACEH requested submission of this report by September 16, 2011; however, in an e-mail to CRA on September 12, 2011, ACEH granted an extension of this due date to October 15, 2011.

2011 ANNUAL GROUNDWATER MONITORING RESULTS

Petroleum hydrocarbon concentrations in the site wells during the current event were similar to or less than those observed during 2010. Total petroleum hydrocarbons as gasoline (TPHg) were detected in VH-1, MW-2, and MW-3 at concentrations ranging from 2,500 to 3,700 micrograms per liter [$\mu\text{g/L}$]. The TPHg concentrations in these wells have remained relatively stable over the last several years, but have decreased since the start of monitoring. TPHg was not detected in MW-4 during the current event and generally has not

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October 11, 2011

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been detected in this well since 2002. Benzene was only detected in VH-1 (12 µg/L) and MW-2 (1 µg/L). The benzene concentrations in these wells have also remained relatively stable over the last several years; but have significantly decreased since the start of monitoring. Benzene was not detected in MW-3 or MW-4, and has not been detected in these wells since at least 2006. Methyl tertiary butyl ether (MTBE) (up to 7 µg/L) was detected in VH-1, MW-2, and MW-3. The MTBE concentrations in VH-1 and MW-2 continue to steadily decrease, while those in MW-3 have remained relatively stable over the last several years. MTBE was not detected in MW-4 and generally has not been detected in this well. The MTBE appears to be due to an offsite source as the station at the site was demolished in 1976, prior to the use of MTBE in California.

Historically, TPH as diesel (TPHd) has consistently been detected in MW-3 (generally less than 1,000 µg/L). However, weathered diesel, weathered gasoline, and natural organic matter are known to generate false positive results for diesel in the TPHd range due to polar interference. To evaluate how much of that reported as TPHd may actually be diesel fuel, the sample from MW-3 during the current event was analyzed for TPHd both with and without the use of a silica gel cleanup prior to analysis. A more stringent silica gel cleanup procedure (10 gram mass column cleanup with a capric acid reverse surrogate) was used as it has been shown to be more effective in removing polar non-hydrocarbon interferences. A lower result (250 µg/L) was reported using the silica gel cleanup procedure compared to that without (500 µg/L), indicating there is some outside interference. We plan to include this method during any future events. Based on a station as-built site plan, diesel does not appear to have been dispensed at the site; therefore, the TPHd also may be due to an offsite source. Regardless, only a low TPHd concentration remains.



October 11, 2011

Reference No. 611996

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The analytical results of the current sampling event are presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA - 8/22/11							
Well ID	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
VH-1	NA	3,400	12	2	0.8	3	7
MW-2	NA	3,700	1	0.6	1	0.9	3
MW-3	500/250*	2,500	<0.5	<0.5	<0.5	<1	2
MW-4	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5
µg/L micrograms per Liter NA Not analyzed < Indicates constituent was not detected at or above stated laboratory reporting limit * Analysis following silica gel cleanup (10g mass column; capric acid used as reverse surrogate)							

In Technical Comment 2 of the June 30, 2011 letter, ACEH requested that the sample from MW-3 located near the former used-oil underground storage tank (UST) be analyzed for the standard list of waste oil constituents. Therefore, the sample collected from this well during the current event was also analyzed for TPH as motor oil (TPHmo) (with and without the silica gel cleanup), volatile organic compounds (VOCs), semi-VOCs, polychlorinated biphenyls (PCBs), and the five LUFT metals. TPHmo, semi-VOCs, and PCBs were not detected. VOCs (other than MTBE) generally were not detected with the exception of n-Butylbenzene (3 µg/L), sec-Butylbenzene (3 µg/L), tert-Butylbenzene (4 µg/L), and naphthalene (2 µg/L). The detected metals concentrations were as follows: cadmium (2.6 µg/L), chromium (173 µg/L), lead (8.3 µg/L), nickel (308 µg/L), and zinc (123 µg/L).

CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results, impacted groundwater (primarily TPHg) remains beneath the site in the area of the former USTs and dispensers. However, as mentioned above, an offsite source appears to be contributing to site impacts. Concentrations in the onsite wells are stable to decreasing. Several gasoline-related VOCs and metals were detected in the sample collected from MW-3; however, the concentrations were not elevated and thus do not appear to be a significant concern. The former used-oil UST does not appear to have significantly impacted groundwater and we recommend no further analysis for waste oil constituents.

As requested by ACEH, CRA submitted the September 8, 2011 *Work Plan for Additional Investigation* to further evaluate the downgradient extent of impacted groundwater as well as



**CONESTOGA-ROVERS
& ASSOCIATES**

October 11, 2011

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any upgradient contributions, and we are currently awaiting a response to this document. In the meantime, as requested by ACEH, groundwater monitoring will continue on an annual basis (second quarter) to further evaluate groundwater quality and concentration trends.

We appreciate your assistance on this project and look forward to your reply. Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



James P. Kiernan, P.E.

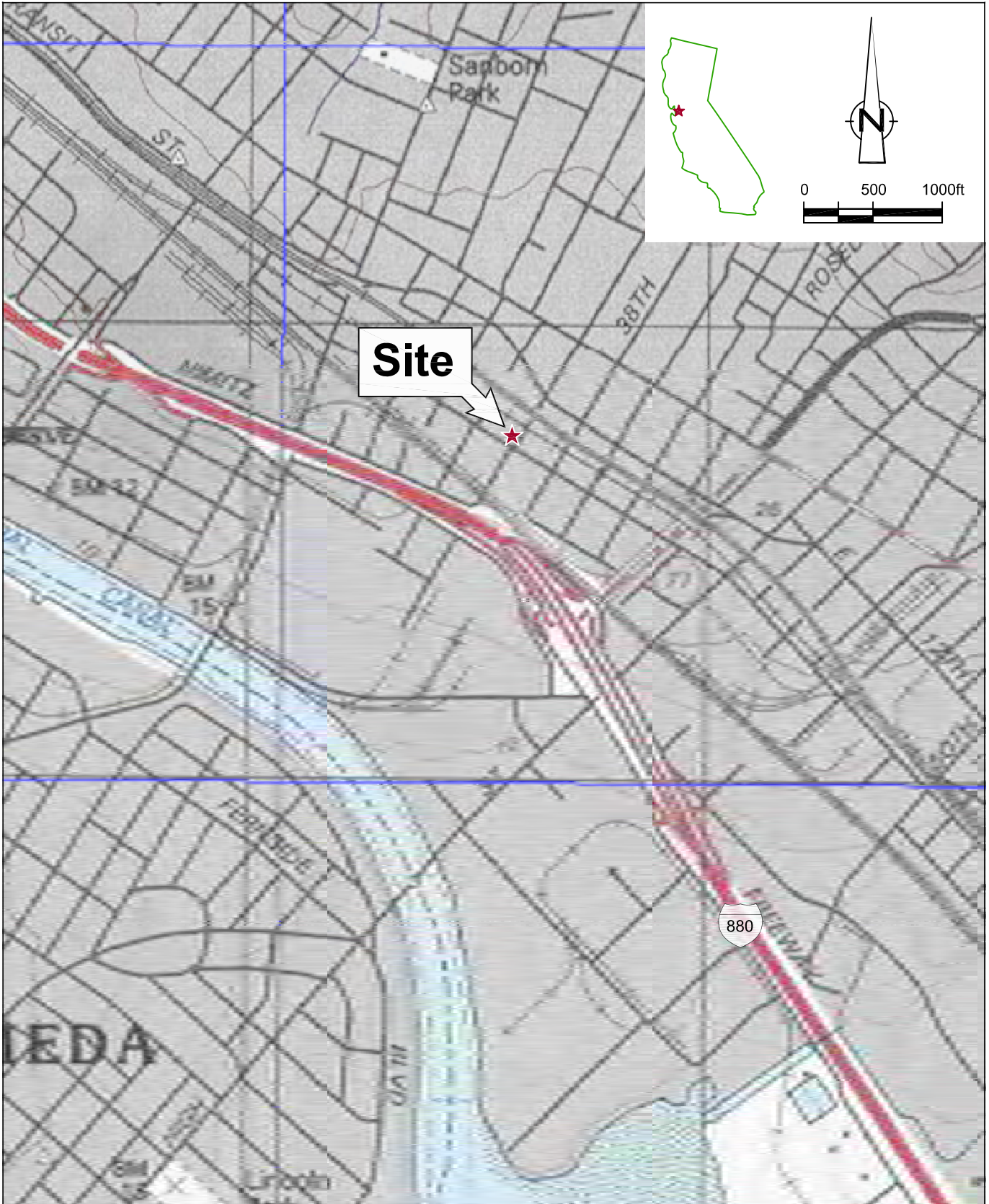
JK/aa/9
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map

Attachment A ACEH Letter Dated June 30, 2011
Attachment B Groundwater Monitoring and Sampling Report

cc: Ms. Olivia Skance, Chevron (*electronic copy*)
 Mr. Leonard B. Ratto, Ratto Land Company
 Mr. Terry McIlraith

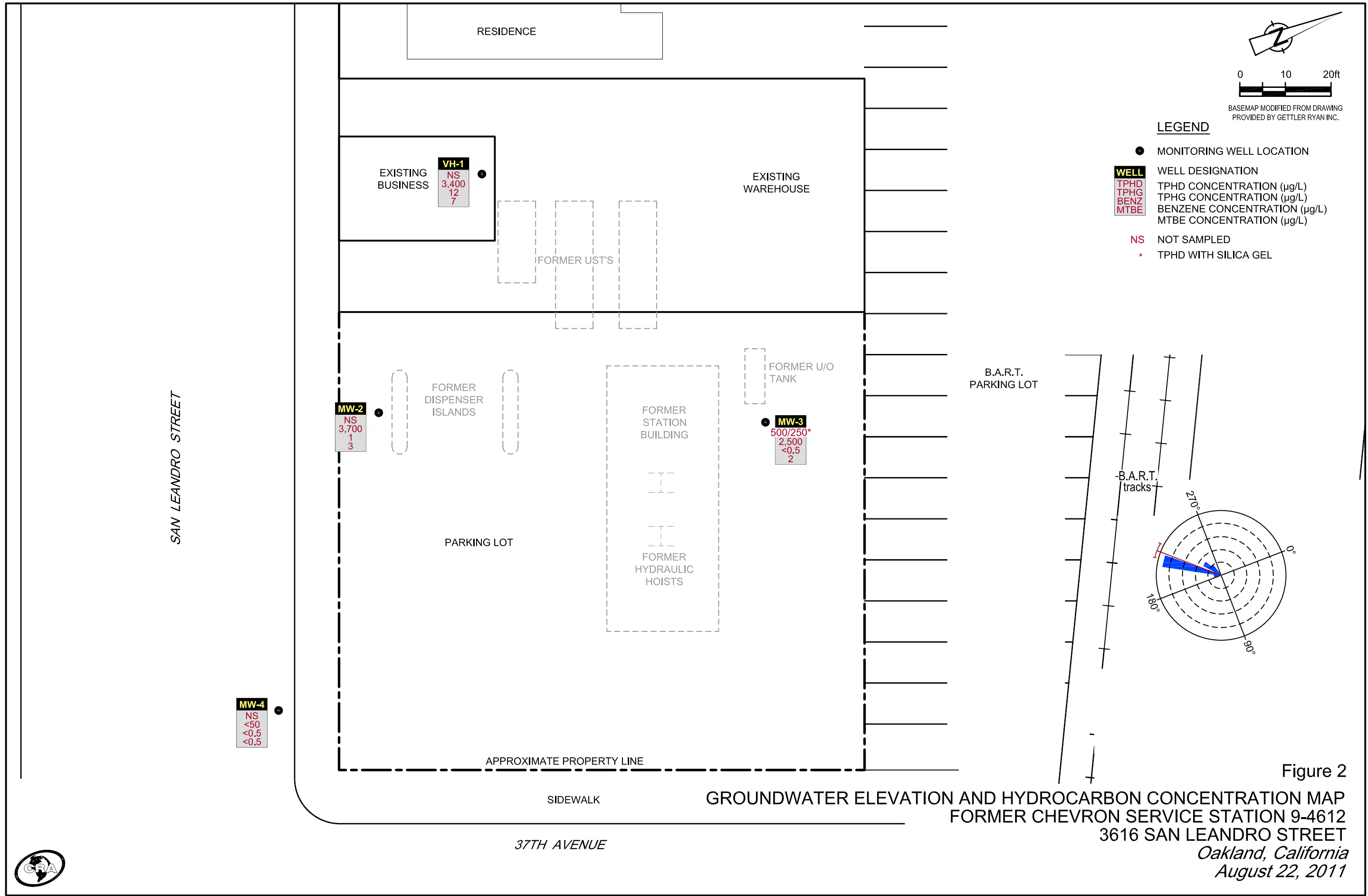
FIGURES



SOURCE: TOPO! MAPS.

Figure 1
VICINITY MAP
FORMER CHEVRON SERVICE STATION 9-4612
3616 SAN LEANDRO STREET
Oakland, California





ATTACHMENT A

ACEH LETTER DATED JUNE 30, 2011



June 30, 2011

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

Ms. Stacie H. Frerichs
Chevron Environmental Management
6001 Bollinger Canyon Rd K2256
PO Box 6012
San Ramon, CA 94583-2324
(sent via electronic mail to staciehf@chevron.com)

Mr. John Ratto
Ratto Land Company
P.O. Box 6104
Oakland, CA 94603-0104

Ms. Vivian McIlraith
Vivian L. McIlraith Trust
407 Castello Road
Lafayette, CA 94549

Subject: Request for Data Gap Work Plan, Fuel Leak Case No. RO0000233 (Global ID # T0600100333), Chevron #9-4612, 3616 San Leandro Street, Oakland, 94601

Dear Ms. Frerichs, Mr. Ratto, and Ms McIlraith:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the report entitled, *Case Closure Request*, dated February 2, 2009. The report was submitted on your behalf by Conestoga-Rovers & Associates (CRA). Case review has identified a number of data gaps that indicate that this case cannot proceed to closure at this time.

As discussed further in the technical comments below, this fuel leak case cannot be closed at this time. This decision is subject to appeal to the State Water Resources Control Board (SWRCB), pursuant to Section 25299.39(b) of the Health and Safety Code (Thompson-Richter Underground Storage Tank Reform Act - Senate Bill 562). Please contact Mr. George Lockwood in the SWRCB Underground Storage Tank Program at (916) 341-5752 or GLockwood@waterboards.ca.gov for information regarding the appeal process.

Based on the review of the case file and the referenced report ACEH requests that you address the following technical comments and send us the documents requested below.

TECHNICAL COMMENTS

1. **Contaminant Underflow Migration or the Depth of Residual Soil & Groundwater Contamination**
– ACEH is concerned that contaminant migration beneath and downgradient of the site is utilizing deeper water-bearing granular zones not adequately characterized to allow an understanding of any associated downgradient health risks. This is based on the following observations:
 - a. The depth to groundwater as encountered at the time of drilling in February 1988 in geotechnical bore holes B-1 to B-3 and the depth noted for “strong gasoline odor” (14 feet and 20 feet below grade surface [bgs], respectively).
 - b. The depth of groundwater as encountered at the time of drilling in August 1988 in monitoring well VH-1 (22.5 feet bgs). Two soil samples collected from this well bore at 20.5 and 25.5 feet bgs appear to help define “at depth” soil concentrations at this location.
 - c. The depth of groundwater as encountered at the time of drilling in August 1995 in soil bore SB-1 (approximately 15 to 19 feet bgs), the near lack of PID detections above that depth, the low PID detections (40 PID units) at 21 feet bgs, the low concentrations in soil (16 mg/kg TPHg <0.005 mg/kg benzene) at 21 feet bgs, and the elevated concentration in the grab

- groundwater collected thereafter (21,000µg/l TPHg, 240 µg/l benzene). Groundwater was specifically not encountered in SB-1 in the silty sand at a depth between approximately 10 and 12 feet bgs, comparable to the depth of groundwater sampling in bore SB-2 installed in May 2008 and stated to define the lateral extent of groundwater impacts at SB-1.
- d. The depth of groundwater as encountered at the time of drilling in February 1993 in well bore MW-2 (approximately 8.5 feet bgs), the lack of detectable soil concentrations at the depths of 5 and 10 feet bgs, and the elevated PID detections at depths of 15 and 19 feet bgs (2,800 and 1,050 PID units respectively) without analysis of soil samples.
 - e. The depth of (ground) water as encountered at the time of drilling in March 2002 of soil bores HA-1 to HA-3 (7 to 8 feet bgs) used to investigate potential utility conduits, and the non-detectable concentrations in the grab groundwater samples. The shallowness of these grab groundwater samples renders the elevated PID detections in well MW-2 (and grab groundwater in SB-1) undefined.

These lines of evidence can be interpreted at least two ways. CRA has suggested that both MTBE and TPHd (the later at MW-3) appear to be from offsite sources, in part pointing to either a gasoline release site approximately 700 feet upgradient with elevated MTBE concentrations in downgradient wells (Tony's express Auto Service, T0600101680 or RO0000265) or the adjacent BART parking lot with apparently low hydrocarbon concentrations (Fruitvale Transit Village, SL0600154423), while also acknowledging an onsite contribution. An alternate interpretation, while not discounting potential upgradient sources in part, also accounts for drought induced drawdown of groundwater at the time of a release, consistent with deeper groundwater apparently encountered previously at the site and indications of contamination below groundwater. Onsite, groundwater concentrations increase downgradient and suggest that an evaluation of the offsite downgradient contaminant load beneath the depth explored by HA-1 to HA-3 is warranted. While not discussed in the sensitive receptor survey, the downgradient neighborhood appears to consist of a mixed commercial and residential community (*Site Conceptual Model*, December 14, 2000, Delta Environmental Consultants). It may also be appropriate as a part of this characterization, to quantify the upgradient contribution to the site contaminant load, currently limited to well MW-3 in the vicinity of the former used oil UST, contaminants that could potentially be confused with an onsite source. ACEH requests submittal of a work plan to address these data gaps by the date identified below.

2. **Motor Oil Constituents** – Well MW-3 was installed adjacent to the former used oil UST, but both soil and groundwater do not appear to have been analyzed for typical used oil constituents as defined by existing guidelines. A range of footnotes contained in groundwater monitoring reports for well MW-3, including the most recent, indicate unidentified hydrocarbons, unidentified hydrocarbons <C16, unidentified hydrocarbons C9 – C17, atypical #2 fuel / diesel eluting before and later than typical #2 fuel, and etc. These footnotes can indicate both non-fuel compounds as well as hydrocarbons heavier than diesel range, as could be expected adjacent to a former used oil UST. Please collect and submit groundwater samples for the standard used oil constituents (TPHmo, halogenated solvents, the five metals, and PCBs, by standard analytical methods) during the next scheduled groundwater monitoring event, and submit the results in the associated groundwater monitoring report. Please additionally provide an interpretation of any non-fuel related compounds detected.
3. **Groundwater Monitoring** – Please place the subject site on an annual groundwater monitoring basis utilizing the second quarter of the year for the initial resumed groundwater monitoring event. Please continue with the same analytical suite previously utilized, except for well MW-3 as noted above. Please submit the report by the date identified below.

TECHNICAL REPORT REQUEST

Please submit the following deliverables and technical reports to ACEH (Attention: Mark Detterman), according to the following schedule:

- **September 9, 2011** – Data Gap Work Plan
- **September 16, 2011** – Annual Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E.
Detterman
DN: cn=Mark E. Detterman, o, ou,
email, c=US
Date: 2011.06.30 15:55:06 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: James Kiernan, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to jkiernan@crawlworld.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, e-File

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." 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. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all 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 monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

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.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B

GROUNDWATER MONITORING AND SAMPLING REPORT



September 21, 2011
G-R Job #386473

Ms. Stacie H. Frerichs
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3596
San Ramon, CA 94583

RE: Special Event of August 22, 2011
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

Dear Ms. Frerichs:

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.

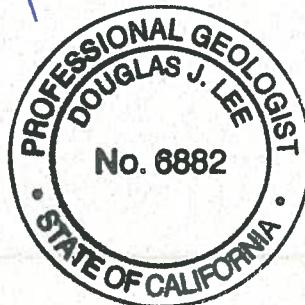
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

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, P.G. No. 6882



- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Dissolved Oxygen Concentrations
- Table 3: Groundwater Analytical Results - Oxygenate Compounds
- Table 4: Groundwater Analytical Results
- Table 5: Groundwater Analytical Results - PCBs
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

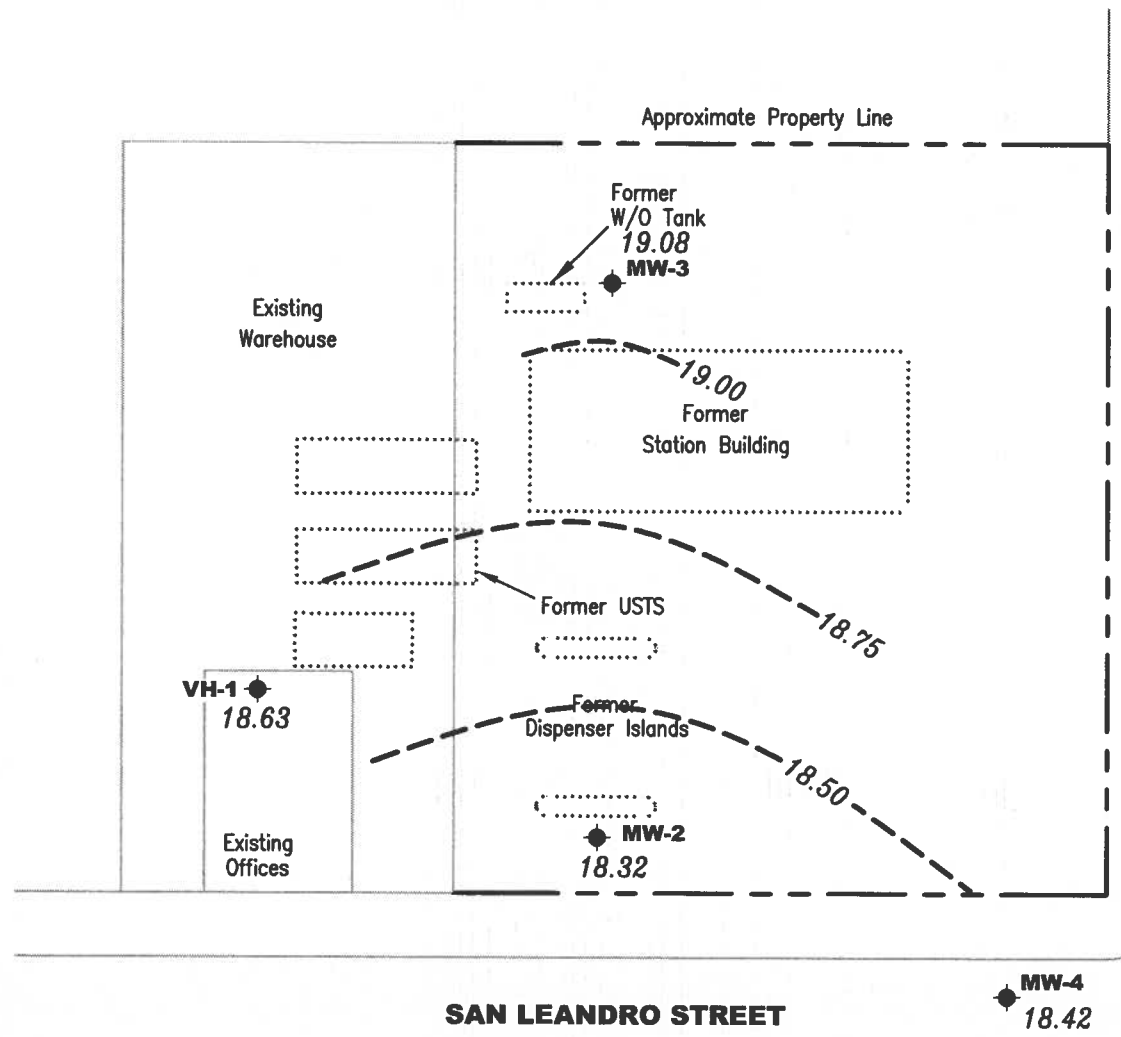
EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- 99.99--- Groundwater elevation contour, dashed where inferred

37TH AVENUE



Approximate groundwater flow direction at a gradient of 0.008 to 0.011 Ft./Ft.



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

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

POTENTIOMETRIC MAP
 Former Chevron Service Station #9-4612
 3616 San Leandro Street
 Oakland, California

FIGURE
1

PROJECT NUMBER
386473

REVIEWED BY

DATE
 August 22, 2011

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
VH-1												
08/10/88	--	--	13.00	--	--	11,000	3,300	200	520	540	--	--
06/01/89	--	--	10.32	--	--	15,000	2,200	120	540	310	--	--
09/15/89	--	--	15.69	--	--	5,600	1,900	90	350	160	--	--
12/08/89	--	--	14.77	--	--	11,000	1,900	69	270	99	--	--
03/07/91	--	--	11.26	--	--	4,500	820	39	120	77	--	--
09/24/91	--	--	12.98	--	--	3,300	520	19	39	27	--	--
01/08/92	--	--	13.77	--	--	5,000	600	34	81	76	--	--
04/20/92	--	--	8.18	--	--	7,400	670	60	110	140	--	--
03/26/93	27.85	21.14	6.71	--	--	4,900	600	40	72	94	--	--
05/27/93	27.85	19.27	8.58	--	--	13,000	1,600	120	230	220	--	--
08/18/93	27.85	17.39	10.46	--	--	2,700	210	10	8.1	18	--	--
11/03/93	27.85	15.28	12.57	--	--	4,600	680	42	35	68	--	--
02/10/94	27.85	18.77	9.08	--	--	1,900	260	19	22	29	--	--
05/12/94	27.85	19.76	8.09	--	--	2,000	390	28	3.9	29	--	--
08/26/94	27.85	17.10	10.75	--	--	4,900	500	<5.0	23	31	--	--
11/14/94	27.85	18.40	9.45	--	--	760	69	<2.0	<2.0	2.2	--	--
02/01/95	27.85	21.88	5.97	--	--	1,300	120	5.9	<0.5	13	--	--
05/12/95	27.85	20.14	7.71	--	--	4,400	460	31	45	49	--	--
08/22/95	27.85	18.59	9.26	--	--	2,900	310	15	28	32	--	--
12/19/95	27.85	19.05	8.80	--	--	930	53	<2.5	<2.5	<2.5	39	--
01/31/96	27.85	22.35	5.50	--	--	3,700	320	<10	41	40	180	--
04/30/96	27.85	19.81	8.04	--	--	3,900	270	<20	<20	<20	120	--
08/01/96	27.85	18.67	9.18	--	--	2,700	140	11	18	28	200	--
10/30/96	27.85	18.67	10.76	--	--	2,700	140	<12	<12	<12	280	--
02/07/97	27.85	19.75	8.10	--	--	220	13	0.6	<0.5	1.6	15	--
05/07/97	27.85	18.33	9.52	--	--	5,200	33	12	21	26	330	--
07/22/97	27.85	17.43	10.42	--	--	4,200	80	<10	16	24	400	--
11/03/97	27.85	16.85	11.00	--	--	2,400	150	6.8	6.5	9.5	510	--
01/28/98	27.85	20.75	7.10	--	--	850	69	4.8	5.0	11	38/48 ¹²	--
05/08/98	27.85	20.14	7.71	--	--	4,200	200	30	40	42	310/200 ¹²	--
07/29/98	27.85	18.40	9.45	--	--	3,800	54	10	27	30	35/290 ¹²	--
11/06/98	27.85	17.15	10.70	--	--	4,800	100	20	12	23	360/210 ¹²	--
02/09/99 ⁵	27.85	21.87	5.98	--	--	2,950	79.5	<10	<10	<10	435/312 ¹²	--
05/13/99	27.85	19.71	8.14	--	--	4,180	147	12.8	16.5	20.3	433245 ¹²	--
09/07/99	27.85	17.94	9.91	--	--	2,750	57.6	<5.0	6.53	<5.0	297/233 ¹²	--
11/24/99	27.85	17.36	10.49	--	--	2,550	38	3.18	2.54	5.21	216 ^{1,12}	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
VH-1 (cont)												
02/25/00	27.85	21.20	6.65	--	--	120	2.7	<0.5	<0.5	<0.5	20.5/11.9 ¹²	--
05/10/00	27.85	19.76	8.09	--	--	1,400 ⁸	63	3.3	3.1	4.9	230/110 ¹²	--
7/31/00 ¹¹	27.85	18.30	9.55	--	--	360 ⁸	22	2.7	1.6	3.1	100/88 ¹²	--
10/30/00 ¹¹	27.85	17.91	9.94	--	--	987 ¹⁰	47.0	1.00	<0.500	1.80	153/130 ¹²	--
02/05/01	27.91	19.23	8.68	--	--	2,670	42.7	<5.00	<5.00	<5.00	225/160 ¹²	--
05/07/01 ¹¹	27.91	19.61	8.30	--	--	1,800 ⁶	100	8.2	10	7.9	440/110 ¹²	--
08/06/01 ¹¹	27.91	18.09	9.82	--	--	1,000 ⁶	67	6.1	2.1	7.1	270/140 ¹²	--
11/12/01 ¹¹	27.91	17.29	10.62	--	--	220	1.2	<0.50	<0.50	<1.5	63/61 ¹²	--
02/11/02 ¹¹	27.91	19.83	8.08	--	--	1,700	33	<5.0	6.3	3.8	64/52 ¹²	--
05/13/02 ¹¹	27.91	19.21	8.70	--	--	2,700	54	4.1	5.6	6.2	100/80 ¹²	--
08/09/02 ¹¹	27.91	18.50	9.41	--	--	2,400	37	2.4	1.2	3.4	86/89 ¹²	--
11/07/02 ¹¹	27.91	17.34	10.57	--	--	150	1.3	<0.50	<0.50	<1.5	56/50 ¹²	--
02/04/03 ¹¹	27.91	19.63	8.28	--	--	1,700	40	3.1	7.8	5.0	100/53 ¹²	--
05/05/03 ¹¹	27.91	20.41	7.50	--	--	2,100	44	3.4	3.7	5.2	96/62 ¹²	--
09/06/03 ^{11,14}	27.91	18.31	9.60	--	--	690	7	0.6	<0.5	0.6	59	--
11/14/03 ^{11,14}	27.91	17.99	9.92	--	--	1,000	3	0.6	2	0.7	47	--
02/13/04 ^{14,15}	27.91	19.98	7.93	--	--	2,400	30	2	4	3	47	--
05/13/04 ¹⁴	27.91	19.24	8.67	--	--	1,900	49	4	3	5	74	--
08/17/04 ¹⁴	27.91	18.26	9.65	--	--	1,800	11	1	0.9	2	58	--
11/10/04	27.91	INACCESSIBLE		--	--	--	--	--	--	--	--	--
02/08/05 ¹⁴	27.91	20.08	7.83	--	--	2,700	26	3	4	5	48	--
06/03/05 ¹⁴	27.91	19.71	8.20	--	--	3,100	40	5	6	9	45	--
08/05/05 ¹⁴	27.91	17.81	10.10	--	--	2,500	34	4	0.6	6	46	--
12/02/05 ¹⁴	27.91	18.93	8.98	--	--	3,500	69	7	2	8	57	--
03/03/06 ¹⁴	NP ¹⁸	20.66	7.25	--	--	4,100	37	6	6	8	40	--
05/31/06 ¹⁴	NP ¹⁸	19.74	8.17	--	--	4,100	33	5	3	8	34	--
08/18/06 ¹⁴	27.91	18.79	9.12	--	--	3,300	23	4	1	5	33	--
11/17/06 ¹⁴	27.91	18.64	9.27	--	--	3,200	18	3	0.6	3	33	--
02/09/07 ¹⁴	NP ¹⁸	19.53	8.38	--	--	3,600	23	4	2	5	28	--
05/11/07 ¹⁴	NP ¹⁸	19.53	8.38	--	--	3,200	14	3	1	5	26	--
08/10/07 ¹⁴	NP ¹⁸	18.41	9.50	--	--	2,400	10	2	0.6	3	21	--
11/08/07 ¹⁴	NP ¹⁸	18.25	9.66	--	--	3,000	10	2	0.5	2	18	--
02/07/08 ¹⁴	NP ¹⁸	20.76	7.15	--	--	4,000	14	3	5	5	14	--
05/02/08 ¹⁴	NP ¹⁸	18.96	8.95	--	--	3,000	14	3	2	4	17	--
07/31/08 ¹⁴	NP ¹⁸	18.23	9.68	--	--	2,700	13	2	0.8	3	14	--
11/13/08 ¹⁴	NP ¹⁸	17.73	10.18	--	--	2,500	6	1	<0.5	1	12	--

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Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	
VH-1 (cont)													
02/02/09 ¹⁴	NP ¹⁸	27.91	18.00	9.91	--	--	4,000	7	1	<0.5	1	12	--
05/01/09 ¹⁴	NP ¹⁸	27.91	18.75	9.16	--	--	3,900	20	3	3	6	15	--
08/10/09 ¹⁴	NP ¹⁸	27.91	18.24	9.67	--	--	1,400	6	1	<0.5	1	11	--
01/29/10 ¹⁴	NP ¹⁸	27.91	20.68	7.23	--	--	3,700	24	4	5	5	13	--
08/23/10 ¹⁴	NP ¹⁸	27.91	18.63	9.28	--	--	3,600	18	3	2	4	9	--
08/22/11 ¹⁴		27.91	18.63	9.28	--	--	3,400	12	2	0.8	3	7	--
MW-2													
02/16/93		27.51	--	--	--	--	9,200	720	110	250	170	--	--
03/26/93		27.51	19.89	7.62	--	--	--	--	--	--	--	--	--
05/27/93		27.51	18.04	9.47	--	--	360	5.3	2.1	1.8	2.5	--	--
08/18/93		27.51	16.46	11.05	--	--	9,400	1,100	76	110	100	--	--
11/03/93		27.51	14.56	12.95	--	--	8,600	390	20	2.7	120	--	--
02/10/94		27.51	17.72	9.79	--	--	2,700	370	38	44	41	--	--
05/12/94		27.51	18.59	8.92	--	--	3,800	650	76	15	62	--	--
08/26/94		27.51	16.14	11.37	--	--	16,000	1,300	270	28	120	--	--
11/14/94		27.51	17.48	10.03	--	--	5,100	390	10	43	27	--	--
02/01/95		27.51	20.47	7.04	--	--	6,900	520	82	170	110	--	--
05/12/95		27.51	18.76	8.75	--	--	7,700	510	83	110	100	--	--
08/22/95		27.51	17.35	10.16	--	--	4,500	220	16	61	47	--	--
12/19/95		27.51	18.05	9.46	--	--	2,900	240	<10	19	18	220	--
01/31/96		27.51	21.91	5.60	--	--	3,900	320	18	72	39	<25	--
04/30/96		27.51	18.68	8.83	--	--	5,600	200	36	55	47	170	--
08/01/96		27.51	17.25	10.26	--	--	6,200	190	15	62	59	220	--
10/30/96		27.51	17.25	11.48	--	--	5,700	190	<25	67	36	260	--
02/07/97		27.51	18.11	9.40	--	--	8,300	210	34	70	59	330	--
05/07/97		27.51	17.57	9.94	--	--	6,900	190	12	38	37	530	--
07/22/97		27.51	16.36	11.15	--	--	10,000	18	25	62	41	630	--
11/03/97		27.51	15.93	11.58	--	--	6,500	260	8.5	26	14	590/9.6 ^{4,12}	--
01/28/98		27.51	19.38	8.13	--	--	6,700	65	13	67	54	280/94 ¹²	--
05/08/98		27.51	18.89	8.62	--	--	5,500	91	38	43	61	220/62 ¹²	--
07/29/98		27.51	17.06	10.45	--	--	3,600	41	8.9	3.6	14	16/94 ¹²	--
11/06/98		27.51	15.89	11.62	--	--	6,900	77	<5.0	14	17	290/110 ¹²	--
02/09/99 ⁵		27.51	20.61	6.90	--	--	8,070	75.6	<10	<10	<10	397/144 ¹²	--
05/13/99		27.51	18.21	9.30	--	--	5,890	120	<5.0	12.5	26.6	401/69.4 ¹²	--

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MW-2 (cont)												
09/07/99	27.51	16.57	10.94	--	--	5,820	41.2	<5.0	14.6	<5.0	260/145 ¹²	--
11/24/99	27.51	15.98	11.53	--	--	5,940	40.9	<10	10.8	<10	120 ^{1,12}	--
02/25/00	27.51	21.00	6.51	--	--	6,370	101	9.37	39.8	33.2	321/121 ¹²	--
05/10/00	27.51	18.49	9.02	--	--	6,100 ⁸	110	13	27	31	560/120 ¹²	--
07/31/00 ¹¹	27.51	17.18	10.33	--	--	3,000 ⁸	75	14	28	28	200/130 ¹²	--
10/30/00 ¹¹	27.51	16.95	10.56	--	--	6,810 ¹⁰	162	<5.00	8.05	<15.0	372/140 ¹²	--
02/05/01 ¹¹	28.05	18.47	9.58	--	--	5,860	28.4	6.86	16.2	11.8	285/140 ¹²	--
05/07/01 ¹¹	28.05	18.85	9.20	--	--	4,700 ⁶	120	15	30	42	540/88 ¹²	--
08/06/01 ¹¹	28.05	17.31	10.74	--	--	3,700 ⁶	120	<20	28	33	490/110 ¹²	--
11/12/01 ¹¹	28.05	16.60	11.45	--	--	7,000	29	<10	27	22	93/98 ¹²	--
02/11/02 ¹¹	28.05	18.99	9.06	--	--	5,900	43	15	24	27	90/86 ¹²	--
05/13/02 ¹¹	28.05	18.41	9.64	--	--	5,500	26	5.2	23	26	120/47 ¹²	--
08/09/02 ¹¹	28.05	17.76	10.29	--	--	5,700	26	3.7	26	50	100/69 ¹²	--
11/07/02 ¹¹	28.05	16.78	11.27	--	--	5,900	33	4.4	23	21	<100/69 ¹²	--
02/04/03 ¹¹	28.05	18.92	9.13	--	--	5,400	22	4.7	13	14	<50/55 ¹²	--
05/05/03 ¹¹	28.05	19.67	8.38	--	--	4,500	23	4.7	12	15	<50/31 ¹²	--
09/06/03 ^{11,14}	28.05	17.65	10.40	--	--	3,200	13	2	7	7	54	--
11/14/03 ^{11,14}	28.05	17.43	10.62	--	--	4,000	11	2	7	6	55	--
02/13/04 ^{14,15}	28.05	19.26	8.79	--	--	6,200	6	2	8	8	31	--
05/13/04 ¹⁴	28.05	18.49	9.56	--	--	3,200	6	3	13	11	34	--
08/17/04 ¹⁴	28.05	17.57	10.48	--	--	4,300	7	1	6	5	46	--
11/10/04 ¹⁴	28.05	18.52	9.53	--	--	3,000	5	1	6	7	37	--
02/08/05 ¹⁴	28.05	19.34	8.71	--	--	4,700	3	2	10	8	22	--
06/03/05 ¹⁴	28.05	19.04	9.01	--	--	4,100	4	3	15	11	23	--
08/05/05 ¹⁴	28.05	18.29	9.76	--	--	3,500	4	1	<0.5	8	23	--
12/02/05 ¹⁴	28.05	18.41	9.64	--	--	2,900	4	2	3	3	24	--
03/03/06 ¹⁴	28.05	20.01	8.04	--	--	3,800	5	6	4	5	9	--
05/31/06 ¹⁴	28.05	19.04	9.01	--	--	4,600	2	1	3	3	8	--
08/18/06 ¹⁴	28.05	18.14	9.91	--	--	4,300	2	1	11	7	14	--
11/17/06 ¹⁴	28.05	18.10	9.95	--	--	4,600	2	0.7	7	4	14	--
02/09/07 ¹⁴	28.05	18.95	9.10	--	--	3,600	1	0.6	3	3	9	--
05/11/07 ¹⁴	28.05	18.93	9.12	--	--	3,600	2	1	5	5	8	--
08/10/07 ¹⁴	28.05	17.85	10.20	--	--	3,600	1	1	7	4	9	--
11/08/07 ¹⁴	28.05	17.70	10.35	--	--	3,600	2	0.7	5	2	7	--
02/07/08 ¹⁴	28.05	20.13	7.92	--	--	5,000	1	1	5	3	5	--
05/02/08 ¹⁴	28.05	18.56	9.49	--	--	3,300	1	0.9	3	2	4	--

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MW-2 (cont)												
07/31/08 ¹⁴	28.05	17.70	10.35	--	--	3,000	2	0.6	2	1	5	--
11/13/08 ¹⁴	28.05	17.24	10.81	--	--	3,800	2	0.5	2	0.8	4	--
02/02/09 ¹⁴	28.05	18.08	9.97	--	--	3,500	2	0.6	2	1	5	--
05/01/09 ¹⁴	28.05	18.35	9.70	--	--	3,900	2	1	4	3	4	--
08/10/09 ¹⁴	28.05	17.67	10.38	--	--	3,100	2	0.8	2	1	4	--
01/29/10 ¹⁴	28.05	20.07	7.98	--	--	3,200	1	0.8	2	1	5	--
08/23/10 ¹⁴	28.05	18.02	10.03	--	--	3,500	1	0.6	1	0.7	3	--
08/22/11 ¹⁴	28.05	18.32	9.73	--	--	3,700	1	0.6	1	0.9	3	--
MW-3												
02/16/93	28.50	--	--	--	--	3,500	<0.5	8.1	4.6	7.7	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	--	4,200	580	84	150	100	--	--
08/18/93	28.50	16.50	12.00	--	1,400	910	12	3.7	6.2	3.8	--	<5,000
11/03/93	28.50	15.21	13.29	--	--	5,300	29	1.9	0.6	27	--	--
02/10/94	28.50	18.87	9.63	--	<50	63	<0.5	0.7	<0.5	<0.5	--	--
05/12/94	28.50	19.73	8.77	--	84	<50	<0.5	0.5	<0.5	<0.5	--	--
08/26/94	28.50	17.08	11.42	--	--	2,100	12	<0.5	5.0	0.5	--	--
11/14/94	28.50	18.43	10.07	--	--	140	0.78	<0.5	<0.5	<0.5	--	--
02/01/95	28.50	22.21	6.29	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	28.50	20.43	8.07	--	540 ²	330	13	1.1	1.9	0.69	--	--
08/22/95	28.50	18.55	9.95	--	550 ²	980	32	<1.0	<1.0	<1.0	--	--
12/19/95	28.50	19.10	9.40	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	28.50	23.45	5.05	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	28.50	20.10	8.40	--	240 ²	320	2.4	<0.5	0.75	<0.5	7.8	--
08/01/96	28.50	18.70	9.80	--	470 ²	980	9.6	<0.5	0.98	2.2	54	--
10/30/96	28.50	18.70	11.48	--	760 ²	2,000	14	<10	<10	<10	140	--
02/07/97	28.50	19.90	8.60	--	61 ²	200 ²	<0.5	<0.5	<0.5	<0.5	8.9	--
05/07/97	28.50	19.49	9.01	--	550 ²	3,500	14	3.9	3.6	8.0	160	--
07/22/97	28.50	17.38	11.12	--	800 ²	3,500	55	<10	<10	<10	150	--
11/03/97	28.50	16.99	11.51	--	910 ²	4,100	140	<5.0	<5.0	<5.0	380	--
01/28/98	28.50	21.16	7.34	--	--	1,100	24	<1.2	<1.2	2.8	33/6.1 ¹²	--
05/08/98	28.50	20.44	8.06	--	250 ²	990	3.6	7.7	0.7	2.2	37/7.5 ¹²	--
07/29/98	28.50	18.25	10.25	--	290 ²	1,200	13	<0.5	<0.5	1.4	11/28 ¹²	--
11/06/98	28.50	17.11	11.39	--	390 ²	2,600	5.3	<2.5	<2.5	3.0	91/41 ¹²	--

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MW-3 (cont)												
02/09/99 ⁵	28.50	22.40	6.10	--	184 ²	406	<1.0	4.03	<1.0	<1.0	17.7/1.97 ¹²	--
05/13/99	28.50	19.38	9.12	--	--	615	13.8	1.05	<0.5	<0.5	43.5/21.2 ¹²	--
09/07/99	28.50	17.77	10.73	--	528 ²	2,710	<5.0	<5.0	<5.0	<5.0	96.3/57.9 ¹²	--
11/24/99	28.50	17.37	11.13	--	1,070 ²	5,530	<5.0	<5.0	5.59	<5.0	66 ^{1,12}	--
02/25/00	28.50	22.22	6.28	--	--	189	4.68	<0.5	<0.5	<0.5	11.9/<2.0 ¹²	--
03/01/00	28.50	21.80	6.70	--	380 ²	--	--	--	--	--	--	--
05/10/00	28.50	19.90	8.60	--	830 ⁷	1,600 ⁶	22	<10	<10	<10	100/51 ¹²	--
07/31/00 ¹¹	28.50	18.43	10.07	--	490 ⁷	2,200 ⁶	76	10	<5.0	13	230/52 ¹²	--
10/30/00 ¹¹	28.50	17.97	10.53	--	580 ⁹	3,320 ¹⁰	<5.00	<5.00	<5.00	<15.0	147/64 ¹²	--
02/05/01 ¹¹	29.04	19.78	9.26	--	--	3,960	<5.00	6.02	<5.00	<5.00	159/70 ¹²	--
05/07/01 ¹¹	29.04	20.29	8.75	--	--	2,800 ⁶	61	12	<10	20	230/49 ¹²	--
05/10/01 ¹¹	29.04	20.21	8.83	--	390 ¹³	--	--	--	--	--	--	--
08/06/01 ¹¹	29.04	18.59	10.45	--	870 ⁷	1,600 ⁶	39	14	1.3	5.6	130/43 ¹²	--
11/12/01 ¹¹	29.04	17.82	11.22	--	1,400	3,100	3.6	23	2.3	5.6	40/46 ¹²	--
02/11/02 ¹¹	29.04	20.66	8.38	--	700	4,000	10	<5.0	4.2	5.5	44/42 ¹²	--
05/13/02 ¹¹	29.04	19.84	9.20	--	730	2,500	18	<5.0	<5.0	5.2	44/32 ¹²	--
08/09/02 ¹¹	29.04	18.87	10.17	--	560	2,700	17	<5.0	<5.0	<10	45/33 ¹²	--
11/07/02 ¹¹	29.04	17.91	11.13	--	660	2,600	24	<5.0	2.0	4.8	51/37 ¹²	--
02/04/03 ¹¹	29.04	20.44	8.60	--	370	2,200	13	1.5	2.7	5.0	<50/24 ¹²	--
05/05/03 ¹¹	29.04	21.22	7.82	--	580	2,100	14	1.8	2.0	3.9	<20/19 ¹²	--
09/06/03 ^{11,14}	29.04	18.79	10.25	--	780	1,800	2	0.6	0.6	1	28	--
11/14/03 ^{11,14}	29.04	18.52	10.52	--	860	2,000	1	0.6	0.6	0.9	30	--
02/13/04 ^{14,15}	29.04	20.76	8.28	--	590	3,600	1	0.6	1	2	21	--
05/13/04 ¹⁴	29.04	19.87	9.17	--	670	1,600	1	<0.5	0.5	1	20	--
08/17/04 ¹⁴	29.04	18.79	10.25	--	900	2,500	1	<0.5	<0.5	0.7	25	--
11/10/04 ¹⁴	29.04	19.81	9.23	--	780	1,500	1	0.6	0.5	1	27	--
02/08/05 ¹⁴	29.04	20.92	8.12	--	530	2,500	1	0.6	2	3	11	--
06/03/05 ¹⁴	29.04	20.47	8.57	--	600	1,700	1	<0.5	0.7	1	9	--
08/05/05 ¹⁴	29.04	18.44	10.60	--	530 ¹⁶	980	0.6	<0.5	<0.5	0.8	9	--
12/02/05 ¹⁴	29.04	19.46	9.58	--	1,400 ¹⁷	2,400	1	2	0.8	1	7	--
03/03/06 ¹⁴	29.04	21.46	7.58	--	530	2,300	0.8	1	<0.5	1	4	--
05/31/06 ¹⁴	29.04	20.51	8.53	--	480	2,700	0.6	<0.5	<0.5	0.8	4	--
08/18/06 ¹⁴	29.04	19.33	9.71	--	410	2,700	<0.5	<0.5	<0.5	0.6	6	--
11/17/06 ¹⁴	29.04	19.23	9.81	--	390	2,600	<0.5	<0.5	<0.5	1	4	--
02/09/07 ¹⁴	29.04	20.16	8.88	--	640	2,100	<0.5	<0.5	<0.5	1	3	--
05/11/07 ¹⁴	29.04	20.33	8.71	--	350	1,400	<0.5	<0.5	<0.5	2	2	--

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Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3 (cont)												
08/10/07 ¹⁴	29.04	19.06	9.98	--	340	1,300	<0.5	<0.5	<0.5	1	2	--
11/08/07 ¹⁴	29.04	18.93	10.11	--	440	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 ¹⁴	29.04	21.76	7.28	--	320	2,100	<0.5	0.7	1	2	0.7	--
05/02/08 ¹⁴	29.04	19.86	9.18	--	260	1,300	<0.5	<0.5	<0.5	<0.5	2	--
07/31/08 ¹⁴	29.04	18.91	10.13	--	500	2,900	<0.5	<0.5	<0.5	<0.5	1	--
11/13/08 ¹⁴	29.04	18.46	10.58	--	880	1,800	<0.5	<0.5	<0.5	<0.5	2	--
02/02/09 ¹⁴	29.04	19.46	9.58	--	310 ¹⁹	2,000	<0.5	<0.5	<0.5	<0.5	2	--
05/01/09 ¹⁴	29.04	19.64	9.40	--	51 ²⁰	1,500	<0.5	<0.5	<0.5	<0.5	2	--
08/10/09 ¹⁴	29.04	18.83	10.21	--	470	1,300	<0.5	<0.5	<0.5	<0.5	3	--
01/29/10 ¹⁴	29.04	21.65	7.39	--	420	2,600	<0.5	<0.5	2	1	1	--
08/23/10 ¹⁴	29.04	19.34	9.70	--	410	2,000	<0.5	<0.5	<0.5	<0.5	2	--
08/22/11 ¹⁴	29.04	19.08	9.96	<41/<40 ²¹	500/250 ²¹	2,500	<0.5	<0.5	<0.5	<1	2	--
MW-4												
08/22/95	27.27	18.16	9.11	--	--	9,600	100	<10	<10	<10	--	--
12/19/95	27.27	18.97	8.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	27.27	21.67	5.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	27.27	20.27	7.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	27.27	18.12	9.15	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/96	27.27	18.12	10.74	--	--	110	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	27.27	19.47	7.80	--	--	80	<0.5	<0.5	<0.5	<0.5	4.1	--
05/07/97	27.27	21.42	5.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	27.27	17.22	10.05	--	--	150	<0.5	<0.5	<0.5	<0.5	<2.5	--
11/03/97	27.27	16.55	10.72	--	--	52	0.9	<0.5	<0.5	<0.5	-- ³	--
01/28/98	27.27	20.76	6.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
05/08/98	27.27	20.25	7.02	--	--	56	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
07/29/98	27.27	18.32	8.95	--	--	<50	0.9	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
11/06/98	27.27	16.68	10.59	--	--	72	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
02/09/99	27.27	21.41	5.86	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0/<1.1 ¹²	--
05/13/99	27.27	19.32	7.95	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ¹²	--
09/07/99	27.27	17.79	9.48	--	--	70.2	<0.5	<0.5	<0.5	<0.5	<2.0/<1.0 ¹²	--
11/24/99	27.27	17.22	10.05	--	--	227	<0.5	<0.5	<0.5	<0.5	<0.5 ¹²	--
02/25/00	27.27	INACCESSIBLE		--	--	--	--	--	--	--	--	--
03/01/00	27.27	21.10	6.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
05/10/00	27.27	INACCESSIBLE - CAR PARKED OVER WELL		--	--	--	--	--	--	--	--	--

Table 1
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Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (<i>ft.</i>)	GWE (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-MO (<i>µg/L</i>)	TPH-DRO (<i>µg/L</i>)	TPH-GRO (<i>µg/L</i>)	B (<i>µg/L</i>)	T (<i>µg/L</i>)	E (<i>µg/L</i>)	X (<i>µg/L</i>)	MTBE (<i>µg/L</i>)	TOG (<i>µg/L</i>)
MW-4 (cont)												
07/31/00	27.27	17.90	9.37	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ¹²	--
10/30/00	27.27	17.80	9.47	--	--	54.0 ¹⁰	<0.500	<0.500	<0.500	<1.50	<2.50/<2.0 ¹²	--
02/05/01	27.27	INACCESSIBLE - CAR PARKED OVER WELL										
05/07/01	27.27	19.46	7.81	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ¹²	--
08/06/01	27.27	17.49	9.78	--	--	<50	1.1	0.52	<0.50	1.1	6.0/<2.0 ¹²	--
11/12/01	27.27	16.86	10.41	--	--	93	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
02/11/02	27.27	19.63	7.64	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
05/13/02	27.27	18.95	8.32	--	--	54	<0.50	0.84	<0.50	<1.5	<2.5/<2 ¹²	--
08/09/02	27.27	18.02	9.25	--	--	54	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
11/07/02	27.27	16.85	10.42	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
02/04/03	27.27	19.52	7.75	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ¹²	--
05/05/03	27.27	20.37	6.90	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 ¹²	--
09/06/03 ¹⁴	27.27	17.77	9.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 ¹⁴	27.27	17.47	9.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/04 ¹⁴	27.27	19.91	7.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 ¹⁴	27.27	18.99	8.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 ¹⁴	27.27	17.64	9.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/10/04 ¹⁴	27.27	18.81	8.46	--	--	52	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 ¹⁴	27.27	20.07	7.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 ¹⁴	27.27	19.66	7.61	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 ¹⁴	27.27	17.83	9.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 ¹⁴	27.27	18.92	8.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 ¹⁴	27.27	20.82	6.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 ¹⁴	27.27	19.76	7.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 ¹⁴	27.27	18.85	8.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 ¹⁴	27.27	18.31	8.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 ¹⁴	27.27	19.54	7.73	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 ¹⁴	27.27	19.67	7.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 ¹⁴	27.27	18.26	9.01	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 ¹⁴	27.27	18.01	9.26	--	--	<50	<0.5	<0.5	<0.5	1	1	--
02/07/08 ¹⁴	27.27	20.89	6.38	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ¹⁴	27.27	19.15	8.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 ¹⁴	27.27	17.99	9.28	--	--	75	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ¹⁴	27.27	17.34	9.93	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/02/09 ¹⁴	27.27	18.25	9.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/01/09 ¹⁴	27.27	18.98	8.29	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

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MW-4 (cont)												
08/10/09 ¹⁴	27.27	17.77	9.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/29/10 ¹⁴	27.27	20.70	6.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/23/10 ¹⁴	27.27	18.31	8.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/22/11 ¹⁴	27.27	18.42	8.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
TRIP BLANK												
05/27/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/18/93	--	--	--	--	1,400	<50	<0.5	<0.5	<0.5	<1.5	--	<5,000
11/03/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/10/94	--	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/19/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/30/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/07/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0 ¹²	--
05/08/98	--	--	--	--	--	--	--	--	--	--	<2.0 ¹²	--
07/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0 ¹²	--
11/06/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/13/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ¹²	--
09/07/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
11/24/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/25/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/01/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/10/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--

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TRIP BLANK (cont)				--	--	--	--	--	--	--	--	--
07/31/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
10/30/00	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50	--
02/05/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
05/07/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/10/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/06/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA				--	--	--	--	--	--	--	--	--
11/12/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/11/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/13/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/09/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/07/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/04/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/06/03 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/10/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
QA (cont)												
02/02/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/01/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DISCONTINUED												

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet

GWE = Groundwater Elevation
(msl) = Mean sea level

DTW = Depth to Water

TPH = Total Petroleum Hydrocarbons

MO = Motor Oil

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

TOG = Total Oil and Grease

(µg/L) = Micrograms per liter

NP = No purge

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations were re-surveyed on March 8, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, being a cut square top of curb at the centerline return at the northwest corner of East 14th and 37th Avenue, (Benchmark Elevation = 38.21 feet, NGVD 29).

1 Lab could not get a good ion chromatogram match for MTBE. See laboratory report.

2 Chromatogram pattern indicates an unidentified hydrocarbon.

3 No value for MTBE could be determined; see lab report for analyses.

4 Confirmation run.

5 ORC was installed.

6 Laboratory report indicates gasoline C6-C12.

7 Laboratory report indicates unidentified hydrocarbons <C16.

8 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

9 Laboratory report indicates unidentified hydrocarbons >C16.

10 Laboratory report indicates hydrocarbon pattern present in the requested fuel quantization range but does not resemble the pattern of the requested fuel.

11 ORC in well.

12 MTBE by EPA Method 8260.

13 Laboratory report indicates unidentified hydrocarbons C9-C17.

14 BTEX and MTBE by EPA Method 8260.

15 ORC removed from well.

16 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier and later than #2 fuel.

17 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier than #2 fuel.

18 No Purge, unable to access well with truck.

19 Laboratory report indicates the LCS/LCSD recovery for the DRO analysis is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

20 Laboratory report indicates the surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. therefore, all results are reported from the original extract. The DRO result for the reextraction is 190 ug/l.

21 Analyzed with silica gel column.

Table 2
Dissolved Oxygen Concentrations
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
VH-1	05/10/00	0.90	--
	07/31/00	1.25	--
	10/30/00	1.97	--
	05/07/01	1.10	--
	08/06/01	1.40	--
	11/12/01	0.90	--
	02/11/02	1.10	--
	05/13/02	0.70	--
MW-2	05/10/00	0.57	--
	07/31/00	1.26	--
	10/30/00	1.25	--
	05/07/01	0.90	--
	08/06/01	1.10	--
	11/12/01	0.80	--
	02/11/02	0.60	--
	05/13/02	0.80	--
MW-3	05/10/00	1.56	--
	07/31/00	1.46	--
	10/30/00	1.18	--
	05/07/01	0.70	--
	08/06/01	0.90	--
	11/12/01	0.50	--
	02/11/02	0.80	--
	05/13/02	1.80	--
MW-4	05/10/00	INACCESSIBLE - CAR PARKED OVER WELL	--
	07/31/00	0.64	--
	10/30/00	0.97	--
	02/05/01	INACCESSIBLE - CAR PARKED OVER WELL	--
	05/07/01	0.50	--
	08/06/01	0.70	--
	11/12/01	1.00	--
	02/11/02	1.00	--
	05/13/02	2.90	--

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIFE (µg/L)	ETBE (µg/L)	TAME (µg/L)
VH-1	02/05/01	<500	<50	160	<2.0	<2.0	<2.0
	05/07/01	--	--	110	--	--	--
	08/06/01	--	--	140	--	--	--
	11/12/01	--	--	61	--	--	--
	02/11/02	--	--	52	--	--	--
	05/13/02	--	--	80	--	--	--
	08/09/02	--	--	89	--	--	--
	11/07/02	--	--	50	--	--	--
	02/04/03	--	--	53	--	--	--
	05/05/03	--	--	62	--	--	--
	09/06/03	--	--	59	--	--	--
	11/14/03	--	--	47	--	--	--
	02/13/04	--	--	47	--	--	--
	05/13/04	--	--	74	--	--	--
	08/17/04	--	--	58	--	--	--
	11/10/04	INACCESSIBLE	--	--	--	--	--
	02/08/05	--	--	48	--	--	--
	06/03/05	--	--	45	--	--	--
	08/05/05	--	--	46	--	--	--
	12/02/05	--	--	57	--	--	--
	03/03/06	--	--	40	--	--	--
	05/31/06	--	--	34	--	--	--
	08/18/06	--	--	33	--	--	--
	11/17/06	--	--	33	--	--	--
	02/09/07	--	--	28	--	--	--
	05/11/07	--	--	26	--	--	--
	08/10/07	--	--	21	--	--	--
	11/08/07	--	--	18	--	--	--
	02/07/08	--	--	14	--	--	--
	05/02/08	--	--	17	--	--	--
	07/31/08	--	--	14	--	--	--
	11/13/08	--	--	12	--	--	--
	02/02/09	--	--	12	--	--	--
	05/01/09	--	--	15	--	--	--
	08/10/09	--	--	11	--	--	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
VH-1 (cont)	01/29/10	--	--	13	--	--	--
	08/23/10	--	--	9	--	--	--
	08/22/11	--	--	7	--	--	--
MW-2	02/05/01	<500	<50	140	<2.0	<2.0	<2.0
	05/07/01	--	--	88	--	--	--
	08/06/01	--	--	110	--	--	--
	11/12/01	--	--	98	--	--	--
	02/11/02	--	--	86	--	--	--
	05/13/02	--	--	47	--	--	--
	08/09/02	--	--	69	--	--	--
	11/07/02	--	--	69	--	--	--
	02/04/03	--	--	55	--	--	--
	05/05/03	--	--	31	--	--	--
	09/06/03	--	--	54	--	--	--
	11/14/03	--	--	55	--	--	--
	02/13/04	--	--	31	--	--	--
	05/13/04	--	--	34	--	--	--
	08/17/04	--	--	46	--	--	--
	11/10/04	--	--	37	--	--	--
	02/08/05	--	--	22	--	--	--
	06/03/05	--	--	23	--	--	--
	08/05/05	--	--	23	--	--	--
	12/02/05	--	--	24	--	--	--
	03/03/06	--	--	9	--	--	--
	05/31/06	--	--	8	--	--	--
	08/18/06	--	--	14	--	--	--
	11/17/06	--	--	14	--	--	--
	02/09/07	--	--	9	--	--	--
	05/11/07	--	--	8	--	--	--
08/10/07	--	--	9	--	--	--	
11/08/07	--	--	7	--	--	--	
02/07/08	--	--	5	--	--	--	
05/02/08	--	--	4	--	--	--	
07/31/08	--	--	5	--	--	--	

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	ETHANOL ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)
MW-2 (cont)	11/13/08	--	--	4	--	--	--
	02/02/09	--	--	5	--	--	--
	05/01/09	--	--	4	--	--	--
	08/10/09	--	--	4	--	--	--
	01/29/10	--	--	5	--	--	--
	08/23/10	--	--	3	--	--	--
	08/22/11	--	--	3	--	--	--
MW-3	02/05/01	<500	<50	70	<2.0	<2.0	<2.0
	05/07/01	--	--	49	--	--	--
	08/06/01	--	--	43	--	--	--
	11/12/01	--	--	46	--	--	--
	02/11/02	--	--	42	--	--	--
	05/13/02	--	--	32	--	--	--
	08/09/02	--	--	33	--	--	--
	11/07/02	--	--	37	--	--	--
	02/04/03	--	--	24	--	--	--
	05/05/03	--	--	19	--	--	--
	09/06/03	--	--	28	--	--	--
	11/14/03	--	--	30	--	--	--
	02/13/04	--	--	21	--	--	--
	05/13/04	--	--	20	--	--	--
	08/17/04	--	--	25	--	--	--
	11/10/04	--	--	27	--	--	--
	02/08/05	--	--	11	--	--	--
	06/03/05	--	--	9	--	--	--
	08/05/05	--	--	9	--	--	--
	12/02/05	--	--	7	--	--	--
	03/03/06	--	--	4	--	--	--
	05/31/06	--	--	4	--	--	--
08/18/06	--	--	6	--	--	--	
11/17/06	--	--	4	--	--	--	
02/09/07	--	--	3	--	--	--	
05/11/07	--	--	2	--	--	--	
08/10/07	--	--	2	--	--	--	

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-3 (cont)	11/08/07	--	--	<0.5	--	--	--
	02/07/08	--	--	0.7	--	--	--
	05/02/08	--	--	2	--	--	--
	07/31/08	--	--	1	--	--	--
	11/13/08	--	--	2	--	--	--
	02/02/09	--	--	2	--	--	--
	05/01/09	--	--	2	--	--	--
	08/10/09	--	--	3	--	--	--
	01/29/10	--	--	1	--	--	--
	08/23/10	--	--	2	--	--	--
	08/22/11	<50	<5	2	<0.5	<0.5	<0.5
MW-4	05/07/01	--	--	<2.0	--	--	--
	08/06/01	--	--	<2.0	--	--	--
	11/12/01	--	--	<2	--	--	--
	02/11/02	--	--	<2	--	--	--
	05/13/02	--	--	<2	--	--	--
	08/09/02	--	--	<2	--	--	--
	11/07/02	--	--	<2	--	--	--
	02/04/03	--	--	<0.5	--	--	--
	05/05/03	--	--	<0.5	--	--	--
	09/06/03	--	--	<0.5	--	--	--
	11/14/03	--	--	<0.5	--	--	--
	02/13/04	--	--	<0.5	--	--	--
	05/13/04	--	--	<0.5	--	--	--
	08/17/04	--	--	<0.5	--	--	--
	11/10/04	--	--	<0.5	--	--	--
	02/08/05	--	--	<0.5	--	--	--
	06/03/05	--	--	<0.5	--	--	--
	08/05/05	--	--	<0.5	--	--	--
	12/02/05	--	--	<0.5	--	--	--
	03/03/06	--	--	<0.5	--	--	--
	05/31/06	--	--	<0.5	--	--	--
08/18/06	--	--	<0.5	--	--	--	
11/17/06	--	--	<0.5	--	--	--	

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-4 (cont)	02/09/07	--	--	<0.5	--	--	--
	05/11/07	--	--	<0.5	--	--	--
	08/10/07	--	--	<0.5	--	--	--
	11/08/07	--	--	1	--	--	--
	02/07/08	--	--	<0.5	--	--	--
	05/02/08	--	--	<0.5	--	--	--
	07/31/08	--	--	<0.5	--	--	--
	11/13/08	--	--	<0.5	--	--	--
	02/02/09	--	--	<0.5	--	--	--
	05/01/09	--	--	<0.5	--	--	--
	08/10/09	--	--	<0.5	--	--	--
	01/29/10	--	--	<0.5	--	--	--
	08/23/10	--	--	<0.5	--	--	--
	08/22/11	--	--	<0.5	--	--	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
($\mu\text{g/L}$) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 4
Groundwater Analytical Results
Former Chevron Service Station #9-4612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	Cadmium ($\mu\text{g/L}$)	Chromium ($\mu\text{g/L}$)	Lead ($\mu\text{g/L}$)	Nickel ($\mu\text{g/L}$)	Zinc ($\mu\text{g/L}$)	n-Butylbenzene ($\mu\text{g/L}$)	sec- Butylbenzene ($\mu\text{g/L}$)	tert- Butylbenzene ($\mu\text{g/L}$)	Naphthalene ($\mu\text{g/L}$)
MW-3 08/22/11	2.6	173	8.3	308	123	3	3	4	2

EXPLANATIONS

($\mu\text{g/L}$) = Micrograms per liter
VOC = Volatile Organic Compounds

All other VOCs by EPA Method 8260B were less than the reporting limit unless noted.

ANALYTICAL METHODS:

VOCs by EPA Method 8260B
Cadmium, Chromium, Lead, Nickel, Zinc by Method 6010B

Table 5
Groundwater Analytical Results - PCBs
 Former Chevron Service Station #9-4612
 3616 San Leandro Street
 Oakland, California

WELL ID/ DATE	PCB- 1016 (µg/L)	PCB- 1221 (µg/L)	PCB- 1232 (µg/L)	PCB- 1242 (µg/L)	PCB- 1248 (µg/L)	PCB- 1254 (µg/L)	PCB- 1260 (µg/L)
MW-3 08/22/11	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.15

EXPLANATIONS

(µg/L) = Micrograms per liter
 PCB = Polychlorinated Biphenyl

ANALYTICAL METHODS:

PCB by EPA Method 8082

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). 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 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, as directed by the scope of work. 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.

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



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 8-22-11 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: VH-1
 Well Diameter: 214
 Total Depth: 28.45 ft.
 Depth to Water: 9.28 ft.

Date Monitored: 8-22-11

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

Check if water column is less than 0.50 ft.

19.17 xVF .66 = 12.6 x3 case volume = Estimated Purge Volume: 37.8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.11

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1100 Weather Conditions: CLOUDY
 Sample Time/Date: 1200 18-22-11 Water Color: CLEAR Odor: YIN
 Approx. Flow Rate: - gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.43

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - DS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1115</u>	<u>12.75</u>	<u>6.95</u>	<u>272</u>	<u>21.1</u>	_____	_____
<u>1130</u>	<u>25.5</u>	<u>6.99</u>	<u>279</u>	<u>20.9</u>	_____	_____
<u>1146</u>	<u>38</u>	<u>7.04</u>	<u>280</u>	<u>20.7</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VH-1</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO/TPH-MO (8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x voa vial	YES	HCL	LANCASTER	FULL SCAN VOC's (8260)
	x 1 liter ambers	YES	Na2S2O3	LANCASTER	SVOC's (8270)
	x 1 liter ambers	YES	NP	LANCASTER	PCB's
	x 500ml poly	YES	HNO3	LANCASTER	CAM 5 METALS

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 8-22-11 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: MW-2 Date Monitored: 8-22-11
 Well Diameter: 214
 Total Depth: 19.33 ft.
 Depth to Water: 9.73 ft. Check if water column is less than 0.50 ft.
9.60 xVF .17 = 1.62 x3 case volume = Estimated Purge Volume: 4.8 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.65

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

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0915 Weather Conditions: CLOUDY
 Sample Time/Date: 0945 / 8-22-11 Water Color: CLEAR Odor: Y I
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0920</u>	<u>1.5</u>	<u>7.11</u>	<u>150</u>	<u>19.5</u>	_____	_____
<u>0925</u>	<u>3</u>	<u>7.14</u>	<u>157</u>	<u>19.3</u>	_____	_____
<u>0930</u>	<u>5</u>	<u>7.15</u>	<u>156</u>	<u>19.3</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO/TPH-MO (8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x vov vial	YES	HCL	LANCASTER	FULL SCAN VOC's (8260)
	x 1 liter ambers	YES	Na2S2O3	LANCASTER	SVOC's (8270)
	x 1 liter ambers	YES	NP	LANCASTER	PCB's
	x 500ml poly	YES	HNO3	LANCASTER	CAM 5 METALS

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 8-22-11 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: MW-3
 Well Diameter: 8 1/4
 Total Depth: 18.05 ft.
 Depth to Water: 9.96 ft.
8.09 x VF 1.17 = 1.3

Date Monitored: 8-22-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 11.57 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0830 Weather Conditions: CLOUDY
 Sample Time/Date: 0900 / 8-22-11 Water Color: CLOUDY Odor: 0 IN Light
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0835</u>	<u>1.5</u>	<u>6.98</u>	<u>302</u>	<u>20.1</u>	_____	_____
<u>0840</u>	<u>3</u>	<u>7.04</u>	<u>309</u>	<u>20.0</u>	_____	_____
<u>0845</u>	<u>4</u>	<u>7.06</u>	<u>311</u>	<u>20.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO/TPH-MO (8015)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	<u>1</u> x voa vial	YES	HCL	LANCASTER	FULL SCAN VOC's (8260) / <u>TPH-GRO(8015)</u>
	<u>2</u> x 1 liter ambers	YES	Na2S2O3	LANCASTER	SVOC's (8270)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	PCB's
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	CAM 5 METALS

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 8-22-11 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: MW-4 Date Monitored: 8-22-11

Well Diameter: 214
 Total Depth: 17.86 ft.
 Depth to Water: 8.85 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

Check if water column is less than 0.50 ft.
 $9.01 \times VF .17 = 1.5$ x3 case volume = Estimated Purge Volume: 4.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.65

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1005 Weather Conditions: CLOUDY
 Sample Time/Date: 1035 8-22-11 Water Color: _____ Odor: Y / N
 Approx. Flow Rate: - gpm. Sediment Description: _____
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1010</u>	<u>1.5</u>	<u>7.16</u>	<u>216</u>	<u>18.9</u>	_____	_____
<u>1015</u>	<u>3</u>	<u>7.10</u>	<u>222</u>	<u>18.9</u>	_____	_____
<u>1020</u>	<u>4.5</u>	<u>7.11</u>	<u>224</u>	<u>18.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO/TPH-MO (8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x voa vial	YES	HCL	LANCASTER	FULL SCAN VOC's (8260)
	x 1 liter ambers	YES	Na2S2O3	LANCASTER	SVOC's (8270)
	x 1 liter ambers	YES	NP	LANCASTER	PCB's
	x 500ml poly	YES	HNO3	LANCASTER	CAM 5 METALS

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody



082511-06

Acct. #: 12009

For Lancaster Laboratories use only

Sample # 6388961-64

Group #: 007940

CRA MTI Project #: 61H-1996

Analyses Requested

C# 1263738

Facility #: SS#94612 G-R#386473 Global ID#10600100333
 Site Address: 3616 SAN LEANDRO STREET, OAKLAND, CA
 Chevron PM: MTI
 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: MIKE LOMBARD

Matrix	Preservation Codes										Preservative Codes		
	H	H	H										
<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air	Total Number of Containers												

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan / TPH-GRO (8015)	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-DRO/TPH-MO w/5% Column	TPH-MO/TPH-DRO (8015B)	SVOCS (8270)	PCB's	CAM 5 METALS	
VH-1	8-22-11	1200	X			X			6	X	X											
MW-2	↓	0945	X			X			6	X	X											
MW-3	↓	0900	X			X			17			X				X	X	X	X	X	X	
MW-4	↓	1035	X			X			6	X	X											

- 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

Comments / Remarks

TPH-DRO & TPH-MO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE

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) **EDF/EDD**
 QC Summary Type I - Full
 Type VI (Raw Data) Coalt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <i>[Signature]</i>	Date: 8-23-11	Time: 1100	Received by: GETKER-RYAN FRIDGE	Date: 08-23-11	Time: 1600
Relinquished by: <i>[Signature]</i>	Date: 08-25-11	Time: 1245	Received by: A. Adger	Date: 25 AUG 11	Time: 1246
Relinquished by: <i>[Signature]</i>	Date: 25 AUG 11	Time: 1630	Received by: FEDEX	Date:	Time:
Relinquished by: Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other	Temperature Upon Receipt: 1.0-4.5 °C		Received by: <i>[Signature]</i>	Date: 8-26-11	Time: 905
Custody Seals Intact?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

September 14, 2011

Project: 94612

Submittal Date: 08/26/2011

Group Number: 1263738

PO Number: 94612

Release Number: MTI

State of Sample Origin: CA

RECEIVED

SEP 15 2011

GETTLER-RYAN INC.
GENERAL CONTRACTORSClient Sample DescriptionVH-1-W-110822 Grab Water
MW-2-W-110822 Grab Water
MW-3-W-110822 Grab Water
MW-4-W-110822 Grab WaterLancaster Labs (LLI) #6388961
6388962
6388963
6388964

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Gettler-Ryan, Inc.	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina



Analysis Report

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

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

A handwritten signature in black ink that reads "Marla S. Lord".

Marla S. Lord
Senior Specialist

Sample Description: VH-1-W-110822 Grab Water
Facility# 94612 **Job#** 386473 **MTI#** 61H-1996 GRD
 3616 San Leandro-Oakland T0600100333 VH-1

LLI Sample # WW 6388961
LLI Group # 1263738
Account # 12099

Project Name: 94612

Collected: 08/22/2011 12:00 by ML Chevron c/o CRA
Suite 107
 Submitted: 08/26/2011 09:05 10969 Trade Center Dr
 Reported: 09/14/2011 12:16 Rancho Cordova CA 95670

SLO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	12	0.5	1
10943	Ethylbenzene	100-41-4	0.8	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	7	0.5	1
10943	Toluene	108-88-3	2	0.5	1
10943	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	3,400	250	5

General Sample Comments

State of California Lab Certification No. 2501
 Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112432AA	08/31/2011 19:20	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112432AA	08/31/2011 19:20	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11241A20A	08/30/2011 23:41	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	11241A20A	08/30/2011 23:41	Catherine J Schwarz	5

Sample Description: MW-2-W-110822 Grab Water

 Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
 3616 San Leandro-Oakland T0600100333 MW-2

 LLI Sample # WW 6388962
 LLI Group # 1263738
 Account # 12099

Project Name: 94612

Collected: 08/22/2011 09:45 by ML

Chevron c/o CRA

Suite 107

Submitted: 08/26/2011 09:05

10969 Trade Center Dr

Reported: 09/14/2011 12:16

Rancho Cordova CA 95670

SLO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	1	0.5	1
10943	Ethylbenzene	100-41-4	1	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1
10943	Toluene	108-88-3	0.6	0.5	1
10943	Xylene (Total)	1330-20-7	0.9	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	3,700	250	5

General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112431AA	08/31/2011 16:05	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112431AA	08/31/2011 16:05	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11241A20A	08/31/2011 00:03	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	11241A20A	08/31/2011 00:03	Catherine J Schwarz	5



Analysis Report

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

Page 1 of 5

Sample Description: MW-3-W-110822 Grab Water

Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
3616 San Leandro-Oakland T0600100333 MW-3

LLI Sample # WW 6388963
LLI Group # 1263738
Account # 12099

Project Name: 94612

Collected: 08/22/2011 09:00 by ML

Chevron c/o CRA

Submitted: 08/26/2011 09:05

Suite 107

Reported: 09/14/2011 12:16

10969 Trade Center Dr
Rancho Cordova CA 95670

SLO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10905	Acetone	67-64-1	N.D.	6	1
10905	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10905	Benzene	71-43-2	N.D.	0.5	1
10905	Bromobenzene	108-86-1	N.D.	1	1
10905	Bromochloromethane	74-97-5	N.D.	1	1
10905	Bromodichloromethane	75-27-4	N.D.	1	1
10905	Bromoform	75-25-2	N.D.	1	1
10905	Bromomethane	74-83-9	N.D.	1	1
10905	2-Butanone	78-93-3	N.D.	3	1
10905	t-Butyl alcohol	75-65-0	N.D.	5	1
10905	n-Butylbenzene	104-51-8	3	1	1
10905	sec-Butylbenzene	135-98-8	3	1	1
10905	tert-Butylbenzene	98-06-6	4	1	1
10905	Carbon Disulfide	75-15-0	N.D.	1	1
10905	Carbon Tetrachloride	56-23-5	N.D.	1	1
10905	Chlorobenzene	108-90-7	N.D.	0.8	1
10905	Chloroethane	75-00-3	N.D.	1	1
10905	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10905	Chloroform	67-66-3	N.D.	0.8	1
10905	Chloromethane	74-87-3	N.D.	1	1
10905	2-Chlorotoluene	95-49-8	N.D.	1	1
10905	4-Chlorotoluene	106-43-4	N.D.	1	1
10905	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10905	Dibromochloromethane	124-48-1	N.D.	1	1
10905	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10905	Dibromomethane	74-95-3	N.D.	1	1
10905	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10905	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10905	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10905	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10905	1,1-Dichloroethane	75-34-3	N.D.	1	1
10905	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10905	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10905	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10905	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10905	1,2-Dichloropropane	78-87-5	N.D.	1	1
10905	1,3-Dichloropropane	142-28-9	N.D.	1	1
10905	2,2-Dichloropropane	594-20-7	N.D.	1	1
10905	1,1-Dichloropropene	563-58-6	N.D.	1	1
10905	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10905	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10905	Ethanol	64-17-5	N.D.	50	1
10905	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10905	Ethylbenzene	100-41-4	N.D.	0.5	1
10905	Freon 113	76-13-1	N.D.	2	1
10905	Hexachlorobutadiene	87-68-3	N.D.	2	1
10905	2-Hexanone	591-78-6	N.D.	3	1
10905	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW-3-W-110822 Grab Water
**Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
3616 San Leandro-Oakland T0600100333 MW-3**
LLI Sample # WW 6388963
LLI Group # 1263738
Account # 12099
Project Name: 94612

Collected: 08/22/2011 09:00 by ML

Chevron c/o CRA

Suite 107

Submitted: 08/26/2011 09:05

10969 Trade Center Dr

Reported: 09/14/2011 12:16

Rancho Cordova CA 95670

SLO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10905	Isopropylbenzene	98-82-8	N.D.	1	1
10905	p-Isopropyltoluene	99-87-6	N.D.	1	1
10905	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10905	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10905	Methylene Chloride	75-09-2	N.D.	2	1
10905	Naphthalene	91-20-3	2	1	1
10905	n-Propylbenzene	103-65-1	N.D.	1	1
10905	Styrene	100-42-5	N.D.	1	1
10905	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10905	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10905	Tetrachloroethene	127-18-4	N.D.	0.8	1
10905	Toluene	108-88-3	N.D.	0.5	1
10905	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10905	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10905	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10905	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10905	Trichloroethene	79-01-6	N.D.	1	1
10905	Trichlorofluoromethane	75-69-4	N.D.	2	1
10905	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10905	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10905	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10905	Vinyl Chloride	75-01-4	N.D.	1	1
10905	m+p-Xylene	n.a.	N.D.	0.5	1
10905	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	1
04678	Anthracene	120-12-7	N.D.	0.1	1
04678	Benzo (a) anthracene	56-55-3	N.D.	0.1	1
04678	Benzo (a) pyrene	50-32-8	N.D.	0.1	1
04678	Benzo (b) fluoranthene	205-99-2	N.D.	0.1	1
04678	Benzo (g,h,i) perylene	191-24-2	N.D.	0.1	1
04678	Benzo (k) fluoranthene	207-08-9	N.D.	0.1	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	1
04678	Di-n-butylphthalate	84-74-2	N.D.	2	1
04678	Carbazole	86-74-8	N.D.	0.5	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1
04678	bis (2-Chloroethoxy) methane	111-91-1	N.D.	0.5	1
04678	bis (2-Chloroethyl) ether	111-44-4	N.D.	0.5	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
04678	2,2'-oxybis (1-Chloropropane)	108-60-1	N.D.	0.5	1
04678	Chrysene	218-01-9	N.D.	0.1	1
04678	Dibenz (a,h) anthracene	53-70-3	N.D.	0.1	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1

Sample Description: MW-3-W-110822 Grab Water

 Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
 3616 San Leandro-Oakland T0600100333 MW-3

 LLI Sample # WW 6388963
 LLI Group # 1263738
 Account # 12099

Project Name: 94612

Collected: 08/22/2011 09:00 by ML

Chevron c/o CRA

Submitted: 08/26/2011 09:05

Suite 107

Reported: 09/14/2011 12:16

 10969 Trade Center Dr
 Rancho Cordova CA 95670

SLO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C ug/l					
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
04678	Diethylphthalate	84-66-2	N.D.	2	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
04678	Dimethylphthalate	131-11-3	N.D.	2	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
04678	Fluoranthene	206-44-0	N.D.	0.1	1
04678	Fluorene	86-73-7	N.D.	0.1	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
04678	Hexachloroethane	67-72-1	N.D.	1	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
04678	Isophorone	78-59-1	N.D.	0.5	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1
04678	4-Nitrophenol	100-02-7	N.D.	10	1
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	1
04678	Pentachlorophenol	87-86-5	N.D.	1	1
04678	Phenanthrene	85-01-8	N.D.	0.1	1
04678	Phenol	108-95-2	N.D.	0.5	1
04678	Pyrene	129-00-0	N.D.	0.1	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	2,500	50	1



Analysis Report

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Sample Description: MW-3-W-110822 Grab Water

Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
3616 San Leandro-Oakland T0600100333 MW-3

LLI Sample # WW 6388963

LLI Group # 1263738

Account # 12099

Project Name: 94612

Collected: 08/22/2011 09:00 by ML

Chevron c/o CRA

Suite 107

Submitted: 08/26/2011 09:05

10969 Trade Center Dr

Reported: 09/14/2011 12:16

Rancho Cordova CA 95670

SLO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Pesticides/PCBs					
	SW-846 8082		ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.099	1
10227	PCB-1221	11104-28-2	N.D.	0.099	1
10227	PCB-1232	11141-16-5	N.D.	0.20	1
10227	PCB-1242	53469-21-9	N.D.	0.099	1
10227	PCB-1248	12672-29-6	N.D.	0.099	1
10227	PCB-1254	11097-69-1	N.D.	0.099	1
10227	PCB-1260	11096-82-5	N.D.	0.15	1
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.					
GC Petroleum					
	SW-846 8015B		ug/l	ug/l	
Hydrocarbons					
08269	TPH-DRO water C10-C28	n.a.	500	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	250	32	1
The reverse surrogate, capric acid, was present at 0%.					
GC Petroleum					
	SW-846 8015B modified		ug/l	ug/l	
Hydrocarbons					
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	40	1
02500	Total TPH	n.a.	N.D.	41	1
02500	TPH Motor Oil C16-C36	n.a.	N.D.	41	1
10006	Total TPH w/Si Gel	n.a.	N.D.	40	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Metals					
	SW-846 6010B		ug/l	ug/l	
07049	Cadmium	7440-43-9	2.6	0.27	1
07051	Chromium	7440-47-3	173	1.1	1
07055	Lead	7439-92-1	8.3	2.2	1
07061	Nickel	7440-02-0	308	0.95	1
07072	Zinc	7440-66-6	123	3.2	1

General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

Sample Description: MW-3-W-110822 Grab Water
**Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
3616 San Leandro-Oakland T0600100333 MW-3**
LLI Sample # WW 6388963
LLI Group # 1263738
Account # 12099
Project Name: 94612

Collected: 08/22/2011 09:00 by ML

Chevron c/o CRA

Suite 107

Submitted: 08/26/2011 09:05

10969 Trade Center Dr

Reported: 09/14/2011 12:16

Rancho Cordova CA 95670

SLO03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10905	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W112451AA	09/02/2011 19:45	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112451AA	09/02/2011 19:45	Emily R Styer	1
04678	TCL SVOC 8270C Water	SW-846 8270C	1	11239WAA026	09/06/2011 00:17	Jennifer R Riggs	1
00813	BNA Water Extraction	SW-846 3510C	1	11239WAA026	08/28/2011 18:30	Nicholas W Shroyer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11241A20A	08/30/2011 22:36	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11241A20A	08/30/2011 22:36	Catherine J Schwarz	1
10227	PCBs in Water 8082	SW-846 8082	1	112390009A	08/29/2011 20:59	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	112390009A	08/29/2011 05:40	Roman Kuropatkin	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112390002A	08/30/2011 23:34	Dustin A Underkoffler	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112390020A	09/09/2011 01:00	Dustin A Underkoffler	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	112390003A	08/30/2011 09:18	Heather E Williams	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	112390021A	09/07/2011 17:11	Heather E Williams	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112390020A	08/29/2011 09:22	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112390002A	08/28/2011 18:30	Elaine F Stoltzfus	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	112390003A	08/28/2011 18:30	Elaine F Stoltzfus	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	112390021A	08/29/2011 09:22	Cynthia J Salvatori	1
07049	Cadmium	SW-846 6010B	1	112411848001	08/30/2011 23:01	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	112411848001	08/30/2011 23:01	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	112411848001	08/30/2011 23:01	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	112411848001	08/30/2011 23:01	John W Yanzuk II	1
07072	Zinc	SW-846 6010B	1	112411848001	08/30/2011 23:01	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112411848001	08/29/2011 13:30	James L Mertz	1



Analysis Report

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Sample Description: MW-4-W-110822 Grab Water

Facility# 94612 Job# 386473 MTI# 61H-1996 GRD
3616 San Leandro-Oakland T0600100333 MW-4

LLI Sample # WW 6388964
LLI Group # 1263738
Account # 12099

Project Name: 94612

Collected: 08/22/2011 10:35 by ML

Chevron c/o CRA
Suite 107

Submitted: 08/26/2011 09:05

10969 Trade Center Dr
Rancho Cordova CA 95670

Reported: 09/14/2011 12:16

SLO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112431AA	08/31/2011 14:57	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112431AA	08/31/2011 14:57	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11241A20A	08/30/2011 22:58	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11241A20A	08/30/2011 22:58	Catherine J Schwarz	1

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

Matrix QC may not be reported if insufficient sample or 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

<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: D112431AA	Sample number(s): 6388962, 6388964							
Benzene	N.D.	0.5	ug/l	93		79-120		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		76-120		
Toluene	N.D.	0.5	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	ug/l	95		80-120		
Batch number: D112432AA	Sample number(s): 6388961							
Benzene	N.D.	0.5	ug/l	92		79-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		76-120		
Toluene	N.D.	0.5	ug/l	90		79-120		
Xylene (Total)	N.D.	0.5	ug/l	91		80-120		
Batch number: W112451AA	Sample number(s): 6388963							
Acetone	N.D.	6.	ug/l	164	159	49-234	3	30
t-Amyl methyl ether	N.D.	0.5	ug/l	104	101	77-120	2	30
Benzene	N.D.	0.5	ug/l	115	112	79-120	3	30
Bromobenzene	N.D.	1.	ug/l	112	105	80-120	6	30
Bromochloromethane	N.D.	1.	ug/l	102	98	80-120	4	30
Bromodichloromethane	N.D.	1.	ug/l	103	97	80-120	6	30
Bromoform	N.D.	1.	ug/l	79	78	61-120	2	30
Bromomethane	N.D.	1.	ug/l	95	92	44-120	4	30
2-Butanone	N.D.	3.	ug/l	125	122	66-151	2	30
t-Butyl alcohol	N.D.	5.	ug/l	120	123	62-129	2	30
n-Butylbenzene	N.D.	1.	ug/l	117	115	74-120	2	30
sec-Butylbenzene	N.D.	1.	ug/l	118	114	78-120	4	30
tert-Butylbenzene	N.D.	1.	ug/l	113	107	80-120	6	30
Carbon Disulfide	N.D.	1.	ug/l	101	97	62-120	4	30
Carbon Tetrachloride	N.D.	1.	ug/l	96	92	75-123	5	30
Chlorobenzene	N.D.	0.8	ug/l	111	106	80-120	4	30
Chloroethane	N.D.	1.	ug/l	95	95	49-129	0	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	128	123	56-129	4	30
Chloroform	N.D.	0.8	ug/l	108	103	77-122	5	30
Chloromethane	N.D.	1.	ug/l	102	99	60-129	3	30
2-Chlorotoluene	N.D.	1.	ug/l	116	112	80-120	3	30
4-Chlorotoluene	N.D.	1.	ug/l	117	116	80-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	85	86	56-126	1	30
Dibromochloromethane	N.D.	1.	ug/l	93	92	80-120	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	107	103	80-120	4	30
Dibromomethane	N.D.	1.	ug/l	102	101	80-120	0	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	108	105	80-120	3	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	109	104	80-120	4	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	109	105	80-120	4	30
Dichlorodifluoromethane	N.D.	2.	ug/l	94	91	47-120	4	30
1,1-Dichloroethane	N.D.	1.	ug/l	109	107	79-120	2	30

*- 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.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	N.D.	0.5	ug/l	106	102	70-130	4	30
1,1-Dichloroethene	N.D.	0.8	ug/l	113	108	74-123	5	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	109	107	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	111	105	80-120	6	30
1,2-Dichloropropane	N.D.	1.	ug/l	107	105	78-120	2	30
1,3-Dichloropropane	N.D.	1.	ug/l	111	108	80-120	2	30
2,2-Dichloropropane	N.D.	1.	ug/l	101	100	77-124	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	111	107	80-120	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	105	102	80-120	3	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	102	98	79-120	4	30
Ethanol	N.D.	50.	ug/l	111	107	54-149	3	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	104	103	76-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	114	111	79-120	3	30
Freon 113	N.D.	2.	ug/l	112	108	69-128	4	30
Hexachlorobutadiene	N.D.	2.	ug/l	80	77	58-120	3	30
2-Hexanone	N.D.	3.	ug/l	109	109	65-136	1	30
di-Isopropyl ether	N.D.	0.5	ug/l	103	102	71-124	1	30
Isopropylbenzene	N.D.	1.	ug/l	114	111	77-120	3	30
p-Isopropyltoluene	N.D.	1.	ug/l	116	109	80-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	104	104	70-121	0	30
Methylene Chloride	N.D.	2.	ug/l	111	108	80-120	3	30
Naphthalene	N.D.	1.	ug/l	77	77	62-120	0	30
n-Propylbenzene	N.D.	1.	ug/l	121*	119	80-120	2	30
Styrene	N.D.	1.	ug/l	113	109	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	100	96	80-120	5	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	110	107	71-120	3	30
Tetrachloroethene	N.D.	0.8	ug/l	100	97	80-121	4	30
Toluene	N.D.	0.5	ug/l	115	110	79-120	5	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	81	82	65-120	1	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	87	85	67-120	2	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	99	97	75-127	2	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	106	106	80-120	0	30
Trichloroethene	N.D.	1.	ug/l	108	106	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/l	87	82	64-129	6	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	103	104	80-120	1	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	116	112	74-120	4	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	120	116	75-120	3	30
Vinyl Chloride	N.D.	1.	ug/l	103	100	65-125	3	30
m+p-Xylene	N.D.	0.5	ug/l	116	112	80-120	4	30
o-Xylene	N.D.	0.5	ug/l	111	111	80-120	0	30
Batch number: 11239WAA026 Sample number(s): 6388963								
Acenaphthene	N.D.	0.1	ug/l	96	95	75-114	1	30
Acenaphthylene	N.D.	0.1	ug/l	101	103	80-122	1	30
Anthracene	N.D.	0.1	ug/l	102	99	76-115	3	30
Benzo (a) anthracene	N.D.	0.1	ug/l	95	98	75-116	3	30
Benzo (a) pyrene	N.D.	0.1	ug/l	101	98	64-126	2	30
Benzo (b) fluoranthene	N.D.	0.1	ug/l	94	94	66-125	0	30
Benzo (g, h, i) perylene	N.D.	0.1	ug/l	98	95	66-132	3	30
Benzo (k) fluoranthene	N.D.	0.1	ug/l	96	98	66-131	2	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	93	88	75-115	5	30
Butylbenzylphthalate	N.D.	2.	ug/l	93	97	77-115	4	30
Di-n-butylphthalate	N.D.	2.	ug/l	97	94	76-115	3	30
Carbazole	N.D.	0.5	ug/l	98	94	75-120	5	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	88	83	70-123	6	30
4-Chloroaniline	N.D.	0.5	ug/l	80	76	24-128	5	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	93	95	74-124	2	30

*- 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.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

<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>
bis (2-Chloroethyl) ether	N.D.	0.5	ug/l	92	88	77-108	4	30
2-Chloronaphthalene	N.D.	0.4	ug/l	79	79	54-132	0	30
2-Chlorophenol	N.D.	0.5	ug/l	84	79	71-114	6	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	93	92	77-114	0	30
2, 2'-oxybis (1-Chloropropane)	N.D.	0.5	ug/l	89	86	65-113	4	30
Chrysene	N.D.	0.1	ug/l	92	89	76-116	3	30
Dibenz (a, h) anthracene	N.D.	0.1	ug/l	100	101	67-131	1	30
Dibenzofuran	N.D.	0.5	ug/l	92	93	75-117	1	30
1, 2-Dichlorobenzene	N.D.	0.5	ug/l	74	75	55-118	1	30
1, 3-Dichlorobenzene	N.D.	0.5	ug/l	73	73	61-111	1	30
1, 4-Dichlorobenzene	N.D.	0.5	ug/l	75	72	53-119	4	30
3, 3'-Dichlorobenzidine	N.D.	2.	ug/l	72	76	37-117	5	30
2, 4-Dichlorophenol	N.D.	0.5	ug/l	93	89	77-117	4	30
Diethylphthalate	N.D.	2.	ug/l	90	90	66-116	0	30
2, 4-Dimethylphenol	N.D.	0.5	ug/l	92	89	72-110	3	30
Dimethylphthalate	N.D.	2.	ug/l	75	79	39-126	5	30
4, 6-Dinitro-2-methylphenol	N.D.	5.	ug/l	93	90	65-126	3	30
2, 4-Dinitrophenol	N.D.	10.	ug/l	90	94	52-131	5	30
2, 4-Dinitrotoluene	N.D.	1.	ug/l	94	92	76-119	2	30
2, 6-Dinitrotoluene	N.D.	0.5	ug/l	99	98	76-118	1	30
bis (2-Ethylhexyl) phtalate	N.D.	2.	ug/l	91	94	78-117	3	30
Fluoranthene	N.D.	0.1	ug/l	102	98	76-119	4	30
Fluorene	N.D.	0.1	ug/l	98	97	76-116	1	30
Hexachlorobenzene	N.D.	0.1	ug/l	93	89	75-119	4	30
Hexachlorobutadiene	N.D.	0.5	ug/l	82	81	57-124	2	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	78	82	36-118	5	30
Hexachloroethane	N.D.	1.	ug/l	75	70	52-113	6	30
Indeno (1, 2, 3-cd) pyrene	N.D.	0.1	ug/l	100	100	69-121	0	30
Isophorone	N.D.	0.5	ug/l	97	95	74-117	2	30
2-Methylnaphthalene	N.D.	0.1	ug/l	93	89	69-108	5	30
2-Methylphenol	N.D.	0.5	ug/l	70	63	58-110	10	30
4-Methylphenol	N.D.	0.5	ug/l	60	56	49-108	7	30
Naphthalene	N.D.	0.1	ug/l	88	86	70-111	2	30
2-Nitroaniline	N.D.	0.5	ug/l	95	95	75-120	0	30
3-Nitroaniline	N.D.	0.5	ug/l	92	95	74-113	4	30
4-Nitroaniline	N.D.	0.5	ug/l	78	80	59-100	2	30
Nitrobenzene	N.D.	0.5	ug/l	95	93	75-109	2	30
2-Nitrophenol	N.D.	0.5	ug/l	97	93	76-118	4	30
4-Nitrophenol	N.D.	10.	ug/l	27	24	16-78	12	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	87	85	69-110	3	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	92	92	67-136	1	30
Di-n-octylphthalate	N.D.	2.	ug/l	99	101	68-128	1	30
Pentachlorophenol	N.D.	1.	ug/l	93	89	53-110	4	30
Phenanthrene	N.D.	0.1	ug/l	94	93	76-113	1	30
Phenol	N.D.	0.5	ug/l	31	29	21-67	6	30
Pyrene	N.D.	0.1	ug/l	93	96	75-119	3	30
1, 2, 4-Trichlorobenzene	N.D.	0.5	ug/l	83	83	71-112	0	30
2, 4, 5-Trichlorophenol	N.D.	0.5	ug/l	97	96	79-107	1	30
2, 4, 6-Trichlorophenol	N.D.	0.5	ug/l	94	97	76-120	2	30
Batch number: 11241A20A	Sample number (s): 6388961-6388964							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	86	87	75-135	1	30
Batch number: 112390009A	Sample number (s): 6388963							
PCB-1016	N.D.	0.10	ug/l	110	112	51-128	2	30
PCB-1221	N.D.	0.10	ug/l					
PCB-1232	N.D.	0.20	ug/l					
PCB-1242	N.D.	0.10	ug/l					

*- 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.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

<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>
PCB-1248	N.D.	0.10	ug/l					
PCB-1254	N.D.	0.10	ug/l					
PCB-1260	N.D.	0.15	ug/l	108	110	56-135	2	30
Batch number: 112390002A	Sample number(s): 6388963							
TPH-DRO water C10-C28	N.D.	32.	ug/l	90	90	56-122	0	20
Batch number: 112390003A	Sample number(s): 6388963							
Total TPH	N.D.	40.	ug/l	103	100	60-120	2	20
TPH Motor Oil C16-C36	N.D.	40.	ug/l					
Batch number: 112390020A	Sample number(s): 6388963							
TPH-DRO water C10-C28 w/Si Gel	N.D.	32.	ug/l	104	89	56-122	16	20
Batch number: 112390021A	Sample number(s): 6388963							
Motor Oil C16-C36 w/Si Gel	N.D.	40.	ug/l					
Total TPH w/Si Gel	N.D.	40.	ug/l	90	89	50-129	1	20
Batch number: 112411848001	Sample number(s): 6388963							
Cadmium	N.D.	0.27	ug/l	104		90-112		
Chromium	N.D.	1.1	ug/l	100		90-110		
Lead	N.D.	2.2	ug/l	105		88-110		
Nickel	N.D.	0.95	ug/l	106		90-111		
Zinc	N.D.	3.2	ug/l	99		90-111		

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: D112431AA	Sample number(s): 6388962, 6388964 UNSPK: 6388964								
Benzene	92	96	80-126	4	30				
Ethylbenzene	91	96	71-134	5	30				
Methyl Tertiary Butyl Ether	87	93	72-126	7	30				
Toluene	93	96	80-125	4	30				
Xylene (Total)	93	97	79-125	5	30				
Batch number: D112432AA	Sample number(s): 6388961 UNSPK: P388676								
Benzene	93	98	80-126	6	30				
Ethylbenzene	92	97	71-134	6	30				
Methyl Tertiary Butyl Ether	91	97	72-126	6	30				
Toluene	92	98	80-125	7	30				
Xylene (Total)	90	96	79-125	6	30				
Batch number: 11239WAA026	Sample number(s): 6388963 UNSPK: P385098								
Acenaphthene	94	95	78-107	1	30				
Acenaphthylene	104	102	75-124	2	30				
Anthracene	98	98	78-114	0	30				
Benzo(a)anthracene	99	96	76-114	3	30				
Benzo(a)pyrene	100	99	58-128	1	30				
Benzo(b)fluoranthene	93	91	65-125	2	30				
Benzo(g,h,i)perylene	94	97	72-122	4	30				

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Benzo(k)fluoranthene	95	97	71-121	1	30				
4-Bromophenyl-phenylether	87	88	79-118	2	30				
Butylbenzylphthalate	98	98	68-122	0	30				
Di-n-butylphthalate	94	94	79-118	1	30				
Carbazole	96	95	82-112	1	30				
4-Chloro-3-methylphenol	73	71	19-155	3	30				
4-Chloroaniline	83	82	23-118	2	30				
bis(2-Chloroethoxy)methane	93	95	65-119	2	30				
bis(2-Chloroethyl)ether	89	95	41-143	6	30				
2-Chloronaphthalene	83	82	49-141	2	30				
2-Chlorophenol	73	68	27-146	7	30				
4-Chlorophenyl-phenylether	93	90	73-117	4	30				
2,2'-oxybis(1-Chloropropane)	88	91	54-125	4	30				
Chrysene	95	92	78-116	3	30				
Dibenz(a,h)anthracene	98	100	73-133	1	30				
Dibenzofuran	92	91	71-116	2	30				
3,3'-Dichlorobenzidine	79	69	16-128	13	30				
2,4-Dichlorophenol	80	80	30-154	0	30				
Diethylphthalate	95	91	74-118	4	30				
2,4-Dimethylphenol	38	39	20-145	3	30				
Dimethylphthalate	86	81	38-126	6	30				
4,6-Dinitro-2-methylphenol	89	89	26-149	0	30				
2,4-Dinitrophenol	98	94	20-168	4	30				
2,4-Dinitrotoluene	100	99	70-124	1	30				
2,6-Dinitrotoluene	105	100	47-140	5	30				
bis(2-Ethylhexyl)phthalate	97	95	72-122	2	30				
Fluoranthene	100	100	73-110	0	30				
Fluorene	97	97	71-123	0	30				
Hexachlorobenzene	87	91	77-122	5	30				
Hexachlorobutadiene	86	89	68-123	3	30				
Hexachlorocyclopentadiene	94	97	15-143	3	30				
Hexachloroethane	82	80	54-119	2	30				
Indeno(1,2,3-cd)pyrene	97	100	69-120	2	30				
Isophorone	95	96	73-114	2	30				
2-Methylnaphthalene	92	93	80-111	1	30				
2-Methylphenol	53	52	10-146	2	30				
4-Methylphenol	47	47	10-147	0	30				
Naphthalene	88	91	73-113	3	30				
2-Nitroaniline	99	99	49-141	1	30				
3-Nitroaniline	97	95	44-133	3	30				
4-Nitroaniline	84	80	46-117	6	30				
Nitrobenzene	94	96	48-136	2	30				
2-Nitrophenol	101	99	34-146	2	30				
4-Nitrophenol	28	28	10-109	0	30				
N-Nitroso-di-n-propylamine	89	92	72-119	3	30				
N-Nitrosodiphenylamine	92	93	74-122	0	30				
Di-n-octylphthalate	99	102	58-137	3	30				
Pentachlorophenol	78	80	23-133	2	30				
Phenanthrene	92	92	72-121	0	30				
Phenol	27	28	10-83	3	30				
Pyrene	97	95	77-117	2	30				
2,4,5-Trichlorophenol	88	86	32-144	2	30				
2,4,6-Trichlorophenol	90	84	27-147	6	30				

*- 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.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

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: 112411848001	Sample number(s): 6388963 UNSPK: P388753 BKG: P388753								
Cadmium	97	98	83-116	1	20	2.6	2.5	5 (1)	20
Chromium	97	99	81-120	2	20	5.9	5.6	5 (1)	20
Lead	88	89	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	99	99	86-115	1	20	4.1	3.9	4 (1)	20
Zinc	100	100	85-117	1	20	41.5	40.8	2 (1)	20

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.

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: D112431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6388962	99	96	99	101
6388964	104	97	96	94
Blank	102	100	98	97
LCS	101	103	98	98
MS	102	100	98	100
MSD	101	101	99	99
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: D112432AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6388961	101	98	99	100
Blank	104	103	97	96
LCS	104	105	96	98
MS	103	103	96	98
MSD	104	103	97	99
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: VOCs by 8260B(Extended) -Water
 Batch number: W112451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6388963	93	99	102	99
Blank	91	102	102	93
LCS	94	104	103	102
LCSD	93	103	102	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SVOC 8270C Water

*- 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.

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

Surrogate Quality Control

Batch number: 11239WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6388963	3*	8*	5*	80	80	65
Blank	36	21	98	89	94	89
LCS	43	26	95	90	89	79
LCSD	39	24	95	89	90	83
MS	36	23	87	87	89	80
MSD	34	21	82	91	89	77
Limits:	10-98	10-74	22-150	52-120	63-114	34-118

 Analysis Name: TPH-GRO N. CA water C6-C12
 Batch number: 11241A20A
 Trifluorotoluene-F

6388961	128
6388962	126
6388963	190*
6388964	91
Blank	90
LCS	110
LCSD	112
Limits:	63-135

 Analysis Name: PCBs in Water 8082
 Batch number: 112390009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6388963	77	28*
Blank	106	100
LCS	110	117
LCSD	109	113
Limits:	30-150	30-150

 Analysis Name: TPH-DRO water C10-C28
 Batch number: 112390002A
 Orthoterphenyl

6388963	85
Blank	89
LCS	98
LCSD	98
Limits:	54-127

 Analysis Name: TPH Fuels by GC (Waters)
 Batch number: 112390003A
 Chlorobenzene Orthoterphenyl

6388963	198*	100
Blank	92	103
LCS	92	116
LCSD	94	112

*- 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.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/14/11 at 12:16 PM

Group Number: 1263738

Surrogate Quality Control

Limits: 28-152 52-131

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 112390020A
Orthoterphenyl

6388963	82
Blank	97
LCS	100
LCSD	90

Limits: 54-127

Analysis Name: TPH Fuels water w/Si Gel
Batch number: 112390021A
Chlorobenzene Orthoterphenyl

6388963	133*	74
Blank	79	84
LCS	79	94
LCSD	81	91

Limits: 59-128 70-122

*- 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.

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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.

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