Mark Horne
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-0973
markhorne@chevron.com

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

RECEIVED
By Alameda County Environmental Health 1:55 pm, Oct 03, 2016

Re: Former Chevron Service Station No. 90260
21995 Foothill Boulevard
Hayward, CA
Fuel Leak Case No. RO0383

I have reviewed the attached report titled *Private Well Sampling Report*.

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 GHD Services Inc., upon whose assistance and advice I have relied.

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

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Mark Horne
Project Manager

Attachment: *Private Well Sampling Report*

September 26, 2016 Reference No. 311915

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

Re: Private Well Sampling Report
Former Chevron Service Station 90260
21995 Foothill Boulevard
Hayward, California
Fuel Leak Case No. RO0000383

Dear Mr. Detterman:

GHD Services Inc. (GHD) is submitting this *Private Well Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Field activities were performed as requested in ACEH's July 21, 2015 letter (Attachment A). The objectives were to determine the operational status of and sample two private private wells located at 1108 Rex Road and 22407 Rio Vista Street (Figure 2). The results of the investigation are presented below.

1. Site Description

The site is a former Chevron service station located at 21995 Foothill Boulevard on the western corner of the intersection of Foothill Boulevard and Rex Road in Hayward, California (Figure 1). The site was purchased by Chevron in 1985 from USA Petroleum Corporation. In October 1996, all station facilities, including three 10,000-gallon underground storage tanks (USTs) and product lines were removed (Figure 2). The site is currently a vacant landscaped lot and surrounding land use is residential and commercial.

2. Private Well Sampling and Results

After access was negotiated between Chevron and the property owners, private well sampling and inspection was performed by GHD and Blaine Tech Services (Blaine Tech) of San Jose, California on August 2, 2016. The well located at 1108 Rex Road is not in use; it was sampled using a disposable bailer. The well located at 22407 Rio Vista Street is currently used to irrigate the yard located at that address; it was sampled via an extraction port. Both samples were collected in laboratory provided containers. Blaine Tech's field sampling sheets are included as Attachment B.

Groundwater samples were labeled, logged on a chain-of-custody form, preserved on ice, and submitted to Eurofins Lancaster Laboratory Environmental, LLC (Lancaster) of Lancaster, Pennsylvania for analysis of the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by Environmental Protection agency (EPA) Method 8015; and
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8260B

The groundwater analytical report is included as Attachment C and groundwater sampling data is presented in Table 1.

The depth to groundwater in the well located at 1108 Rex Road was 18.43 feet below top of casing (ft btoc) and depth to bottom of well was 41.41 feet below grade. No depth to water measurements were collected at the well located at 22407 Rio Vista Street since the well is an active irrigation well and a sample could only be collected from an extraction port. On June 26, 2016, groundwater was measured at 19.90 ft btoc in Chevron groundwater monitoring well MW-14 and 18.86 ft btoc in Chevron groundwater monitoring well MW-16. Groundwater depths appear to be similar in the nearest shallow groundwater monitoring wells as compared to the depth to water in the 1108 Rex Road well.

No dissolved hydrocarbons were detected in either of the samples. No hydrocarbons originating from the site have affected the two private wells; therefore, no additional sampling is warranted.

Please contact Kiersten Hoey at (510) 420-3347 if you have any questions or require additional information.

Sincerely,

GHD

Kiersten Hoey

Brandon S. Wilken, PG 7564

CM/cw/61
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan and Private Wells
Table 1	Private Well Sampling Data
Attachment A	ACEH Correspondence
Attachment B	Blaine Tech Field Sampling Data Sheets
Attachment C	Laboratory Analytical Report

cc: Mr. Mark Horne, Chevron (*electronic copy*)
Mr. Hugh Murphy, City of Hayward Fire Department (*electronic copy*)
Allan Ray Hayward Investors LLC
Joao A. Machado
Thomas Stafford, Thomas Stafford Company (*electronic copy*)

Figures

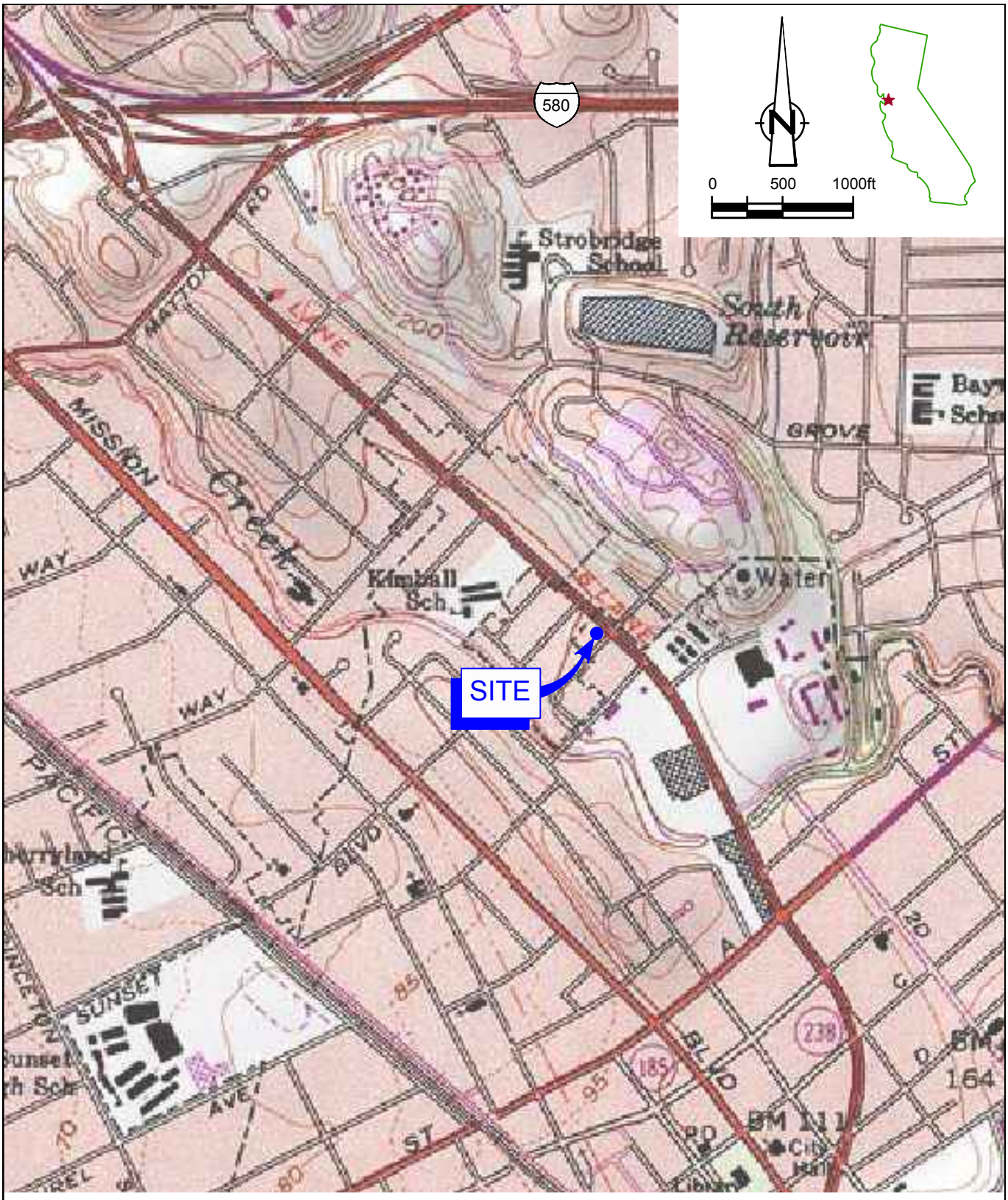


Figure 1

VICINITY MAP
FORMER CHEVRON SERVICE STATION 90260
21995 FOOTHILL BOULEVARD
Hayward, California

FOOTHILL BOULEVARD

TREATMENT SYSTEM ENCLOSURE

FORMER DISPENSER ISLANDS

COMMERCIAL

MW-6

MW-9

FORMER STANDARD SERVICE STATION NO.1230

MW-7

FORMER USTS

MW-4

MW-20

FORMER CHEVRON SERVICE STATION 9-0260

MW-19

MW-8

MW-22

MW-21

LEGEND

MW-1 ● MONITORING WELL LOCATION

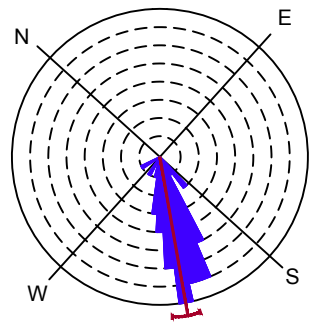
⊕ PRIVATE WELL LOCATION

MW-13

OAKVIEW AVENUE

MW-18

REX ROAD



HISTORIC GROUNDWATER FLOW DIRECTION
1999 THROUGH 1Q 2015

MW-15

MW-14

MW-23

RIO VISTA STREET

MW-16

RIO VISTA STREET

Private Well (Not in Use)
Located at 1108 Rex Road

Private Well (Used for Irrigation)
Located at 22407 RIio Vista Street

SAN LORENZO CREEK

ACCESS ROAD

Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Acquisition Date Oct/2013 - Nov/2013 Accessed: 2016

0 30 60ft

Coordinate System:
CA State Plane
Zone 3

GHD

FORMER CHEVRON SERVICE STATION 90260
21995 FOOTHILL BOULEVARD, HAYWARD, CALIFORNIA

311915-2016.3

Aug 30, 2016

SITE PLAN AND PRIVATE WELLS

Figure 2

CAD File: 311915-2016.3(061)GN-SO002.DWG

Table

Table 1

Private Well Sampling Data
Former Chevron Service Station 90260
21995 Foothill Boulevard
Hayward, California

		HYDROCARBONS	PRIMARY VOCS				
Location	Date	TPH-GRO	B	T	E	X	MTBE
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1108 Rex Rd	8/2/2016	<50	<0.5	<0.5	<0.5	<0.5	<0.5
22047 Rio Vista	8/2/2016	<50	<0.5	<0.5	<0.5	<0.5	<0.5
Trip blank	8/2/2016	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Abbreviations and Notes:

DTW = Depth to water

TD = Total depth

ft = Feet

µg/L = Micrograms per liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert-butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

Attachment A
ACEH Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

July 21, 2015

Mr. Mark Horne
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to markhorne@chevron.com)

Subject: Groundwater Monitoring; Fuel Leak Case No. RO0000383 (Global ID # T0600100315), Chevron #9-0260, 21995 Foothill Boulevard, Hayward, CA 94541

Dear Mr. Horne:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the *First Quarter 2015, Groundwater Monitoring and Sampling Report,* dated May 20, 2015, and the *Sub-Surface Investigation Report,* dated May 28, 2015. The reports were prepared and submitted on your behalf by Conestoga Rovers Associates (CRA). Thank you for submitting the reports.

The referenced investigation report documented the installation of four groundwater monitoring wells (MW-20 to MW-23) in to a deeper groundwater bearing zone on- and off-site, and the installation of three soil bores (SB-22 to SB-24) to shallow groundwater immediately adjacent and upgradient to the channelized San Lorenzo Creek.

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below.

TECHNICAL COMMENTS

1. **Quarterly Groundwater Monitoring and Sampling** – ACEH is in general agreement with the recommendation to conduct quarterly groundwater monitoring of the new wells, in conjunction with the semi-annual groundwater monitoring and sampling interval observed at other pre-existing wells at the site. Therefore, please conduct this work and submit quarterly groundwater monitoring reports by the dates referenced below.

2. **Condition of Private Water Wells** – ACEH understands that letters have been sent to the two private domestic water supply wells within the known plume area; however, responses have not been received back as of the date of the report. To reaffirm ACEH's interest in this question, ACEH again requests an assessment of the current use of the private water wells, collect a groundwater sample from the wells if the wells are in use or are serviceable, and determine the potential for future use of the wells as related by the property owners. As has been noted previously, current use may not be predictive of future use. Please submit a brief letter report by the date referenced below.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention below and schedule:

- **September 4, 2015** – Second Quarter 2015 Quarterly Groundwater Monitoring Report
  File to be named: RO383_GWM_R_yyyy-mm-dd

- **October 30, 2015** – Status of Private Water Supply Wells
  File to be named: RO383_SWI_R_yyyy-mm-dd

- **December 4, 2015** – Third Quarter 2015 Quarterly Groundwater Monitoring Report
  File to be named: RO383_GWM_R_yyyy-mm-dd

- **March 4, 2016** – Fourth Quarter 2015 Quarterly Groundwater Monitoring Report
  File to be named: RO383_GWM_R_yyyy-mm-dd

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. 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

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: 2015.07.21 13:06:03 -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: Nathan Lee, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to: NLee@craworld.com)

Dilan Roe, ACEH (Sent via E-mail to: dilan.roe@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Electronic File

Attachment 1

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:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 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
Blaine Tech Field Sampling Data Sheets

WELL GAUGING DATA

Project # 160602-DB1 Date 8/2/16 Client GHD

Site 21995 Foothill Blvd., Heyward

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
1108 Rose Rd.	1000	1.75'					18.43	41.41	TOC	
22047 Rose Villa	1075	—					—	—	—	

CHEVRON WELL MONITORING DATA SHEET

Project #: 160802 - DB1	Station #: 9-0260
Sampler: DB	Date: 8/2/16
Weather: Clear	Ambient Air Temperature:
Well I.D.: 1108 Rex Rd.	Well Diameter: 2 3 4 6 8 (1.75")
Total Well Depth: 41.41	Depth to Water: 18.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1005	71.0	5.19	242.1	88	—	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 8/2/16 Sampling Time: 1005 Depth to Water: 18.43

Sample I.D.: 1108 Rex Rd. Laboratory: (Lancaster) Other_____

Analyzed for: TPH-G BTEX MTBE OXYS Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 160802-D81	Station #: 9-0260
Sampler: DB	Date: 8/2/16
Weather: Clear	Ambient Air Temperature:
Well I.D.: 72047 Rio Vista	Well Diameter: 2 3 4 6 8 ____
Total Well Depth: —	Depth to Water: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

Bailer
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

— (Gals.) X — = — Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1027	73.6	6.31	896.3	6	—	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 8/2/16 Sampling Time: 1027 Depth to Water: —

Sample I.D.: 72047 Rio Vista Laboratory: Lancaster Other_____

Analyzed for: TPH-G BTEX MTBE OXYS Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 9-0260
Chevron Site Global ID: T0600100315
Chevron Site Address: 21995 Foothill Blvd., Hayward, CA
Chevron PM: Mark Horne
Chevron PM Phone No.: (925) 790-3964
☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD
Address: 5900 Hollis St., Ste. A, Emeryville, CA
Consultant Contact: Kiersten Hoey
Consultant Phone No. 510-420-3347
Consultant Project No. 160802-DB1
Sampling Company: Blaine Tech Services
Sampled By (Print): Dustin Becker
Sampler Signature: [signature]

Charge Code: **NWRTB-0098247-0-OML**
NWRTB 00SITE NUMBER-0-WBS
(WBS ELEMENTS:
SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
☒ Lancaster, PA
Lab Contact: Amek Carter
2425 New Holland Pike, Lancaster, PA 17601
Phone No: (717)656-2300

Other Lab

Temp. Blank Check Time	Temp.
0500	2°C
1005	2°C

ANALYSES REQUIRED

Preservation Codes: H = HCL T = Thiosulfate; N = HNO_3 B = NaOH; S = H_2SO_4 O = Other

Special Instructions: Must meet lowest detection limits possible for 8260 compounds.

Preservation row: H (EPA 8260B/GC/MS), H (EPA 8015B)

Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 8260B/GC/MS TPH-G☐ BTEX☒ MTBE☒ OXYGENATES☐ HVOC☐	EPA 8015B GRO☒ DRO☐ ORO☐ HC SCREEN☐	EPA 8021B BTEX☐ MTBE☐	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA6010/7000 TITLE 22 METALS☐ TTLC☐ STLC☐	EPA150.1 PH☐ EPA 310.1 ALKALINITY☐	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH☐ EPA 413.1 OIL & GREASE☐	EPA 8260 ETHANOL	EPA 8015 TPH-D☐		Notes/Comments
1108 Rex Rd.	W		160802	1005	5	VOA	X	X										
22047 Rio Vista	W		160802	1027	5	VOA	X	X										
QA-W-160802	W		160802	0900	2	VOA	X	X										

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
[signature]	BB	8/2/16 / 1200	[signature]	BB	8/2/16 / 1200
[signature]	BB	8/4/16 / 1500 ※			

Turnaround Time: Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: ____ On Ice: ____ Temp: ____
COC #

※ SHIPPED VIA UPS 8/4/16 @ 1500

WELLHEAD INSPECTION CHECKLIST

Client GHD Date 8/2/16

Site Address 21995 Foothill Blvd., Hayward

Job Number 160802-DB1 Technician DB

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
1108 Rex Rd.	X									
22047 Rio Vista	X									

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 21795 Foothill Blvd., Hayward				PROJECT NUMBER 160802-D81			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
ULTRAMETER II	6213897	8/2/16 0730	pH 7.00 10.00 4.00	7.00 10.00 4.00	✓ ✓ ✓	24.7°C	DB

Attachment C
Laboratory Analytical Report

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Report Date: August 15, 2016

Project: 90260

Submittal Date: 08/05/2016
Group Number: 1691580
PO Number: 0015195460
Release Number: HORNE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
1108 Rex Rd-W-160802 NA Water	8511107
22047 Rio Vista-W-160802 NA Water	8511108
QA-T-160802-W-160802 NA Water	8511109

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	GHD	Attn: Kiersten Hoey
Electronic Copy To	Chevron	Attn: Anna Avina
Electronic Copy To	Blaine Tech Services, Inc.	Attn: Dustin Becker
Electronic Copy To	Chevron	Attn: Report Contact

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: 1108 Rex Rd-W-160802 NA Water
Facility# 90260 BTST
21995 Foothill-Hayward T0600100315

LL Sample # WW 8511107
LL Group # 1691580
Account # 10991

Project Name: 90260

Collected: 08/02/2016 10:05 by DB

Submitted: 08/05/2016 12:30
Reported: 08/15/2016 08:41

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FBHRR

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX/MTBE	SW-846 8260B	1	Z162214AA	08/09/2016 01:30	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z162214AA	08/09/2016 01:30	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16224A53A	08/12/2016 21:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16224A53A	08/12/2016 21:55	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: 22047 Rio Vista-W-160802 NA Water
Facility# 90260 BTST
21995 Foothill-Hayward T0600100315

LL Sample # WW 8511108
LL Group # 1691580
Account # 10991

Project Name: 90260

Collected: 08/02/2016 10:27 by DB

Submitted: 08/05/2016 12:30
Reported: 08/15/2016 08:41

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FBHRV

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX/MTBE	SW-846 8260B	1	Z162214AA	08/09/2016 01:54	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z162214AA	08/09/2016 01:54	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16224A53A	08/12/2016 22:23	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16224A53A	08/12/2016 22:23	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: QA-T-160802-W-160802 NA Water
Facility# 90260 BTST
21995 Foothill-Hayward T0600100315

LL Sample # WW 8511109
LL Group # 1691580
Account # 10991

Project Name: 90260

Collected: 08/02/2016 09:00

Submitted: 08/05/2016 12:30
Reported: 08/15/2016 08:41

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FBHQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX/MTBE	SW-846 8260B	1	Z162214AA	08/08/2016 23:25	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z162214AA	08/08/2016 23:25	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16224A53A	08/12/2016 20:06	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16224A53A	08/12/2016 20:06	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron
Reported: 08/15/2016 08:41

Group Number: 1691580

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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: Z162214AA	Sample number(s): 8511107-8511109		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Methyl Tertiary Butyl Ether	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 16224A53A	Sample number(s): 8511107-8511109		
TPH-GRO N. CA water C6-C12	N.D.	50	100

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: Z162214AA	Sample number(s): 8511107-8511109								
Benzene	20	18.47			92		78-120		
Ethylbenzene	20	18.62			93		78-120		
Methyl Tertiary Butyl Ether	20	20.76			104		75-120		
Toluene	20	18.78			94		80-120		
Xylene (Total)	60	56.93			95		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16224A53A	Sample number(s): 8511107-8511109								
TPH-GRO N. CA water C6-C12	1100	1125.06	1100	1130.16	102	103	77-120	0	30

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: Z162214AA	Sample number(s): 8511107-8511109 UNSPK: P508163									
Benzene	N.D.	20	19.58	20	19.63	98	98	78-120	0	30
Ethylbenzene	N.D.	20	19.73	20	19.76	99	99	78-120	0	30
Methyl Tertiary Butyl Ether	N.D.	20	21.07	20	21.79	105	109	75-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 08/15/2016 08:41

Group Number: 1691580

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Toluene	N.D.	20	19.95	20	20.05	100	100	80-120	0	30
Xylene (Total)	N.D.	60	59.69	60	60.65	99	101	80-120	2	30

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: BTEX/MTBE
Batch number: Z162214AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8511107	97	100	98	95
8511108	97	100	99	96
8511109	97	100	100	96
Blank	98	99	98	96
LCS	95	99	100	99
MS	95	101	98	98
MSD	96	100	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16224A53A

	Trifluorotoluene-F
8511107	106
8511108	108
8511109	107
Blank	106
LCS	112
LCSD	111
Limits:	63-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

10991 / 1691580 / 8511107-09

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 9-0260
Chevron Site Global ID: T0600100315
Chevron Site Address: 21995 Foothill Blvd., Hayward, CA
Chevron PM: Mark Horne
Chevron PM Phone No.: (925) 790-3964
☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD
Address: 5900 Hollis St., Ste. A, Emeryville, CA
Consultant Contact: Kiersten Hoey
Consultant Phone No. 510-420-3347
Consultant Project No. 160802 - DB1
Sampling Company: Blaine Tech Services
Sampled By (Print): Dustin Becker
Sampler Signature:

Charge Code: NWRTB-0098247-0-OML
NWRTB 00SITE NUMBER-0- WBS
(WBS ELEMENTS:
SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
☒ Lancaster, PA
Lab Contact: Amek Carter
2425 New Holland Pike, Lancaster, PA 17601
Phone No: (717)656-2300

Other Lab

Temp. Blank Check

Time	Temp.
0900	2°C
1002	2°C

SAMPLE ID

Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type
1108 Rex Rd.	W		160802	1005	5	VOA
22047 Rio Vista	W		160802	1027	5	VOA
QA-W-160802	W		160802	0900	2	VOA

ANALYSES REQUIRED

A	H											Preservation Codes
EPA 8260B/GC/MS TPH-G ☐ BTEX ☒ MTBE ☒ OXYGENATES ☐ HVOC ☐	EPA 8015B GRO ☒ DRO ☐ ORO ☐ HC SCREEN ☐	EPA 8021B BTEX ☐ MTBE ☐	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA6010/7000 TITLE 22 METALS ☐ TTLC ☐ STLC ☐	EPA150.1 PH ☐	EPA 310.1 ALKALINITY ☐	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH ☐	EPA 413.1 OIL & GREASE ☐	EPA 8260 ETHANOL	EPA 8015 TPH-D ☐		H =HCL T= Thiosulfate N =HNO_3 B = NaOH S = H_2SO_4 O = Other
X	X												
X	X												
X	X												

Special Instructions
Must meet lowest detection limits possible for 8260 compounds.

Notes/Comments

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
	BTS	8/2/16 / 1200		BTS	8/2/16 / 1200
	BTS	8/4/16 / 1500			
				ELLE	8.5.16 / 1230

Turnaround Time:
Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: ✓ On Ice: ✓ Temp: 4.8

COC #

* SHIPPED VIA FEDEX 8/4/16 @ 1500

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 156995

Group Number(s): 1691580

Client: Chevron

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	08/05/2016 9:20
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 13:50 on 08/05/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) 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.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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