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Third Quarter 2016 LNAPL Monitoring Report and Case Closure Request

Chevron-branded Service
Station 90504
15900 Hesperian Boulevard
San Lorenzo, California

Prepared for:
Chevron Environmental
Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, CA 95032

October 28, 2016

Carryl MacLeod
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-3201
CMacleod@chevron.com

October 28, 2016

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Third Quarter 2016 LNAPL Monitoring Report and Case Closure Request* for Chevron-branded service station 90504, located at 15900 Hesperian Boulevard in San Lorenzo, California. This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 ext. 238, or travis.flora@stantec.com.

Sincerely,

Carryl MacLeod

Carryl MacLeod
Project Manager

October 28, 2016

Attention: **Mr. Mark Detterman**
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Reference: **Third Quarter 2016 LNAPL Monitoring Report and Case Closure Request**
Chevron-branded Service Station 90504
15900 Hesperian Boulevard, San Lorenzo, California

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Third Quarter 2016 LNAPL Monitoring Report and Case Closure Request* for Chevron-branded service station 90504, which is located at 15900 Hesperian Boulevard, San Lorenzo, Alameda County, California (Site - shown on **Figure 1** and **Figure 2**). This report is presented in four sections: Site Background, LNAPL Monitoring, Low-Threat Closure Evaluation, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is an active Chevron-branded service station located on the eastern corner at the intersection of Hesperian Boulevard and Post Office Road in San Lorenzo, California. The Site has been occupied by a service station since approximately 1969. Current Site features include three 10,000-gallon fiberglass gasoline underground storage tanks (USTs), one 10,000-gallon fiberglass diesel UST, three fuel dispenser islands, and a station building with three service bays. The USTs are located in the southern portion of the Site, the fuel dispenser islands are located in the central portion of the Site, and the station building is located in the northeastern portion of the Site. In 1983, two 10,000-gallon and one 5,000-gallon steel USTs were replaced with the current fiberglass tanks. In January 1994, the fuel dispenser islands were replaced, and in March 1994, a 1,000-gallon steel waste oil UST located northeast of the station building was replaced with a 1,000-gallon fiberglass UST, which was later removed in 2001.

Land use near the Site consists primarily of commercial and residential properties. The Site is bounded on the northwest by Post Office Road, to the northeast by a parking lot for the post office, to the southeast by a commercial building, and on the southwest by Hesperian Boulevard. A Site Plan is shown on **Figure 2**.

LNAPL MONITORING

A summary of the light non-aqueous phase liquid (LNAPL) monitoring efforts conducted at well C-2 since 2012 are included in the following paragraphs and **Table 1**. Field data sheets associated with the LNAPL monitoring are included in **Attachment A**.

On March 23, 2012, measurable LNAPL was observed in well C-2 for the first time since 1991, at a thickness of 0.30 feet. In a letter dated July 13, 2012, Alameda County Environmental Health (ACEH)

requested continuing appropriate and timely efforts to abate and recover the LNAPL from well C-2 and a LNAPL Recovery Status Report summarizing activities. The *LNAPL Recovery Status Report* was submitted on August 31, 2012, and described the LNAPL recovery efforts conducted during August 2012, which consisted of weekly monitoring of well C-2 and recovery of LNAPL, if present. A new absorbent sock was placed in the well following each recovery event. During August 2012, approximately 200 milliliters (mL) of LNAPL and approximately 5 liters (L) of total fluids (LNAPL and groundwater mixture) were recovered from well C-2. Due to the decreasing volume of LNAPL recovered from well C-2, recommendations in the report included reducing the LNAPL monitoring and recovery event frequency at well C-2 from weekly to monthly.

Stantec conducted the first monthly LNAPL monitoring event on September 14, 2012. No measurable LNAPL was observed during the event; therefore, no LNAPL was recovered, but the absorbent sock within well C-2 was replaced. During Fourth Quarter 2012, First Quarter 2013, Second Quarter 2013, and Third Quarter 2013, LNAPL monitoring and recovery events were conducted monthly at well C-2. No LNAPL was measured during any of the events conducted during Fourth Quarter 2012 and First Quarter 2013, but the absorbent sock was replaced following the November and December 2012 events, and sheen was observed during the February 2013 event. During Second Quarter 2013, no LNAPL was measured during events conducted in April and May 2013, but the absorbent sock was replaced following the April 2013 event due to discoloration. Following the May 2013 event, Stantec proceeded with removal of the absorbent sock from well C-2. During the June 2013 event, Stantec measured a LNAPL thickness of 0.01 feet; however, no LNAPL or sheen was noted by Gettler-Ryan Inc. (G-R) four days later on June 11, 2013, during the routine groundwater monitoring and sampling event. During Third Quarter 2013, no measurable LNAPL or sheen was observed during any of the monthly events, so no LNAPL recovery was conducted; however, sheen was noted by G-R during the Third Quarter 2013 groundwater monitoring and sampling event conducted on September 10, 2013.

Following Third Quarter 2013, the frequency of LNAPL monitoring events at well C-2 were reduced to quarterly starting Fourth Quarter 2013 and continuing First Quarter 2014, Second Quarter 2014, Third Quarter 2014, and Fourth Quarter 2014. No measurable LNAPL or sheen was observed during any of these quarterly events; therefore, no LNAPL recovery was conducted. In addition, G-R did not observe measurable LNAPL or sheen during the Fourth Quarter 2013, First Quarter 2014, Second Quarter 2014, Third Quarter 2014, and Fourth Quarter 2014 groundwater monitoring and sampling events. Stantec discontinued LNAPL monitoring events at well C-2 following Fourth Quarter 2014, because no LNAPL or sheen had been observed since Third Quarter 2013.

G-R reportedly observed LNAPL in well C-2 during Second Quarter 2015 at a thickness of 0.02 feet, so G-R conducted quarterly LNAPL monitoring events starting Fourth Quarter 2015 and continuing First Quarter 2016, Second Quarter 2016, and Third Quarter 2016. No measurable LNAPL or sheen was observed during any of these quarterly events. In addition, as shown in Stantec's July 31, 2015, *Soil and Groundwater Investigation Report*, soil samples collected near C-2 did not exhibit any characteristics of free product.

In the *Second Quarter 2016 Semi-Annual Groundwater Monitoring Report*, Stantec indicated that if no LNAPL is observed at the Site during Third Quarter 2016, then the LTCP groundwater-specific criteria scenario 2 will be considered satisfied and case closure will be requested. G-R performed the Third Quarter 2016 LNAPL monitoring event at well C-2 on July 13, 2016. No measurable LNAPL or sheen was observed during that event. Field data sheets for the Third Quarter 2016 LNAPL monitoring event are included in **Attachment A**.

LOW-THREAT CLOSURE EVALUATION

This section evaluates the Site compared to the State Water Resources Control Board (SWRCB) Low-Threat Underground Storage Tank Case Closure Policy (LTCP) criteria based on the LTCP checklist uploaded to GeoTracker™ by ACEH, dated November 20, 2015, while also considering the recent groundwater and LNAPL monitoring data.

Please refer to Stantec's *Site Conceptual Model*, dated April 28, 2014, *Soil and Groundwater Investigation Report*, dated July 31, 2015, and *Second Quarter 2016 Semi-Annual Groundwater Monitoring Report*, dated June 6, 2016, for historical soil and groundwater results, and associated figures.

General Criteria

- **Is the unauthorized release located within the service area of a public water system?**

  Yes. The Site is located within the service area of the East Bay Municipal Utility District.

- **Does the unauthorized release consist only of petroleum?**

  Yes. The constituents of concern (COCs) at the Site are petroleum hydrocarbons associated with gasoline, diesel, and waste oil hydrocarbons from an active service station, including total petroleum hydrocarbons as gasoline range organics (TPH-GRO), total petroleum hydrocarbons as diesel range organics (TPH-DRO), total petroleum hydrocarbons as motor oil (TPH-MO), and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds).

- **Has the unauthorized ("primary") release from the UST system been stopped?**

  Yes. As documented in the Cambria Environmental Technology, Inc. *Site Closure Request*, dated March 26, 2004, in December 1983, two 10,000-gallon and one 5,000-gallon steel USTs (first-generation) were replaced with the existing fiberglass USTs (second-generation), along with associated product lines. Approximately 120 cubic yards of impacted soil were excavated and removed from the Site at that time.

  The dissolved-phase petroleum hydrocarbon plume associated with the Site is stable to decreasing in overall size and concentration, which indicates that there is no longer a petroleum hydrocarbon source propagating at the Site. Additionally, soil samples collected during the April 2015 investigation (documented in Stantec's *Soil and Groundwater Investigation Report*) did not exhibit any concentrations that would suggest an ongoing or new release.

- **Has free product been removed to the maximum extent practicable (per CCR Chapter 16 Section 2655 a-c)?**

  Yes. Free product has been removed to the maximum extent practicable. LNAPL has only been observed historically in wells C-1 and C-2. Measurable LNAPL or sheen have not been observed in well C-1 since Fourth Quarter 1990, and in well C-2 since Second Quarter 2015. In addition to the details provided in the previous section, it should be noted that measurable LNAPL was reported in well C-2 during 6 of 39 monitoring events over four years between March 2012 and July 2016 (**Table 1**). The maximum thickness of LNAPL in well C-2 was reported to be 0.30 feet in March 2012. Since then, LNAPL thickness in well C-2 has declined (between

0.01 and 0.10 in the five subsequent occurrences) or has not been detected. LNAPL or sheen has not been observed in well C-2 since Second Quarter 2015, and soil samples collected during the April 2015 investigation from borings SB-4 and SB-5 (**Figure 2**), which are near well C-2 and the USTs, did not exhibit any concentrations that suggest a significant LNAPL source remains in that area.

- **Has a Conceptual Site Model (CSM) that assesses the nature, extent, and mobility of the release been developed?**

  Yes. The *Site Conceptual Model* was submitted on April 28, 2014, and the results of the April 2015 investigation and recent groundwater and LNAPL monitoring further refine the CSM.

- **Has secondary source been removed to the extent practicable?**

  Yes. Historical remedial efforts, described in the *Site Conceptual* Model, included UST replacement and over-excavation of soil. Soil concentrations reported during the April 2015 investigation were all below method detection limits (MDLs) or environmental screening levels (ESLs), and measurable LNAPL or sheen have not been observed in well C-2 since Second Quarter 2015, which indicate that secondary source has been removed to the extent practicable. Additional secondary source removal is not warranted.

- **Has soil or groundwater been tested for methyl *tertiary*-butyl ether (MtBE) and results reported in accordance with Health and Safety Code section 25296.15?**

  Yes. MtBE was analyzed in soil samples collected in association with the Site beginning in June 2001. MtBE was routinely analyzed in groundwater during monitoring and sampling events since Fourth Quarter 1995. Results have been reported to ACEH and uploaded to GeoTracker™.

- **Does nuisance as defined by Water Code section 13050 exist at the site? A "nuisance" is defined as anything which meets the following (1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property; (2) Affects at the same time an entire community or neighborhood; (3) Occurs during, or as a result of, the treatment or disposal of wastes.**

  No. The conditions of "nuisance" as defined by Water Code section 13050 do not exist at the Site.

- **Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?**

  No. There are no unique Site attributes or Site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents.

Media-Specific Criteria

Groundwater-Specific Criteria

Current and historical groundwater quality data indicate the dissolved-phase petroleum hydrocarbon plume at the Site is stable to decreasing in overall size and concentration.

Media-specific criteria for groundwater have been categorized based on:

1. The length of contaminant plume;

2. Presence of free product;

3. Distance to nearest existing water supply well or surface water body; and

4. Concentrations of dissolved-phase benzene and MtBE.

Site conditions meet the groundwater-specific criteria under scenario #2 of the LTCP. The aspects of this scenario followed by the Site-specific information supporting its applicability are as follows:

- **"The contaminant plume that exceeds water quality objectives is less than 250 feet in length."**

    - An off-Site groundwater investigation was conducted in April 2015, with the advancement of boring SB-10 in Hesperian Boulevard (**Figure 2**). A grab groundwater sample was collected, and the only analyte detected above MDLs was TPH-GRO at 57 micrograms per liter (µg/L), which is below the associated ESL of 100 µg/L. The direction of groundwater flow has historically been towards the southwest at an approximate hydraulic gradient ranging from 0.003 to 0.014 feet per foot (ft/ft). Analytical results for the grab groundwater sample collected from boring SB-10, combined with groundwater results from Second Quarter 2016, define the length of the plume to be less than 250 feet from the source area.

- **"There is no free product."**

    - As described in the LNAPL Monitoring and LTCP General Criteria sections of this report, free product (LNAPL) is no longer present.

- **"The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary."**

    - As described in Stantec's *Site Conceptual Model* for this Site, no water supply wells or surface water bodies have been identified within 1,000 feet of the plume boundary. The nearest water supply well is an irrigation well located approximately 1,070 feet northeast (up-gradient) of the Site. The nearest surface water body identified is San Lorenzo Creek, which is located approximately 1,200 feet north-northwest (cross-gradient) of the Site.

- **"The dissolved concentration of benzene is less than 3,000 µg/L, and the dissolved concentration of MtBE is less than 1,000 µg/L."**

    - As described in Stantec's *Second Quarter 2016 Semi-Annual Groundwater Monitoring Report*, benzene was not detected above MDLs in any Site well during Second Quarter 2016, and MtBE analysis was discontinued following the Fourth Quarter 2013 sampling event, because MtBE had not been detected above MDLs in any Site well since Third Quarter 2012.

Petroleum Vapor Intrusion to Indoor Air Criteria

The Site is exempt from satisfying the petroleum vapor intrusion to indoor criteria, because the Site is an active, commercial petroleum fueling facility, and it is reasonably believed there are no unacceptable health risks resulting from exposure to indoor air.

Direct Contact and Outdoor Air Exposure Criteria

Current and historical soil samples, included in Stantec's *Site Conceptual Model* and *Soil and Groundwater Investigation Report*, demonstrate that Site conditions satisfy the LTCP direct contact and outdoor air exposure criteria. Concentrations of benzene, ethylbenzene, naphthalene, and polynuclear aromatic hydrocarbons (PAHs) are less than or equal to the maximum concentrations listed in Table 1 of the LTCP for specified depths at a commercial/industrial property.

CONCLUSIONS AND RECOMMENDATIONS

Based on current and historical data, the Site meets all general and media-specific criteria of the LTCP. In the Path to Closure Plan on GeoTracker, dated November 20, 2015, the only remaining impediment to closure was LNAPL verification monitoring for 9 months, which is now complete; therefore, Stantec recommends ACEH evaluate the Site for case closure. No further groundwater or LNAPL monitoring activities will be conducted at the Site while ACEH reviews and evaluates the Site for case closure.

If you have any questions, please contact the Stantec Project Manager, Travis Flora, at (408) 356-6124 or Travis.Flora@stantec.com.

LIMITATIONS

This document entitled Third Quarter 2016 LNAPL Monitoring Report and Case Closure Request was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by Marisa Kaffenberger
(signature)

Marisa Kaffenberger
Senior Engineer

Reviewed by
(signature)

Travis L. Flora
Senior Project Manager

Reviewed by Dorota Runyan
(signature)

Dorota Runyan, P.E.
Senior Engineer

Attachments:

Table 1 – LNAPL Monitoring Data Since 2012 – Well C-2

Figure 1 – Site Location Map
Figure 2 – Site Plan

Attachment A – LNAPL Monitoring Field Data Sheets – First Quarter 2012 through Third Quarter 2016

cc:

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583 – Electronic Copy

Mr. Scott Bohannon, Bohannon Organization, 60 31st Avenue, San Mateo, CA 94403 – Electronic Copy

Mr. Bob Webster, Bohannon Organization, 60 31st Avenue, San Mateo, CA 94403 – Electronic Copy

TABLES

Table 1

LNAPL Monitoring Data Since 2012 - Well C-2

Chevron-branded Service Station 90504
15900 Hesperian Boulevard
San Lorenzo, California

Date	LNAPL Thickness (feet)	Comments
03/23/12	0.30	
08/03/12	0.10	100 mL LNAPL and 2 L mixture groundwater and LNAPL removed; absorbent sock installed
08/10/12	0.08	100 mL LNAPL and 3 L mixture groundwater and LNAPL removed; absorbent sock replaced
08/15/12	0.00	Sheen; absorbent sock replaced
08/24/12	0.00	Absorbent sock replaced
08/30/12	0.00	Absorbent sock replaced
09/04/12	0.03	Groundwater monitoring event
09/14/12	0.00	Absorbent sock replaced
10/11/12	0.00	
11/16/12	0.00	Absorbent sock replaced
12/07/12	0.00	Groundwater monitoring event
12/20/12	0.00	Absorbent sock replaced
01/10/13	0.00	
02/08/13	0.00	Sheen
03/07/13	0.00	
03/12/13	0.00	Groundwater monitoring event
04/04/13	0.00	Absorbent sock replaced
05/01/13	0.00	Absorbent sock removed
06/07/13	0.01	
06/11/13	0.00	Groundwater monitoring event
07/12/13	0.00	
08/07/13	0.00	
09/10/13	0.00	Groundwater monitoring event; sheen
09/20/13	0.00	
10/07/13	0.00	
12/04/13	0.00	Groundwater monitoring event
01/13/14	0.00	
02/07/14	0.00	Groundwater monitoring event
04/07/14	0.00	
06/25/14	0.00	Groundwater monitoring event
07/21/14	0.00	
08/29/14	0.00	Groundwater monitoring event
10/13/14	0.00	
12/12/14	0.00	Groundwater monitoring event
06/01/15	0.02	Groundwater monitoring event
10/23/15	0.00	Combined LNAPL and groundwater monitoring event
01/08/16	0.00	
04/07/16	0.00	Combined LNAPL and groundwater monitoring event
07/13/16	0.00	

Notes:
LNAPL = light non-aqueous phase liquid
mL = milliliters
L = liters

FIGURES

REFERENCE: USGS 7.5 MINUTE QUADRANGLES;
SAN LEANDRO, CALIFORNIA; 2012 AND HAYWARD, CALIFORNIA; 2012

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
PHONE: (408)356-6124 FAX: (408)356-6138

FOR:		FIGURE:
CHEVRON-BRANDED SERVICE STATION 90504 15900 HESPERIAN BOULEVARD SAN LORENZO, CALIFORNIA	SITE LOCATION MAP	1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602395	JRO	EEO/MRK	TLF	05/02/16

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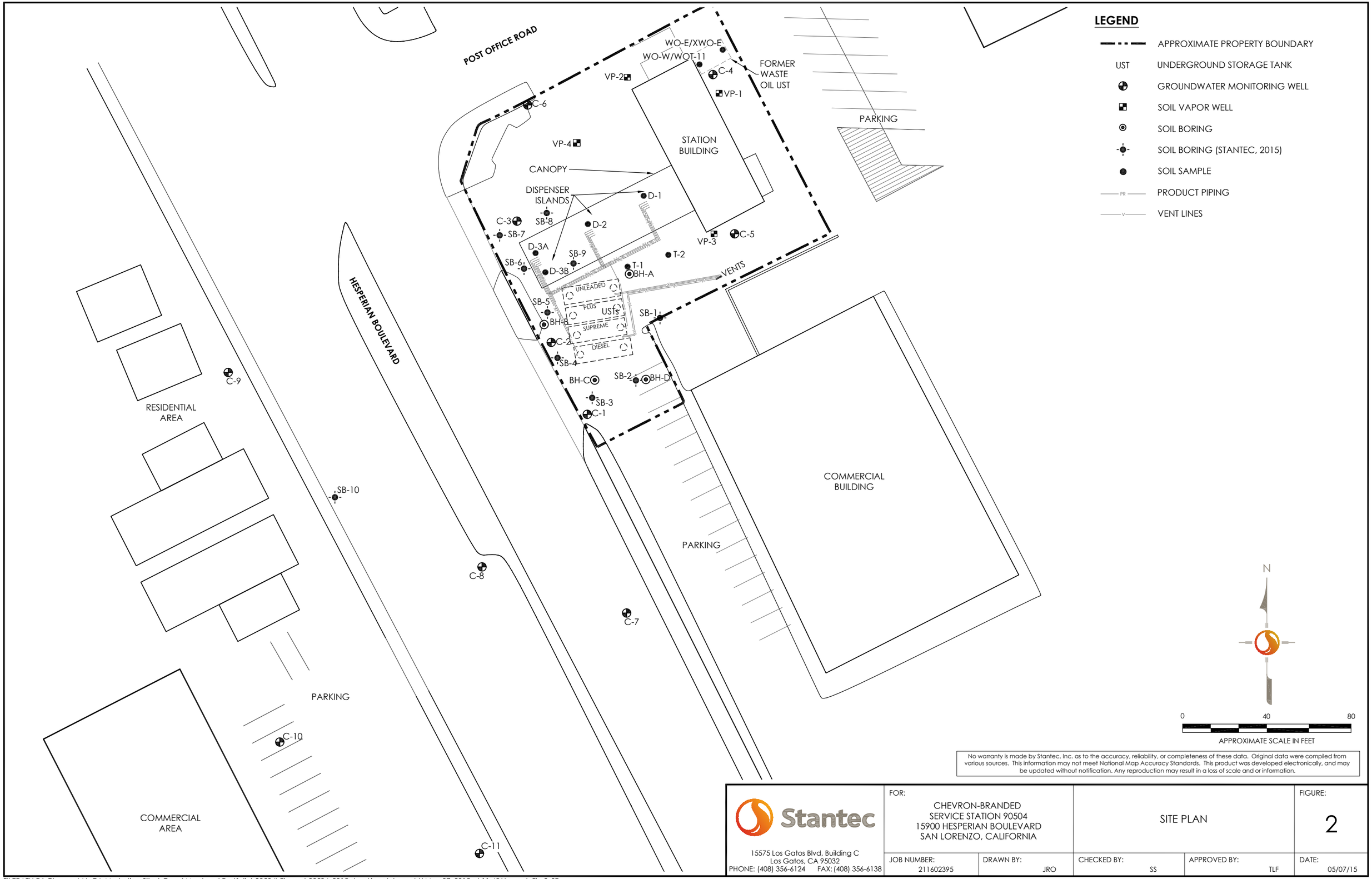

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- UST — UNDERGROUND STORAGE TANK
- GROUNDWATER MONITORING WELL
- SOIL VAPOR WELL
- SOIL BORING
- SOIL BORING (STANTEC, 2015)
- SOIL SAMPLE
- PR — PRODUCT PIPING
- V — VENT LINES

N

0 40 80

APPROXIMATE SCALE IN FEET

Stantec
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
PHONE: (408) 356-6124 FAX: (408) 356-6138

FOR:
CHEVRON-BRANDED
SERVICE STATION 90504
15900 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602395	JRO	SS	TLF	05/07/15

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ATTACHMENT A
LNAPL Monitoring Field Data Sheets –
First Quarter 2012 through Third Quarter 2016

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 3/23/12 (inclusive)
City: San Lorenzo, CA Sampler: GM

Well ID C-2
Well Diameter 2 (3)
Total Depth 19.35 ft.
Depth to Water 9.71 ft.
9.64 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Date Monitored: 3/23/12

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

☐ Check if water column is less then 0.50 ft.

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

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

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: 9.41 ft
Depth to Water: 9.71 ft
Hydrocarbon Thickness: 0.30 ft
Visual Confirmation/Description: LT BROWN
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C) F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO (8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO (8015)

COMMENTS: SPH PRESENT NO SAMPLE TAKEN
PICTURE TAKEN

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 8/3/12 Project Name: Chevron 90504

Field Technician: TAYLOR CUELLAR/CLARK MAHT Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y ~~N~~ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	12:00	10.13	10.23	—	Y	N	N	PURGED APPROX 2 LITERS H_2O & 100 mL SPH

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 8/10/2012 Project Name: Chevron 90504

Field Technician: CLAZK MAKI Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y ~~N~~ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	14:45	10.17	10.25	—	Y	N	N	PURGED APPROX. 3 LITERS H_2O ~100 mL SPH

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: @ 8/15/12 Project Name: Chevron 90504

Field Technician: CLAIRE MANLEY/TAYLOR COWAN Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y___ N___ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N___

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	10:40	10.25	10.26	—	N	Y	N	NO SPH REMOVED

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 8/24/12

Project Name: Chevron 90504

Field Technician: C. MAHE

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated ~~Y~~ ___ N___

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N___

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:55	—	10.30	—	—	—	—	H2O MEMBRANE SPM

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 8/30/12 **Project Name:** Chevron 90504

Field Technician: CLAIR MAHI **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y___ N___

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N___

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:45	—	10.35	—	N	—	—	NO LNAPL MEASURED/ REMOVED

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 9-4-11 (inclusive)
City: San Lorenzo, CA Sampler: FT

Well ID C-2 Date Monitored: 9-4-11
Well Diameter 2 (3)
Total Depth 19.35 ft.
Depth to Water 10.39 ft.

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

☐ Check if water column is less then 0.50 ft.

8.96 xVF ~ = ~ x3 case volume = Estimated Purge Volume: ~ gal.

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

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

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

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: 10.36 ft
Depth to Water: 10.39 ft
Hydrocarbon Thickness: .03 ft
Visual Confirmation/Description: ~
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)

COMMENTS: ABSORBENT SOCK IN WELL, IT IS IN A SCREENED MESH WIRE. 21" x 33" VAULT

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 9/14/2012 **Project Name:** Chevron 90504

Field Technician: CLARK MANT **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated ~~Y~~ ~~N~~

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:45	—	10.45	—	N	—	N	NO MEASURABLE BNAPL

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 10/11/2012 **Project Name:** Chevron 90504

Field Technician: CLARK MAUI **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	13:15	NA	10.56	18.15	N	N	N	NO LNAPL MEASURED
										DID NOT REPLACE SOCK

11/16/12

AX 90504
16900 Hesperian, San Lorenzo

FIELD NOTES:

- Depart to Site
- Arrive on Site no SPH observed or measured. SPH Recovery Sock was Replaced & stored on on-site Storage Drum. (Very little SPH in Drum
  ↳ Call Travis w/ Depth
- Departed Depart Site to office.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**

Site Address: **15900 Hesperian Blvd.** Event Date: 12/7/12 (inclusive)

City: **San Lorenzo, CA** Sampler: GM

Well ID C-2 Date Monitored: 12/7/12

Well Diameter 2 (3)

Total Depth 19.35 ft.

Depth to Water 9.12 ft.

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

☐ Check if water column is less then 0.50 ft.

10.23 xVF 0.38 = 3.89 x3 case volume = Estimated Purge Volume: 12 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.16

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	✓
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): 1205 Weather Conditions: Sunny

Sample Time/Date: 1248 / 12/7/12 Water Color: GRAY Odor (Y) N SLIGHT

Approx. Flow Rate: — gpm. Sediment Description: SILT

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.83

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ~~- pS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1210	4	7.09	0.22	22.6		
1216	8	7.11	0.15	22.1		
1222	12	7.13	0.17	21.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	3 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)

COMMENTS:

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 12/20/12 **Project Name:** Chevron 90504

Field Technician: CLARK MAULT **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ~

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	11:00	—	9.18		N	N	N	REPLACED SOCK

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 1/10/13 **Project Name:** Chevron 90504

Field Technician: J. Cuevas **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y___ N___ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y___ N___

Holes, cracks, or corrosion observed on drum Y___ N X

Bucket
~~Drum~~ is properly sealed and in secondary containment Y X N___

Label is attatched to drum and properly completed Y X N___

Estimated total volume in drum 0

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1015	NA	8.93	NM	N	NM	NA	

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 2-6-13 **Project Name:** Chevron 90504

Field Technician: SUCHEON SUNG **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N____

Holes, cracks, or corrosion observed on drum Y____ N X

Drum is properly sealed and in secondary containment Y X N____

Label is attatched to drum and properly completed Y X N____

Estimated total volume in drum _____

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1200	ND	9.35	—	N	Y	N	SHEEN/ GAS ODOR

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 3-7-13 **Project Name:** Chevron 90504

Field Technician: S. SUNG / T. CUEVAS **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ________

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA		—	9.56	—	N	Y	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 3-12-13 (inclusive)
City: San Lorenzo, CA Sampler: FT & AM

Well ID C-2 Date Monitored: 3-12-13
Well Diameter 2 (3)
Total Depth 19.35 ft.
Depth to Water 9.61 ft.

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

☐ Check if water column is less then 0.50 ft.

9.74 xVF .38 = 3.70 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.55

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump ✓
- Suction Pump
- Grundfos
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer ✓
- 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): 1525 Weather Conditions: SUNNY
Sample Time/Date: 1543 / 3-12-13 Water Color: GRAY Odor: (Y) / N STRONG
Approx. Flow Rate: ≈ 2.0 gpm. Sediment Description: SILTY
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.81

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1527	3.5	7.27	875	18.3		
1529	7.0	7.24	881	18.9		
1531	11.0	7.21	889	19.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	1 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)

COMMENTS: SOCK IN WELL

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

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 4/4/13

Project Name: Chevron 90504

Field Technician: CLARK MANI

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y___ N___ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y___ N___ NA

Holes, cracks, or corrosion observed on drum Y___ N X

Drum is properly sealed and in secondary containment Y X N___

Label is attatched to drum and properly completed Y X N___

Estimated total volume in drum 1 SOAK CASE NO LIQUID/SOLID

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	12:40	—	9.55	—	N	N	N	

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 5/1/13 **Project Name:** Chevron 90504

Field Technician: CLAIR MAHI **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y___ N___ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y___ N___ NA

Holes, cracks, or corrosion observed on drum Y___ N X

Drum is properly sealed and in secondary containment Y X N___

Label is attatched to drum and properly completed Y X N___

Estimated total volume in drum 2 GALLONS NO STANDING LIQUID OR SOLIDS

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	12:45	~~9.5~~	9.85	—	N	N	N	

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 6/7/13 **Project Name:** Chevron 90504

Field Technician: CLARK MART **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____ NA

Holes, cracks, or corrosion observed on drum Y____ N X

Drum is properly sealed and in secondary containment Y X N____

Label is attatched to drum and properly completed Y X N____

Estimated total volume in drum 2 SOAKER SOCKS AND CLOROX WATER

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	11:00	10.10	10.11	—	N	N	N	—

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**

Site Address: **15900 Hesperian Blvd.** Event Date: 6/11/13 (inclusive)

City: **San Lorenzo, CA** Sampler: JOE

Well ID C-2 Date Monitored: 6/11/13

Well Diameter 2 (3)

Total Depth 19.35 ft.

Depth to Water 10.20 ft. ☐ Check if water column is less then 0.50 ft.

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

9.15 xVF 0.38 = 3.47 x3 case volume = Estimated Purge Volume: 10.43 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.03

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	✓
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): 0856 Weather Conditions: Cloudy

Sample Time/Date: 0914 / 6/11/13 Water Color: gray Odor: (Y) N Slight

Approx. Flow Rate: 3 gpm. Sediment Description: Light

Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 10.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity mS (~~umhos/cm~~ ~~pS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0859	3.5	7.45	0.58	18.8		
0859	7	7.38	0.60	18.4		
0902	10.5	7.34	0.64	18.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)

COMMENTS:

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 7/12/13 **Project Name:** Chevron 90504

Field Technician: CLARK MAKI **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____ NA

Holes, cracks, or corrosion observed on drum Y____ N X

Drum is properly sealed and in secondary containment Y X N____

Label is attatched to drum and properly completed Y X N____

Estimated total volume in drum 2 SOLVENT SOCKS & < 1 GALLON LIQUID

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:45	NOT ENCOUNTERED	10.40	NM	N	NOT OBSERVED	N	———

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 8-7-13 **Project Name:** Chevron 90504

Field Technician: SUCHEON SUNG **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N____

Holes, cracks, or corrosion observed on drum Y____ N X

Drum is properly sealed and in secondary containment Y X N____

Label is attatched to drum and properly completed Y X N____

Estimated total volume in drum (SOAKIES & <1 gallon liquid in 5 gallon Bucket)

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1040	ND	10.64	—	N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 | Job Number: 385259
Site Address: 15900 Hesperian Blvd. | Event Date: 9/10/13 (inclusive)
City: San Lorenzo, CA | Sampler: JoE

Well ID: C-2 | Date Monitored: 9/10/13
Well Diameter: 2 (3)
Total Depth: 19.35 ft.
Depth to Water: 10.90 ft.

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

☐ Check if water column is less then 0.50 ft.

8.45 xVF 0.38 = 3.21 x3 case volume = Estimated Purge Volume: 9.63 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.59

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	✓
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): 0645 | Weather Conditions: overcast
Sample Time/Date: 0710 / 9/10/13 | Water Color: gray | Odor: (Y) / N Slight
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? NO | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 11.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS ~~(µmhos/cm µS)~~	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0650	3.5	7.36	0.61	20.1		
0655	7	7.26	0.63	20.1		
0700	10	7.22	0.63	20.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C- 2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)

COMMENTS: Sheen

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 9-20-13

Project Name: Chevron 90504

Field Technician: SUCHEON SUNG

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ________

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1015	ND	10.93	—	N	N	N	

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 10-7-13 **Project Name:** Chevron 90504

Field Technician: Sackeon Sung **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ________

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1320	ND	10.71	—	N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**
Site Address: **15900 Hesperian Blvd.** Event Date: 12/4/13 (inclusive)
City: **San Lorenzo, CA** Sampler: JH

Well ID C-2 Date Monitored: 12/4/13
Well Diameter 2 (3)
Total Depth 19.35 ft.
Depth to Water 10.60 ft.

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

☐ Check if water column is less then 0.50 ft.

8.75 xVF .38 = 3.32 x3 case volume = Estimated Purge Volume: 9.97 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.35

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
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): 1115 Weather Conditions: Clear
Sample Time/Date: 1140 / 12/4/13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: Low
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 11.98

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1118	3	7.49	625	15.8		
1121	6	7.42	648	15.7		
1125	10	7.37	632	15.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO(8015)

COMMENTS:

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 1-13-14 **Project Name:** Chevron 90504

Field Technician: SUCHEON SUNG **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum _____

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1050	ND	10.78	—	N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**

Site Address: **15900 Hesperian Blvd.** Event Date: 2.7.14 (inclusive)

City: **San Lorenzo, CA** Sampler: FT

Well ID C-2 Date Monitored: 2.7.14

Well Diameter 2 (3)

Total Depth 19.34 ft.

Depth to Water 10.30 ft.

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

☐ Check if water column is less then 0.50 ft.

9.04 xVF .38 = 3.43 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.10

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1615 Weather Conditions: RAIN

Sample Time/Date: 1700 / 2.7.14 Water Color: GRAY Odor: (Y) / N MODERATE

Approx. Flow Rate: — gpm. Sediment Description: S. SILTY

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.86

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1622	3.5	7.31	902	19.5		
1629	7.0	7.27	911	19.9		
1640	10.0	7.24	921	20.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO(8015)

COMMENTS:

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 4/7/14 **Project Name:** Chevron 90504

Field Technician: SUCHEON SUNG **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ________

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1405	—	9.48		N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**
Site Address: **15900 Hesperian Blvd.** Event Date: 6/25/14 (inclusive)
City: **San Lorenzo, CA** Sampler: GM

Well ID C-2 Date Monitored: 6/25/14
Well Diameter 2 (3) in.
Total Depth 19.10 ft.
Depth to Water 10.68 ft.

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

☐ Check if water column is less then 0.50 ft.

8.42 xVF 0.38 = 3.19 x3 case volume = Estimated Purge Volume: 10 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.36

Purge Equipment:
Disposable Bailer X
Stainless Steel Bailer
Stack Pump
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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1600 Weather Conditions: CLOUDY
Sample Time/Date: 1640 / 6/25/14 Water Color: CLOUDY Odor: (Y) N STRONG
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 11.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1606	3.5	7.10	0.68	22.3		
1612	7	7.04	0.69	22.1		
1617	10	7.02	0.70	22.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2 x 1 liter ambers	YES	NP	LANCASTER	FULL RANGE TPH(8015M)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 7/21/14

Project Name: Chevron 90504

Field Technician: Suchyoon Sung

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum ________

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS TIME	DTP (feet)	DTW (feet)	DTB (feet)	PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
C-2	5 - 20	NA	1145	—	10.98		N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 | Job Number: 385259
Site Address: 15900 Hesperian Blvd. | Event Date: 8/29/14 (inclusive)
City: San Lorenzo, CA | Sampler: JH

Well ID: C-2 | Date Monitored: 8/29/14
Well Diameter: 2 (3) in.
Total Depth: ~~19.39~~ ft. 19.10 mwc
Depth to Water: 11.21 ft. ☐ Check if water column is less then 0.50 ft.
mwc 7.89 ~~8.18~~ xVF .38 = ~~3.10~~ 9.00 mwc x3 case volume = Estimated Purge Volume: ~~9.32~~ 9.00 mwc gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.84

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

Purge Equipment:
Disposable Bailer: X
Stainless Steel Bailer:
Stack Pump:
Peristaltic Pump: X
QED Bladder Pump:

Sampling Equipment:
Disposable Bailer: X
Pressure Bailer:
Metal Filters:
Peristaltic Pump: X
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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1200 | Weather Conditions: C
Sample Time/Date: 1330 / 8/29/14 | Water Color: Cloudy | Odor: Y / N Strong
Approx. Flow Rate: 200 ml lpm. | Sediment Description: Light
Did well de-water? No | If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 11.51

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1318	3.6	7.50	938	19.6			11.29
1321	4.2	7.46	926	19.4			11.37
1324	4.8	7.41	920	19.1			11.51

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C- 2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN

COMMENTS: DEPTH PUMP SET AT: 14.00

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

Stantec Consulting

HYDROLOGIC DATA SHEET

Gauge Date: 10-13-14 **Project Name:** Chevron 90504

Field Technician: Sudhaw Sunar **Project Number:** 211602395

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y____ N____

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y____ N____

Holes, cracks, or corrosion observed on drum Y____ N____

Drum is properly sealed and in secondary containment Y____ N____

Label is attatched to drum and properly completed Y____ N____

Estimated total volume in drum _____

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	1230	ND	11.75	—	N	N	N	

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 12/12/14 (inclusive)
City: San Lorenzo, CA Sampler: BM

Well ID C-7 Date Monitored: 12/12/14
Well Diameter 2 (3) in.
Total Depth 19.70 ft.
Depth to Water 8.75 ft. ☐ Check if water column is less then 0.50 ft.

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

10.95 xVF 0.78 = 3.93 x3 case volume = Estimated Purge Volume: 12 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.82

Purge Equipment:
Disposable Bailer —
Stainless Steel Bailer —
Stack Pump X
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: Ø ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0810 Weather Conditions: CLOUDY
Sample Time/Date: 0850 / 12/12/14 Water Color: CLOUDY Odor: Y (N) MODERATE
Approx. Flow Rate: 1 gpm. Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.97

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0814	4	7.06	191	19.4		
0818	8	7.04	190	19.3		
0822	12	7.02	192	19.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	2x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN

COMMENTS: _____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**
Site Address: **15900 Hesperian Blvd.** Event Date: 6/1/15 (inclusive)
City: **San Lorenzo, CA** Sampler: GM

Well ID C-2 Date Monitored: 6/1/15
Well Diameter 2/3 in.
Total Depth 19.12 ft.
Depth to Water 10.36 ft.

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

☐ Check if water column is less then 0.50 ft.

8.76 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

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

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump

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

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: 10.34 ft
Depth to Water: 10.36 ft
Hydrocarbon Thickness: 0.02 ft
Visual Confirmation/Description: DT BROWN OILY
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ lpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ ltr. DTW @ Sampling: ___

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN

COMMENTS: DEPTH PUMP SET AT: NA SPH PRESENT

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 10-23-15 (inclusive)
City: San Lorenzo, CA Sampler: AW

Well ID C-2 Date Monitored: 10-23-15
Well Diameter 2 in.
Total Depth 19.12 ft.
Depth to Water 11.78 ft.

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

☐ Check if water column is less then 0.50 ft.

7.34 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.24

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	✓	Peristaltic Pump	✓
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0530 Weather Conditions: Dark
Sample Time/Date: 0610 / 10-23-15 Water Color: Clear Odor: Y / N Slight
Approx. Flow Rate: 200 ml/ gpm. Sediment Description: Clear
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 11.83

Time (2400 hr.)	Volume (gal.) L	pH	Conductivity (µS) mS µmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Turbidity	dtw
0548	3.6	7.18	486	20.7			Pre: 57.4	11.81
0551	4.2	7.20	490	20.7				11.8
0554	4.8	7.21	493	20.8				11.8
							Post: 100	

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #9-0504** Job Number: **385259**

Site Address: **15900 Hesperian Blvd.** Event Date: 1/8/16 (inclusive)

City: **San Lorenzo, CA** Sampler: GM

Well ID **C-2** Date Monitored: 1/8/16

Well Diameter **3** in.

Total Depth 19.12 ft.

Depth to Water 9.48 ft.

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

☐ Check if water column is less then 0.50 ft.

9.64 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

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

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- 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: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: *GAUGE ONLY*

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET/LOW FLOW

Client/Facility#: Chevron #9-0504 Job Number: 385259
Site Address: 15900 Hesperian Blvd. Event Date: 4.7.16 (inclusive)
City: San Lorenzo, CA Sampler: FT

Well ID C-2
Well Diameter 2/3 in.
Total Depth 19.12 ft.
Depth to Water 8.95 ft.
10.17 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Date Monitored: 4.7.16

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

☐ Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.98

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	✓
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0615 Weather Conditions: CLOUDY
Sample Time/Date: 0650 / 4.7.16 Water Color: BRN. Odor: (Y) / N SLIGHT
Approx. Flow Rate: 200 mL/PM Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 8.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	[redacted] TURBIDITY	ORP (mV)
0633	3.6	6.56	721	18.5	PUR: 165	
0636	4.2	6.58	726	18.7	[redacted]	
0639	4.8	6.61	730	18.8	POST: 180	

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN

COMMENTS:

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: ____ Add/Replaced Plug: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0504 | Job Number: 385259
Site Address: 15900 Hesperian Blvd. | Event Date: 7.13.16 (inclusive)
City: San Lorenzo, CA | Sampler: FT

Well ID: C-2 | Date Monitored: 7.13.16
Well Diameter: 3 in.
Total Depth: 19.12 ft.
Depth to Water: 10.39 ft.

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

☐ Check if water column is less then 0.50 ft.

8.73 xVF ____ = ____ x3 case volume = Estimated Purge Volume: ____ gal.

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

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
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: ____ ltr
Amt Removed from Well: ____ ltr
Water Removed: ____ ltr

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / ____ Water Color: ____ Odor: Y / N ____
Approx. Flow Rate: ____ gpm. Sediment Description: ____
Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: ____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: GAUGE ONLY NO PRODUCT OR SHEEN DETECTED

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: ____ Add/Replaced Plug: ____