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

Subject: Chevron 91153 / ACEH RO#0341

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1	Subsurface Investigation Report	Report 44	

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Remarks:

Please contact Nathan Lee at (925) 849-1003 or Nathan.Lee@ghd.com with any questions or comments regarding the contents of this report.

Copy to: Mr. Mark Horne, Chevron EMC (*electronic only*)
Mr. Mark Hom (Property Owner)

Completed by: Nathan Lee [Please Print] Signed: Nathan Lee

Filing: Correspondence File

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

Re: Chevron Service Station No. 91153
3135 Gibbons Drive (3126 Fernside Blvd)
Alameda, CA

I have reviewed the attached report titled *Subsurface Investigation Data 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: *Subsurface Investigation Data Report*

Subsurface Investigation Data Report

Former Chevron Station 91153
3135 Gibbons Drive (3126 Fernside Boulevard)
Alameda, California
ACEH Case RO #0341

Chevron Environmental Management Company

2300 Clayton Road Suite 920 Concord California 94592 USA

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Subsurface Investigation Data Report

Former Chevron Station 91153
3135 Gibbons Drive (3126 Fernside Boulevard)
Alameda, California
ACEH Case RO #0341

Chevron Environmental Management Company

Nathan Lee PG 8486

2300 Clayton Road Suite 920 Concord California 94592 USA

311642 | 2015.8 | 04.05 | Report No 44 | November 20, 2015

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1. Introduction

GHD Services Inc. (GHD) is submitting this *Subsurface Investigation Data Report* for the site referenced above on behalf of Chevron Environmental Management Company (EMC). The purpose of this investigation was to assess soil conditions on the property's southwestern portion and the area in close proximity to the former used-oil underground storage tank (UST),by the advancing of seven soil borings on October 19, 2015.

The work was performed in general accordance with GHD's *Draft Feasibility Study, Corrective Action Options and Data Gap Work Plan* dated May 15, 2015, and as conditionally approved by Alameda County Environmental Health (ACEH) in their August 18, 2015 letter (Appendix A).

In subsequent correspondence between EMC and ACEH (Appendix A), it was agreed that a meeting between ACEH, EMC and GHD would be scheduled during the week of December 7, 2015 to discuss the results of this investigation in consideration of identifying potential future actions.

2. Site Background

2.1 Site Description

The site is located on a triangularly shaped lot at the intersections of Gibbons Drive, Fernside Boulevard, and High Street in Alameda, California (Figure 1). A service station operated until June 1986, and in 1989, a residence was built on the property (Figure 2). Surrounding area use is residential and commercial.

2.2 Previous Environmental Work

Environmental investigation began in 1986 with the USTs and product lines removal. Since 1986, a total of twelve confirmation samples have been collected, twenty six soil borings, ten groundwater monitoring wells (well C-2 has been destroyed), one extraction trench/well, one temporary well, fifty-one temporary soil vapor probes, and two sub-slab vapor probes have been installed. Crawl space indoor, outdoor, and sub-slab air samples have been collected. Groundwater has been monitored since 1986. Remediation conducted has included an excavation during UST removal and during the foundation construction for the house, a groundwater pump and treat system, oxygen releasing compound (ORC) and hydrogen peroxide injections, groundwater extraction events, and light non-aqueous phase liquid (LNAPL) removal by bailing and sorbent socks. Two water supply well surveys and preferential pathway studies have also been conducted. A summary of previous environmental investigation and remediation is included in Appendix B.

2.3 Site Geology

Soil beneath the site consists primarily of sand with some silt and clay, to the total depth explored of approximately 23 feet below grade (fbg).

2.4 Site Hydrogeology

The site is approximately 8 feet above mean sea level (msl). Depth to water in the monitoring wells ranges from approximately 0 to 6.5 fbg. Groundwater beneath the site is designated as an existing

or potential drinking water resource by the Regional Water Quality Control Board – San Francisco Bay Region (RWQCB SF)[1]. Groundwater flow direction is typically east-southeast toward the Oakland Alameda Estuary. The estuary is the closest surface water and is approximately 550 feet downgradient. Since 2010, LNAPL has been measured in well C-1, ranging in thickness from 0.01 to 0.25 foot.

3. Subsurface Investigation

The investigation objective was to assess soil conditions on the property's southwestern portion and the former used-oil UST area near the properties northern corner. Field activities are summarized below.

3.1 Site Health and Safety Plan

GHD performed all work under the guidelines set forth in a comprehensive health and safety plan. The plan was reviewed and signed by all site workers and visitors and kept onsite at all times.

3.2 Permits

GHD obtained an Alameda County Public Works Agency (ACPW) drilling permit W2015-0964 on October 12, 2015 (Appendix C).

3.3 Utility Clearance

Prior to drilling, GHD contacted Underground Service Alert (USA) to mark underground utilities near the proposed boring locations. GHD contracted NORCAL Geophysical Consultants Inc. (NorCal), of Cotati, California, to verify underground utility locations near proposed boring locations using electronic line location, metal detectors, and ground penetrating radar (GPR). NorCal's utility figures are presented in Appendix D.

3.4 Drilling

On October 19, 2015, Vapor Tech Services (VTS) of Hayward, California (C-57 License #916085) was contracted to advance seven soil borings. Borings B-9 through B-15 were advanced using a hand auger to an approximate depth of 10.5 fbg. Boring B-10 was moved from the proposed location due to utilities in the area (Appendix D). Boring B-15 was added to further delineate petroleum hydrocarbons in soil in the western directions. After each boring was completed the borings were backfilled with Portland Type II/V cement. Boring locations are depicted on Figure 2. Geologic cross-sections are shown on Figures 4 and 5. GHD personal managed the drilling activities under the supervision of Professional Geologist Nathan Lee PG 8486. Standard field procedures for soil boring advancement are presented in Appendix E. Soil boring logs are presented in Appendix F.

[1] East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, California; California Regional Water Quality Control Board – San Francisco Bay Region Groundwater Committee; June 1999.

3.5 Soil Sampling

Soil samples were collected from each boring at approximate depths of 3 fbg, 5 fbg, 8 fbg, and 10 fbg. Soil samples were collected using a slide hammer lined with 6-inch stainless steel tubes. Where lithology did not permit slide hammer sampling, due to no soil recovery, disturbed samples were collected directly from the hand auger bucket. Disturbed samples were collected from borings B10, B12, B-13, B-14, and B-15 at 8 fbg and 10 fbg.

Soil was logged according to the American Society for Testing and Materials (ASTM) D2488-06 Unified Soil Classification System (USCS) and screened using a photo-ionization detector (PID). Samples chosen for analysis were capped with Teflon® tape and plastic end caps. All samples were properly sealed, labeled, preserved on ice, logged on chain-of-custody forms, and released to Eurofins Lancaster Laboratories (Eurofins), of Lancaster, Pennsylvania, for analysis.

3.6 Laboratory Analyses

All soil samples were analyzed by Eurofins for the following constituents:

- Total petroleum hydrocarbons as gasoline (TPHg) by Environmental Protection Agency (EPA) Method 8015M
- Benzene, toluene, ethylbenzene, and xylene (BTEX), methyl tertiary butyl ether (MTBE), and naphthalene by EPA Method 8260B

Soil borings B-9 and B-10, collected adjacent to the former used-oil UST, were additionally analyzed for the following constituents:

- Total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015M with silica gel
- Total petroleum hydrocarbons as motor oil (TPHmo) by EPA Method 8015M with silica gel
- 16 priority pollutant polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270 SIM: naphthalene, acenaphthene, acenaphthylene, anthracene, phenanthrene, fluorine, chrysene, fluoranthene, pyrene, benzo(b)fluoranthene, benzo(a)pyrene, benzo(k)fluoranthene, benzo(a)anthracene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene
- Five leaking underground fuel tank (LUFT) Metals by 6010: cadmium, chromium, lead, nickel, and zinc

3.7 Waste Disposal

Soil cuttings were stored onsite and sealed in a labeled Department of Transportation (DOT) approved 55-gallon drums. All waste will be profiled and properly disposed of at an appropriate disposal facility.

4. Subsurface Investigation Results

Benzene, ethylbenzene, and naphthalene in soil samples from borings SB-9 through SB-15 were either not detected or were well below LTCP residential closure criteria for direct contact. Current and historical soil analytical results are presented in Tables 1 through 3. Maximum benzene concentrations between 0 – 10 fbg are depicted on Figure 3. The laboratory analytical report for

soil is included in Appendix G and maximum benzene concentrations in soil are shown on Figure 5. Soil analytical results are summarized in Table 4.1 below.

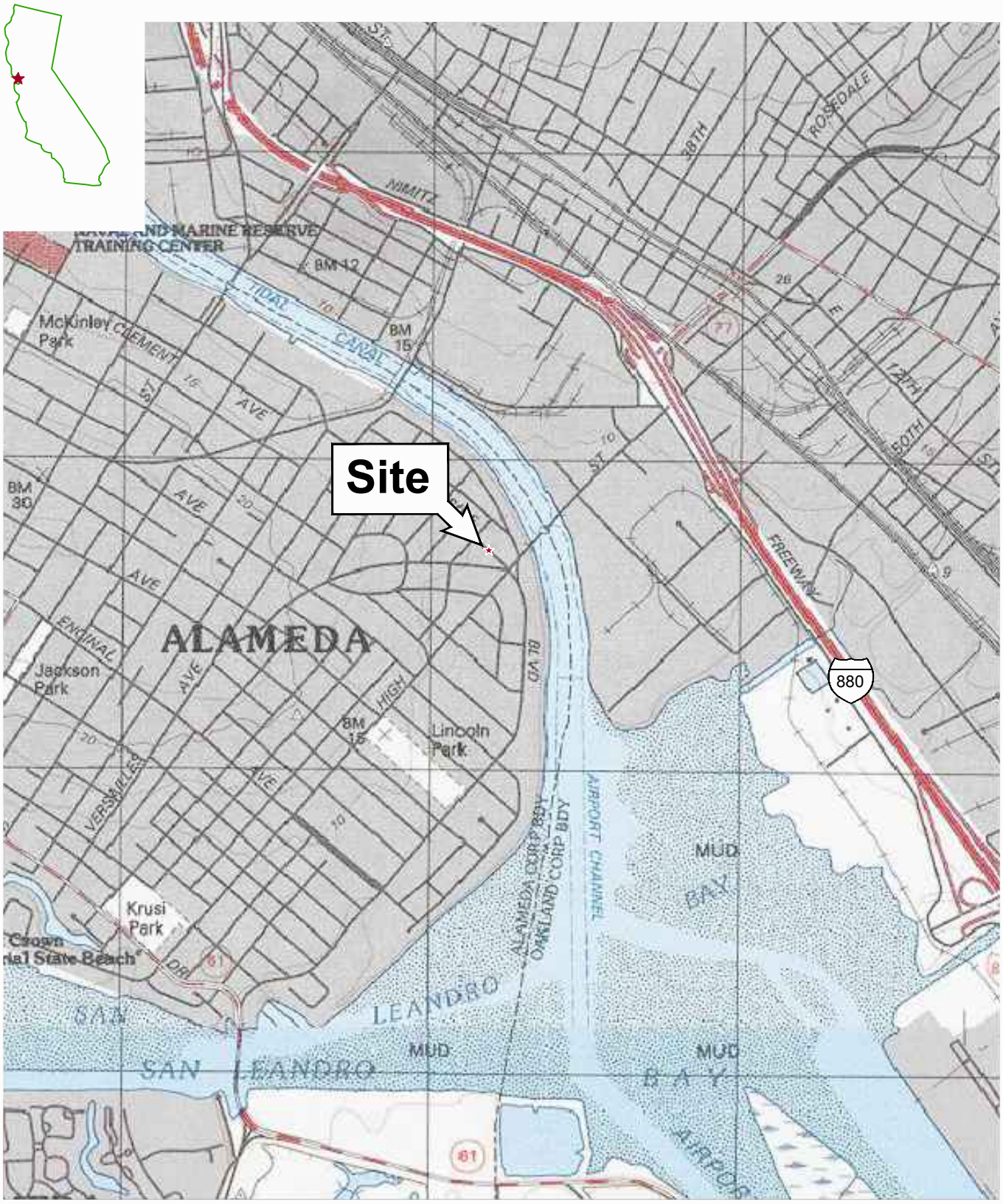
Table 4.1 Soil Analytical Results

		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene
Low-Threat Underground Storage Tank Case Closure Criteria								
Direct Contact (0-5 fbg)	**Residential**	**--**	**1.9**	**--**	**21**	**--**	**--**	**9.7**
Volatilization to Outdoor Air (5-10 fbg)	**Residential**	**--**	**8.2**	**--**	**89**	**--**	**--**	**45**
Direct Contact (0-10 fbg)	**Utility Worker**	**--**	**14**	**--**	**314**	**--**	**--**	**219**
Boring ID	**Depth (feet)**	**All results reported in milligrams per kilograms**						
B-9	3	0.6 J	<0.0005	<0.001	<0.001	<0.001	<0.0005	0.0064 J
	5	420	<0.093	<0.019	<0.19	<0.019	<0.093	<0.00066
	8	0.7 J	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.00066
	10	1.2	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.00066
B-10	3	<0.5	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	0.0013J
	5	61	<0.027	<0.055	<0.055	<0.055	<0.027	0.0056
	8	17	<0.0006	<0.001	<0.001	<0.001	<0.0006	<0.00066
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.00066
B-11	3	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	5	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	8	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
B-12	3	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	5	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	8	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
B-13	3	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	5	13	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	8	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
B-14	3	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	5	2.1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	8	0.7 J	0.001 J	<0.001	<0.001	<0.001	<0.0005	<0.001
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
B-15	3	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	5	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	8	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001
	10	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001

5. Future Acitivity

The results of this investigation and potential future activities will be discussed in a meeting between ACEH, EMC and GHD during the week of December 7, 2015.

Figures



0 500 1500ft

FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD.)
ALAMEDA, CALIFORNIA

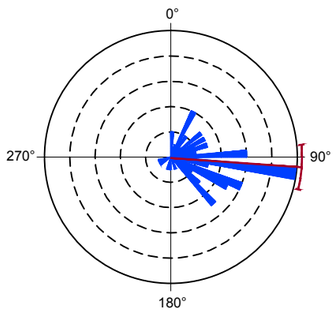
311642-95

Nov 6, 2015

VICINITY MAP

Figure 1

CAD File: I:\Chevron\3116--\311642 9-1153 Alameda\311642-FIGURES\311642-RPTs\311642 RPT-44\311642-2015(044)GN-EM001.DWG



GROUNDWATER FLOW DIRECTION
4Q - 1992 THROUGH 3Q - 2015

FERNSIDE BLVD.

GIBBONS DR.

HIGH STREET

RESIDENCE

DECK

FENCE

FORMER USED OIL UST

FORMER USTs

FORMER STATION BUILDING

EXISTING RESIDENCE

ATTACHED GARAGE

FORMER PUMP ISLANDS

SUMP

EUROPEAN AUTO BUILDING

HYD.

MW-1 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10

TMW-1

RW-1

C-1 C-2 C-3

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15

#1 #2 #3 #4 #5 #6 #10 #11 #12

OA-1 IA-1 IA-2 IA-3 CS-1 CS-2 SSVP-1 SSVP-2

BH-A BH-B BH-C

LEGEND

- MW-1 ● MONITORING WELL LOCATION
- TMW-1 ⊕ TEMPORARY MONITORING WELL LOCATION
- RW-1 ◕ EXTRACTION WELL LOCATION
- C-2 ✳ DESTROYED WELL LOCATION
- B-15 ■ SOIL BORING LOCATION (2012, 2015)
- SB1 ■ SOIL BORING LOCATION (1989)
- S1 ⊠ SOIL SAMPLE LOCATION (1997)
- OA-1 △ OUTDOOR AIR SAMPLE LOCATION (2013)
- IA-1 ▲ AMBIENT AIR SAMPLE LOCATION (2013)
- CS-1 ✶ CRAWL SPACE AMBIENT AIR SAMPLE LOCATION (2013)
- SSVP-1 ◮ SUB-SLAB VAPOR PROBE LOCATION (2013)
- E ELECTRICAL LINE
- G GAS LINE
- W WATER LINE
- T COMMUNICATIONS LINE
- STM STORM DRAIN
- SAN SANITARY SEWER LINE

0 10 30ft

N

GHD

FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD.)
ALAMEDA, CALIFORNIA

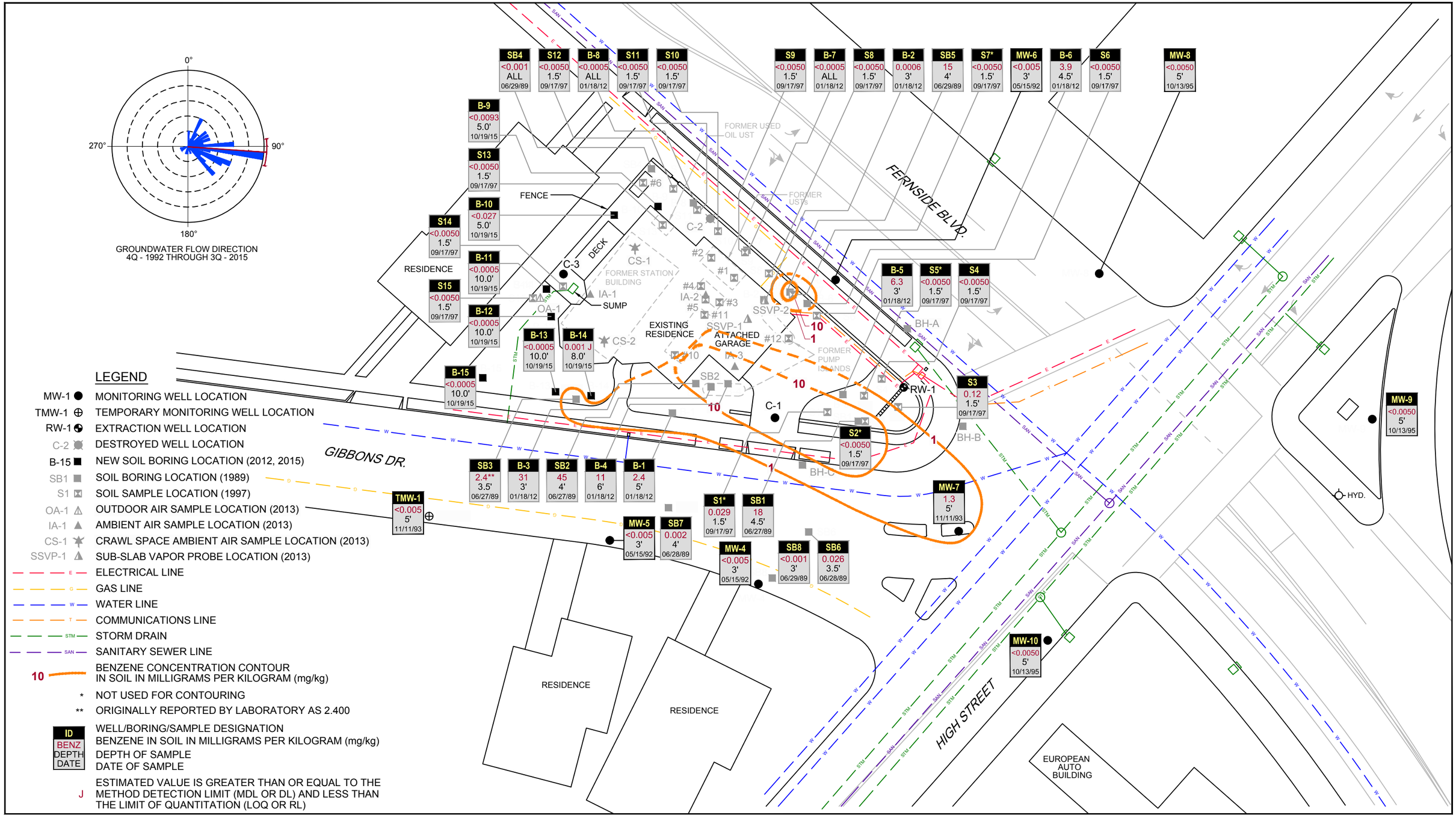
SITE PLAN

311642-95

Nov 19, 2015

Figure 2

CAD File: I:\Chevron\3116-\311642 9-1153 Alameda\311642-FIGURES\311642-RPTs\311642 RPT-44\311642-2015(044)GN-EM002.dwg



GHD

FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD.)
ALAMEDA, CALIFORNIA

MAXIMUM BENZENE CONCENTRATIONS IN SOIL 0-10 FBG

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Figure 3

CAD File: I:\Chevron\3116--\311642 9-1153 Alameda\311642-FIGURES\311642-RPTS\311642 RPT-44\311642-2015(044)GN-EM003.dwg

EXISTING RESIDENCE
FORMER STATION BUILDING
FORMER UST
FORMER PUMP ISLANDS
GIBBONS DRIVE
HIGH STREET
MEDIAN
FERNSIDE BOULEVARD

A
WEST

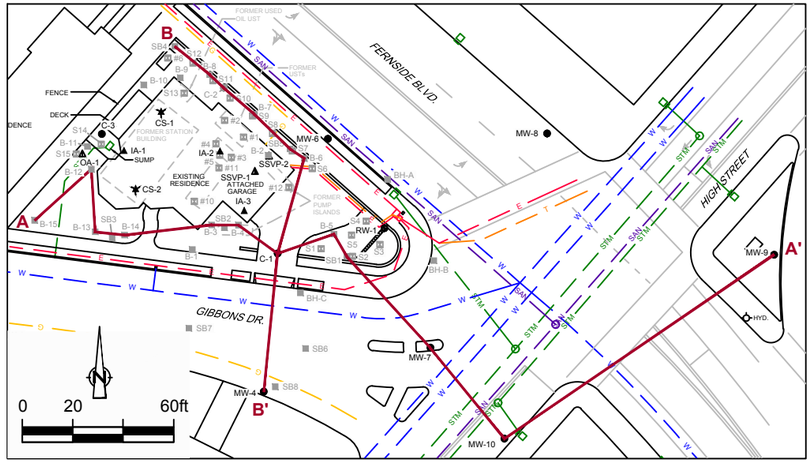
A'
EAST

B-15 B-12 B-13 B-14 B-3 B-4 C-1 (INTERSECTION WITH B-B') B-5 SB1 GIBBONS DR. MW-7 HIGH STREET MW-10 FERNSIDE BLVD. MW-9

ELEVATION (feet above mean sea level)

APPROXIMATE DEPTH (feet below ground surface)

SCALE:
HORZ. 1" = 30'
VERT. 1" = 10'
DISTANCE (feet)



LEGEND

- AS - ASPHALT
- CO - CONCRETE
- FILL - FILL MATERIAL
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- SP, SW - WELL AND POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
- SM - SILTY SANDS, SAND-SILT MIXTURES

WELL ID
- WELL DESIGNATION
- GROUNDWATER MONITORING WELL
- WELL SCREEN INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPH / TPHg / BENZENE / DATE - HYDROCARBON CONCENTRATIONS IN SOIL, IN MILLIGRAMS PER KILOGRAM (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHg / BENZENE / DATE - HYDROCARBON CONCENTRATIONS IN GROUNDWATER, IN MICROGRAMS PER LITER (µg/L)
- 10 - BENZENE CONCENTRATION CONTOUR

FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD.)
ALAMEDA, CALIFORNIA

311642-95
Nov 18, 2015

GEOLOGIC CROSS SECTION A-A'

Figure 4

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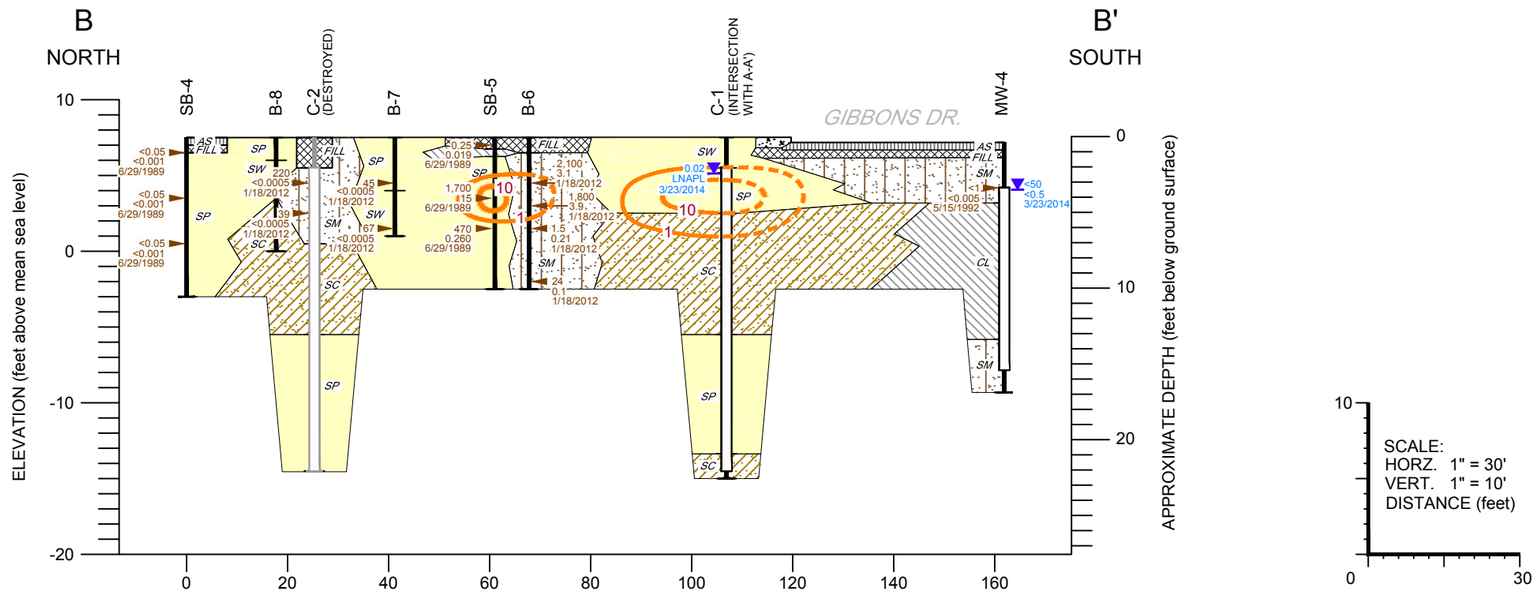

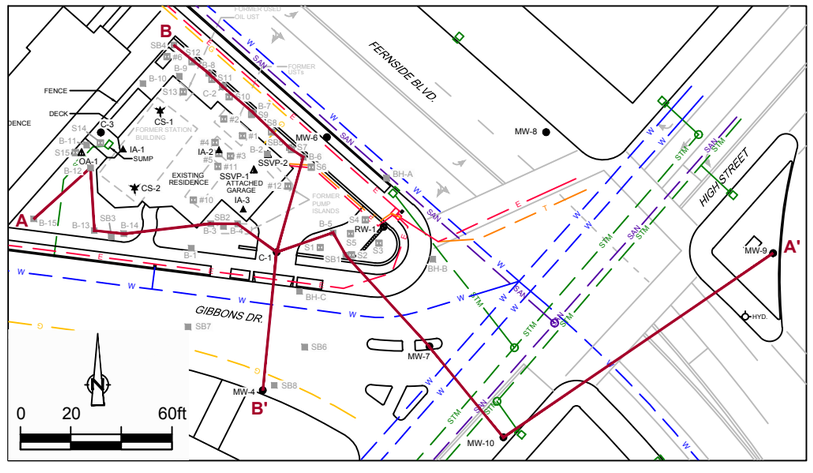

LEGEND

- AS - ASPHALT
- CO - CONCRETE
- FILL - FILL MATERIAL
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- SC - CLAYEY SANDS, SAND-CLAY MIXTURES
- SP, SW - WELL AND POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
- SM - SILTY SANDS, SAND-SILT MIXTURES

WELL ID — WELL DESIGNATION

GROUNDWATER MONITORING WELL

WELL SCREEN INTERVAL

BOTTOM OF BORING

APPROXIMATE SOIL SAMPLE LOCATION

TPH / TPHg / BENZENE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL, IN MILLIGRAMS PER KILOGRAM (mg/kg)

APPROXIMATE GROUNDWATER SAMPLE LOCATION

TPHg / BENZENE / DATE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER, IN MICROGRAMS PER LITER (µg/L)

10 — BENZENE CONCENTRATION CONTOUR

SCALE:
HORZ. 1" = 30'
VERT. 1" = 10'
DISTANCE (feet)

0 30

FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD.)
ALAMEDA, CALIFORNIA

GEOLOGIC CROSS SECTION B-B'

311642-95

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Figure 5

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Tables

TABLE 1
CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD), ALAMEDA, CALIFORNIA

Low-Threat Underground Storage Tank Case Closure Criteria [b]			*TPH Motor-Oil w/ Silica*	*TPH*	*TPHd w/ Silica Gel*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*	*Naph-thalene*
Direct Contact (0-5 fbg)		*Residential*	--	--	--	--	***1.9***	--	***21***	--	--	--	--	--	***9.7***
Volatilization to Outdoor Air (5-10 fbg)		*Residential*	--	--	--	--	***8.2***	--	***89***	--	--	--	--	--	***45***
Diret Contact (0-10 fbg)		*Utility Worker*	--	--	--	--	***14***	--	***314***	--	--	--	--	--	***219***
Sample ID	***Date***	***Depth***	***milligrams per kilogram (mg/kg)***												
Soil Borings - October 2015															
B-9	10/19/2015	3	890		360	0.6 J	<0.0005	<0.001	<0.001	<0.001	<0.0005	247			0.0064 J
B-9	10/19/2015	5	<9.9		<4.0	420	<0.093	<0.19	<0.19	<0.019	<0.093	3.30			<0.00066
B-9	10/19/2015	8	<9.9		<3.9	0.7 J	<0.0005	<0.001	<0.001	<0.001	<0.0005	3.80			<0.00066
B-9	10/19/2015	10	<9.9		<3.9	1.2	<0.0005	<0.001	<0.001	<0.001	<0.0005	5.89			<0.00066
B-10	10/19/2015	3	<9.9		<4.0	<0.5	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	4.19			0.0013 J
B-10	10/19/2015	5	340		380	61	<0.027	<0.055	<0.055	<0.055	<0.027	4.33			0.0056
B-10	10/19/2015	8	<10		4.5 J	1.7	<0.0006	<0.001	<0.001	<0.001	<0.0006	3.62			<0.00066
B-10	10/19/2015	10	<9.9		21	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	4.96			<0.00066
B-11	10/19/2015	3				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-11	10/19/2015	5				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-11	10/19/2015	8				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-11	10/19/2015	10				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-12	10/19/2015	3				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-12	10/19/2015	5				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-12	10/19/2015	8				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-12	10/19/2015	10				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-13	10/19/2015	3				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-13	10/19/2015	5				13	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-13	10/19/2015	8				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-13	10/19/2015	10				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-14	10/19/2015	3				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-14	10/19/2015	5				2.1	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001

TABLE 1
CUMULATIVE SOIL ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD), ALAMEDA, CALIFORNIA

Low-Threat Underground Storage Tank Case Closure Criteria [b]			*TPH Motor-Oil w/ Silica*	*TPH*	*TPHd w/ Silica Gel*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*	*Naph-thalene*
Direct Contact (0-5 fbg)		***Residential***	*--*	*--*	*--*	*--*	***1.9***	*--*	***21***	*--*	*--*	*--*	*--*	*--*	***9.7***
Volatilization to Outdoor Air (5-10 fbg)		***Residential***	*--*	*--*	*--*	*--*	***8.2***	*--*	***89***	*--*	*--*	*--*	*--*	*--*	***45***
Diret Contact (0-10 fbg)		***Utility Worker***	*--*	*--*	*--*	*--*	***14***	*--*	***314***	*--*	*--*	*--*	*--*	*--*	***219***
B-14	10/19/2015	8				0.7 J	0.001 J	<0.001	<0.001	<0.001	<0.0005				<0.001
B-14	10/19/2015	10				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-15	10/19/2015	3				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-15	10/19/2015	5				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-15	10/19/2015	8				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
B-15	10/19/2015	10				<0.5	<0.0005	<0.001	<0.001	<0.001	<0.0005				<0.001
Soil Borings															
B-1	1/18/2012	3	<10	<10	6.2	<9.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.001	<0.001	
B-1	1/18/2012	5	31	31	850	2,900	**2.4**	1.1	**100**	290	<0.023	--	<0.046	<0.046	
B-1	1/18/2012	9.5	<10	<10	<4.0	8.2	0.027	<0.050	0.11	0.27	<0.025	--	<0.050	<0.050	
B-2	1/18/2012	3	<10	<10	5.7	<1.0	0.0006	<0.001	<0.001	<0.001	<0.0006	--	<0.001	<0.001	
B-2	1/18/2012	4.5	110	110	41	2.2	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.001	<0.001	
B-3	1/18/2012	3	16	16	440	3,200	**31**	350	**110**	630	<0.25	--	<0.50	<0.50	
B-3	1/18/2012	4.5	<10	<10	110	1,700	**25**	240	**72**	370	<0.05	--	<0.50	<0.50	
B-3	1/18/2012	7.5	<10	<10	<4.0	110	1.2	2.6	1.4	7.1	<0.025	--	<0.051	<0.051	
B-3	1/18/2012	9.5	<10	<10	4.4	24	0.29	2.2	0.86	4.7	<0.024	--	<0.048	<0.048	
B-4	1/18/2012	3	<10	<10	59	600	**5.9**	4.4	6.6	24	<0.026	--	<0.053	<0.053	
B-4	1/18/2012	6	<10	<10	540	980	**11**	0.15	1.1	0.81	<0.028	--	<0.055	<0.055	
B-4	1/18/2012	9.5	<10	<10	<4.0	7.4	0.074	0.13	0.2	0.81	<0.026	--	<0.051	<0.051	
B-5	1/18/2012	3	51	51	1,300	5,200	**6.3**	43	**110**	570	<0.26	--	<0.52	<0.52	
B-5	1/18/2012	4.5	36	36	1,600	6,000	1.4	1.8	**180**	240	<0.47	--	<0.93	<0.93	
B-5	1/18/2012	6	<10	<10	19	160	0.034	0.77	1.3	401	<0.024	--	<0.048	<0.048	
B-5	1/18/2012	9.5	<10	<10	4.2	23	<0.026	0.024	0.028	1.1	<0.026	--	<0.051	<0.051	
B-6	1/18/2012	3	37	37	420	2,100	**3.1**	64	**59**	350	<0.10	--	<0.20	<0.20	

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Low-Threat Underground Storage Tank Case Closure Criteria [b]			*TPH Motor-Oil w/ Silica*	*TPH*	*TPHd w/ Silica Gel*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*	*Naph-thalene*
Direct Contact (0-5 fbg)		***Residential***	*--*	*--*	*--*	*--*	***1.9***	*--*	***21***	*--*	*--*	*--*	*--*	*--*	***9.7***
Volatilization to Outdoor Air (5-10 fbg)		***Residential***	*--*	*--*	*--*	*--*	***8.2***	*--*	***89***	*--*	*--*	*--*	*--*	*--*	***45***
Diret Contact (0-10 fbg)		***Utility Worker***	*--*	*--*	*--*	*--*	***14***	*--*	***314***	*--*	*--*	*--*	*--*	*--*	***219***
B-6	1/18/2012	4.5	<10	<10	110	1,800	**3.9**	72	**47**	260	<0.10	--	<0.20	<0.20	
B-6	1/18/2012	6	<10	<10	<4.0	1.5	0.21	0.006	0.006	0.017	<0.0005	--	<0.001	<0.001	
B-6	1/18/2012	9.5	<10	<10	<4.0	24	0.1	2.2	2	12	<0.027	--	<0.053	<0.053	
B-7	1/18/2012	3.0	45	45	21	<1.0	<0.0005	<0.001	<0.001	0.001	<0.0005	--	<0.001	<0.001	
B-7	1/18/2012	6.0	67	67	28	<1.0	<0.0005	<0.001	<0.001	0.001	<0.0005	--	<0.001	<0.001	
B-8	1/18/2012	3.0	220	220	47	<10	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.001	<0.001	
B-8	1/18/2012	5.0	39	39	24	<1.0	<0.0005	<0.001	<0.001	1.001	<0.0005	--	<0.001	<0.001	
Soil Samples															
S1	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	85	--	--	
S1	9/17/1997	1.5	--	--	--	<1.0	0.029	<0.0050	<0.0050	<0.0050	<0.025	13	--	--	
S2	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	160	--	--	
S2	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	6.7	--	--	
S3	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	140	--	--	
S3	9/17/1997	1.5	--	--	--	19	0.12	0.28	0.3	1.4	0.11	12	--	--	
S4	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	200	--	--	
S4	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	16	--	--	
S5	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	0.0078	<0.025	110	--	--	
S5	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	15	--	--	
S6	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	38	--	--	
S6	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	15	--	--	
S7	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	35	--	--	
S7	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S8	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S8	9/17/1997	1.5	--	--	--	4.9	<0.0050	<0.0050	0.011	0.048	<0.025	a	--	--	
S9	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S9	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	

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Low-Threat Underground Storage Tank Case Closure Criteria [b]			*TPH Motor-Oil w/ Silica*	*TPH*	*TPHd w/ Silica Gel*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*	*Naph-thalene*
Direct Contact (0-5 fbg)		***Residential***	*--*	*--*	*--*	*--*	***1.9***	*--*	***21***	*--*	*--*	*--*	*--*	*--*	***9.7***
Volatilization to Outdoor Air (5-10 fbg)		***Residential***	*--*	*--*	*--*	*--*	***8.2***	*--*	***89***	*--*	*--*	*--*	*--*	*--*	***45***
Diret Contact (0-10 fbg)		***Utility Worker***	*--*	*--*	*--*	*--*	***14***	*--*	***314***	*--*	*--*	*--*	*--*	*--*	***219***
S10	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S10	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S11	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S11	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S12	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S12	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S13	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S13	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S14	9/17/1997	Surface	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a	--	--	
S14	9/17/1997	1.5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	20	--	--	
S15	9/17/1997	Surface	--	--	--	1.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	40	--	--	
S15	9/17/1997	1.5	--	--	--	3.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	12	--	--	
Monitoring Wells															
MW-4	5/15/1992	3	--	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
MW-5	5/15/1992	3	--	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
MW-6	5/15/1992	3	--	--	--	<1	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
MW-7	11/11/1993	5	--	--	--	63	1.3	0.67	1.6	4.6	--	--	--	--	
TMW-1	11/11/1993	5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.017	--	--	--	--	
MW-8	10/13/1995	5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-9	10/13/1995	5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-10	10/13/1995	5	--	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
Soil Borings															
SB1	6/27/1989	1	--	0.43	--	--	0.002	<0.001	0.001	0.008	--	--	--	--	
SB1 (Duplicate)	6/27/1989	1	--	--	--	--	0.001	<0.001	<0.001	0.008	--	--	--	--	
SB1	6/27/1989	4.5	--	5,500	--	--	**18**	111	**37**	149	--	--	--	--	
SB1	6/27/1989	6	--	65	--	--	1	2.200	0.540	1.930	--	--	--	--	

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Low-Threat Underground Storage Tank Case Closure Criteria [b]			*TPH Motor-Oil w/ Silica*	*TPH*	*TPHd w/ Silica Gel*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*	*Naph-thalene*
Direct Contact (0-5 fbg)		***Residential***	*--*	*--*	*--*	*--*	***1.9***	*--*	***21***	*--*	*--*	*--*	*--*	*--*	***9.7***
Volatilization to Outdoor Air (5-10 fbg)		***Residential***	*--*	*--*	*--*	*--*	***8.2***	*--*	***89***	*--*	*--*	*--*	*--*	*--*	***45***
Diret Contact (0-10 fbg)		***Utility Worker***	*--*	*--*	*--*	*--*	***14***	*--*	***314***	*--*	*--*	*--*	*--*	*--*	***219***
SB1	6/27/1989	9.5	--	10	--	--	0.170	0.460	0.140	0.530	--	--	--	--	
SB2	6/27/1989	1	--	<0.05	--	--	0.009	0.024	0.010	0.026	--	--	--	--	
SB2 (Duplicate)	6/27/1989	1	--	<0.05	--	--	--	--	--	--	--	--	--	--	
SB2	6/27/1989	4	--	1,500	--	--	**45**	230	**78**	283	--	--	--	--	
SB2	6/27/1989	6	--	4.7	--	--	0.470	1.300	0.310	1.120	--	--	--	--	
SB3	6/27/1989	0.5	--	0.07	--	--	<0.001	<0.001	<0.001	<0.001	--	--	--	--	
SB3	6/27/1989	3.5	--	850	--	--	**2.400**	3.200	5.300	17.8	--	--	--	--	
SB4	6/29/1989	1	--	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	--	--	--	--	
SB4 (Duplicate)	6/29/1989	1	--	<0.05	--	--	--	--	--	--	--	--	--	--	
SB4	6/29/1989	4	--	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	--	--	--	--	
SB4	6/29/1989	7	--	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	--	--	--	--	
SB5	6/29/1989	0.5	--	0.25	--	--	0.019	0.017	0.019	0.153	--	--	--	--	
SB5 (Duplicate)	6/29/1989	0.5	--	--	--	--	0.020	0.021	0.023	0.178	--	--	--	--	
SB5	6/29/1989	4	--	1,700	--	--	**15**	81	**30**	108	--	--	--	--	
SB5 (Duplicate)	6/29/1989	4	--	1,600	--	--	--	--	--	--	--	--	--	--	
SB5	6/29/1989	6	--	470	--	--	0.260	1.900	1.400	5.200	--	--	--	--	
SB6	6/28/1989	3.5	--	15	--	--	0.026	0.100	0.160	0.370	--	--	--	--	
SB7	6/28/1989	4	--	<0.05	--	--	0.002	<0.001	<0.001	<0.001	--	--	--	--	
SB7 (Duplicate)	6/28/1989	4	--	--	--	--	0.002	<0.001	<0.001	<0.001	--	--	--	--	
SB8	6/29/1989	3	--	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	--	--	--	--	
UST/Excavation Samples															
1	6/4/1986	11	--	--	--	<1	--	--	--	--	--	--	--	--	
2	6/4/1986	12	--	--	--	<1	--	--	--	--	--	--	--	--	

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Direct Contact (0-5 fbg)	***Residential***	*--*	*--*	*--*	*--*	***1.9***	*--*	***21***	*--*	*--*	*--*	*--*	*--*	***9.7***
Volatilization to Outdoor Air (5-10 fbg)	***Residential***	*--*	*--*	*--*	*--*	***8.2***	*--*	***89***	*--*	*--*	*--*	*--*	*--*	***45***
Diret Contact (0-10 fbg)	***Utility Worker***	*--*	*--*	*--*	*--*	***14***	*--*	***314***	*--*	*--*	*--*	*--*	*--*	***219***
3	6/4/1986	10	--	--	--	<1	--	--	--	--	--	--	--	--	
4	6/4/1986	10.5	--	--	--	<1	--	--	--	--	--	--	--	--	
6	6/4/1986	8	<11	--	--	--	--	--	--	--	--	--	--	--	
10	6/4/1986	10	--	--	--	<1	--	--	--	--	--	--	--	--	
11	6/4/1986	12	--	--	--	<1	--	--	--	--	--	--	--	--	
12	6/4/1986	10	<11	--	--	--	--	--	--	--	--	--	--	--	

Explanation:

fbg = feet below grade

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015

TPH used-oil by EPA Method 3510

BTEX = Benzene, toluene, ethylbenzene, xylene by EPA Method 8020

MTBE = methyl tertiary butyl ether

<x.xx = Not present above laboratory detection limit

a = results could not be located

b The Low Threat Underground Storage Tank Case Closure Policy was established in 2012 by the State Water Board to provide standard statewide closure criteria for low threat UST

J = Estimated value is greater than or equal to the Method Detection Limit (MDL or DL) and less than the Limit of Quantitation (LOQ or RL)

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA - PAHs
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD), ALAMEDA, CALIFORNIA

Low-Threat Underground Storage Tank Case Closure Criteria [a] (for PAHs) (mg/kg)			*Acenaphthene*	*Acenaphthylene*	*Anthracene*	*Benzo(a)anthracene*	*Benzo(a)pyrene*	*Benzo(b)fluoranthene*	*Benzo(g,h,i)perylene*	*Benzo(k)fluoranthene*	*Chrysene*	*Dibenz(a,h)anthracene*	*Fluoranthene*	*Fluorene*	*Indeno(1,2,3-cd)pyrene*	*Phenanthrene*	*Pyrene*
Direct Contact (0-5 fbg) - Residential		*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*
Volatilization to Outdoor Air (5-10 fbg) - Residential		*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*	*0.68*
Diret Contact (0-10 fbg) - Utility Worker		*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*	*4.5*
Sample ID	*Date*	*Depth (fbg)*	*milligrams per kilogram (mg/kg)*														
B-9	10/19/2015	3	<0.0033	<0.0017	0.0024 J	0.0069 J	0.0060 J	0.010	0.029	<0.0033	0.0084	<0.0033	0.0052 J	<0.0033	0.0057 J	0.0095	0.011
B-9	10/19/2015	5	<0.00066	<0.00033	0.00070 J	0.0014 J	<0.00066	<0.00066	<0.00066	<0.00066	0.0011 J	<0.00066	0.0018	<0.00066	<0.00066	0.0012 J	0.0028
B-9	10/19/2015	8	<0.00066	<0.00033	<0.00033	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00033	<0.00033	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066
B-9	10/19/2015	10	<0.00066	<0.00033	<0.00033	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	0.00041 J	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066
B-10	10/19/2015	3	<0.00066	0.00035 J	0.00078 J	0.0019	0.0018	0.0025	0.0013 J	0.00080 J	0.0023	<0.00066	0.0029	<0.00066	0.0010 J	0.0033	0.0039
B-10	10/19/2015	5	<0.00066	<0.00033	0.0066	0.0030	0.0029	0.0050	0.00087 J	<0.00066	0.015	<0.00066	0.0063	0.0037	0.00077 J	0.0068	0.015
B-10	10/19/2015	8	<0.00066	<0.00033	<0.00033	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	0.00041 J	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	0.00076 J
B-10	10/19/2015	10	<0.00066	<0.00033	<0.00033	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	0.0011 J	<0.00066	<0.00066	<0.00066	<0.00066	0.00071 J	0.0010 J

Explanation:
fbg = feet below grade
PAH = Polycyclic aromatic hydrocarbon
<x.xx = Not present above laboratory detection limit
J = Estimated value is greater than or equal to the Method Detection Limit (MDL or DL) and less than the Limit of Quantitation (LOQ or RL)
a The Low Threat Underground Storage Tank Case Closure Policy was established in 2012 by the State Water Board to provide standard statewide closure criteria for low threat UST sites that are subject to Chapter 6.7 of Division 20 of the Health and Safety Code and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations

TABLE 3
CUMULATIVE SOIL ANALYTICAL DATA - METALS
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD), ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Cadmium*	*Chromium*	*Lead*	*Nickel*	*Zinc*
			milligrams per kilogram (mg/kg)				
Soil Borings - October 2015							
B-9	10/19/2015	3	0.542	33.6	247	14.8	69.1
B-9	10/19/2015	5	<0.0417	43.2	3.30	22.8	17.1
B-9	10/19/2015	8	<0.0430	46.5	3.80	36.5	27.4
B-9	10/19/2015	10	<0.0417	61.3	5.89	44.1	36.4
B-10	10/19/2015	3	0.241 J	32.8	4.19	12.5	17.4
B-10	10/19/2015	5	0.303 J	63.6	4.33	119	25.4
B-10	10/19/2015	8	<0.0417	42.5	3.62	35.7	24.9
B-10	10/19/2015	10	<0.0413	61.8	4.96	45.9	35.1

Explanation:

fbg = feet below grade

<x.xx = Not present above laboratory detection limit

J = Estimated value is greater than or equal to the Method Detection Limit (MDL or DL) and less than the Limit of Quantitation (LOQ or RL)

Appendix A
Regulatory 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

August 18, 2015

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

Mr. Mark Hom and Anna Cheng
3135 Gibbons Drive
Alameda, CA, 94501-1749
(sent via electronic mail to
mark@galvinhom.com)

JL and Jane Bolton
Address Unknown

John Thompson
Address Unknown

Shirley & Ruben Cohen
Address Unknown

Gary & Jerri Fenstermaker
Address Unknown

Claire Cepollina & Fred Martini
Address Unknown

Subject: Request for Meeting and Corrective Action Plan Addendum, and Work Plan Approval; Fuel Leak Case No. RO0000341; (Global ID # T0600100330); Chevron #9-1153, (3126 Fernside Blvd), 3135 Gibbons Drive, Alameda, CA 94501

Dear Messrs. Horne and Hom, and Ms. Cheng:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Draft Feasibility Study, Corrective Action Options, and Data Gap Work Plan,* (Darft FS/CAP) dated May 15, 2015, the *First Quarter 2015 Groundwater Monitoring and Sampling Report,* dated May 29, 2015, and the *Second Quarter 2015 Groundwater Monitoring and Sampling Report*, dated August 18, 2015. The reports were prepared and submitted on your behalf by Conestoga-Rovers & Associates (CRA). Thank you for submitting the reports.

As discussed in a recently requested meeting with the Chevron Environmental Management Company, ACEH is in disagreement with the conclusions of the Draft FS/CAP; however, is in general agreement with the associated work plan as discussed below.

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

TECHNICAL COMMENTS

1) **Conditional Work Plan Approval** – The referenced work plan proposes a series of actions with which ACEH is in general agreement; however, ACEH requests several modifications to the approach, as discussed below. Please submit a report on these actions by the date identified below.

   a) **Waste Oil Analytical Suite** – The waste oil analytical suite did not include standard waste oil analytes benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert butyl either (MTBE). Please additionally include these in the waste oil analytical suite, particularly since benzene is a contaminant of concern at the site.

2) **Corrective Action Plan Addendum Report** – As noted above, ACEH is in disagreement with the conclusions of the Draft FS/CAP. Although ACEH has previously approved, in an April 13, 2015 directive letter, the installation of a vapor mitigation concrete slab surface coating (Retro-Coat) for the garage concrete slab, more recent experience at a number of sites has focused attention on methane

concentrations beneath a site. As you may be aware, methane is a natural product of the degradation of petroleum hydrocarbons.

Subslab vapor wells SSVP-1 and SSVP-2 document the presence of 12 and 15% methane beneath the garage slab floor, which are substantially above the Lower Explosive Level (LEL) for methane of 5.4%. Specifically, the installation of a vapor barrier may allow the methane percentages to increase further.

Therefore, as discussed in the meeting, ACEH requested the generation of a Corrective Action Plan Addendum, by the date identified below, to evaluate using excavation as the preferred Corrective Action. Please include an excavation matrix and the results of the work plan approved in Technical Comment 1 in the Addendum. Additional associated scopes of work were discussed in the meeting and are incorporated in the Technical Report Request section below.

3) **Request for a Meeting** – To further discuss the implications to this site, ACEH requests a meeting with all Responsible Parties, by the date identified below.

4) **Quarterly Groundwater Monitoring** - Please continue to conduct quarterly groundwater monitoring at the subject site and submit report on the schedule listed 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 specified file naming convention below, according to the following schedule:

- **September 4, 2015** – Meeting of All Responsible Parties
  Email Notification to Case Worker
- **November 20, 2015** – Corrective Action Plan Addendum and Soil and Groundwater Investigation
  File to be named: RO341_SWI_CAP_ADDEND_R_yyyy-mm-dd
- **November 20, 2015** – Third Quarter 2015 Groundwater Monitoring
  File to be named: RO341_GWM_R_yyyy-mm-dd
- **December 18, 2015** – Meeting with Chevron
  Email Notification to Case Worker
- **January 4 - 11, 2016** – Meeting of All Responsible Parties
  Email Notification to Case Worker
- **January 29, 2016** – Public Notice of Corrective Actions, Concurrent CAP Design
- **March 1, 2016** – End of Public Comment Period
- **March 11, 2016** – Fourth Quarter 2015 Groundwater Monitoring
  File to be named: RO341_GWM_R_yyyy-mm-dd
- **March 15, 2016** – Response to Comments
- **May 30, 2016** – First Quarter 2016 Groundwater Monitoring
  File to be named: RO341_GWM_R_yyyy-mm-dd
- **June 1, 2016** – CAP Implementation Plan
  File to be named: RO341_CAP_R_yyyy-mm-dd
- **August 1, 2016** – Implementation of Corrective Actions

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.

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

If you have any questions, please call 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: 2015.08.18 16:36:16 -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 & Assoc., 5900 Hollis Street, Suite A, Emeryville, CA 94608 (sent via electronic mail to nlee@craworld.com)

Dilan Roe, ACEH (sent via electronic mail to dilan.roe@acgov.org)
Mark Detterman, ACEH (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

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.

Mark Horne
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583-2324
Tel (925) 790-3964
markhorne@chevron.com

RECEIVED
By Alameda County Environmental Health 2:49 pm, Sep 01, 2015

August 31, 2015

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

Re: Chevron Service Station No. 91153 / Case No. RO0000341
3135 Gibbons Drive (3126 Fernside Blvd), Alameda, CA

Dear Mr. Detterman:

This letter is in reference to your telephone conversation on August 28, 2015 with Alexis Coulter, Chevron Environmental Management (EMC) Property Specialist regarding the ACEH letter dated August 18, 2015 for the above referenced site. As was discussed, additional assessment data is necessary to accurately address ACEH inquiries and would assist in further discussions regarding alternatives for the site. As discussed, this letter respectfully requests your approval of the schedule change outlined below:

- **October 19, 2015** –Implementation of field activities proposed in the Draft Feasibility Study, Corrective Action Options and Data Gap Work Plan dated May 15, 2015 and approved in ACEH's August 18, 2015 letter.
- **November 20, 2015** – Submittal of data results collected from October 19, 2015 field activities.
- **Week of December 7, 2015** – Meeting with ACEH, GHD (formerly CRA) and EMC to discuss the results obtained from the assessment data.

Please review and provide confirmation that the schedule change outlined above is acceptable.

Regards,

Mark Horne
Project Manager

cc: Alexis Coulter – Chevron Environmental Management Company
Nathan Lee - GHD

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Wednesday, September 02, 2015 11:48 AM
To: 'Horne, Mark (MarkHorne)'; 'A. Mark Hom'
Cc: Coulter, Alexis N; Lee, Nathan
Subject: RE: 91153 Alameda, case no. RO0000341

Mark and Mark,

ACEH is in concurrence with postponing the September 4th meeting identified in the ACEH directive letter of August 18, 2015, pending receipt of the results of an additional investigation at the site. The delay is intended to help better identify appropriate options for corrective action at the site, and was requested in the attached letter from the Chevron Environmental Management Company.

I will update Geotracker with the revised dates.

Please contact me should you have any questions.

Regards,

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502

Direct: 510.567.6876

Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Horne, Mark (MarkHorne) [mailto:MarkHorne@chevron.com]
Sent: Monday, August 31, 2015 5:02 PM
To: Detterman, Mark, Env. Health
Cc: Coulter, Alexis N; Lee, Nathan
Subject: 91153 Alameda, case no. RO0000341

Mark,

Please find attached above a letter regarding future actions at the Alameda site.

Thanks, Mark

Mark Horne
Project Manager
markhorne@chevron.com

Chevron Environmental Management Company
6101 Bollinger Canyon Rd., Room 5341
San Ramon, CA 94583
Tel +1 925 790-3964
Cell +1 925 324 5415

_____
This e-mail has been scanned for viruses

Appendix B
Summary of Environmental Investigation and Remediation

Appendix B Summary of Environmental Investigation and Remediation Former Chevron Service Station 91153 3135 Gibbons Drive (3126 Fernside Boulevard), Alameda, California

1986 UST Removal and Excavation

The underground storage tanks (USTs) were removed and an unreported volume of soil was excavated from the former UST pit and product line trenches. Excavated soil was aerated onsite and used as backfill. Additional information is available in Blaine Tech Services, Inc.'s June 19, 1986 Field Sampling report and Weiss Associates' (Weiss) December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

1986 Well Installation

Wells C-1 through C-3 were installed onsite. Additional information is available in Emcon Associates' September 18, 1986 *Well Installation Memorandum*.

1987 Area Well Survey

In August 1987, Pacific Environmental Group, Inc. (PEG) conducted a well survey and identified wells within approximately 0.5 mile of the site. The majority of these wells were used for groundwater monitoring or cathodic protection and some were used for irrigation. None of the wells were listed as municipal drinking water supply wells. Additional information is available in PEG's August 12, 1987 *Well Survey Report*.

1989 House Construction and Destruction of Monitoring Well C-2

According to Weiss' December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*, a majority of the soil beneath the planned residence footprint was removed for construction in early 1989. Groundwater monitoring well C-2 was apparently destroyed during construction prior to May 1989. Additional information is available in Weiss' December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

1987 and 1989 Soil Vapor Survey

Soil vapor surveys were conducted to quantify vapor intrusion to indoor air risks for onsite residents. Based on vapor concentrations from samples collected from the southeastern portion of the site, a vapor barrier was recommended for any structures. Additional information is available in EA Engineering's August 19, 1987 *Risk Assessment* and June 9, 1989 *Soil vapor Contaminant Assessment Report of Investigation*.

1989 Subsurface Investigation

In July 1989, EA collected soil samples from between 0.5 and 9.5 feet below grade (fbg) in five shallow onsite borings and three shallow offsite borings (SB1 through SB8). The highest concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene and xylenes (BTEX) were found in the areas east of the UST complex and pump islands. Additional information is available in Weiss' December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

1991 Groundwater Treatment

A groundwater pump and treat system was installed and operated by EA from 1991 to 1994. The system extracted groundwater from a recovery trench and extraction well RW-1. Additional information is available in Weiss' December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

1992 Well Installations

Offsite wells MW-4 through MW-6 were installed to further delineate the lateral extent of dissolved hydrocarbons. Additional information is available in Groundwater Technology Inc.'s (GTI) July 16, 1992 *Environmental Assessment Report*.

1993 Offsite Groundwater Sampling

Weiss collected groundwater samples from temporary offsite borings BH-A, BH-B, and BH-C, located crossgradient and downgradient of the groundwater extraction trench. Additional information is available in Weiss' December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan*.

1993 Monitoring Well Installation

On November 11, 1993 GTI installed groundwater monitoring well MW-7 and temporary monitoring well TMW-1 to further characterize the distribution of hydrocarbons in soil and groundwater upgradient and downgradient of the site. Additional information is available in GTI's January 31, 1994 *Additional Environmental Assessment Report*.

1994 Site Evaluation and Proposed Further Action

At Chevron's request, Weiss prepared a site evaluation to summarize all investigative and remedial actions performed to date and to outline a recommended future action plan. Additional information is available in WA's December 20, 1994 *Site Evaluation and Proposed Further Action Plan*.

1995 Well Installations

Wells MW-8 through MW-10 were installed to further delineate the downgradient extent of hydrocarbons in groundwater. Additional information is available in GTI's October 31, 1995 *Additional Site Assessment Report*.

1996 Evaluation for Potential Migration Pathway via Buried Utility Pipelines

Fluor Daniel GTI (FD-GTI) compiled utility location and depth information to analyze the potential for offsite migration of dissolved hydrocarbons in utility trenches. The report concluded that several utilities penetrated groundwater, but that these utilities were not acting as preferential pathways. The report states that the buried utilities were installed in materials similar to native soil and were unlikely to result in preferential flow. In addition, monitoring well data near the utilities was not consistent with preferential flow. Additional information is available in FD-GTI's May 15, 1996 *Evaluation for Potential Migration Pathway via Buried Utility Pipelines*.

1996 Geophysical Investigation for Buried Underground Storage Tanks

FD-GTI performed a geophysical survey of approximately 70 feet of sidewalk along Gibbons Boulevard and near monitoring well C-1. Both ground penetrating radar and vertical magnetic gradiometer were used. No buried underground storage tanks were identified within the survey areas. Additional

information is available in FD-GTI's July 8, 1996 *Geophysical Investigation for Buried Underground Storage Tanks*.

1997 Shallow Soil Investigation

Shallow soil samples S-1 through S-15 were collected along the north, west, and east property boundaries to assess lead concentrations in onsite soil. Additional information is available in Gettler-Ryan's (G-R) October 22, 1997 *Soil Sampling Report*.

1997 ORC and Peroxide Injection

Oxygen releasing compound (ORC) was placed in wells MW-6 and MW-7, and hydrogen peroxide was injected in well MW-1 to remediate light non-aqueous phase liquids. Additional information is available in ChevronTexaco Energy Research and Technology Company's (Chevron ETC) May 2003 *Risk-Based Corrective Action Evaluation of Vapor Intrusion to Indoor Air from Soil Vapor*.

1998 Bio-Parameter Evaluation

Three samples collected during the third quarter 1998 groundwater monitoring event were analyzed for bio-parameter data to evaluate biodegradation processes. The report concluded that not enough parameters indicated biodegradation was occurring. However, the report states that the recently added ORC and hydrogen peroxide would potentially increase bioremediation. Additional information is available in Chevron's September 29, 1998 *Bio-Remediation Evaluation Letter*.

1999 Hydrogen Peroxide Injection

In July 1999, Cambria Environmental Technology, Inc. (Cambria) injected a hydrogen peroxide solution into well C-1 to oxidize residual hydrocarbons. Additional information is available in Cambria's July 12, 1999 *Hydrogen Peroxide Injection Report*.

2001 to 2002 Groundwater Batch Extraction Events

Five groundwater batch extraction events were conducted. These events were discontinued because of inconvenience to the resident. Additional Information available in Chevron ETC's May 2003 *Risk-Based Corrective Action Evaluation of Vapor Intrusion to Indoor Air from Soil Vapor*.

2002-2003 Vapor Intrusion Study and Risk-Based Correction Action Evaluation of Vapor Intrusion to Indoor Air from Soil Vapor

Borings SV-1 through SV-7 were hand-augered along the edges of the current building and soil-vapor samples were collected from temporary probes. These data were used to evaluate potential indoor air risks to onsite residents. Data was compared to the United States Environmental Protection Agency's established target risk levels for adults and children. The report concludes that vapor intrusion risks from soil vapor intrusion to indoor air were below the established guidelines. Additional information is available in Chevron ETC's May 2003 *Risk-Based Corrective Action Evaluation of Vapor Intrusion to Indoor Air from Soil Vapor*.

2010 Preferential Pathway and Well Survey

In 2010, Conestoga-Rovers & Associates (CRA) completed another preferential pathway analysis and well survey. CRA located electric, natural gas, water, communication, storm drain sewer, and sanitary sewer lines near the site. Although some of these utilities periodically intersect the groundwater table,

hydrocarbon concentrations in monitoring wells indicate that utilities are not acting as significant pathways for hydrocarbon migration. This is consistent with previous assessments. The closest water supply wells are over 1,000 feet from the site. These wells are either upgradient or located in Oakland across the Oakland Alameda Estuary. The wells identified in the survey are not at risk from hydrocarbons originating from the site. Additional information is available in CRA's September 30, 2010 *Preferential Pathway Study and Well Survey Report*.

2011 Subsurface and Crawl Space and Indoor Ambient Air Investigation

In 2011, CRA collected 2 indoor ambient air samples from inside the residence, 2 ambient air samples from within the crawl space, and 1 outdoor ambient air sample. Also 8 soil borings B-1 through B-8 were advanced onsite. Additional information is available in CRA's April 18, 2012 *Subsurface and Crawl Space, Indoor and Ambient Air Investigation Report*.

2013 Crawl Space, Indoor Ambient Air and Sub-Slab Soil Gas Investigation

In 2013 CRA installed 2 sub-slab vapor probes and collected 2 sub-slab vapor probe samples, 2 indoor ambient air samples from inside the residence, 2 ambient air samples from within the crawl space, and 1 outdoor ambient air sample. Additional information is available in CRA's December 20, 2013 *Crawl Space, Indoor Ambient Air and Sub-slab Soil Gas Investigation Report*.

Appendix C
Alameda County Public Works Agency Permit

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/12/2015 By jamesy

Permit Numbers: W2015-0964
Permits Valid from 10/19/2015 to 10/19/2015

Application Id:	1444232102533	**City of Project Site:**	Alameda
Site Location:	3135 Gibbons Drive Alameda, CA 94501		
Project Start Date:	10/19/2015	**Completion Date:**	10/19/2015
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		
Applicant:	GHD Services Inc. - Charley McLean 2300 Clayton Road, Suite 920, Concord, CA 94520	**Phone:**	925-849-1017
Property Owner:	Mark Hom 3135 Gibbons Drive, Alameda, CA 94501	**Phone:**	--
Client:	Chevron Environmental Management Company n/a 6101 Bollinger Canyon Road, San Ramon, CA 94583	**Phone:**	--
Contact:	Charley McLean	**Phone:** **Cell:**	-- 225-907-5910

	Total Due:	$265.00
Receipt Number: WR2015-0510	**Total Amount Paid:**	$265.00
Payer Name : Elizabeth McLean	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 6 Boreholes
Driller: Vapor Tech Services - Lic #: 916085 - Method: Hand **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0964	10/12/2015	01/17/2016	6	3.00 in.	10.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit

application on site shall result in a fine of $500.00.

6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

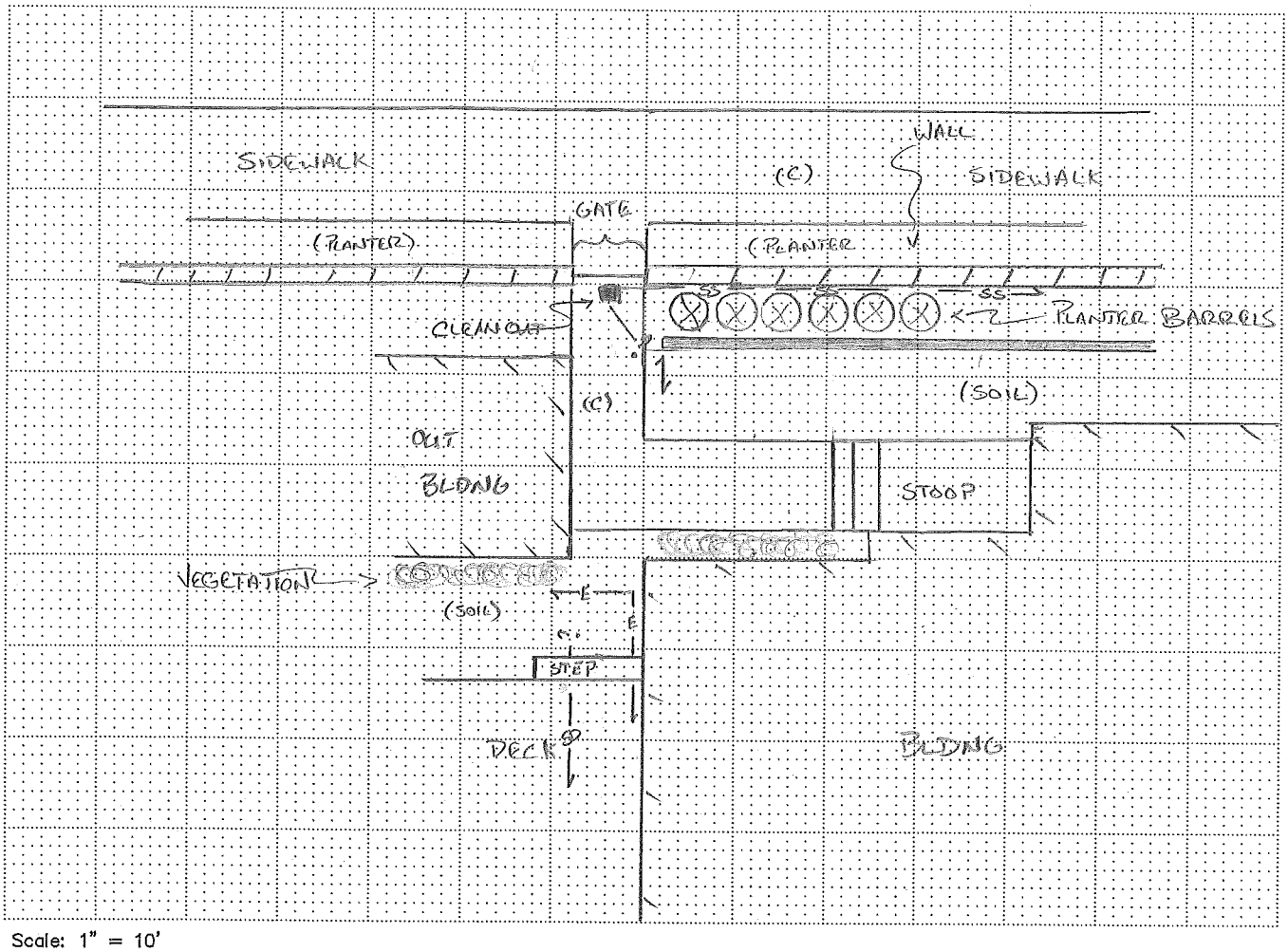
7. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Appendix D
Utility Location Figure

PERSONNEL: TWB	CLIENT: GHD
JOB: 15-319.17 DATE: 9-28-15	LOCATION: FORMER CHEVRON STN, 91153 ALAMEDA, CA
NORCAL GEOPHYSICAL CONSULTANTS INC. NORCAL	BORING: —



Scale: 1" = 10'

EXPLANATION

- ○ Original Boring Location
- ● Final Boring Location
- ——— GPR Traverse
- □ OR ⟷ Localized GPR Anomaly
- — — — Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- ✓ SS (Sanitary Sewer)
- ✓ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface

- _ RC (Reinforced Concrete)
- _ AC (Asphalt)
- ✓ C (Concrete)
- ✓ Soil
- _ Gravel
- _ other

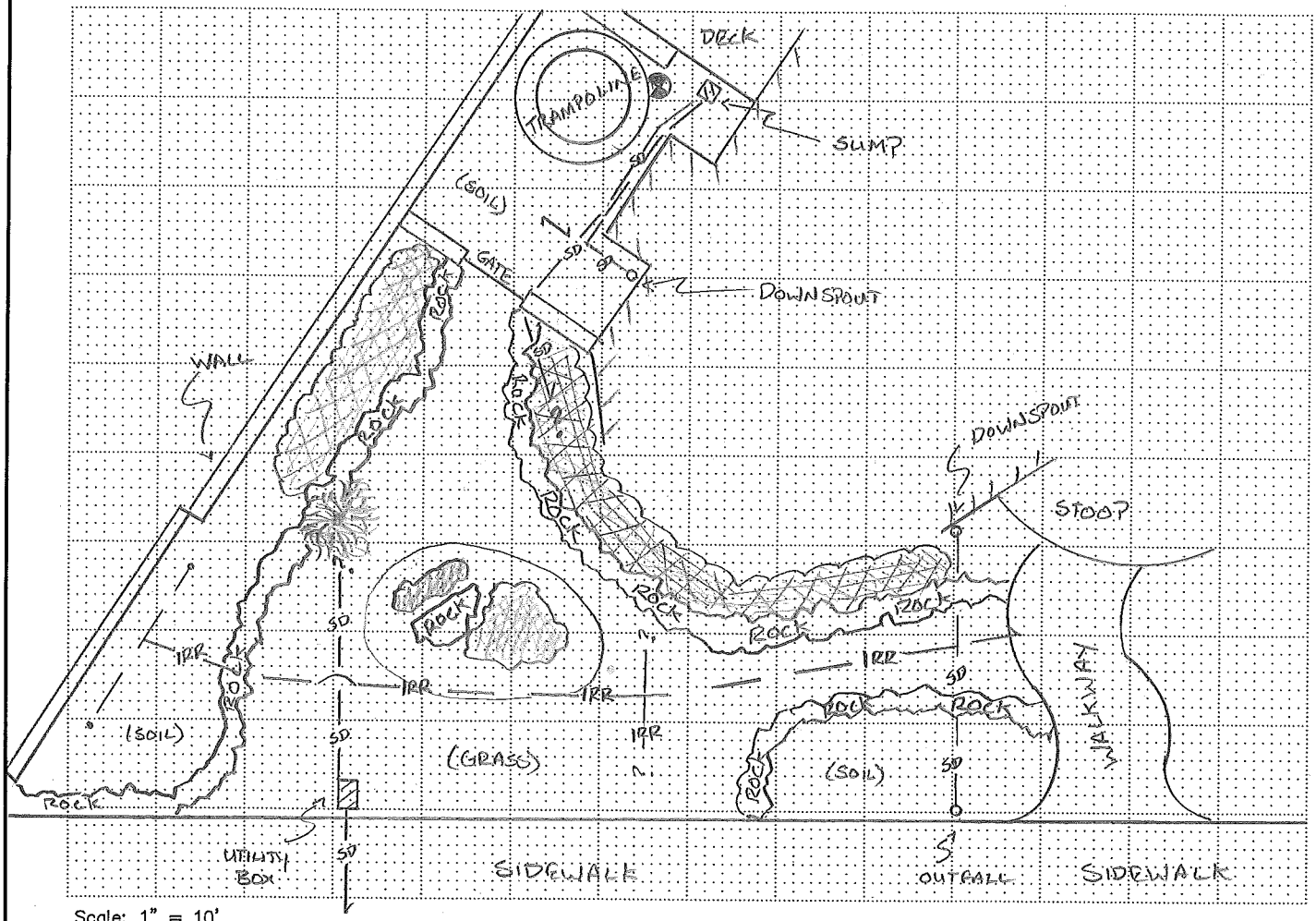
NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	✓ EMC (Conduction)	_ Wet
_ RD 400	✓ EMI (Induction)	✓ Dry
_ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N

PERSONNEL: TWB	CLIENT: GHD
JOB: 15-319.17 DATE: 9-28-15	LOCATION: FORMER CHEVRON STN. 91153 ALAMEDA, CA
NORCAL GEOPHYSICAL CONSULTANTS INC. NORCAL	BORING: —



Scale: 1" = 10'

EXPLANATION

○	Original Boring Location
●	Final Boring Location
———	GPR Traverse
▭ OR ⟷	Localized GPR Anomaly
— — —	Utility Alignment

Utilities

_ T (Telephone, Comm.)	_ SS (Sanitary Sewer)
_ E (Electric)	✓ SD (Storm Drain)
_ NG (Natural Gas)	_ W (Water)
_ CA (Compressed Air)	_ FS (Fire Supression)
_ STM (Steam)	_ UU (Undifferentiated Utility)
	✓ IRR IRRIGATION

Surface

_ RC (Reinforced Concrete)	✓ Soil
_ AC (Asphalt)	_ Gravel
_ C (Concrete)	✓ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	✓ EMC (Conduction)	_ Wet
_ RD 400	_ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

VEGETATION

N

Appendix E
Standard Field Procedures

Attachment E STANDARD FIELD PROCEDURES FOR HAND AUGER BORING AND SAMPLING

This document presents standard field procedures for drilling and sampling soil borings using a hand auger. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality, and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay, or gravel)
- Approximate percentage of each grain size category
- Color
- Approximate water or product saturation percentage
- Observed odor and/or discoloration
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy)
- Estimated permeability

Soil Boring and Sampling

Hand-auger borings are typically drilled using a hand-held bucket auger to remove soil to the desired sampling depth. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the augered hole. The vertical location of each soil sample is determined using a tape measure. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Augering and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling, and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4^{o}C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4ºC, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

The borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

Appendix F
Boring Logs

GHD
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-9
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							FILL: Silty Gravel.		
								2.5	
0.0		B-9- 3					**Silty SAND:** Brown; fine grain sand; moist.		
265		B-9-5		5	SM		@ 5 fbg: Color change greenish grey.		Portland Type II/V
0.0		B-9-8					@ 8 fbg: wet ▽		
							@ 9 fbg: Color change to brown.		
0.0		B-9-1 0		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

GHD
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-10
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
0.0		B-10- 3					**Silty SAND:** Light brown; fine grain sand; moist.		
3.9		B-10- 5		5	SM		@ 6 fbg: greenish grey		Portland Type II/V
51.7		B-10- 8					@ 8 fbg: wet; clay content increases ▽		
12.8		B-10- 10		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

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5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-11
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
0.0		B-11- 3					**Silty SAND:** Light brown; fine grain sand; moist.		
2.8		B-11- 5		5	SM		@ 5 fbg: greenish grey mottling		Portland Type II/V
1.5		B-11- 8					@ 8 fbg: wet; clay content increases ▽		
6.9		B-11- 10		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

GHD
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Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-12
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
3.7		B-12- 3					**Silty SAND:** Light brown; fine grain sand; moist.		
7.4		B-12- 5		5	SM		@ 6.5 fbg: greenish grey mottling @ 7 fbg: clay content increases		Portland Type II/V
1.9		B-12- 8					@ 8 fbg: wet ▽		
0.0		B-12- 10		10				10.5	Bottom of Boring @ 10.5 fbg

GHD
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-13
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
0.0		B-13- 3					**Silty SAND:** Brown; fine grain sand; moist.		
0.0		B-13- 5		5	SM		@ 5 fbg: color changes to greenish grey		Portland Type II/V
376									
0.1		B-13- 8					@ 8 fbg: wet ▽		
							@ 9 fbg: clay content increases; color changes to brown with greenish grey mottling		
0.0		B-13- 10		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

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Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-14
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
0.8		B-14- 3					**Silty SAND:** Brown; fine grain sand; moist.		
0.2		B-14- 5		5	SM		@ 5 fbg: Greenish grey mottling		Portland Type II/V
334							@ 6.5 fbg: Color change greenish grey.		
0.0		B-14- 8					@ 8 fbg: wet; clay content increases ▽		
3.0		B-14- 10		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

GHD
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	B-15
JOB/SITE NAME	91153	**DRILLING STARTED**	19-Oct-15
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	19-Oct-15
PROJECT NUMBER	311642	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services, C-57 #916085	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	8.00 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							TOPSOIL	0.5	
0.0		B-15- 3					**Silty SAND:** Brown; fine grain sand; moist.		
0.0		B-15- 5		5	SM				Portland Type II/V
							@ 7 fbg: Some greenish grey mottling		
0.0		B-15- 8					@ 8 fbg: wet ▽		
0.0		B-15- 10		10				10.5	Bottom of Boring @ 10.5 fbg

WELL LOG (PID) \\SFO-S1\SHARED\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 11/19/15

Appendix G
Laboratory Analytical Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

November 14, 2015

Project: 91153

Submittal Date: 10/21/2015
Group Number: 1602645
PO Number: 0015166637
Release Number: HORNE
HORNE

State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
B13-S-3-151019 Grab Soil	8097883
B13-S-5-151019 Grab Soil	8097884
QA-T-151019 NA Water	8097885
B13-S-8-151019 Grab Soil	8097886
B13-S-10-151019 Grab Soil	8097887
B15-S-3-151019 Grab Soil	8097888
B15-S-5-151019 Grab Soil	8097889
B15-S-8-151019 Grab Soil	8097890
B15-S-10-151019 Grab Soil	8097891
B12-S-3-151019 Grab Soil	8097892
B12-S-5-151019 Grab Soil	8097893
B12-S-8-151019 Grab Soil	8097894
B12-S-10-151019 Grab Soil	8097895
B14-S-3-151019 Grab Soil	8097896
B14-S-5-151019 Grab Soil	8097897
B14-S-8-151019 Grab Soil	8097898
B14-S-10-151019 Grab Soil	8097899
B11-S-3-151019 Grab Soil	8097900
B11-S-5-151019 Grab Soil	8097901
B11-S-8-151019 Grab Soil	8097902
B11-S-10-151019 Grab Soil	8097903
B10-S-3-151019 Grab Soil	8097904
B10-S-5-151019 Grab Soil	8097905
B10-S-8-151019 Grab Soil	8097906
B10-S-10-151019 Grab Soil	8097907
B9-S-3-151019 Grab Soil	8097908
B9-S-5-151019 Grab Soil	8097909
B9-S-8-151019 Grab Soil	8097910
B9-S-10-151019 Grab Soil	8097911

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	CRA	Attn: Nathan Lee
ELECTRONIC COPY TO	Chevron	Attn: GHD EDD

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: B13-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097883
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 10:20 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.03
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.03
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.03
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.03
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.43

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 13:00	Linda C Pape	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:44	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 19:18	Jeremy C Giffin	25.43
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:45	Stephanie A Sanchez	n.a.

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

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Analysis Report

Sample Description: B13-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097884
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 10:25 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.07
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.07
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.07
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.07
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.07
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.07
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	13	2.1	4.1	103.52

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 19:00	Linda C Pape	1.07
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:48	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 06:29	Jeremy C Giffin	103.52
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:48	Stephanie A Sanchez	n.a.

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Analysis Report

Sample Description: QA-T-151019 NA Water
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # WW 8097885
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA03

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	Naphthalene	91-20-3	N.D.	1	4	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

General 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/Naphthalene - Water	SW-846 8260B	1	D153023AA	10/29/2015 19:26	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153023AA	10/29/2015 19:26	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15296B20A	10/26/2015 01:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15296B20A	10/26/2015 01:08	Brett W Kenyon	1

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

Sample Description: B13-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097886
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 10:40 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.96
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.13

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 13:22	Linda C Pape	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:56	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 19:53	Jeremy C Giffin	24.13
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:57	Stephanie A Sanchez	n.a.

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

Sample Description: B13-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097887
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 10:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.02
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.02
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	23.95

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 13:45	Linda C Pape	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:51	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 20:28	Jeremy C Giffin	23.95
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:52	Stephanie A Sanchez	n.a.

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Analysis Report

Sample Description: B15-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097888
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:00 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.02
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.02
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 14:07	Linda C Pape	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 08:59	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 21:04	Jeremy C Giffin	25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:00	Stephanie A Sanchez	n.a.

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

Sample Description: B15-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097889
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:10 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.04
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.04
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.04
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.48

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 14:30	Linda C Pape	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:04	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:02	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 21:39	Jeremy C Giffin	25.48
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:03	Stephanie A Sanchez	n.a.

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

Sample Description: B15-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097890
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:20 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1
10237	Toluene	108-88-3	N.D.	0.001	0.005	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.48

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 14:53	Linda C Pape	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:09	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 22:14	Jeremy C Giffin	25.48
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:10	Stephanie A Sanchez	n.a.

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

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Analysis Report

Sample Description: B15-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097891
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:30 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.01
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.53

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 15:15	Linda C Pape	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:06	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 22:49	Jeremy C Giffin	24.53
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:06	Stephanie A Sanchez	n.a.

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

Sample Description: B12-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097892
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.11

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 15:38	Linda C Pape	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:13	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/26/2015 23:25	Jeremy C Giffin	24.11
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:13	Stephanie A Sanchez	n.a.

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

Sample Description: B12-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097893
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 11:50 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.07
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.07
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.07
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.07
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.07
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.07
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.9

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 00:33	Christopher G Torres	1.07
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:16	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 00:00	Jeremy C Giffin	24.9
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:16	Stephanie A Sanchez	n.a.

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

Sample Description: B12-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097894
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 12:05 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.04
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.04
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.04
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.83

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 16:23	Linda C Pape	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:19	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 00:35	Jeremy C Giffin	25.83
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:20	Stephanie A Sanchez	n.a.

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

Sample Description: B12-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097895
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 12:10 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	26.18

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 16:45	Linda C Pape	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:26	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 01:46	Jeremy C Giffin	26.18
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:27	Stephanie A Sanchez	n.a.

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

Sample Description: B14-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097896
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 13:15 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.95
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.95
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.95
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.18

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 17:08	Linda C Pape	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:22	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 02:22	Jeremy C Giffin	25.18
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:23	Stephanie A Sanchez	n.a.

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

Sample Description: B14-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097897
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 13:20 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.06
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.06
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.06
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.06
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.06
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.06
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.1	0.5	1	24.04

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 17:31	Linda C Pape	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:30	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 19:57	Jeremy C Giffin	24.04
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:31	Stephanie A Sanchez	n.a.

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

Sample Description: B14-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097898
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 13:30 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	0.001 J	0.0005	0.005	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.01
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.7 J	0.5	1	24.27

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 17:53	Linda C Pape	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:33	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 02:57	Jeremy C Giffin	24.27
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:34	Stephanie A Sanchez	n.a.

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

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Analysis Report

Sample Description: B14-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097899
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 13:40 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1
10237	Toluene	108-88-3	N.D.	0.001	0.005	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.9

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 18:15	Linda C Pape	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:37	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 03:32	Jeremy C Giffin	24.9
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:38	Stephanie A Sanchez	n.a.

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

Sample Description: B11-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097900
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 13:50 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.28

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153001AA	10/27/2015 18:38	Linda C Pape	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:46	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:46	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:41	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 04:07	Jeremy C Giffin	25.28
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:41	Stephanie A Sanchez	n.a.

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

Sample Description: B11-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097901
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:00 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.97
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1.0	25.8

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 00:55	Christopher G Torres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:46	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 09:46	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:44	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 04:43	Jeremy C Giffin	25.8
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:45	Stephanie A Sanchez	n.a.

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

Sample Description: B11-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097902
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:10 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.98
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.85

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 01:18	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:48	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 05:18	Jeremy C Giffin	24.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:49	Stephanie A Sanchez	n.a.

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

Sample Description: B11-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097903
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:15 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.01
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.85

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 01:40	Christopher G Torres	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:51	Stephanie A Sanchez	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299A34A	10/27/2015 05:53	Jeremy C Giffin	24.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:51	Stephanie A Sanchez	n.a.

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

Sample Description: B10-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097904
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.91
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.005	0.91
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.91
10237	Naphthalene	91-20-3	N.D.	0.0009	0.005	0.91
10237	Toluene	108-88-3	N.D.	0.0009	0.005	0.91
10237	Xylene (Total)	1330-20-7	N.D.	0.0009	0.005	0.91
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0016	1
10725	Acenaphthylene	208-96-8	0.00035 J	0.00033	0.0016	1
10725	Anthracene	120-12-7	0.00078 J	0.00033	0.0016	1
10725	Benzo(a)anthracene	56-55-3	0.0019	0.00066	0.0016	1
10725	Benzo(a)pyrene	50-32-8	0.0018	0.00066	0.0016	1
10725	Benzo(b)fluoranthene	205-99-2	0.0025	0.00066	0.0016	1
10725	Benzo(g,h,i)perylene	191-24-2	0.0013 J	0.00066	0.0016	1
10725	Benzo(k)fluoranthene	207-08-9	0.00080 J	0.00066	0.0016	1
10725	Chrysene	218-01-9	0.0023	0.00033	0.0016	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0016	1
10725	Fluoranthene	206-44-0	0.0029	0.00066	0.0016	1
10725	Fluorene	86-73-7	N.D.	0.00066	0.0016	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0010 J	0.00066	0.0016	1
10725	Naphthalene	91-20-3	0.0013 J	0.00066	0.0016	1
10725	Phenanthrene	85-01-8	0.0033	0.00066	0.0016	1
10725	Pyrene	129-00-0	0.0039	0.00066	0.0016	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	23.97
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	N.D.	4.0	12	1
	The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	9.9	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.	9.9	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	0.241 J	0.0422	0.490	1
06951	Chromium	7440-47-3	32.8	0.0961	1.47	1
06955	Lead	7439-92-1	4.19	0.314	1.47	1

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

Sample Description: B10-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097904
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06961	Nickel	7440-02-0	12.5	0.225	0.980	1
06972	Zinc	7440-66-6	17.4	0.755	1.96	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 02:03	Christopher G Torres	0.91
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:55	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 09:24	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 20:32	Jeremy C Giffin	23.97
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 09:56	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 14:02	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/10/2015 23:59	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	152965708006	10/27/2015 07:58	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	152965708006	10/27/2015 07:58	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	152965708006	10/27/2015 07:58	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	152965708006	10/27/2015 07:58	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	152965708006	10/27/2015 07:58	Joanne M Gates	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	152965708006	10/26/2015 13:33	James L Mertz	1

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

Sample Description: B10-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097905
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:50 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.027	0.27	54.7
10237	Ethylbenzene	100-41-4	N.D.	0.055	0.27	54.7
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	0.27	54.7
10237	Naphthalene	91-20-3	N.D.	0.055	0.27	54.7
10237	Toluene	108-88-3	N.D.	0.055	0.27	54.7
10237	Xylene (Total)	1330-20-7	N.D.	0.055	0.27	54.7
	Reporting limits were raised due to interference from the sample matrix.					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0017	1
10725	Acenaphthylene	208-96-8	N.D.	0.00033	0.0017	1
10725	Anthracene	120-12-7	0.0066	0.00033	0.0017	1
10725	Benzo(a)anthracene	56-55-3	0.0030	0.00066	0.0017	1
10725	Benzo(a)pyrene	50-32-8	0.0029	0.00066	0.0017	1
10725	Benzo(b)fluoranthene	205-99-2	0.0050	0.00066	0.0017	1
10725	Benzo(g,h,i)perylene	191-24-2	0.00087 J	0.00066	0.0017	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00066	0.0017	1
10725	Chrysene	218-01-9	0.015	0.00033	0.0017	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0017	1
10725	Fluoranthene	206-44-0	0.0063	0.00066	0.0017	1
10725	Fluorene	86-73-7	0.0037	0.00066	0.0017	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.00077 J	0.00066	0.0017	1
10725	Naphthalene	91-20-3	0.0056	0.00066	0.0017	1
10725	Phenanthrene	85-01-8	0.0068	0.00066	0.0017	1
10725	Pyrene	129-00-0	0.015	0.00066	0.0017	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	61	20	39	984.25
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	380	4.0	12	1
	The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	340	10	30	1
12159	Total TPH w/Si Gel	n.a.	340	10	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at 1.3%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	0.303 J	0.0426	0.495	1
06951	Chromium	7440-47-3	63.6	0.0970	1.49	1

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

Sample Description: B10-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097905
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 14:50 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06955	Lead	7439-92-1	4.33	0.317	1.49	1
06961	Nickel	7440-02-0	119	0.228	0.990	1
06972	Zinc	7440-66-6	25.4	0.762	1.98	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	Q153011AA	10/28/2015 14:27	Anita M Dale	54.7
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 10:03	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:00	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 09:57	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/28/2015 01:14	Jeremy C Giffin	984.25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:02	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 14:24	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 00:21	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	152965708006	10/27/2015 08:01	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	152965708006	10/27/2015 08:01	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	152965708006	10/27/2015 08:01	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	152965708006	10/27/2015 08:01	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	152965708006	10/27/2015 08:01	Joanne M Gates	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	152965708006	10/26/2015 13:33	James L Mertz	1

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

Sample Description: B10-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097906
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:05 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA24

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0006	0.006	1.11
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.006	1.11
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	1.11
10237	Naphthalene	91-20-3	N.D.	0.001	0.006	1.11
10237	Toluene	108-88-3	N.D.	0.001	0.006	1.11
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.006	1.11
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0016	1
10725	Acenaphthylene	208-96-8	N.D.	0.00033	0.0016	1
10725	Anthracene	120-12-7	N.D.	0.00033	0.0016	1
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00066	0.0016	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00066	0.0016	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00066	0.0016	1
10725	Benzo(g,h,i)perylene	191-24-2	N.D.	0.00066	0.0016	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00066	0.0016	1
10725	Chrysene	218-01-9	0.00041 J	0.00033	0.0016	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0016	1
10725	Fluoranthene	206-44-0	N.D.	0.00066	0.0016	1
10725	Fluorene	86-73-7	N.D.	0.00066	0.0016	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00066	0.0016	1
10725	Naphthalene	91-20-3	N.D.	0.00066	0.0016	1
10725	Phenanthrene	85-01-8	N.D.	0.00066	0.0016	1
10725	Pyrene	129-00-0	0.00076 J	0.00066	0.0016	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1.7	0.5	1.0	25.43
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	4.5 J	4.0	12	1
	DRO has been detected in the blank at 7.3 mg/kg. A reextraction was unable to be performed within the hold time. The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	10	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.	10	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	N.D.	0.0417	0.485	1

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

Sample Description: B10-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097906
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:05 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA24

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	
06951	Chromium	7440-47-3	42.5	0.0951	1.46	1
06955	Lead	7439-92-1	3.62	0.311	1.46	1
06961	Nickel	7440-02-0	35.7	0.223	0.971	1
06972	Zinc	7440-66-6	24.9	0.748	1.94	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	B153031AA	10/30/2015 17:38	Linda C Pape	1.11
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:49	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 10:29	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 21:07	Jeremy C Giffin	25.43
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:49	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 14:46	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 00:43	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153005708001	10/29/2015 06:54	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	153005708001	10/29/2015 06:54	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	153005708001	10/29/2015 06:54	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	153005708001	10/29/2015 06:54	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	153005708001	10/29/2015 06:54	Joanne M Gates	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153005708001	10/27/2015 13:18	James L Mertz	1

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

Sample Description: B10-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097907
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:15 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.01
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.01
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0017	1
10725	Acenaphthylene	208-96-8	N.D.	0.00033	0.0017	1
10725	Anthracene	120-12-7	N.D.	0.00033	0.0017	1
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00066	0.0017	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00066	0.0017	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00066	0.0017	1
10725	Benzo(g,h,i)perylene	191-24-2	N.D.	0.00066	0.0017	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00066	0.0017	1
10725	Chrysene	218-01-9	0.0011 J	0.00033	0.0017	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0017	1
10725	Fluoranthene	206-44-0	N.D.	0.00066	0.0017	1
10725	Fluorene	86-73-7	N.D.	0.00066	0.0017	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00066	0.0017	1
10725	Naphthalene	91-20-3	N.D.	0.00066	0.0017	1
10725	Phenanthrene	85-01-8	0.00071 J	0.00066	0.0017	1
10725	Pyrene	129-00-0	0.0010 J	0.00066	0.0017	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	1	24.7
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	21	3.9	12	1
	DRO has been detected in the blank at 7.3 mg/kg. A reextraction was unable to be performed within the hold time. The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	9.9	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.	9.9	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at 1.4%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	N.D.	0.0413	0.481	1

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

Sample Description: B10-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097907
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:15 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	
06951	Chromium	7440-47-3	61.8	0.0942	1.44	1
06955	Lead	7439-92-1	4.96	0.308	1.44	1
06961	Nickel	7440-02-0	45.9	0.221	0.962	1
06972	Zinc	7440-66-6	35.1	0.740	1.92	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	B153031AA	10/30/2015 18:01	Linda C Pape	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:57	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 11:02	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 21:43	Jeremy C Giffin	24.7
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 10:58	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 15:09	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 01:04	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153015708001	10/30/2015 04:07	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	153015708001	10/30/2015 04:07	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	153015708001	10/30/2015 04:07	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	153015708001	10/30/2015 04:07	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	153015708001	10/30/2015 04:07	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153015708001	10/29/2015 09:19	Christopher M Klumpp	1

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

Sample Description: B9-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097908
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:30 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA26

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.005	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.99
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.0033	0.0083	5
10725	Acenaphthylene	208-96-8	N.D.	0.0017	0.0083	5
10725	Anthracene	120-12-7	0.0024 J	0.0017	0.0083	5
10725	Benzo(a)anthracene	56-55-3	0.0069 J	0.0033	0.0083	5
10725	Benzo(a)pyrene	50-32-8	0.0060 J	0.0033	0.0083	5
10725	Benzo(b)fluoranthene	205-99-2	0.010	0.0033	0.0083	5
10725	Benzo(g,h,i)perylene	191-24-2	0.029	0.0033	0.0083	5
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.0033	0.0083	5
10725	Chrysene	218-01-9	0.0084	0.0017	0.0083	5
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0033	0.0083	5
10725	Fluoranthene	206-44-0	0.0052 J	0.0033	0.0083	5
10725	Fluorene	86-73-7	N.D.	0.0033	0.0083	5
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0057 J	0.0033	0.0083	5
10725	Naphthalene	91-20-3	0.0064 J	0.0033	0.0083	5
10725	Phenanthrene	85-01-8	0.0095	0.0033	0.0083	5
10725	Pyrene	129-00-0	0.011	0.0033	0.0083	5
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.6 J	0.5	1.0	25.46
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	360	4.0	12	1
	The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	890	49	150	5
12159	Total TPH w/Si Gel	n.a.	890	49	150	5
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	0.542	0.0417	0.485	1
06951	Chromium	7440-47-3	33.6	0.0951	1.46	1
06955	Lead	7439-92-1	247	0.311	1.46	1

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

Sample Description: B9-S-3-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097908
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:30 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA26

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06961	Nickel	7440-02-0	14.8	0.223	0.971	1
06972	Zinc	7440-66-6	69.1	0.748	1.94	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 03:10	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:01	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 11:35	Joseph M Gambler	5
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 22:53	Jeremy C Giffin	25.46
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:01	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 15:31	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 21:13	Heather E Williams	5
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153015708001	10/30/2015 04:10	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	153015708001	10/30/2015 04:10	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	153015708001	10/30/2015 04:10	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	153015708001	10/30/2015 04:10	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	153015708001	10/30/2015 04:10	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153015708001	10/29/2015 09:19	Christopher M Klumpp	1

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

Sample Description: B9-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097909
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:35 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.093	0.93	185.53
10237	Ethylbenzene	100-41-4	N.D.	0.19	0.93	185.53
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.093	0.93	185.53
10237	Naphthalene	91-20-3	N.D.	0.19	0.93	185.53
10237	Toluene	108-88-3	N.D.	0.19	0.93	185.53
10237	Xylene (Total)	1330-20-7	N.D.	0.19	0.93	185.53
	Reporting limits were raised due to interference from the sample matrix.					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0016	1
10725	Acenaphthylene	208-96-8	N.D.	0.00033	0.0016	1
10725	Anthracene	120-12-7	0.00070 J	0.00033	0.0016	1
10725	Benzo(a)anthracene	56-55-3	0.0014 J	0.00066	0.0016	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00066	0.0016	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00066	0.0016	1
10725	Benzo(g,h,i)perylene	191-24-2	N.D.	0.00066	0.0016	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00066	0.0016	1
10725	Chrysene	218-01-9	0.0011 J	0.00033	0.0016	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0016	1
10725	Fluoranthene	206-44-0	0.0018	0.00066	0.0016	1
10725	Fluorene	86-73-7	N.D.	0.00066	0.0016	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00066	0.0016	1
10725	Naphthalene	91-20-3	N.D.	0.00066	0.0016	1
10725	Phenanthrene	85-01-8	0.0012 J	0.00066	0.0016	1
10725	Pyrene	129-00-0	0.0028	0.00066	0.0016	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	420	190	380	9624.64
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	N.D.	4.0	12	1
	The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	9.9	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.	9.9	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	N.D.	0.0417	0.485	1
06951	Chromium	7440-47-3	43.2	0.0951	1.46	1

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

Sample Description: B9-S-5-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097909
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:35 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06955	Lead	7439-92-1	3.30	0.311	1.46	1
06961	Nickel	7440-02-0	22.8	0.223	0.971	1
06972	Zinc	7440-66-6	17.1	0.748	1.94	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	Q153011AA	10/28/2015 14:50	Anita M Dale	185.53
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:06	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 12:08	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/28/2015 01:50	Jeremy C Giffin	9624.64
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:07	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 15:54	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 01:48	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153015708001	10/30/2015 04:13	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	153015708001	10/30/2015 04:13	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	153015708001	10/30/2015 04:13	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	153015708001	10/30/2015 04:13	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	153015708001	10/30/2015 04:13	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153015708001	10/29/2015 09:19	Christopher M Klumpp	1

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

Sample Description: B9-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097910
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA28

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**		**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.		0.0005	0.005	0.99
10237	Ethylbenzene	100-41-4	N.D.		0.001	0.005	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.0005	0.005	0.99
10237	Naphthalene	91-20-3	N.D.		0.001	0.005	0.99
10237	Toluene	108-88-3	N.D.		0.001	0.005	0.99
10237	Xylene (Total)	1330-20-7	N.D.		0.001	0.005	0.99
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**		**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.		0.00066	0.0016	1
10725	Acenaphthylene	208-96-8	N.D.		0.00033	0.0016	1
10725	Anthracene	120-12-7	N.D.		0.00033	0.0016	1
10725	Benzo(a)anthracene	56-55-3	N.D.		0.00066	0.0016	1
10725	Benzo(a)pyrene	50-32-8	N.D.		0.00066	0.0016	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.		0.00066	0.0016	1
10725	Benzo(g,h,i)perylene	191-24-2	N.D.		0.00066	0.0016	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.		0.00066	0.0016	1
10725	Chrysene	218-01-9	N.D.		0.00033	0.0016	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.		0.00066	0.0016	1
10725	Fluoranthene	206-44-0	N.D.		0.00066	0.0016	1
10725	Fluorene	86-73-7	N.D.		0.00066	0.0016	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.00066	0.0016	1
10725	Naphthalene	91-20-3	N.D.		0.00066	0.0016	1
10725	Phenanthrene	85-01-8	N.D.		0.00066	0.0016	1
10725	Pyrene	129-00-0	N.D.		0.00066	0.0016	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.7	J	0.5	1	24.85
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	N.D.		3.9	12	1

The surrogate data is outside the QC limits. Results from the duplicate are within the limits. Similar results were obtained in both extracts. The reverse surrogate, capric acid, is present at <1%.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.		9.9	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.		9.9	30	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	N.D.		0.0430	0.500	1

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

Sample Description: B9-S-8-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097910
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:45 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA28

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	
06951	Chromium	7440-47-3	46.5	0.0980	1.50	1
06955	Lead	7439-92-1	3.80	0.320	1.50	1
06961	Nickel	7440-02-0	36.5	0.230	1.00	1
06972	Zinc	7440-66-6	27.4	0.770	2.00	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	A153002AA	10/28/2015 03:33	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:18	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:10	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 07:13	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/27/2015 23:29	Jeremy C Giffin	24.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:11	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 12:32	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 02:09	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153015708001	10/30/2015 04:17	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	153015708001	10/30/2015 04:17	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	153015708001	10/30/2015 04:17	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	153015708001	10/30/2015 04:17	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	153015708001	10/30/2015 04:17	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153015708001	10/29/2015 09:19	Christopher M Klumpp	1

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

Sample Description: B9-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097911
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:55 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA29

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	N.D.	0.0005	0.005	1.06
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.06
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.06
10237	Naphthalene	91-20-3	N.D.	0.001	0.005	1.06
10237	Toluene	108-88-3	N.D.	0.001	0.005	1.06
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	1.06
GC/MS Semivolatiles	**SW-846 8270C SIM**		**mg/kg**	**mg/kg**	**mg/kg**	
10725	Acenaphthene	83-32-9	N.D.	0.00066	0.0016	1
10725	Acenaphthylene	208-96-8	N.D.	0.00033	0.0016	1
10725	Anthracene	120-12-7	N.D.	0.00033	0.0016	1
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00066	0.0016	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00066	0.0016	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00066	0.0016	1
10725	Benzo(g,h,i)perylene	191-24-2	N.D.	0.00066	0.0016	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00066	0.0016	1
10725	Chrysene	218-01-9	0.00041 J	0.00033	0.0016	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00066	0.0016	1
10725	Fluoranthene	206-44-0	N.D.	0.00066	0.0016	1
10725	Fluorene	86-73-7	N.D.	0.00066	0.0016	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00066	0.0016	1
10725	Naphthalene	91-20-3	N.D.	0.00066	0.0016	1
10725	Phenanthrene	85-01-8	N.D.	0.00066	0.0016	1
10725	Pyrene	129-00-0	N.D.	0.00066	0.0016	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1.2	0.5	1.0	26.01
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	N.D.	3.9	12	1
	The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
12159	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	9.9	30	1
12159	Total TPH w/Si Gel	n.a.	N.D.	9.9	30	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06949	Cadmium	7440-43-9	N.D.	0.0417	0.485	1
06951	Chromium	7440-47-3	61.3	0.0951	1.46	1
06955	Lead	7439-92-1	5.89	0.311	1.46	1

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

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Analysis Report

Sample Description: B9-S-10-151019 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alamedo T0600100330

LL Sample # SW 8097911
LL Group # 1602645
Account # 10880

Project Name: 91153

Collected: 10/19/2015 15:55 by BY

Submitted: 10/21/2015 09:30
Reported: 11/14/2015 14:33

ChevronTexaco
Suite A
5900 Hollis Street
Emeryville CA 94608

ALA29

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
06961	Nickel	7440-02-0	44.1	0.223	0.971	1
06972	Zinc	7440-66-6	36.4	0.748	1.94	1

General 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
10237	VOCs 8260 BTEX/MTBE/Naph Soil	SW-846 8260B	1	B153031AA	10/30/2015 18:24	Linda C Pape	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:19	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201529539190	10/22/2015 11:19	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:15	Stephanie A Sanchez	n.a.
10725	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	15301SLC026	11/03/2015 12:41	Joseph M Gambler	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	15301SLC026	10/28/2015 17:10	Shawn J McMullen	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	15299B34A	10/28/2015 00:04	Jeremy C Giffin	26.01
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201529539190	10/22/2015 11:16	Stephanie A Sanchez	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	153040005A	11/09/2015 16:16	Thomas C Wildermuth	1
12159	TPH Fuels soils w/Si Gel	SW-846 8015B modified	1	153140034A	11/11/2015 03:14	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	153040005A	11/02/2015 02:30	Sherry L Morrow	1
11218	TPH Fuels Soils Extraction	SW-846 3546	1	153140034A	11/02/2015 02:30	Sherry L Morrow	1
06949	Cadmium	SW-846 6010B	1	153015708001	10/30/2015 04:20	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	153015708001	10/30/2015 04:20	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	153015708001	10/30/2015 04:20	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	153015708001	10/30/2015 04:20	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	153015708001	10/30/2015 04:20	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153015708001	10/29/2015 09:19	Christopher M Klumpp	1

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A153001AA	Sample number(s): 8097883-8097884,8097886-8097892,8097894-8097900								
Benzene	N.D.	0.0005	0.005	mg/kg	98	98	80-120	0	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	95	100	72-120	5	30
Naphthalene	N.D.	0.001	0.005	mg/kg	92	100	53-120	8	30
Toluene	N.D.	0.001	0.005	mg/kg	96	96	80-120	0	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	98	98	80-120	0	30
Batch number: A153002AA	Sample number(s): 8097893,8097901-8097904,8097908,8097910								
Benzene	N.D.	0.0005	0.005	mg/kg	98	98	80-120	1	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	100	99	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	90	93	72-120	3	30
Naphthalene	N.D.	0.001	0.005	mg/kg	90	91	53-120	0	30
Toluene	N.D.	0.001	0.005	mg/kg	99	97	80-120	2	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	101	99	80-120	2	30
Batch number: B153031AA	Sample number(s): 8097906-8097907,8097911								
Benzene	N.D.	0.0005	0.005	mg/kg	102	85	80-120	19	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	104	82	80-120	23	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	105	91	72-120	14	30
Naphthalene	N.D.	0.001	0.005	mg/kg	107	89	53-120	19	30
Toluene	N.D.	0.001	0.005	mg/kg	103	82	80-120	23	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	104	82	80-120	23	30
Batch number: D153023AA	Sample number(s): 8097885								
Benzene	N.D.	0.5	1	ug/l	117		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	102		78-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	108		75-120		
Naphthalene	N.D.	1.	4	ug/l	81		59-120		
Toluene	N.D.	0.5	1	ug/l	105		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	106		80-120		
Batch number: Q153011AA	Sample number(s): 8097905,8097909								
Benzene	N.D.	0.025	0.25	mg/kg	97	107	80-120	11	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	87	96	80-120	9	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	87	99	72-120	13	30
Naphthalene	N.D.	0.050	0.25	mg/kg	69	79	53-120	14	30
Toluene	N.D.	0.050	0.25	mg/kg	95	104	80-120	9	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	88	97	80-120	10	30
Batch number: 15301SLC026	Sample number(s): 8097904-8097911								

*- Outside of specification
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(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: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	N.D.	0.00067	0.0017	mg/kg	91		72-118		
Acenaphthylene	N.D.	0.00033	0.0017	mg/kg	79		74-114		
Anthracene	N.D.	0.00033	0.0017	mg/kg	94		70-118		
Benzo(a)anthracene	N.D.	0.00067	0.0017	mg/kg	92		75-119		
Benzo(a)pyrene	N.D.	0.00067	0.0017	mg/kg	93		77-114		
Benzo(b)fluoranthene	N.D.	0.00067	0.0017	mg/kg	106		74-140		
Benzo(g,h,i)perylene	N.D.	0.00067	0.0017	mg/kg	92		79-121		
Benzo(k)fluoranthene	N.D.	0.00067	0.0017	mg/kg	92		74-115		
Chrysene	N.D.	0.00033	0.0017	mg/kg	95		76-122		
Dibenz(a,h)anthracene	N.D.	0.00067	0.0017	mg/kg	87		77-126		
Fluoranthene	N.D.	0.00067	0.0017	mg/kg	90		64-128		
Fluorene	N.D.	0.00067	0.0017	mg/kg	97		75-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	0.0017	mg/kg	89		77-122		
Naphthalene	N.D.	0.00067	0.0017	mg/kg	89		76-118		
Phenanthrene	N.D.	0.00067	0.0017	mg/kg	94		70-119		
Pyrene	N.D.	0.00067	0.0017	mg/kg	95		67-116		
Batch number: 15296B20A	Sample number(s): 8097885								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	93	95	71-138	2	30
Batch number: 15299A34A	Sample number(s): 8097883-8097884,8097886-8097896,8097898-8097903								
TPH-GRO N. CA soil C6-C12	N.D.	0.5	1.0	mg/kg	92	96	73-120	4	30
Batch number: 15299B34A	Sample number(s): 8097897,8097904-8097911								
TPH-GRO N. CA soil C6-C12	N.D.	0.5	1.0	mg/kg	93	91	73-120	2	30
Batch number: 153040005A	Sample number(s): 8097904-8097911								
TPH-DRO soil C10-C28 w/Si Gel	7.3 J	4.0	12	mg/kg	61		59-120		
Batch number: 153140034A	Sample number(s): 8097904-8097911								
Motor Oil C16-C36 w/Si Gel	N.D.	10.	30	mg/kg					
Total TPH w/Si Gel	N.D.	10.	30	mg/kg	85		53-123		
Batch number: 152965708006	Sample number(s): 8097904-8097905								
Cadmium	N.D.	0.0430	0.500	mg/kg	104		80-120		
Chromium	N.D.	0.0980	1.50	mg/kg	102		80-120		
Lead	N.D.	0.320	1.50	mg/kg	106		80-120		
Nickel	N.D.	0.230	1.00	mg/kg	104		80-120		
Zinc	N.D.	0.770	2.00	mg/kg	101		80-120		
Batch number: 153005708001	Sample number(s): 8097906								
Cadmium	N.D.	0.0430	0.500	mg/kg	103		80-120		
Chromium	0.0990 J	0.0980	1.50	mg/kg	102		80-120		
Lead	N.D.	0.320	1.50	mg/kg	102		80-120		
Nickel	N.D.	0.230	1.00	mg/kg	105		80-120		
Zinc	N.D.	0.770	2.00	mg/kg	102		80-120		
Batch number: 153015708001	Sample number(s): 8097907-8097911								
Cadmium	N.D.	0.0430	0.500	mg/kg	114		80-120		
Chromium	N.D.	0.0980	1.50	mg/kg	113		80-120		
Lead	N.D.	0.320	1.50	mg/kg	113		80-120		
Nickel	N.D.	0.230	1.00	mg/kg	114		80-120		
Zinc	N.D.	0.770	2.00	mg/kg	113		80-120		

*- Outside of specification
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(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: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D153023AA	Sample number(s): 8097885 UNSPK: P098537								
Benzene	120	115	78-120	4	30				
Ethylbenzene	102	102	78-120	0	30				
Methyl Tertiary Butyl Ether	107	102	75-120	5	30				
Naphthalene	72	74	59-120	3	30				
Toluene	108	105	80-120	2	30				
Xylene (Total)	106	104	80-120	2	30				
Batch number: 15301SLC026	Sample number(s): 8097904-8097911 UNSPK: 8097910								
Acenaphthene	92	92	72-118	0	30				
Acenaphthylene	74	75	74-114	1	30				
Anthracene	89	90	70-118	1	30				
Benzo(a)anthracene	88	88	75-119	0	30				
Benzo(a)pyrene	86	86	77-114	0	30				
Benzo(b)fluoranthene	97	97	74-140	0	30				
Benzo(g,h,i)perylene	92	90	79-121	1	30				
Benzo(k)fluoranthene	86	85	74-115	1	30				
Chrysene	89	89	76-122	0	30				
Dibenz(a,h)anthracene	85	85	77-126	0	30				
Fluoranthene	85	87	64-128	2	30				
Fluorene	90	90	75-124	1	30				
Indeno(1,2,3-cd)pyrene	88	87	77-122	1	30				
Naphthalene	81	85	76-118	5	30				
Phenanthrene	89	91	70-119	2	30				
Pyrene	90	90	67-116	0	30				
Batch number: 153040005A	Sample number(s): 8097904-8097911 UNSPK: 8097910 BKG: 8097910								
TPH-DRO soil C10-C28 w/Si Gel	67		59-120			N.D.	N.D.	0 (1)	20
Batch number: 153140034A	Sample number(s): 8097904-8097911 UNSPK: 8097910 BKG: 8097910								
Motor Oil C16-C36 w/Si Gel						N.D.	N.D.	0 (1)	20
Total TPH w/Si Gel	74		53-123			N.D.	N.D.	0 (1)	20
Batch number: 152965708006	Sample number(s): 8097904-8097905 UNSPK: P091755 BKG: P091755								
Cadmium	87	90	75-125	5	20	N.D.	N.D.	0 (1)	20
Chromium	12*	31*	75-125	5	20	67.8	56.5	18	20
Lead	94	95	75-125	1	20	6.63	6.73	1 (1)	20
Nickel	89	93	75-125	3	20	48.6	50.2	3	20
Zinc	98	95	75-125	1	20	77.3	79.4	3	20
Batch number: 153005708001	Sample number(s): 8097906 UNSPK: P095145 BKG: P095145								
Cadmium	111	88	75-125	15	20	1.75	1.77	1 (1)	20

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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	169 (2)	76 (2)	75-125	11	20	132	101	26*	20
Lead	1561 (2)	1064 (2)	75-125	4	20	1,550	2,610	51*	20
Nickel	182*	124	75-125	18	20	67.6	212	103*	20
Zinc	-37 (2)	397 (2)	75-125	5	20	3,810	4,020	5	20
Batch number: 153015708001	Sample number(s): 8097907-8097911 UNSPK: P105283 BKG: P105283								
Cadmium	103	98	75-125	4	20	N.D.	N.D.	0 (1)	20
Chromium	-489 (2)	796 (2)	75-125	50*	20	479	724	41*	20
Lead	102	122	75-125	17	20	1.43	2.44	52* (1)	20
Nickel	-1224 (2)	1398 (2)	75-125	58*	20	2,190	3,810	54*	20
Zinc	81	134*	75-125	28*	20	42.1	73.7	55*	20

Surrogate Quality Control

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

Analysis Name: VOCs 8260 BTEX/MTBE/Naph Soil
Batch number: A153001AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8097883	103	104	97	91
8097884	104	100	95	98
8097886	102	101	96	93
8097887	104	102	96	90
8097888	104	100	98	88
8097889	105	100	97	90
8097890	105	101	96	94
8097891	104	100	97	88
8097892	106	103	99	86
8097894	108	103	96	87
8097895	106	99	97	86
8097896	109	103	95	88
8097897	109	103	98	84
8097898	101	100	99	90
8097899	105	100	97	87
8097900	107	102	97	88
Blank	105	106	96	90
LCS	104	105	98	100
LCSD	103	105	97	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs 8260 BTEX/MTBE/Naph Soil
Batch number: A153002AA

*- 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.
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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: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8097893	102	101	98	88
8097901	103	103	97	89
8097902	104	100	98	88
8097903	104	99	98	87
8097904	105	104	97	88
8097908	106	103	99	85
8097910	104	102	95	102
Blank	102	105	98	91
LCS	100	102	100	99
LCSD	102	101	100	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs 8260 BTEX/MTBE/Naph Soil
Batch number: B153031AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8097906	108	105	95	109
8097907	105	101	95	98
8097911	105	100	92	98
Blank	110	109	94	91
LCS	105	105	100	102
LCSD	107	105	98	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/Naphthalene - Water
Batch number: D153023AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8097885	110	103	92	97
Blank	111	104	93	97
LCS	104	102	94	106
MS	105	101	92	105
MSD	105	99	94	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: VOCs 8260 BTEX/MTBE/Naph Soil
Batch number: Q153011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8097905	85	89	82	81
8097909	94	98	90	101
Blank	88	95	86	79
LCS	86	92	85	80
LCSD	94	103	94	88
Limits:	50-141	54-135	52-141	50-131

Analysis Name: PAH SIM 8270 Soil Microwave
Batch number: 15301SLC026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
8097904	84	81	79
8097905	94	92	133
8097906	91	89	84
8097907	92	89	84

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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Surrogate Quality Control

8097908	95	88	87
8097909	91	90	82
8097910	94	91	86
8097911	90	88	82
Blank	100	98	92
LCS	96	95	90
MS	91	88	83
MSD	90	88	85
Limits:	49-151	62-137	39-152

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 15296B20A

	Trifluorotoluene-F
8097885	84
Blank	86
LCS	93
LCSD	92
Limits:	63-135

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 15299A34A

	Trifluorotoluene-F
8097883	96
8097884	91
8097886	98
8097887	91
8097888	97
8097889	89
8097890	92
8097891	89
8097892	94
8097893	95
8097894	90
8097895	85
8097896	100
8097898	87
8097899	91
8097900	96
8097901	93
8097902	91
8097903	91
Blank	108
LCS	107
LCSD	110
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 15299B34A

	Trifluorotoluene-F
8097897	97
8097904	98
8097905	157*
8097906	89

*- Outside of specification
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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1602645
Reported: 11/14/2015 14:33

Surrogate Quality Control

8097907	93
8097908	95
8097909	119
8097910	89
8097911	91
Blank	112
LCS	109
LCSD	107
Limits:	50-142

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel
Batch number: 153040005A

	Orthoterphenyl
8097904	58
8097905	60
8097906	57
8097907	52
8097908	70
8097909	66
8097910	47*
8097911	60
Blank	101
DUP	62
LCS	64
MS	65
Limits:	50-123

Analysis Name: TPH Fuels soils w/Si Gel
Batch number: 153140034A

	Chlorobenzene	Orthoterphenyl
8097904	89	92
8097905	95	98
8097906	80	72
8097907	82	86
8097908	93	104
8097909	82	74
8097910	80	79
8097911	78	87
Blank	97	102
DUP	91	88
LCS	86	100
MS	72	80
Limits:	56-128	55-135

*- Outside of specification
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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.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

1Ø2Ø15-Ø2

Acct. # 10880 For Eurofins Lancaster Laboratories Environmental use only Group # 1602645 Sample # 809783-911

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 91153 WBS

Site Address 3135 Gibbons Dr, Alameda, CA

Chevron PM Mark Home Lead Consultant GHD

Consultant/Office Nathan Lee / Concord GHD

Consultant Project Mgr. Nathan Lee

Consultant Phone # (925) 849-1003

Sampler Blew Yifru / Charley McLean

SCR #: _____

2 Sample Identification

3 Grab / Composite

4 Matrix

Soil: Sediment, Soil | Water: Potable, Ground, Surface, NPDES, Blank | Oil | Air

5 Analyses Requested

Total Number of Containers | BTEX + MTBE + 8021 ☐ 8260 ☒ Naphthalene | TPH-GRO 8015 ☐ 8260 ☒ MW | TPH-DRO 8015 without Silica Gel Cleanup ☐ | TPH-DRO 8015 with Silica Gel Cleanup ☐ | 8260 Full Scan | Oxygenates _____ | Total Lead Method _____ | Dissolved Lead Method _____

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Containers	BTEX+MTBE+8021 / 8260	TPH-GRO 8015 / 8260
Chevron 91153-B13-3'	3	10/19/15	1020	X		X			1	X	X
Chevron 91153-B13-5'	5	10/19/15	1025	X		X			1	X	X
TRIP BLANK	—	—	—				X		2	X	X
TEMP BLANK	—	—	—				X		2		
Chevron 91153-B13-8'	8	10/19/15	1040	X		X			1	X	X
Chevron 91153-B13-10'	10	10/19/15	1045	X		X			1	X	X
Chevron 91153-B15-3'	3	10/19/15	1100	X		X			1	X	X
Chevron 91153-B15-5'	5	10/19/15	1110	X		X			1	X	X
Chevron 91153-B15-8'	8	10/19/15	1120	X		X			1	X	X
Chevron 91153-B15-10'	10	10/19/15	1130	X		X			1	X	X

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

6 Remarks

7 Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

8 Data Package (circle if required)

Type I - Full Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) Other: _____

Relinquished by	Date	Time	Received by	Date	Time
Charley McLean	10/20/15	1020	A. Salazar	2Ø OCT 15	1Ø2Ø
	10/20/15	1600	FE		
Relinquished by Commercial Carrier: UPS _____ FedEx ✓ Other _____					
Temperature Upon Receipt 0.5-1.7 °C			Custody Seals Intact? (Yes) No		

9

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7050 0713

Chevron California Region Analysis Request/Chain of Custody

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P. 2 of 3

160615-02

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 10880 Group # 1602645 Sample # 809788 3-911
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # 91153 WBS

Site Address 3135 Gibbons Dr, Alameda, CA

Chevron PM ~~Nathan Lee~~ (CM) Lead Consultant Mark Horne - GHD

Consultant/Office GHD/Concord

Consultant Project Mgr. Nathan Lee

Consultant Phone # (925) 849-1003

Sampler Belen Yifru / Charley McLean

4 Matrix

5 Analyses Requested

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	3 Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE + 8021	TPH-GRO 8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead				
Chevron 91153-B12-3'	3	10/19/15	1145	X		X			1	X	X										
Chevron 91153-B12-5'	5	10/19/15	1150	X		X			1	X	X										
Chevron 91153-B12-8'	8	10/19/15	1205	X		X			1	X	X										
Chevron 91153-B12-10'	10	10/19/15	1210	X		X			1	X	X										
Chevron 91153-B14-3'	3	10/19/15	1315	X		X			1	X	X										
Chevron 91153-B14-5'	5	10/19/15	1320	X		X			1	X	X										
Chevron 91153-B14-8'	8	10/19/15	1330	X		X			1	X	X										
Chevron 91153-B14-10'	10	10/19/15	1340	X		X			1	X	X										
Chevron 91153-B11-3'	3	10/19/15	1350	X		X			1	X	X										
Chevron 91153-B11-5'	5	10/19/15	1400	X		X			1	X	X										

6 Remarks

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time
Charley McLean	10/20/15	1020	A. Salazar	20 OCT 15	1020
[signature]	10/20/15	1700	FE		
Relinquished by Commercial Carrier: UPS _____ FedEx X Other _____			[signature]	10/21/15	930

Temperature Upon Receipt 0.5-1.7 °C

Custody Seals Intact? Yes No

3/3

Chevron California Region Analysis Request/Chain of Custody

eurofins | P1 3 of 3 Lancaster Laboratories

102015-02

For Lancaster Laboratories use only
Acct. # 10880 Group # 1602645 Sample # 8097883-911
Instructions on reverse side correspond with circled numbers.

SCR #: ______

① Client Information

Facility # 91153 WBS
Site Address 3135 Gibbons Dr, Alameda, CA
Chevron PM Mark Horne Lead Consultant GHD
Consultant/Office GHD/Concord, CA
Consultant Project Mgr. Nathan Lee
Consultant Phone # (925)849-1003
Sampler Belew Yifru/Charley McLean

④ Matrix: Sediment ☐ / Soil ☒; Ground ☐ / Potable ☐ (Water); Surface ☐ / NPDES ☐; Air ☐ / Oil ☐

⑤ Analyses Requested: BTEX + MTBE ~~+ 8021~~ ☐ 8260 B ☒ naphthalene; TPH GRO 8015 m ☒ 8260 ☐; ~~TPH 8015 MOD DRO~~ TPHd EPA 8015M w/silica gel; ~~Silica Gel Cleanup~~ TPHmo EPA 8015M w/silica gel; ~~8260 Full Scan~~ 16 priority pollutant PAHs EPA 8270 SIM; Five LUFT Metals ~~Oxygenates~~ 6010; ~~Total Lead~~ TPHg Method 8015; ~~Dissolved Lead~~ TPHmo Method 8015; TPHd 8015; Full Scan VOC (including BTEX) 8260; PCBs 8082; CAM-17 Metals 6010 B

② Sample Identification	Date	Time	③ Grab	Composite	Soil	Total Number of Containers	BTEX + MTBE 8260 B naphthalene	TPH GRO 8015m	TPHd EPA 8015M w/silica gel	TPHmo EPA 8015M w/silica gel	16 priority pollutant PAHs EPA 8270 SIM	Five LUFT Metals 6010	TPHg Method 8015	TPHmo Method 8015	TPHd 8015	Full Scan VOC (including BTEX) 8260	PCBs 8082	CAM-17 Metals 6010 B
Chevron 91153-B11-8'	10/19/15	1410	X		X	1	X	X										
Chevron 91153-B11-10'	〃	1415	〃		〃	〃	〃	〃										
Chevron 91153-B10-3'	〃	1445	〃		〃	〃	〃	〃	X	X	X	X						
Chevron 91153-B10-5'	〃	1450	〃		〃	〃	〃	〃	〃	〃	〃	〃						
Chevron 91153-B10-8'	〃	1505	〃		〃	〃	〃	〃	〃	〃	〃	〃						
Chevron 91153-B10-10'	〃	1515	〃		〃	〃	〃	〃	〃	〃	〃	〃						
Chevron 91153-B9-3'	〃	1530	〃		〃	〃	〃	〃	〃	〃	〃	〃						
Chevron 91153-B9-5'	〃	1535	〃		〃	〃	〃	〃	〃	〃	〃	〃						
Chevron 91153-B9-8'	〃	1545	〃		〃	〃	〃	〃										
Chevron 91153-B9-10'	〃	1555	〃		〃	〃	〃	〃										
Chevron 91153-WC	〃	1550		X		〃							X	X	X	X	X	X

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ______ oxy's on highest hit
☐ Run ______ oxy's on all hits

⑥ Remarks

Chevron 91153-WC is a 4-pt composite. Please put on its own Lab Report. See attached for contingency analyses for this sample ONLY.

⑦ Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

⑧ Data Package Options (please circle if required)

Type I - Full Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time ⑨
Charley McLean	10/20/15	1020	A. [signature]	20 OCT 15	1020
[signature]	10/20/15	1600	FE		
Relinquished by Commerical Carrier: UPS ____ FedEx X Other ____			Received by [signature]	10/21/15	930

Temperature Upon Receipt 0.5-1.0 °C
Custody Seals Intact? (Yes) No

Issued by Dept. 40 Management
7050.01

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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