Dave Patten
Project Manager
Marketing Business Unit

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RECEIVED

9:12 am, Apr 19, 2012

Alameda County
Environmental Health

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

Re: Chevron Service Station No. 9-1153
3135 Gibbons Drive (3126 Fernside Blvd)
Alameda, CA

I have reviewed the attached report dated April 18, 2012.

The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

Mark E. Hamm for/

Dave Patten
Project Manager

Attachment: Report

SUBSURFACE AND CRAWL SPACE, INDOOR AND AMBIENT AIR INVESTIGATION REPORT

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

Prepared For:

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

Prepared by:
Conestoga-Rovers & Associates

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APRIL 18, 2012
REF. NO. 311642 (20)
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SUBSURFACE AND CRAWL SPACE, INDOOR ANDAMBIENT AIR INVESTIGATION REPORT

FORMER CHEVRON SERVICE STATION 9-1153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sequoia Patterson

Nathan Lee PG# 8486

Prepared by:
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Subsurface and Crawl Space, Indoor and Ambient Air Investigation Report* for the site referenced above on behalf of Chevron Environmental Management Company (Chevron). The purpose of this work was to assess subsurface soil conditions in the former dispenser island and underground storage tank (UST) locations areas, and to evaluate ambient air conditions as well as within and below the existing residence.

CRA submitted a *Work Plan for Subsurface and Ambient Air Investigation* dated June 10, 2011, as well as the *Modified Work Plan Addendum* dated September 9, 2011. The work outlined in the work plan and the work plan addendum was approved by Alameda County Environmental Health (ACEH) in a letter dated September 12, 2011 (Appendix A). Subsurface investigation involved advancing eight soil borings on January 18, 2012, and ambient air sampling was conducted on January 26 through January 27. Presented below are site background, methods, investigation results, ambient air results, and CRA's conclusions and recommendations.

2.0 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 former service station operated until June 1986. A residence was built on the property in 1989 (Figure 2). Surrounding area use is residential and commercial.

2.2 PREVIOUS ENVIRONMENTAL WORK

Environmental investigations began in 1986 with the underground storage tank (UST) removal. Since 1986, a total of 12 confirmation samples, 26 soil borings, 10 groundwater monitoring wells (well C-2 has been destroyed), 1 extraction well, 1 temporary well, and 51 temporary soil vapor probes have been installed. 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 since 1995 weekly to quarterly light non-aqueous

phase liquid (LNAPL) removal by bailing. Two 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. Depth to water in wells ranges from approximately 0 to 6.5 fbg. Groundwater beneath the site is designated as an existing or potential drinking water resource.[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.

3.0 SUBSURFACE SOIL AND CRAWL SPACE, INDOOR AND AMBIENT AIR INVESTIGATION

The investigation objective was to assess soil conditions in the areas surrounding the former dispenser island and UST locations and to assess ambient air on the property. Field activities are summarized below.

Site Health and Safety Plan

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

[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.

Permits

Drilling permits W2012-0079 was obtained from ACEH on January 23, 2012 (Appendix C).

Drilling Company

Vapor Tech Services (VTS), of Berkeley, California (C57 license #916085) preformed the soil boring advancement.

Drilling Dates

Drilling took place on January 18 2012.

CRA Personnel

CRA Personnel, Sequoia Patterson and Amanda McDonell managed the drilling under the supervision of California Professional Geologist Nathan Lee (PG 8486).

Utility Clearance

Prior to drilling, CRA contacted Underground Service Alert (USA) to mark underground utilities near the proposed boring locations. CRA contracted Norcal Geophysical Services of Cotati California to verify underground utility locations near proposed boring locations using electronic line location, metal detectors, and ground penetrating radar.

Drilling Method

Vapor Tech Services advanced soil borings B-1 through B-8 using 2 inch hand augers.

Boring Depths

Borings B-1, and B-3 through B-6 were advanced to 10 fbg. Borings B-2 and B- 8 were abandoned at 7 fbg due to caving sands. Boring B-7 was abandoned at 6.5 fbg due to refusal. Bring logs are included in Appendix D. Soil boring locations are shown on Figure 3.

Soil Sampling

Un-disturbed soil samples were collected using a slide hammer lined with 6 inch brass tubes. Where litholgy did not permit slide hammer sampling, disturbed samples were collected directly from the hand auger bucket.

Soil was logged according to the ASTM D2488-06 Unified Soil Classification System and screened using a photo-ionization detector. 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 Lancaster Laboratories (Lancaster) of Lancaster, Pennsylvania for analysis.

Crawl Space, Indoor and Ambient Air Sampling Dates

Ambient air sampling began on January 26, 2012 and concluded on January 27, 2012.

Crawl Space, Indoor and Ambient Air Sampling

Prior to ambient air sampling a Building Survey and Building Chemical Screening forms were completed and are included in Appendix E.

Indoor air samples were collected from two locations inside the home (IA-1 in the living room and IA-2 in the laundry room). Crawl space samples were collected from two locations (CA-1 and CA-2) in the crawlspace, and one ambient air sample was collect from an upwind location (OA-1) outside the house. A field duplicate was collected concurrently with the outdoor ambient air sample OA-1. The various sample locations are shown on Figure 4.

Air samples were collected in 6 liter Summa™ canisters, in accordance with the DTSC *Advisory-Active Soil Gas Investigations* guidance document using flow limiters set at 3.61 milliliters per minute to allow the desired sample volume in approximately 24 hours. All samples were labeled, logged on a chain-of-custody, stored at ambient temperature, and shipped to Air Toxics LTD. of Folsom, California for analysis.

Laboratory Analyses

Soil samples were analyzed by Lancaster Laboratories for the following constituents:

- TPHg by Environmental Protection Agency (EPA) Method 8015B modified
- TPHd and TPH Motor Oil by EPA Method 8015B modified with Silica Gel clean up
- Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), 1,2 Dibromoethane (EDB) and 1,2 Dichoroethane (1,2 DCA) by EPA Method 8260B

Vapor samples were analyzed by Air Toxics LTD for the following constituents:

- TPHg, BTEX, MTBE, naphthalene and TPH fractionation by EPA method TO-15 GC/MS

Waste Disposal

Soil cuttings and rinsate water were stored onsite in sealed and labeled Department of Transportation (DOT) approved 55-gallon drums. All generated waste were profiled and disposed of at Filter Recycling Services, Inc. facility in Rialto, California.

4.0 SUBSURFACE INVESTIGATION RESULTS

4.1 SOIL ANALYTICAL RESULTS

Hydrocarbons and fuel oxygenates were detected in the soil samples collected primary between 3.5 to 5 fbg. No MTBE was detected in any of the samples. Current and historical soil analytical results are presented in Table 1. The laboratory analytical report for soil is included in Appendix F. Soil analytical results are summarized in Table A below.

TABLE A: SOIL ANALYTICAL RESULTS

		TPHmo	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*
ESL[2] Table G		***NA***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***
ESL[2] Table K-3		***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***
Sample ID	***Depth***	***All results reported in milligrams per kilogram***						
B-1	3	<10	6.2	<9.3	<0.0005	<0.001	<0.001	<0.001
B-1	5	31	**850**	**2,900**	**2.4**	1.1	**100**	**290**
B-1	9.5	<10	<4.0	8.2	0.027	<0.050	0.11	0.27
B-2	3	<10	5.7	<1.0	0.0006	<0.001	<0.001	<0.001
B-2	4.5	110	41	2.2	<0.0005	<0.001	<0.001	<0.001
B-3	3	16	**440**	**3,200**	**31**	**350**	**110**	**630**
B-3	4.5	<10	**110**	**1,700**	**25**	**240**	**72**	**370**
B-3	7.5	<10	<4.0	**110**	**1.2**	2.6	1.4	**7.1**
B-3	9.5	<10	4.4	24	**0.29**	2.2	0.86	**4.7**
B-4	3	<10	59	**600**	**5.9**	**4.4**	**6.6**	**24**
B-4	6	<10	**540**	**980**	**11**	0.15	1.1	0.81

[2] Environmental Screening Levels (ESLs) Ambient and Indoor Air Screening Levels, Lowest Residential Concerns from the *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* by the California Regional Water Quality Control Board, San Francisco Bay Region Interim Final November 2007, revised May 2008, Table G, K-3.

TABLE A: SOIL ANALYTICAL RESULTS								
		TPHmo	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*
ESL[2] Table G		***NA***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***
ESL[2] Table K-3		***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***
Sample ID	*Depth*	***All results reported in milligrams per kilogram***						
B-4	9.5	<10	<4.0	7.4	**0.074**	0.13	0.2	0.81
B-5	3	51	**1300**	**5200**	**6.3**	**43**	**110**	**570**
B-5	4.5	36	**1600**	**6000**	**1.4**	1.8	**180**	**240**
B-5	6	<10	19	**160**	0.034	0.77	1.3	**4.1**
B-5	9.5	<10	4.2	23	<0.026	0.024	0.28	1.1
B-6	3	37	**420**	**2100**	**3.1**	**64**	**59**	**350**
B-6	4.5	<10	**110**	**1800**	**3.9**	**72**	**47**	**260**
B-6	6	<10	<4.0	1.5	**0.21**	0.006	0.006	0.017
B-6	9.5	<10	<4.0	24	**0.1**	2.2	2	**12**
B-7	3	45	21	<1.0	<0.0005	<0.001	<0.001	0.001
B-7	6	67	28	<1.0	<0.0005	<0.001	<0.001	0.001
B-8	3	220	47	<10	<0.0005	<0.001	<0.001	<0.001
B-8	5	39	24	<1.0	<0.0005	<0.001	<0.001	0.001

4.2 CRAWL SPACE, INDOOR AND AMBIENT AIR ANALYTICAL RESULTS

Hydrocarbons were detected in ambient air above environmental screening levels (ESL's)[3] in several samples. Complete ambient air results are included as Table 2 and 3. Historic soil vapor results are included as Table 4. The laboratory analytical report for vapor is included as Appendix G. Crawl space, indoor, and ambient air analytical results are summarized in Table B below.

[3] Environmental Screening Levels (ESLs) Ambient and Indoor Air Screening Levels, Lowest Residential Concerns from the *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* by the California Regional Water Quality Control Board, San Francisco Bay Region Interim Final November 2007, revised May 2008, Table E-3.

TABLE B: CRAWL SPACE, INDOOR and AMBIENT AIR ANALYTICAL RESULTS							
	TPHg	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*Naphthalene*
ESLs Ambient and Indoor air Residential[3]	**10**	**0.084**	**63**	**0.98**	**21**	**9.4**	**0.072**
WELL ID	*All results reported in microgram per cubic meter*						
OA-1	<72	**0.88**	2.5	0.49	2.14	<0.63	<4.6
OA-1-DUP	<71	**0.86**	2.7	0.46	2.18	<0.62	<4.5
IA-1	**410**	**5.1**	21	**3.4**	14.4	<0.68	<4.9
IA-2	**1,100**	**20**	**85**	**13**	**52**	<0.59	<4.3
CS-1	<66	**0.98**	2.6	0.51	2.17	<0.58	<4.2
CS-2	**94**	**1.0**	3.0	0.59	2.58	<0.57	<4.1

No aromatic (carcinogenic) hydrocarbons were detected in the APH Fraction analysis. The only non-target compounds from the Modified EPA method TO-15 analysis appear to be aliphatic (noncarcinogenic) hydrocarbons in the indoor air sample IA-2. APH Fraction analytical data is presented in Table 3, and summarized in Table C below.

TABLE C: APH FRACTIONATION RESULTS						
	C5-C6 Aliphatic Hydrocarbons	*>C6-C8 Aliphatic Hydrocarbons*	*>C8-C10 Aliphatic Hydrocarbons*	*>C10-C12 Aliphatic Hydrocarbons*	*>C8-C10 Aromatic Hydrocarbons*	*C10-C12 Aromatic Hydrocarbons*
Well ID	**All results reported in microgram per cubic meter**					
OA-1	<57	<72	<100	<120	<86	<96
OA-1-DUP	<56	<71	<100	<120	<85	<95
IA-1	<61	<77	<110	<130	<92	<100
IA-2	83	<67	<95	<110	<80	<89
CS-1	<52	<66	<94	<110	<80	<89
CS-2	<51	<64	<91	<110	<77	<86

4.3 AMBIENT AIR DATA INTERPRETATION

Indoor air samples may measure BTEX and other petroleum hydrocarbon compounds within the concentration ranges commonly seen as background values measured at sites where no subsurface petroleum hydrocarbon contamination is present. There are many sources of background contamination inside buildings. Materials and substances commonly found in commercial and residential settings, such as paints, paint thinners, gasoline-powered machinery, gasoline containers, building materials, cleaning products, dry cleaned clothing, and cigarette smoke, contain volatile organic compounds (VOCs)

that may be detected by indoor air testing. Table D presents a summary of BTEX background concentrations reported in several indoor air studies.

TABLE D: SUMMARY OF INDOOR AIR BACKGROUND STUDIES[4]

	USEPA (2002)							
Chemical of concern	***Brown et al. (1994) ppbv***	***Sheldon (1992) ppbv***	***EPA IAQ (1991) ppbv***	***Shah and Singh (1988) ppbv***	***Stolwijk (1990) ppbv***	***Foster et al. (2002) ppbv***	***Range of values ppbv***	***Range of values (µg/m³)***
Benzene	2.51	0.69	4.39	5.16	3.16	1.28	0.69 -5.16	2.14 -16.8
Ethyl-benzene	1.15	–	3.23	2.89	2.32	–	1.15 -3.23	5.08 -14.3
Toluene	9.83	–	16.21	7.39	22.0	–	7.39 -22.0	26.9 -80.0
Xylenes, m-p	5.54	–	–	–	4.57	–	4.57 -5.54	20.0 -24.2

Notes: USEPA = United States Environmental Protection Agency, ppbv = parts per billion by volume, µg/m3 = micrograms per cubic meter.

For example, the range of normal background concentrations for benzene spans the 1.41 to 14.1 µg/m³ range representing 10^{-5} to 10^{-4} incremental risk values published as part of the California Human Health Screening Levels (CHHSLs) by California EPA. Table E lists the Office of Environmental Health Hazard Assessment (OEHHA) hazard quotient concentration values of 1 and excess cancer risk concentrations of 10^{-6}.

[4] T.E. McHugh et. al., *An Empirical Analysis of the Groundwater-to-Indoor-Air Exposure Pathway: The Role of Background Concentrations in Indoor Air*, 2004.

TABLE E: CALIFORNIA HUMAN HEALTH SCREENING LEVELS FOR INDOOR AIR AND SOIL GAS

Chemical	*[1]Indoor Air Human Health Screening Levels (µg/m3)*	
	Residential Land Use	*Commercial/ Industrial Land Use Only*
Benzene	8.40 E-02	1.41 E-01
Carbon Tetrachloride	5.79 E-02	9.73 E-02
1,2-Dichloroethane	1.16 E-01	1.95 E-01
cis-1,2-Dichloroethylene	3.65 E+01	5.11 E+01
trans-1,2-Dichloroethylene	7.30 E+01	1.02 E+02
Ethylbenzene	0.97 E+00[2]	1.60 E+00[2]
Mercury, elemental	9.40 E-02	1.31 E-01
Methyl tertiary-Butyl Ether	9.35 E+00	1.57 E+01
Naphthalene	7.20 E-02	1.20 E-01
Tetrachloroethylene	4.12 E-01	6.93 E-01
Tetraethyl Lead	3.65 E-04	5.11 E-04
Toluene	3.13 E+02	4.38 E+02
1,1,1-Trichloroethane	2.29 E+03	3.21 E+03
Trichloroethylene	1.22 E+00	2.04 E+00
Vinyl Chloride	3.11 E-02	5.24 E-02
m-Xylene	7.30 E+02[3]	1.02 E+03[3]
o-Xylene	7.30 E+02[3]	1.02 E+03[3]
p-Xylene	7.30 E+02[3]	1.02 E+03[3]

Reference: Appendix 1, OEHHA Target Indoor Air Concentrations and Soil-Gas Screening Numbers for Existing Buildings under Residential and Industrial/Commercial land uses.

Notes: 1. "Residential Land Use" screening levels generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.).

Commercial/industrial properties should be evaluated using both residential and commercial/industrial CHHSLs. A deed restriction that prohibits use of the property for sensitive purposes may be required at sites that are evaluated and/or remediated under a commercial/industrial land use scenario only.

Calculation of cumulative risk may be required at sites where multiple contaminants with similar health effects are present.

Carcinogens: CHHSLS based on target cancer risk of 10-6. Cal/EPA cancer slope factors used when available.

Noncarcinogens: CHHSLS based on target hazard quotient of 1.0.

Soil Gas: Screening levels based on soil gas data collected <1.5 meters (five feet) below a building foundation or the ground surface. Intended for evaluation of potential vapor intrusion into buildings and subsequent impacts to indoor-air. Soil gas data should be collected and evaluated at all sites with significant areas of VOC-impacted soil. Screening levels also apply to sites that overlie plumes of VOC-impacted groundwater.

2. Calculation of a screening number for the chemical outlined in OEHHA draft report, *California Human Health Screening Levels for Ethylbenzene* dated November 2009.

3. Representative Screening Numbers for mixed xylenes. The representative value for mixed xylenes is based on the calculated lowest one amongst the three isomers.

As a result, it is not possible to interpret whether vapor intrusion is occurring by simply comparing indoor air concentration against the most conservative screening values, since these values do not account for background concentrations. Instead, indoor concentrations must be compared to both outdoor air and crawl space vapor

concentrations to determine whether external or indoor sources are contributing to indoor air concentrations. A clear indication of active vapor intrusion would be a combination of indoor and outdoor air samples where indoor air contained significantly greater concentrations of petroleum hydrocarbon VOCs (e.g. BTEX) than outdoor air, and also contained significantly lower concentrations of petroleum hydrocarbon VOCs than crawl space air.

Indoor air, outdoor air, and crawlspace concentrations will be evaluated per the above protocols. Criteria indicative of vapor intrusion should be:

1. Indoor air benzene concentrations significantly higher than outdoor air.
2. Indoor air benzene concentrations significantly higher than the range of normal background (rather than the indoor air 10^{-6} standard values presented in OEHHA Table 2 above, which are within the lower range of normal background).
3. Crawl space benzene concentrations significantly higher than indoor air.

Any other combination of concentrations, and concentration ratios, will likely indicate either an indoor or outdoor background source rather than vapor intrusion to the building.

This information is gathered from the DTSC's 2005 guidance document and the OEHHA November 2002 *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)*.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Indoor ambient air hydrocarbon concentrations are significantly higher than both outdoor and crawl space ambient air, however the concentrations of both outside and crawl space ambient air are very similar. The detected outside and crawl space ambient air concentrations are likely caused by vehicle emissions from High Street and Fernside Boulevard, as both streets are heavily traveled. The highest concentrations were detected in sample IA-2, which was placed in the laundry room. During the building chemical screening CRA observed 409 Cleaner, Easy Off Oven /Grill Cleaner, Bona Hardwood Refinisher, Bona Hardwood Cleaner, Lysol Disinfectant Spray, and other chemicals in the laundry room (Appendix E). The laundry room is also the entrance to the adjacent attached garage which is actively used to store two vehicles. These chemicals and vehicles in the garage are likely sources for the hydrocarbon

concentrations detected in IA-2.[5,6] The detected hydrocarbon concentrations in IA-1 could be contributed to the ventilation system mixing air containing chemicals found in the laundry room. Though ambient air concentrations are above ESLs levels for residential occupation, the factors used to confirm that the source of vapor intrusion is from a sub-surface hydrocarbon source, have not been met. Therefore the high levels detected in indoor air are likely due to source other then sub-surface hydrocarbons, such as an indoor source.

Based on the soil data we propose, upon approval, proceeding with the Surfactant Enhanced Recovery initially discussed in the *Work Plan for Remediation and Vapor Survey* submitted by CRA on January 14, 2010. In order to monitor and the effectiveness of surfactant injection and extractions, CRA proposes to install two monitoring wells onsite near C-1 (Figure 5). The monitoring wells will be installed in close proximity to soil borings B-4 and B-5.

Permits

CRA will obtain the necessary permits from Alameda County Public Works prior to beginning field operations.

Health and Safety Plan

CRA will prepare a health and safety plan to protect site workers. The plan will be reviewed and signed by all site workers and visitors and remain onsite during all field activities.

Underground Utility Location

CRA will contact Underground Services Alert (USA) no less than 48 hours prior to the start of field activities. CRA will also use a private utility locator to confirm that no utilities exist near the proposed temporary monitoring well location. In accordance with Chevron safety standards, a hand auger will be utilized to clear the boring to a depth of 8 fbg.

---

[5] Lisa A. Graham and Lianne Noseworth, etl., "Contribution of Vehicle Emissions from an Attached Garage to Residential Indoor Air Pollution Levels," Air and Waste Management Association, 54, (May 2004), 563 - 584

[6] R. E. Dodson, J. I. Levy, J. D. Spengler, J. P. Shine and D. H. bennett, "Influence of Basements, garages, and Common Hallways on Indoor Residential Volatile Organic Compound Concentrations", Atmospheric Environment, 42, (2008), 1569-1581.

Well Installation

The monitoring well will be installed to a depth of approximately 10 feet below first encountered groundwater utilizing hollow-stem augers. The well will be constructed with of 2-inch diameter Schedule 40 PVC, with a 10 foot screen interval with 0.02-inch slots. The annular space around the screen will be filled with #2/12 sand from the base of the boring to 6-inches above the screen interval. The well will then be sealed with approximately 6-inches of hydrated bentonite chips followed by Type I/II Portland cement to approximately 0.5 fbg where a traffic rated well vault will be used to finish the well. The well will be properly developed and sampled at least 72-hours after the well is installed.

Soil Sampling

CRA will collect soil samples at a minimum of 5-foot intervals, at the soil/groundwater interface, at obvious changes in soil types, and where hydrocarbon staining are observed to the total depth explored. Soils will be logged on a boring log using ASTM D2488-06 Unified Soil Classification System. Soil samples will be screened visually and with a photo-ionization detector (PID), all PID measurements will be recorded on the boring log. All samples will be sealed, labeled, logged on a chain-of-custody, placed on ice, and transported to a Chevron and California State approved laboratory for analysis.

Laboratory Analyses

Select soil samples will be analyzed for:

- TPHmo by EPA Method 8015B utilizing silica gel clean up:
- TPHd by EPA Method 8015B utilizing silica gel clean up;
- TPHg by EPA Method 8015B;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B

Well Survey

The monitoring wells will be surveyed by a California licensed land surveyor for all required data that will be uploaded to the State's Geotracker database.

Waste Disposal

Soil cuttings generated will be placed in Department of Transportation (DOT) approved drums, labeled appropriately, and temporarily stored onsite. The waste will be

transported to a Chevron-approved disposal facility following receipt of the analytical profile.

Upon ACEH, CRA will install the observation monitoring wells and implement the surfactant injection and extraction outlined in CRA's *Work Plan for Remediation and Vapor Survey* dated January 14, 2010

FIGURES

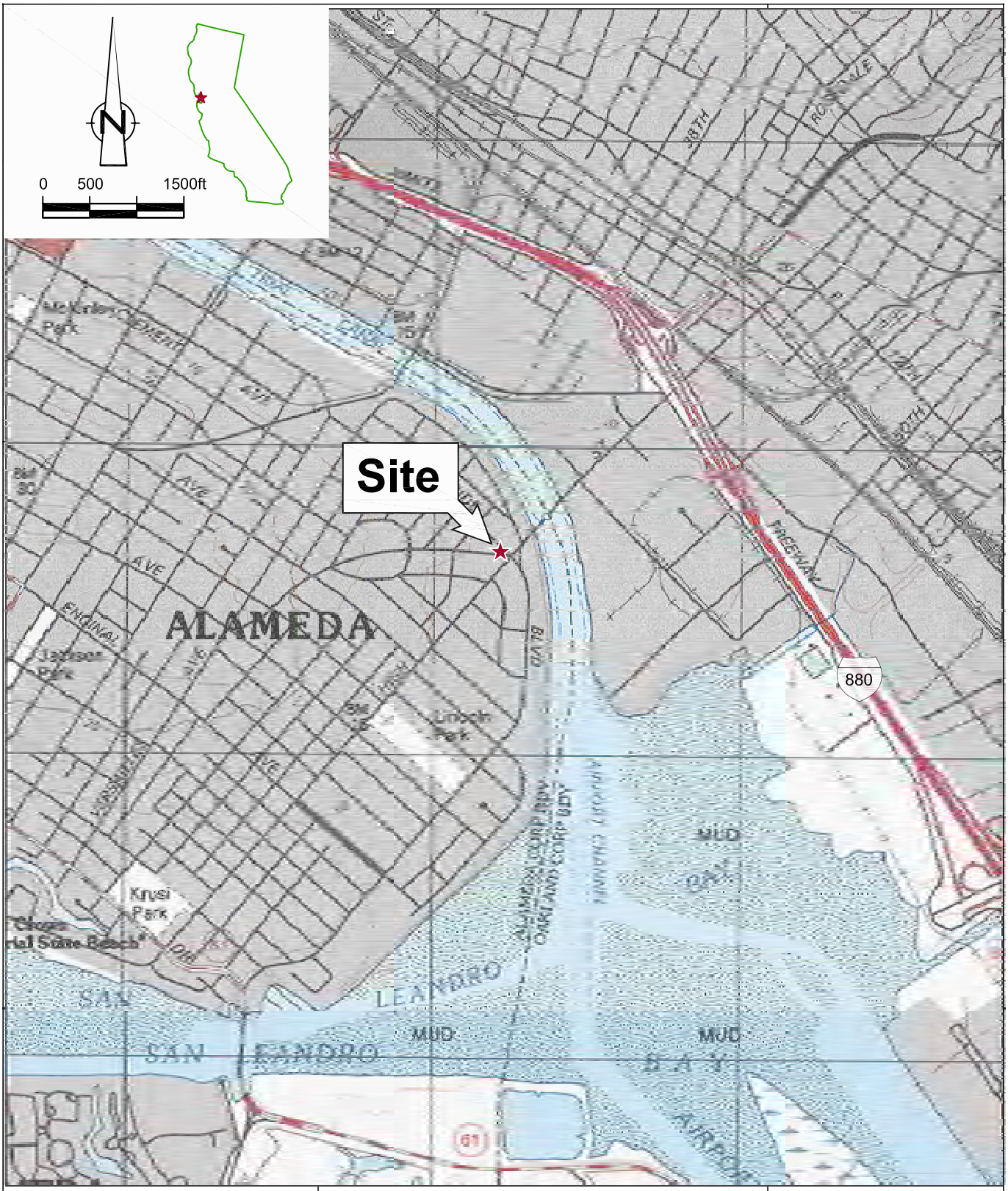

Figure 1

VICINITY MAP
FORMER CHEVRON SERVICE STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD)
Alameda, California

311642-95(019)GN-EM001 FEB 10/2012

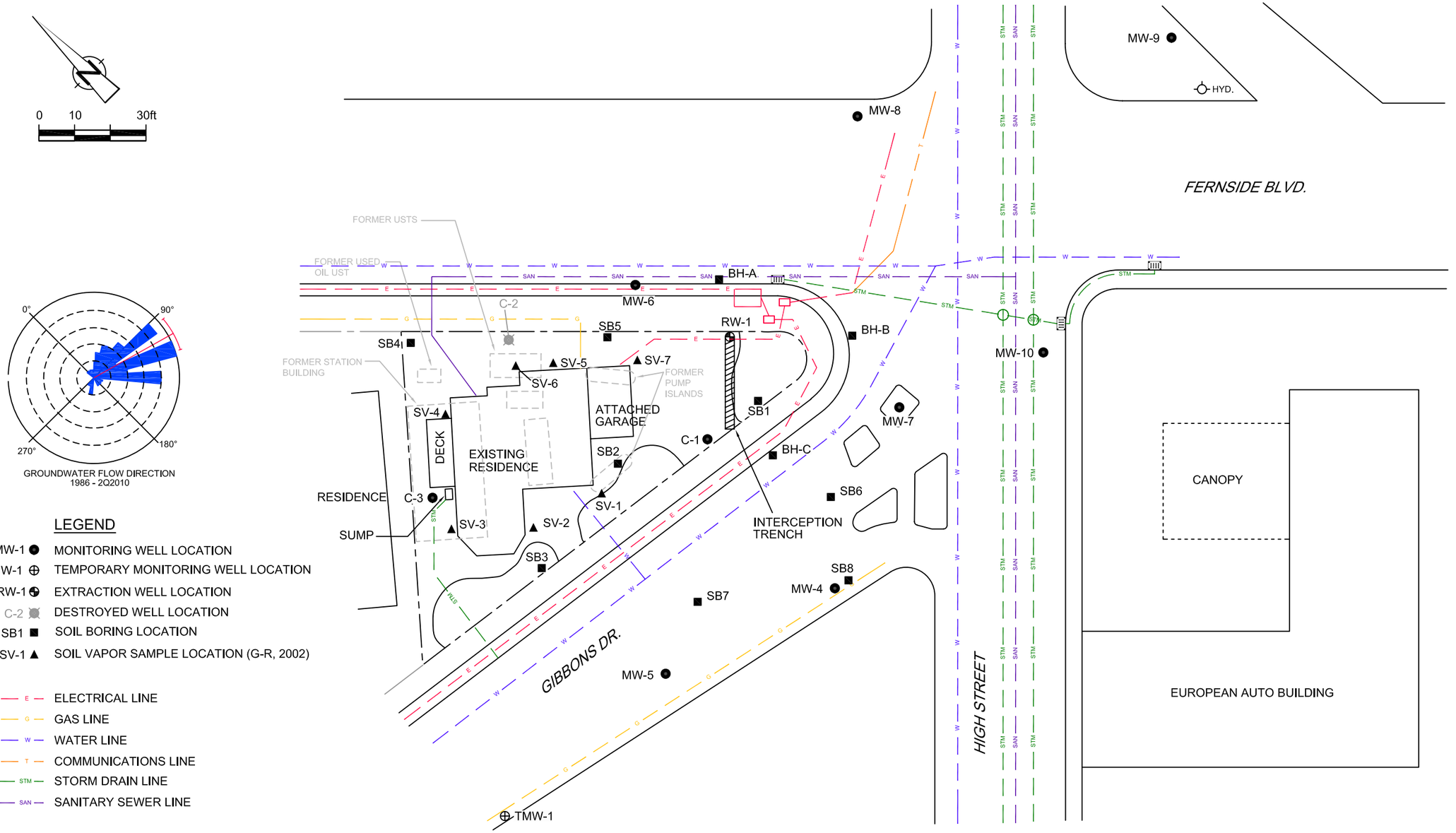

Figure 2

SITE PLAN with UTILITIES
FORMER CHEVRON SERVICE STATION 9-1153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD)
Alameda, California

311642-2010 GN-EM002 NOV 4/2010

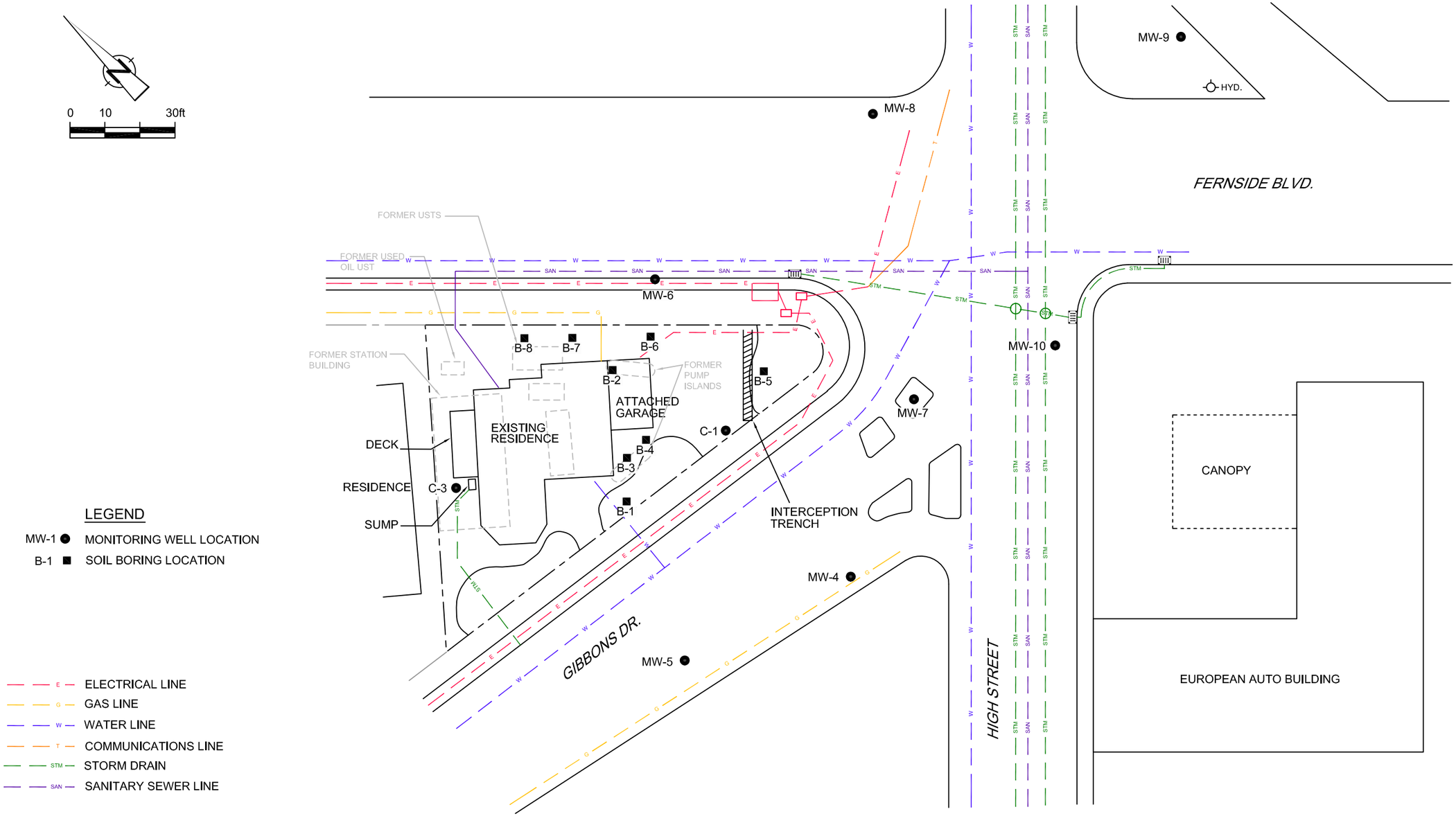

Figure 3

SOIL BORING LOCATIONS
FORMER CHEVRON SERVICE STATION 9-1153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD)
Alameda, California

311642-2011 GN-EM003 MARCH 16 2012

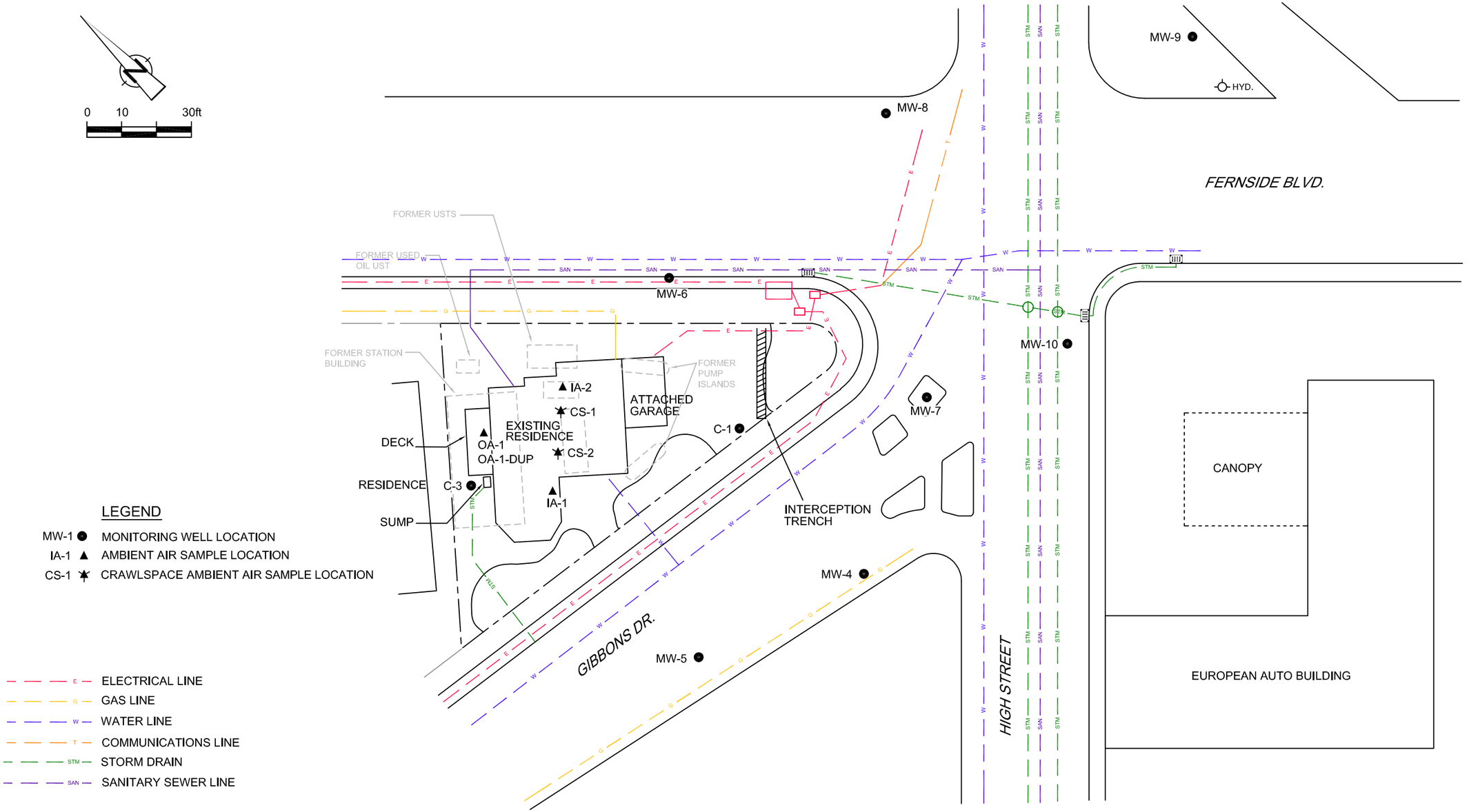

Figure 4

AMBIENT AIR SAMPLE LOCATIONS
FORMER CHEVRON SERVICE STATION 9-1153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD)
Alameda, California

311642-2011 GN-EM004 MARCH 16 2012

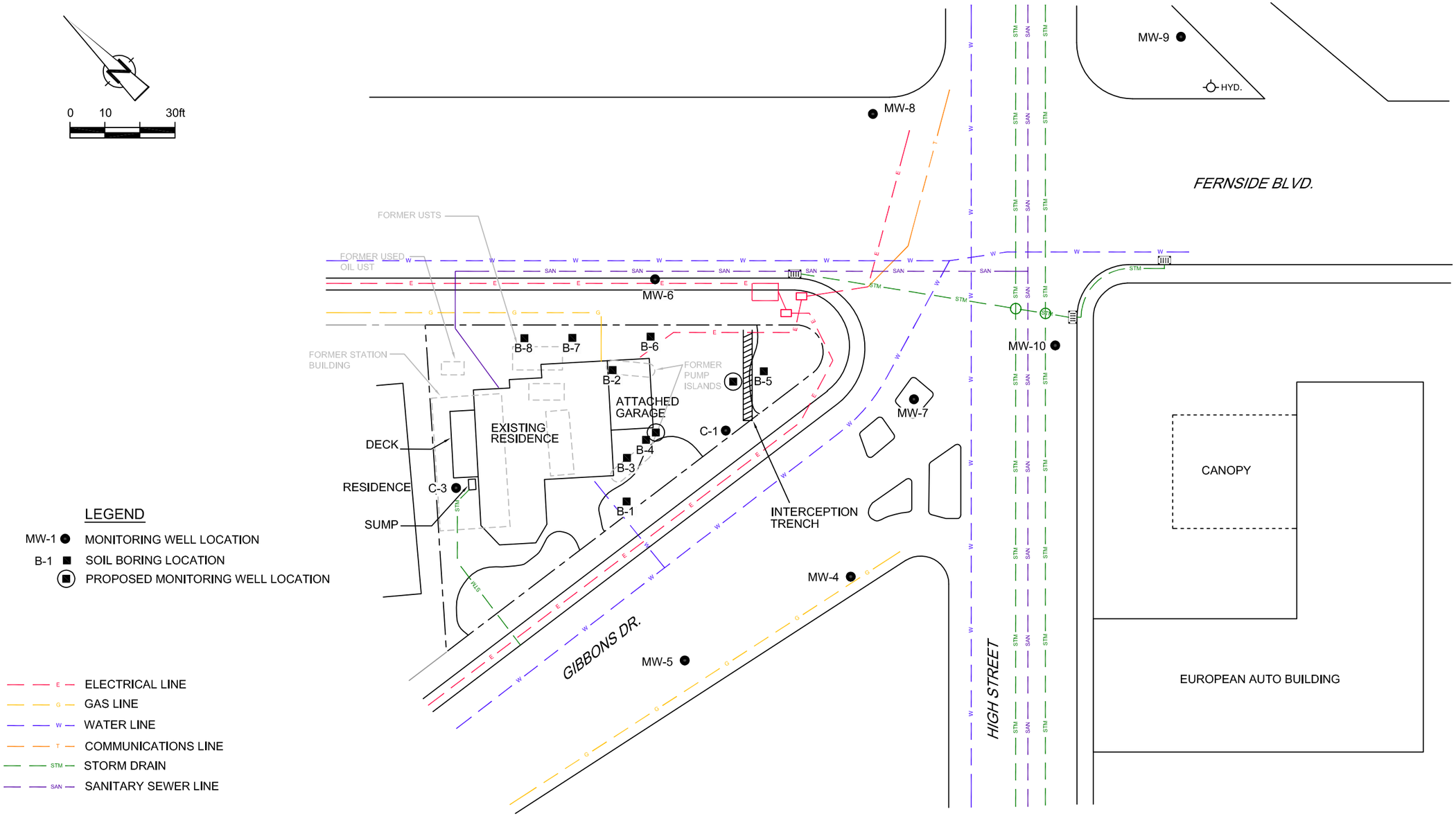

Figure 5

PROPOSED MONITORING WELL LOCATIONS
FORMER CHEVRON SERVICE STATION 9-1153
3135 GIBBONS DRIVE (3126 FERNSIDE BLVD)
Alameda, California

311642-2011 GN-EM005 APRIL 17 2012

TABLES

TABLE 1

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

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd w/ Silica*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*
			milligrams per kilogram (mg/kg)										
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		
Soil Samples													
B-1	1/18/2012	3	<10	6.2	<9.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.001	<0.001
	1/18/2012	5	31	**850**	**2,900**	**2.4**	1.1	**100**	**290**	<0.023	--	<0.046	<0.046
	1/18/2012	9.5	<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	5.7	<1.0	0.0006	<0.001	<0.001	<0.001	<0.0006	--	<0.001	<0.001
	1/18/2012	4.5	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	**440**	**3,200**	**31**	**350**	**110**	**630**	<0.25	--	<0.50	<0.50
	1/18/2012	4.5	<10	**110**	**1,700**	**25**	**240**	**72**	**370**	<0.05	--	<0.50	<0.50
	1/18/2012	7.5	<10	<4.0	**110**	**1.2**	2.6	1.4	**7.1**	<0.025	--	<0.051	<0.051
	1/18/2012	9.5	<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	59	**600**	**5.9**	**4.4**	**6.6**	**24**	<0.026	--	<0.053	<0.053
	1/18/2012	6	<10	**540**	**980**	**11**	0.15	1.1	0.81	<0.028	--	<0.055	<0.055
	1/18/2012	9.5	<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	**1300**	**5200**	**6.3**	**43**	**110**	**570**	<0.26	--	<0.52	<0.52
	1/18/2012	4.5	36	**1600**	**6000**	**1.4**	1.8	**180**	**240**	<0.47	--	<0.93	<0.93
	1/18/2012	6	<10	19	**160**	0.034	0.77	1.3	**4.1**	<0.024	--	<0.048	<0.048
	1/18/2012	9.5	<10	4.2	23	<0.026	0.024	0.28	1.1	<0.026	--	<0.051	<0.051
B-6	1/18/2012	3	37	**420**	**2100**	**3.1**	**64**	**59**	**350**	<0.10	--	<0.20	<0.20
	1/18/2012	4.5	<10	**110**	**1800**	**3.9**	**72**	**47**	**260**	<0.10	--	<0.20	<0.20
	1/18/2012	6	<10	<4.0	1.5	**0.21**	0.006	0.006	0.017	<0.0005	--	<0.001	<0.001
	1/18/2012	9.5	<10	<4.0	24	**0.1**	2.2	2	**12**	<0.027	--	<0.053	<0.053
B-7	1/18/2012	3.0	45	21	<1.0	<0.0005	<0.001	<0.001	0.001	<0.0005	--	<0.001	<0.001
	1/18/2012	6.0	67	28	<1.0	<0.0005	<0.001	<0.001	0.001	<0.0005	--	<0.001	<0.001

TABLE 1

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

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd w/ Silica*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*
						milligrams per kilogram (mg/kg)							
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		
B-8	1/18/2012	3.0	220	47	<10	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.001	<0.001
	1/18/2012	5.0	39	24	<1.0	<0.0005	<0.001	<0.001	0.001	<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		
	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		
	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		
	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		
	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		
	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		
	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		
	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		
	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		
	9/17/1997	1.5	--		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a		
S10	9/17/1997	Surface	--		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	a		

TABLE 1

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

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd w/ Silica*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*
						milligrams per kilogram (mg/kg)							
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		
	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		
	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		
	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		
	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		
	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		
	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	--	--		

TABLE 1

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

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd w/ Silica*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*
						milligrams per kilogram (mg/kg)							
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		
Soil Borings													
SB1	6/27/1989	1	--		--	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	--		--	**18**	**111**	**37**	**149**	--	--		
SB1	6/27/1989	6	--		--	**1**	2.200	0.540	1.930	--	--		
SB1	6/27/1989	9.5	--		--	**0.170**	0.460	0.140	0.530	--	--		
SB2	6/27/1989	1	--		--	0.009	0.024	0.010	0.026	--	--		
SB2 (Duplicate)	6/27/1989	1	--		--	--	--	--	--	--	--		
SB2	6/27/1989	4	--		--	**45**	**230**	**78**	**283**	--	--		
SB2	6/27/1989	6	--		--	**0.470**	**1.300**	0.310	1.120	--	--		
SB3	6/27/1989	0.5	--		--	<0.001	<0.001	<0.001	<0.001	--	--		
SB3	6/27/1989	3.5	--		--	**2.400**	3.200	**5.300**	**17.8**	--	--		
SB4	6/29/1989	1	--		--	<0.001	<0.001	<0.001	<0.001	--	--		
SB4 (Duplicate)	6/29/1989	1	--		--	--	--	--	--	--	--		
SB4	6/29/1989	4	--		--	<0.001	<0.001	<0.001	<0.001	--	--		
SB4	6/29/1989	7	--		--	<0.001	<0.001	<0.001	<0.001	--	--		
SB5	6/29/1989	0.5	--		--	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	--		--	**15**	**81**	**30**	**108**	--	--		
SB5 (Duplicate)	6/29/1989	4	--		--	--	--	--	--	--	--		
SB5	6/29/1989	6	--		--	**0.260**	1.900	1.400	**5.200**	--	--		
SB6	6/28/1989	3.5	--		--	0.026	0.100	0.160	0.370	--	--		

TABLE 1

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

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd w/ Silica*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Lead*	*EDB*	*1,2-DCA*
			milligrams per kilogram (mg/kg)										
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		
SB7	6/28/1989	4	--		--	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	--		--	<0.001	<0.001	<0.001	<0.001	--	--		
UST/Excavation Samples													
1	6/4/1986	11	--		<1	--	--	--	--	--	--		
2	6/4/1986	12	--		<1	--	--	--	--	--	--		
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
TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
BTEX = Benzene, toluene, ethylbenzene, xylene by EPA Method 8020/8260B
MTBE = methyl tertiary butyl ether by EPA 8260B
EDB = 1,2 Dibromoethane by EPA Method 8260B
1,2-DCA = 1,2 Dichoroethane by EPA 8260B

TABLE 1

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

Sample ID	Date	Depth (fbg)	TPHmo	TPHd w/ Silica	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Lead	EDB	1,2-DCA
			milligrams per kilogram (mg/kg)										
ESL (Table G), Soil Leaching to Drinking Water Resource			***NE***	***83.0***	***83***	***0.044***	***2.9***	***3.3***	***2.3***	***0.023***	NE		
ESL (Table K-3), Construction/Trench Worker Exposure			***12,000***	***4,200***	***4,200***	***12***	***650***	***210***	***420***	***2800***	750		

NE = Not Established
<x.xx = Not present above laboratory detection limit
a = results could not be located
Bold = Concentration exceeds applicable ESL

TABLE 2

AMBIENT AIR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*[1]	*MTBE*	*Napthalene*
		Reported in µg/m[3]						
ESL Table E-3 Ambient and Indoor Air Screening Levels, Lowest Residential		10	0.084	63	0.98	21	9.4	0.072
OA-1	1/26/2012	<72	**0.88**	2.5	0.49	1.6	<0.63	<4.6
OA-1-DUP	1/26/2012	<71	**0.86**	2.7	0.46	1.6	<0.62	<4.5
IA-1	1/26/2012	**410**	**5.1**	21	**3.4**	11	<0.68	<4.9
IA-2	1/26/2012	**1,100**	**20**	**85**	**13**	**40**	<0.59	<4.3
CS-1	1/26/2012	<66	**0.98**	2.6	0.51	1.6	<0.58	<4.2
CS-2	1/26/2012	**94**	**1.0**	3.0	0.59	1.9	<0.57	<4.1

Explanation:

All analyses performed by EPA Method TO-15 GC/MS Full Scan.
TPHg = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl tertiary Butyl Ether
-- = Not analyzed
<n = Not present above laboratory detection limit
µg/m^3 = micrograms per cubic metter
[1] = Only highest concentration of either xylene form (m,p-xylene or o-xylene) shown.

TABLE 3

APH FRACTIONS - AMBIENT AIR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*C5-C6 Aliphatic Hydrocarbons*	*>C6-C8 Aliphatic Hydrocarbons*	*>C8-C10 Aliphatic Hydrocarbons*	*>C10-C12 Aliphatic Hydrocarbons*	*>C8-C10 Aromatic Hydrocarbons*	*>C10-C12 Aromatic Hydrocarbons*
OA-1	1/26/2012	<57	<72	<100	<120	<86	<96
OA-1-DUP	1/26/2012	<56	<71	<100	<120	<85	<95
IA-1	1/26/2012	<61	<77	<110	<130	<92	<100
IA-2	1/26/2012	83	<67	<95	<110	<80	<89
CS-1	1/26/2012	<52	<66	<94	<110	<80	<89
CS-2	1/26/2012	<51	<64	<91	<110	<77	<86

Notes:

All Air Phase Hydrocarbon Fractions analyses by EPA Method TO-15 GC/MS Full Scan.

All rusults in $\mu g/m^3$ (Micrograms per cubic meter)

California Regional Water Quality Control Board, San Francisco Bay Region (SFBRWQCB), Interim Final November 2007, revised May 2008.

<x = Not detected above laboratory reporting limit

TABLE 4

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Napthalene*
			Reported in µg/m³						
ESL Table E-4 - Residential Shallow Soil Gas Screening Levels			***5,100***	***42***	***31,000***	***490***	***10,000***	***4,700***	***36***
ESL Table E-3 Ambient and Indoor Air Screening Levels, Lowest Residential			10	0.084	63	0.98	21	9.4	0.072
SV-1	10/15/02	--	--	**1,700**	8,500	**2,300**	**12,800**	--	--
SV-2	10/15/02	--	--	**1,700**	5,200	**3,000**	**10,800**	--	--
SV-3	10/15/02	--	--	<2.2	<2.7	<3.1	4.7	--	--
SV-4	10/15/02	--	--	3.2	7.1	<3.2	12.6	--	--
SV-5	10/15/02	--	--	**3,600**	260	**2,000**	860	--	--
SV-6	10/15/02	--	--	3.1	4.6	5.5	8.7	--	--
SV-7	10/15/02	--	--	<9.7	<11	<13	<13	--	--
					Reported in ppm				
V1	05/04/89	2.5	--	25	<1	<1	23	--	--
		4.5	--	<1	16	<1	1	--	--
V2	05/04/89	2.5	--	80	69	<1	17	--	--
		4.5	--	<1	<1	<1	<1	--	--
V3	05/04/89	2.5	--	<1	70	<1	1	--	--
		4.5	--	<1	<1	<1	<1	--	--
V4	05/04/89	2.5	--	<1	<1	<1	<1	--	--
		4.5	--	<1	<1	<1	<1	--	--
V5	05/04/89	2.5	--	250	2,400	450	2,400	--	--
		2.5	--	8	83	<1	51	--	--
V6	05/04/89	2	--	<1	<1	3	<1	--	--
		3	--	34	39	10	12	--	--

TABLE 4

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Napthalene*
			Reported in µg/m³						
ESL Table E-4 - Residential Shallow Soil Gas Screening Levels			***5,100***	***42***	***31,000***	***490***	***10,000***	***4,700***	***36***
V7	05/04/89	2.5	--	2,200	2,700	43	200	--	--
V8	05/04/89	2.5	--	1	<1	<1	<1	--	--
		4.5	--	1	<1	--	--	--	--
V9	05/04/89	3	--	<1	<1	<1	<1	--	--
V10	05/04/89	2.5	--	1	1	<1	<1	--	--
		4.5	--	1	1	<1	<1	--	--
V11	05/04/89	3	--	0.5	1	<1	<1	--	--
		4.5	--	2	5	<1	2	--	--
V12	05/04/89	2.5	--	<1	<1	<1	<1	--	--
		4.5	--	<1	<1	<1	<1	--	--
V13	05/04/89	3	--	<1	<1	<1	<1	--	--
		4.5	--	<1	1	<1	<1	--	--
V14	05/04/89	2.5	--	360	310	69	340	--	--
V15	05/04/89	2.5	--	8	7	<1	<1	--	--
V16	05/10/89	2.25	--	<1	<1	<1	<1	--	--
V17	05/10/89	2.5	--	2,300	2,500	150	670	--	--
V18	05/10/89	2.5	--	490	220	10	32	--	--
V19	05/10/89	25	--	<1	<1	<1	<1	--	--
		4.5	--	<1	<1	<1	<1	--	--
V20	05/10/89	2.5	--	<1	<1	<1	<1	--	--
		4	--	<1	<1	<1	<1	--	--
V21	05/10/89	2.5	--	<1	<1	<1	<1	--	--
		4	--	<1	<1	<1	<1	--	--
V22	05/10/89	2.5	--	7	3	<1	<1	--	--

TABLE 4

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Napthalene*
			Reported in µg/m³						
ESL Table E-4 - Residential Shallow Soil Gas Screening Levels			***5,100***	***42***	***31,000***	***490***	***10,000***	***4,700***	***36***
V23	05/10/89	2	--	<1	1	<1	<1	--	--
V24	05/10/89	2.5	--	<1	<1	<1	<1	--	--
		4	--	<1	<1	<1	<1	--	--
		4	--	140	500	48	340	--	--
		3.5	--	<1	<1	<1	<1	--	--
V25	05/10/89	2.5	--	<1	<1	<1	<1	--	--
V26	05/10/89	2	--	1	<1	<1	<1	--	--
V27	05/10/89	0	--	<1	<1	<1	<1	--	--
		2	--	<1	<1	<1	<1	--	--
		4	--	<1	15	<1	<1	--	--
V28	05/10/89	2	--	10	25	<1	42	--	--
		2.5	--	<1	1	<1	6	--	--
V29	05/10/89	2.5	--	5	49	<1	<1	--	--
V30	05/10/89	2	--	<1	<1	<1	<1	--	--
V31	05/10/89	2.5	--	<1	<1	<1	<1	--	--
V32	05/10/89	2.5	--	<1	<1	<1	<1	--	--
V1	07/21/87	3	--	110	30	--	--	--	--
V2	07/21/87	3	--	1,900	500	--	--	--	--
V3	07/21/87	3	--	120	50	--	--	--	--
V4	07/21/87	3	--	70	180	--	--	--	--
V5	07/21/87	3	--	<1	<1	--	--	--	--
V6	07/21/87	3	--	10	10	--	--	--	--
V7	07/21/87	3	--	<1	<1	--	--	--	--
V8	07/21/87	3	--	5	5	--	--	--	--

TABLE 4

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER CHEVRON STATION 91153
3135 GIBBONS DRIVE (3126 FERNSIDE BOULEVARD)
ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Napthalene*
			Reported in $\mu g/m^3$						
ESL Table E-4 - Residential Shallow Soil Gas Screening Levels			***5,100***	***42***	***31,000***	***490***	***10,000***	***4,700***	***36***
V9	07/21/87	3	--	<1	<1	--	--	--	--
V10	07/21/87	3	--	<1	<1	--	--	--	--
V11	07/21/87	3	--	<1	<1	--	--	--	--
V12	07/21/87	3	--	<1	<1	--	--	--	--

Explanation:

fbg = feet below grade
TPHg = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl tertiary Butyl Ether
1989 samples analyzed by method 24
-- = Not analyzed
<n = Not present above laboratory detection limit
$\mu g/L^3$ = micrograms per cubic liter
ppm = parts per million

APPENDIX A

WORK PLAN APPROVAL LETTER FROM ACWD

Lee, Nathan

From: Detterman, Mark, Env. Health [Mark.Detterman@acgov.org]
Sent: Monday, September 12, 2011 1:27 PM
To: Lee, Nathan; Patten, David R.
Subject: Modification and Approval of Modified Work Plan Addendum - Fernside / Gibbons (Chevron 9-1153 & RO 341)

Hi Nathan, Hi David,

I've had a moment to review the *Modified Work Plan Addendum*, dated September 9, 2011. While I don't think it was the intention, I wanted to amend / clarify the analytical suite requested / intended for the soil samples to be collected by the slide hammer. The samples should be analyzed for TPHmo, TPHd, EBD and EDC (as stated in the text) in ADDITION to TPHg and BTEX/MTEBE (as stated in the June 15, 2011 work plan). Please clarify this with your field crew.

Otherwise, the *Modified Work Plan Addendum* appears reasonable. Please perform the proposed work, and send the requested technical reports to ACEH as by the dates identified in the August 15, 2011 directive letter. Please additionally provide 72-hour advance written notification (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

Thanks,

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

APPENDIX B

SITE ENVIRONMENTAL HISTORY

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

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 indentified 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 well 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 and off the island. 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*.

APPENDIX C

DRILLING PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 01/23/2012 By jamesy

Permit Numbers: W2012-0079
Permits Valid from 02/09/2012 to 02/10/2012

Application Id: 1326831100382 **City of Project Site:** Oakland
Site Location: 451 Hegenberger Dr. Oakland
Project Start Date: 02/09/2012 **Completion Date:** 02/10/2012
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Conestoga Rovers and Associates - Sequoia Patterson
5900 Hollis Street, Suite A, Emeryville, CA 94608 **Phone:** 510-420-3305

Property Owner: LLC Sigmas
655 Montgomery Street #1190, San Francisco, CA 94111 **Phone:** --

Client: Environrmental Mangament Company Chevron
6101 Bollinger Canyon Road, San Ramon, CA 94583 **Phone:** 925-790-6491

Total Due: $265.00
Receipt Number: WR2012-0028 **Total Amount Paid:** $265.00
Payer Name : Conestoga Rovers and Associates Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 8 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
W2012-0079	01/23/2012	05/09/2012	8	2.00 in.	9.00 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 Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org 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. 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.

7. 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

BORING LOGS

Conestoga Rovers & Associates Inc.
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-1
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 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	
2.1		B-1@3			SP		**SAND with silt:** Dark brown; poorly graded, moist. @3.5 fbg: Color change to greyish brown. @4.5 fbg: Color change to greenish grey; wet. ▽		
307		B-2@5		5				5.5	Portland Type I/II
					SC		**Clayey SAND:** Green grey; wet.	8.0	
					SM		**Silty SAND:** Greenish grey; wet. @ 9 fbg: Increase in sand.		
27		B-1@9 .5		10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-2
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 fbg ▽
REVIEWED BY	N. Lee, PG# 8486	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Refusal at 7 ft due to boring caving in		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							FILL		
								2.0	
2.2		B-2 @ 3			SP		**SAND:** Medium brown; poorly graded, moist.		Portland Type I/II
							▽	4.5	
3.4		B-2 @ 4.5		5	SM		**Silty SAND:** Greenish grey; wet. @ 5.5 fbg: Color change to dark grey. @ 6 fbg: Increase in silty and clay.		
							@ 7 fbg: Increase in silt.	7.0	Bottom of Boring @ 7 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-3
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 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	1.0	
							FILL: Gravel, with asphalt and bricks.	2.0	
					CL		**CLAY:** Greenish grey; moist, high estimated plasticity.	3.0	
367		B-3 @ 3.5			SM		**Silty SAND:** Dark brownish grey; fine grain sand; moist. ▽		
846		B-3 @ 4.5		5					Portland Type I/II
					SC		**Clayey SAND:** Medium grey; wet.	5.5	
							Silty SAND: Medium grey; wet.	7.0	
605		B-3 @ 7.5			SM		@ 8 fbg: Increase in clay.		
178		B-3 @ 9.5		10			@ 9.5 fbg: Color change to dark brown; mottling.	10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-4
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 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: Brown; top soil with gravel fill.	0.5	
					SM		**Silty SAND:** Grey brown; medium grain sand; moist.	3.0	
366		B-4 @ 3			CL		**CLAY:** Greyish green; high estimated plasticity, moist.	3.5	
					SM		**Silty SAND:** Grey; wet. ▽	5.0	
				5					Portland Type I/II
686		B-4 @ 6			SC		**Clayey SAND:** Grey, mottled; wet.	7.0	
					SP		**SAND with silt:** Grey; mottled; poorly sorted, wet.	8.0	
					SM		**Silty SAND:** Grey; mottled, wet.		
462		B-4 @ 9.5		10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-5
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 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: Brown, cobbles and fill, dry.	2.0	
					ML		**SILT with sand:** Tan; dry.	3.0	
1164		B-5 @ 3					**SAND with silt:** Brown; poorly sorted; dry.		
552		B-5 @ 4.5		5	SP		@ 4.5: Color change to grey green; wet. ▽		Portland Type I/II
513		B-5 @ 6						7.0	
					ML		**Sandy SILT:** Grey; with trace clay; low estimated plasticity; wet. @8 fbg: Color change to brown; mottled.		
200		B-5 @ 9.5		10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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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-6
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	4.50 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: Tan; dry; with fill.	1.0	
							Silty SAND: Tan; dry.		
							@2 fbg: Color change to black; moist.		
304		B-6 @ 3							
							@4 fbg: Color change to greenish grey; wet. ▽		
573		B-6 @ 4.5		5			@5 fbg: Color change to grey.		Portland Type I/II
					SM				
120		B-6 @ 6					@7 fbg: Trace clay.		
54		B-6 @ 9.5		10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\CHEVRON\3116-\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-7
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	5.50 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
0		B-7 @ 3			SP		**SAND:** Brown; dry, poorly graded.	3.5	Portland Type I/II
0		B-7 @ 6		5	SW		**SAND with gravel:** Brown; fine grained sand, medium grained gravel; well graded; moist. @5.5 fbg: Color change to grey; wet. ▽ Abandoned due to subsurface obstruction.	6.5	Bottom of Boring @ 6.5 fbg

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

Conestoga Rovers & Associates Inc.
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-8
JOB/SITE NAME	9-1153	**DRILLING STARTED**	18-Jan-12
LOCATION	3135 Gibbons Drive, Alameda	**DRILLING COMPLETED**	18-Jan-12
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-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A. McDonell	**DEPTH TO WATER (First Encountered)**	5.00 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
					SP		**SAND:** Brown; dry; poorly graded.	1.5	
					SW		**SAND with gravel:** Brown; dry; roots.		
0		B-8 @ 3						4.0	Portland Type I/II
				5	SC		**Clayey SAND:** Grey; moist. ▽ @ 5 fbg: Color change to black, increase in silt.		
0		B-8 @ 5						7.5	Bottom of Boring @ 6.5 fbg
							Abandonded due to boring caving.		

WELL LOG (PID) I:\CHEVRON\3116--\311642 9-1153 ALAMEDA\311642-BORING LOGS\311642-SOIL BORINGS 2012.1.18.GPJ DEFAULT.GDT 4/9/12

APPENDIX E

BUILDING SURVEY FORM

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Sequoia Patterson Date/Time Prepared: 1-24-12 11:00
Affiliation: CRA Consultant Phone Number: 510-420-0700

Occupant Information

Occupant Name: Mark Hom Interviewed: ☑ Yes ☐ No
Mailing Address: 3135 Gibbons Drive
City: Alameda State: CA Zip Code: 94501
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☑)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☑ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☐ School

Building Characteristics

Approximate Building Age (years): 23 Number of Stories: 2
Approximate Building Area (square feet): 3500 Number of Elevators: —

Foundation Type (Check appropriate boxes)

☐ Slab-on-Grade ☑ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

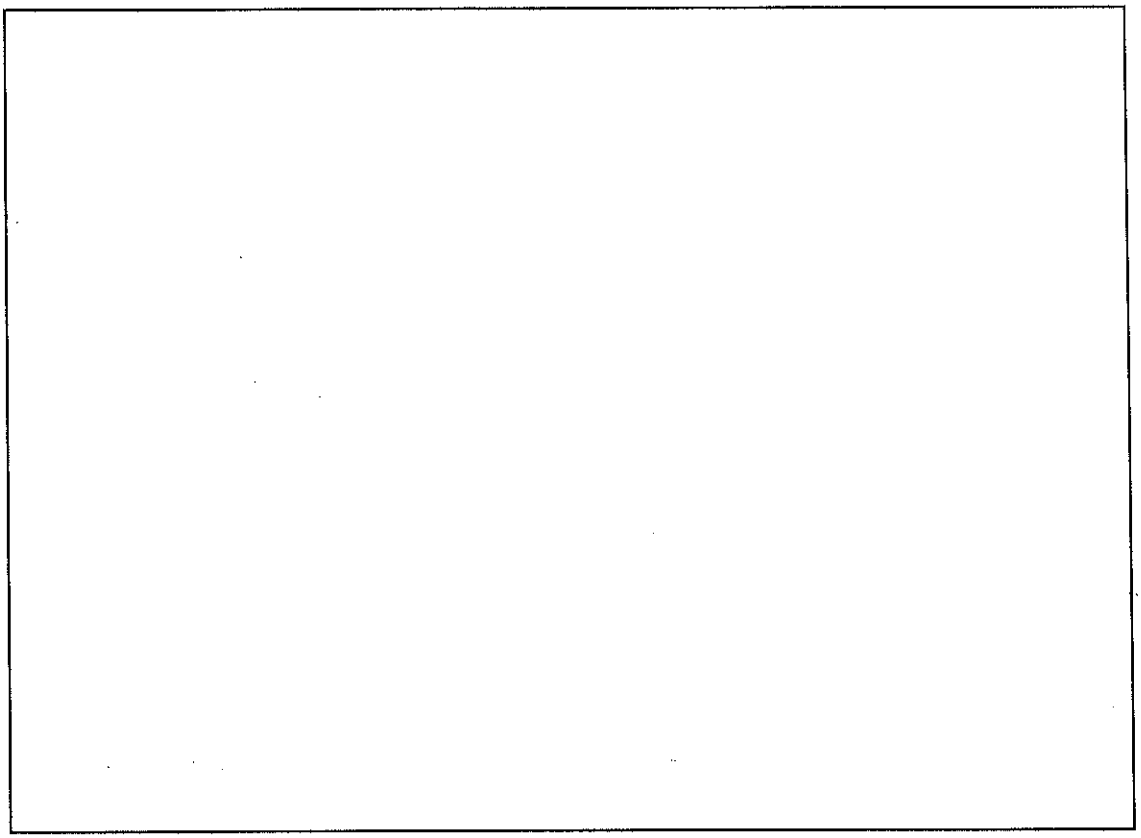
☑ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☑ Yes ☐ No		
Is there smoking in the building?	☐ Yes ☑ No		
Is there new carpet or furniture?	☐ Yes ☑ No	Describe:	_____
Have clothes or drapes been recently dry cleaned?	☐ Yes ☑ No	Describe:	_____
Has painting or staining been done with the last six months?	☐ Yes ☑ No	Describe:	_____
Has the building been recently remodeled?	☐ Yes ☑ No	Describe:	_____
Has the building ever had a fire?	☐ Yes ☑ No		
Is there a hobby or craft area in the building?	☑ Yes ☐ No	Describe:	Paper Mache Model paints
Is gun cleaner stored in the building?	☐ Yes ☑ No		
Is there a fuel oil tank on the property?	☐ Yes ☑ No		
Is there a septic tank on the property?	☐ Yes ☑ No		
Has the building been fumigated or sprayed for pests recently?	☐ Yes ☑ No	Describe:	_____
Do any building occupants use solvents at work?	☐ Yes ☑ No	Describe:	_____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☑ Natural Gas ☐ Fuel Oil ☐ Propane ☑ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.
Overcast 53°

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

Page 1 of 4

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building: Mark Hom

Address: 3135 Gibbons Drive

City: Alameda CA 94501

Field Investigator: Sequoia Patterson Date: 1-24-12

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0 ppm	Office First Floor	Acrylic Paint x7 new in Package
0.0 ppm	" "	Barbasol Shaving Cream
0.0 ppm	" "	Elmers Rubber Cement
0.0 ppm	" "	Water Based Clear Varnish
0.0 ppm	" "	Hod Podge Glue
0.0 ppm	" "	Water Based Poster Paint
0.0 ppm	" "	Elmers Glue All
0.0 ppm	" "	Polyurethane Varnish
0.0 ppm	" "	Latex Patch Wood
0.0 ppm	" "	Super Glue
0.0 ppm	" "	Ink for Fountain Pens
0.0 ppm	" "	WD-40
0.0 ppm	" "	Compressed air Duster
0.0 ppm	First Floor Laundry	Bona Hardwood Cleaner
0.0 ppm	" "	Lysol All in One
0.0 ppm	" "	Windex
0.0 ppm	" "	Clorox Cleanup With bleach

Comments: All containers Sealed, No Visible Signs of spills.

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Mark HoM

Address 3135 Gibbons Drive

City Alameda CA 94501

Field Investigator Sequoia Patterson Date 1-24-12

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0 ppm	First Floor Laundry	409 Cleaner
0.0 ppm	" "	swiffer dust and Shine
0.0 ppm	" "	Lysol disinfectant spray
0.0 ppm	" "	easy off Oven/ grill cleaner
0.0 ppm	" "	Bona Hardwood Refinisher
0.0 ppm	" "	Bleach
0.0 ppm	" "	Dawn Advanced
0.0 ppm	" "	OXY Clean
0.0 ppm	" "	spray and wash
0.0 ppm	" "	Bounce.
0.0 ppm	Upstairs Bathroom, off Baby room	Pure Green 24
0.0 ppm	" "	Seattle Organic Lavendar Soap
0.2 ppm	Upstairs Bathroom off Hall way	409
0.2 ppm		Lysol disinfectant spray
0.2 ppm		Pure Green disinfectant
0.2 ppm		Method Hand wash
0.2 ppm		Hand sanitizer fresh scent

Comments: Upstairs Bathroom Chemicals located in one storage closet, un able to determine exact cause of 0.2 ppm readins

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building: Mark Hom

Address: 3135 Gibbons Drive

City: Alameda CA 94501

Field Investigator: Sequoia Patterson Date: 1-24-12

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.2 ppm	Upstairs bathroom off Hallway	Cottonell fresh wipes
0.2 ppm	" "	preparation H Medicated pads
0.2 ppm	" "	Tucks medicated pads
0.2 ppm	" "	simple Green
0.2 ppm	" "	Orange Guard
0.0 ppm	" "	Marble cleaner
PID broken	" "	Bright green cleaner
"	" "	Scotchguard carpet
"	" "	Scotch guard protector
0.0	" "	Scrubbing bubbles
0.0	" "	comet
0.0	" "	Kaboom
0.0	" "	swiffer
PID Broken	Upstairs Master Bathroom	Hydrogen peroxide
"	" "	Johnson no tangles
"	" "	Body Eclipse deodorant
"	" "	

Comments: PID Broke during Screening in Upstairs Bathroom

Page 4 of 4

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Mark Hom

Address 3135 Gibbons drive

City Alameda CA 94501

Field Investigator Sequoia Patterson Date 1-24-12

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
no PID	Garage	Elmers Wood glue
"	"	Garage door Grease
"	"	Titebond Glue
"	"	Burse All purpose Glue
"	"	plastic Wood cellulose fiber filler
"	"	Super glue gel
"	"	Devcon Vinyl Mender

Comments:

APPENDIX F

SOIL LABORATORY ANALYYTICAL REPORT

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

February 02, 2012

Project: 91153

Submittal Date: 01/20/2012
Group Number: 1285899
PO Number: 0015074399
Release Number: PATTEN
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
B-1-S-3-120118 Grab Soil	6527543
B-1-S-5-120118 Grab Soil	6527544
B-1-S-9.5-120118 Grab Soil	6527545
B-2-S-3-120118 Grab Soil	6527546
B-2-S-4.5-120118 Grab Soil	6527547
B-3-S-3-120118 Grab Soil	6527548
B-3-S-4.5-120118 Grab Soil	6527549
B-3-S-7.5-120118 Grab Soil	6527550
B-3-S-9.5-120118 Grab Soil	6527551
B-4-S-3-120118 Grab Soil	6527552
B-4-S-6-120118 Grab Soil	6527553
B-4-S-9.5-120118 Grab Soil	6527554
B-5-S-3-120118 Grab Soil	6527555
B-5-S-4.5-120118 Grab Soil	6527556
B-5-S-6-120118 Grab Soil	6527557
B-5-S-9.5-120118 Grab Soil	6527558
B-6-S-3-120118 Grab Soil	6527559
B-6-S-4.5-120118 Grab Soil	6527560
B-6-S-6-120118 Grab Soil	6527561
B-6-S-9.5-120118 Grab Soil	6527562
B-7-S-3-120118 Grab Soil	6527563
B-7-S-6-120118 Grab Soil	6527564
B-8-S-3-120118 Grab Soil	6527565
B-8-S-5-120118 Grab Soil	6527566

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

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

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

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Analysis Report

Sample Description: **B-1-S-3-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527543
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 09:36 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA13

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.97
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	0.97
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	0.97
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.97
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.97
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.97
10950	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.	9.3	9.3	232.77
	Reporting limits were raised due to sample foaming.					
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	6.2	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	A120231AA	01/24/2012 02:32	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:05	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: B-1-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527543
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 09:36 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12020A34B	01/23/2012 19:25	Laura M Krieger	232.77
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:07	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 12:23	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 19:55	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-1-S-5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527544
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 09:45 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA15

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**	
10950	Benzene	71-43-2	2.4	0.023	0.23	46.13
10950	1,2-Dibromoethane	106-93-4	N.D.	0.046	0.23	46.13
10950	1,2-Dichloroethane	107-06-2	N.D.	0.046	0.23	46.13
10950	Ethylbenzene	100-41-4	100	4.6	23	4612.55
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	0.23	46.13
10950	Toluene	108-88-3	1.1	0.046	0.23	46.13
10950	Xylene (Total)	1330-20-7	290	4.6	23	4612.55
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2,900	840	840	20964.36
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	850	20	60	5
	Due to the dilution of the sample extract, capric acid recovery could not be determined.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	31	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	31	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, was present at <1%.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 14:21	Lauren C Temple	46.13
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120301AA	01/30/2012 13:02	Lauren C Temple	4612.55
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:15	Scott W Freisher	n.a.

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

Sample Description: B-1-S-5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527544
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 09:45 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12020A34B	01/24/2012 06:16	Laura M Krieger	20964.36
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:16	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/30/2012 22:33	Glorines Suarez-Rivera	5
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 21:06	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-1-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527545
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA19

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**	
10950	Benzene	71-43-2	0.027	0.025	0.25	50
10950	1,2-Dibromoethane	106-93-4	N.D.	0.050	0.25	50
10950	1,2-Dichloroethane	107-06-2	N.D.	0.050	0.25	50
10950	Ethylbenzene	100-41-4	0.11	0.050	0.25	50
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.025	0.25	50
10950	Toluene	108-88-3	N.D.	0.050	0.25	50
10950	Xylene (Total)	1330-20-7	0.27	0.050	0.25	50
	Reporting limits were raised due to interference from the sample matrix.					
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	8.2	4.0	4.0	99.01
GC Petroleum Hydrocarbons	**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, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120241AA	01/24/2012 17:34	Lauren C Temple	50
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:21	Scott W Freisher	n.a.

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

Sample Description: B-1-S-9.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-1

LLI Sample # SW 6527545
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12020A34B	01/23/2012 21:13	Laura M Krieger	99.01
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:21	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 13:13	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 21:30	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-2-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-2

LLI Sample # SW 6527546
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA23

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**	
10950	Benzene	71-43-2	0.0006	0.0006	0.006	1.1
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.006	1.1
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	1.1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.006	1.1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	1.1
10950	Toluene	108-88-3	N.D.	0.001	0.006	1.1
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.006	1.1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	1	23.76
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	5.7	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120311AA	01/31/2012 22:14	Andrea E Lando	1.1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:24	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12020A34B	01/23/2012 18:09	Laura M Krieger	23.76

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

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Analysis Report

Sample Description: B-2-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-2

LLI Sample # SW 6527546
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA23

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:26	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 18:32	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 21:54	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: B-2-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-2

LLI Sample # SW 6527547
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:37 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA24

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	0.98
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	0.98
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	0.98
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.98
10950	Toluene	108-88-3	N.D.	0.001	0.005	0.98
10950	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.	2.2	1	1	24.2
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	41	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	110	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	110	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	A120231AA	01/24/2012 04:03	Andrea E Lando	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:29	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/24/2012 19:44	Laura M Krieger	24.2

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

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Analysis Report

Sample Description: B-2-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-2

LLI Sample # SW 6527547
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 10:37 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA24

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:32	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/29/2012 01:10	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 04:40	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-3-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527548
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:27 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA33

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**	
10950	Benzene	71-43-2	31	0.25	2.5	501
10950	1,2-Dibromoethane	106-93-4	N.D.	0.50	2.5	501
10950	1,2-Dichloroethane	107-06-2	N.D.	0.50	2.5	501
10950	Ethylbenzene	100-41-4	110	0.50	2.5	501
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.25	2.5	501
10950	Toluene	108-88-3	350	5.0	25	5010.02
10950	Xylene (Total)	1330-20-7	630	5.0	25	5010.02
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	3,200	740	740	18501.39
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	440	20	60	5
	Due to the dilution of the sample extract, capric acid recovery could not be determined.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	16	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	16	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, was present at <1%.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120241AA	01/24/2012 17:57	Lauren C Temple	501
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120241AA	01/24/2012 18:20	Lauren C Temple	5010.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:23	Scott W Freisher	n.a.

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

Sample Description: B-3-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527548
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:27 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA33

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:36	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 02:21	Laura M Krieger	18501.39
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:37	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/30/2012 22:57	Glorines Suarez-Rivera	5
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 22:18	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-3-S-4.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527549
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:40 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA34

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**	
10950	Benzene	71-43-2	25	0.25	2.5	501
10950	1,2-Dibromoethane	106-93-4	N.D.	0.50	2.5	501
10950	1,2-Dichloroethane	107-06-2	N.D.	0.50	2.5	501
10950	Ethylbenzene	100-41-4	72	0.50	2.5	501
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.25	2.5	501
10950	Toluene	108-88-3	240	5.0	25	5010.02
10950	Xylene (Total)	1330-20-7	370	0.50	2.5	501
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1,700	410	410	10152.28
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	110	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120241AA	01/24/2012 18:42	Lauren C Temple	501
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120241AA	01/24/2012 19:05	Lauren C Temple	5010.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:41	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: B-3-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527549
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:40 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA34

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 02:56	Laura M Krieger	10152.28
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:40	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 19:22	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 22:42	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-3-S-7.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527550
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA37

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**	
10950	Benzene	71-43-2	1.2	0.025	0.25	50.71
10950	1,2-Dibromoethane	106-93-4	N.D.	0.051	0.25	50.71
10950	1,2-Dichloroethane	107-06-2	N.D.	0.051	0.25	50.71
10950	Ethylbenzene	100-41-4	1.4	0.051	0.25	50.71
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.025	0.25	50.71
10950	Toluene	108-88-3	2.6	0.051	0.25	50.71
10950	Xylene (Total)	1330-20-7	7.1	0.051	0.25	50.71
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	110	83	83	2081.17
GC Petroleum Hydrocarbons	**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, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 14:44	Lauren C Temple	50.71
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:45	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 03:33	Laura M Krieger	2081.17

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Analysis Report

Sample Description: B-3-S-7.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527550
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA37

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:46	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 19:47	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 23:06	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-3-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527551
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:53 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA39

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**	
10950	Benzene	71-43-2	0.29	0.024	0.24	47.71
10950	1,2-Dibromoethane	106-93-4	N.D.	0.048	0.24	47.71
10950	1,2-Dichloroethane	107-06-2	N.D.	0.048	0.24	47.71
10950	Ethylbenzene	100-41-4	0.86	0.048	0.24	47.71
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	47.71
10950	Toluene	108-88-3	2.2	0.048	0.24	47.71
10950	Xylene (Total)	1330-20-7	4.7	0.048	0.24	47.71
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	24	8.1	8.1	203.25
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	4.4	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 04:51	Andrea E Lando	47.71
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:50	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 01:08	Laura M Krieger	203.25

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Analysis Report

Sample Description: B-3-S-9.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-3

LLI Sample # SW 6527551
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 11:53 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA39

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:51	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 20:12	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	01/31/2012 23:53	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-4-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527552
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 12:55 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA43

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**	
10950	Benzene	71-43-2	5.9	0.026	0.26	52.85
10950	1,2-Dibromoethane	106-93-4	N.D.	0.053	0.26	52.85
10950	1,2-Dichloroethane	107-06-2	N.D.	0.053	0.26	52.85
10950	Ethylbenzene	100-41-4	6.6	0.053	0.26	52.85
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.026	0.26	52.85
10950	Toluene	108-88-3	4.4	0.053	0.26	52.85
10950	Xylene (Total)	1330-20-7	24	0.053	0.26	52.85
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	600	400	400	10101.01
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	59	4.0	12	1
	The reverse surrogate, capric acid, was present at 1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at 1.6%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 16:17	Lauren C Temple	52.85
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:55	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 04:09	Laura M Krieger	10101.01

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

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Analysis Report

Sample Description: B-4-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527552
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 12:55 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA43

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 00:56	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 20:37	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 00:17	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: **B-4-S-6-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527553
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA46

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**	
10950	Benzene	71-43-2	11	0.028	0.28	55.31
10950	1,2-Dibromoethane	106-93-4	N.D.	0.055	0.28	55.31
10950	1,2-Dichloroethane	107-06-2	N.D.	0.055	0.28	55.31
10950	Ethylbenzene	100-41-4	1.1	0.055	0.28	55.31
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.028	0.28	55.31
10950	Toluene	108-88-3	0.15	0.055	0.28	55.31
10950	Xylene (Total)	1330-20-7	0.81	0.055	0.28	55.31
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	980	95	95	2367.42
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	540	8.0	24	2
	Due to the dilution of the sample extract, capric acid recovery could not be determined.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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.
Due to the matrix of the sample extract, capric acid recovery could not be determined.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 17:25	Lauren C Temple	55.31
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: B-4-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527553
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA46

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:00	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 04:45	Laura M Krieger	2367.42
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:01	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/30/2012 20:53	Glorines Suarez-Rivera	2
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 00:41	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-4-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527554
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:15 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA49

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**	
10950	Benzene	71-43-2	0.074	0.026	0.26	51.33
10950	1,2-Dibromoethane	106-93-4	N.D.	0.051	0.26	51.33
10950	1,2-Dichloroethane	107-06-2	N.D.	0.051	0.26	51.33
10950	Ethylbenzene	100-41-4	0.20	0.051	0.26	51.33
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.026	0.26	51.33
10950	Toluene	108-88-3	0.13	0.051	0.26	51.33
10950	Xylene (Total)	1330-20-7	0.81	0.051	0.26	51.33
	Reporting limits were raised due to interference from the sample matrix.					
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	7.4	1.1	1.1	26.29
GC Petroleum Hydrocarbons	**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, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 15:29	Lauren C Temple	51.33
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:07	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: **B-4-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-4

LLI Sample # SW 6527554
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:15 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA49

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/24/2012 20:20	Laura M Krieger	26.29
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:06	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 21:26	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 01:05	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-5-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527555
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA53

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**	
10950	Benzene	71-43-2	6.3	0.26	2.6	518.67
10950	1,2-Dibromoethane	106-93-4	N.D.	0.52	2.6	518.67
10950	1,2-Dichloroethane	107-06-2	N.D.	0.52	2.6	518.67
10950	Ethylbenzene	100-41-4	110	0.52	2.6	518.67
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.26	2.6	518.67
10950	Toluene	108-88-3	43	0.52	2.6	518.67
10950	Xylene (Total)	1330-20-7	570	5.2	26	5186.72
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	5,200	790	790	19762.85
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	1,300	40	120	10
	Due to the dilution of the sample extract, capric acid recovery could not be determined.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	51	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	51	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. Due to the matrix of the sample extract, capric acid recovery could not be determined.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 18:34	Lauren C Temple	518.67
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 18:56	Lauren C Temple	5186.72
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: B-5-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527555
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 13:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA53

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:10	Scott W Freisher	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 05:21	Laura M Krieger	19762.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:11	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/30/2012 23:22	Glorines Suarez-Rivera	10
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 01:29	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: **B-5-S-4.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527556
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:00 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA54

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**	
10950	Benzene	71-43-2	1.4	0.47	4.7	932.84
10950	1,2-Dibromoethane	106-93-4	N.D.	0.93	4.7	932.84
10950	1,2-Dichloroethane	107-06-2	N.D.	0.93	4.7	932.84
10950	Ethylbenzene	100-41-4	180	0.93	4.7	932.84
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.47	4.7	932.84
10950	Toluene	108-88-3	1.8	0.93	4.7	932.84
10950	Xylene (Total)	1330-20-7	240	0.93	4.7	932.84
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	6,000	750	750	18726.59
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	1,600	80	240	20
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	36	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	36	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, was present at <1%.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120261AA	01/26/2012 19:18	Lauren C Temple	932.84
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202126629	01/21/2012 01:24	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:17	Scott W Freisher	n.a.

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

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Analysis Report

Sample Description: B-5-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527556
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:00 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA54

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12024A34A	01/25/2012 05:57	Laura M Krieger	18726.59
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202126629	01/21/2012 01:16	Scott W Freisher	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	02/02/2012 05:03	Tracy A Cole	20
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 01:53	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-5-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527557
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:05 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA56

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**	
10950	Benzene	71-43-2	0.034	0.024	0.24	48.17
10950	1,2-Dibromoethane	106-93-4	N.D.	0.048	0.24	48.17
10950	1,2-Dichloroethane	107-06-2	N.D.	0.048	0.24	48.17
10950	Ethylbenzene	100-41-4	1.3	0.048	0.24	48.17
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	0.24	48.17
10950	Toluene	108-88-3	0.77	0.048	0.24	48.17
10950	Xylene (Total)	1330-20-7	4.1	0.048	0.24	48.17
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	160	40	40	990.1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	19	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 04:06	Andrea E Lando	48.17
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 09:32	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/26/2012 16:00	Laura M Krieger	990.1

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

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Analysis Report

Sample Description: B-5-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527557
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:05 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA56

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 09:32	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 22:41	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 02:17	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: **B-5-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527558
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:20 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA59

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**	
10950	Benzene	71-43-2	N.D.	0.026	0.26	51.23
10950	1,2-Dibromoethane	106-93-4	N.D.	0.051	0.26	51.23
10950	1,2-Dichloroethane	107-06-2	N.D.	0.051	0.26	51.23
10950	Ethylbenzene	100-41-4	0.28	0.051	0.26	51.23
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.026	0.26	51.23
10950	Toluene	108-88-3	0.24	0.051	0.26	51.23
10950	Xylene (Total)	1330-20-7	1.1	0.051	0.26	51.23
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	23	8.2	8.2	204.92
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	4.2	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	R120313AA	02/01/2012 08:17	Stephanie A Selis	51.23
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.

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

Sample Description: B-5-S-9.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-5

LLI Sample # SW 6527558
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:20 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA59

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	5	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	6	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 09:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 09:39	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201202426639	01/24/2012 09:39	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/26/2012 02:48	Laura M Krieger	204.92
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 09:40	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 09:42	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	3	201202426639	01/24/2012 09:41	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	4	201202426639	01/24/2012 09:42	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	5	201202426639	01/24/2012 09:43	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 23:06	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 02:41	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-6-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527559
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA63

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**	
10950	Benzene	71-43-2	3.1	0.10	1.0	199.2
10950	1,2-Dibromoethane	106-93-4	N.D.	0.20	1.0	199.2
10950	1,2-Dichloroethane	107-06-2	N.D.	0.20	1.0	199.2
10950	Ethylbenzene	100-41-4	59	0.20	1.0	199.2
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.10	1.0	199.2
10950	Toluene	108-88-3	64	2.0	10	1992.03
10950	Xylene (Total)	1330-20-7	350	2.0	10	1992.03
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2,100	770	770	19249.28
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	420	20	60	5
	Due to the dilution of the sample extract, capric acid recovery could not be determined.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	37	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	37	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, was present at <1%.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 05:14	Andrea E Lando	199.2
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 05:37	Andrea E Lando	1992.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.

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Analysis Report

Sample Description: B-6-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527559
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA63

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:05	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/26/2012 04:36	Laura M Krieger	19249.28
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:06	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/31/2012 00:12	Glorines Suarez-Rivera	5
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 03:05	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-6-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527560
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:45 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA64

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**	
10950	Benzene	71-43-2	3.9	0.10	1.0	203.25
10950	1,2-Dibromoethane	106-93-4	N.D.	0.20	1.0	203.25
10950	1,2-Dichloroethane	107-06-2	N.D.	0.20	1.0	203.25
10950	Ethylbenzene	100-41-4	47	0.20	1.0	203.25
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.10	1.0	203.25
10950	Toluene	108-88-3	72	2.0	10	2032.52
10950	Xylene (Total)	1330-20-7	260	2.0	10	2032.52
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1,800	810	810	20283.98
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	110	4.0	12	1
	The reverse surrogate, capric acid, was present at 1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	10	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	10	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, was present at <1%.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 06:45	Andrea E Lando	203.25
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 07:08	Andrea E Lando	2032.52
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:09	Larry E Bevins	n.a.

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Analysis Report

Sample Description: B-6-S-4.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527560
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:45 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
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GDA64

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/26/2012 05:13	Laura M Krieger	20283.98
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:09	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/28/2012 23:55	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 03:29	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-6-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527561
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA66

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**	
10950	Benzene	71-43-2	0.21	0.0005	0.005	1.04
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	1.04
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	1.04
10950	Ethylbenzene	100-41-4	0.006	0.001	0.005	1.04
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.04
10950	Toluene	108-88-3	0.006	0.001	0.005	1.04
10950	Xylene (Total)	1330-20-7	0.017	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.	1.5	1.0	1.0	25.23
GC Petroleum Hydrocarbons	**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, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120251AA	01/25/2012 19:01	Chelsea B Eastep	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:12	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/25/2012 19:00	Laura M Krieger	25.23

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Analysis Report

Sample Description: B-6-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527561
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 14:50 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA66

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:13	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/29/2012 00:20	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 03:53	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: B-6-S-9.5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527562
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:00 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA69

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**	
10950	Benzene	71-43-2	0.10	0.027	0.27	53.19
10950	1,2-Dibromoethane	106-93-4	N.D.	0.053	0.27	53.19
10950	1,2-Dichloroethane	107-06-2	N.D.	0.053	0.27	53.19
10950	Ethylbenzene	100-41-4	2.0	0.053	0.27	53.19
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	0.27	53.19
10950	Toluene	108-88-3	2.2	0.053	0.27	53.19
10950	Xylene (Total)	1330-20-7	12	0.053	0.27	53.19
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
01725	TPH-GRO N. CA soil C6-C12	n.a.	24	20	20	503.52
GC Petroleum Hydrocarbons	**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, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	N.D.	10	30	1
02516	TPH Motor Oil C16-C36	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, was present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	Q120263AA	01/27/2012 07:30	Andrea E Lando	53.19
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:33	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:16	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/26/2012 03:24	Laura M Krieger	503.52

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

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Analysis Report

Sample Description: **B-6-S-9.5-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-6

LLI Sample # SW 6527562
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:00 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA69

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:16	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240004A	01/29/2012 00:45	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240006A	02/01/2012 04:17	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240004A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240006A	01/24/2012 14:00	David S Schrum	1

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Analysis Report

Sample Description: B-7-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-7

LLI Sample # SW 6527563
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA73

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	1
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.001	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.	1.0	1.0	25.23
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	21	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	45	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	45	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.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120251AA	01/25/2012 16:25	Chelsea B Eastep	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:19	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/25/2012 19:36	Laura M Krieger	25.23

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

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Analysis Report

Sample Description: B-7-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-7

LLI Sample # SW 6527563
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:10 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA73

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:20	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240005A	01/29/2012 09:02	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240007A	01/26/2012 20:02	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240005A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240007A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: **B-7-S-6-120118 Grab Soil**
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-7

LLI Sample # SW 6527564
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA76

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.02
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	1.02
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	1.02
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.02
10950	Xylene (Total)	1330-20-7	0.001	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.	1.0	1.0	25.77
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	28	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	67	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	67	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.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120251AA	01/25/2012 16:47	Chelsea B Eastep	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:23	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/25/2012 20:12	Laura M Krieger	25.77

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

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Analysis Report

Sample Description: B-7-S-6-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-7

LLI Sample # SW 6527564
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 15:30 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA76

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:23	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240005A	01/29/2012 09:51	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240007A	01/26/2012 21:14	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240005A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240007A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: B-8-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-8

LLI Sample # SW 6527565
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 16:20 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA83

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1.02
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	1.02
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	1.02
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.02
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1.02
10950	Toluene	108-88-3	N.D.	0.001	0.005	1.02
10950	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.	10	10	251
	Reporting limits were raised due to sample foaming.					
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	47	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	220	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	220	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.

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120251AA	01/25/2012 17:10	Chelsea B Eastep	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:26	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/25/2012 20:48	Laura M Krieger	251

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

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Analysis Report

Sample Description: B-8-S-3-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-8

LLI Sample # SW 6527565
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 16:20 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA83

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:26	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240005A	01/29/2012 10:16	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240007A	01/26/2012 21:38	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240005A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240007A	01/24/2012 14:00	David S Schrum	1

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

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Analysis Report

Sample Description: B-8-S-5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-8

LLI Sample # SW 6527566
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 16:25 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA85

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**	
10950	Benzene	71-43-2	N.D.	0.0005	0.005	1
10950	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.005	1
10950	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.005	1
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	1
10950	Toluene	108-88-3	N.D.	0.001	0.005	1
10950	Xylene (Total)	1330-20-7	0.001	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.	1	1	24.44
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
02222	TPH-DRO soil C10-C28 w/Si Gel	n.a.	24	4.0	12	1
	The reverse surrogate, capric acid, was present at <1%.					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
02516	Total TPH	n.a.	39	10	30	1
02516	TPH Motor Oil C16-C36	n.a.	39	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.					

General Sample Comments

State of California Lab Certification No. 2501

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
10950	VOCs by 8260B - Solid	SW-846 8260B	1	B120251AA	01/25/2012 17:32	Chelsea B Eastep	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201202426639	01/24/2012 10:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:29	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	12025A34A	01/25/2012 21:24	Laura M Krieger	24.44

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

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Analysis Report

Sample Description: B-8-S-5-120118 Grab Soil
Facility# 91153 CRAW
3135 Gibbons Dr-Alameda T0600100330 B-8

LLI Sample # SW 6527566
LLI Group # 1285899
Account # 10880

Project Name: 91153

Collected: 01/18/2012 16:25 by SP

Submitted: 01/20/2012 15:05
Reported: 02/02/2012 13:41

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

GDA85

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201202426639	01/24/2012 10:30	Larry E Bevins	n.a.
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	120240005A	01/29/2012 08:12	Glorines Suarez-Rivera	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	120240007A	01/26/2012 19:39	Heather E Williams	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	120240005A	01/24/2012 14:00	David S Schrum	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	120240007A	01/24/2012 14:00	David S Schrum	1

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

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: A120231AA	Sample number(s): 6527543,6527547								
Benzene	N.D.	0.0005	0.005	mg/kg	100	97	80-120	3	30
1,2-Dibromoethane	N.D.	0.001	0.005	mg/kg	105	104	80-120	1	30
1,2-Dichloroethane	N.D.	0.001	0.005	mg/kg	124	120	71-129	4	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	102	100	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	110	109	74-121	1	30
Toluene	N.D.	0.001	0.005	mg/kg	100	98	80-120	1	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	99	97	80-120	2	30
Batch number: B120251AA	Sample number(s): 6527561,6527563-6527566								
Benzene	N.D.	0.0005	0.005	mg/kg	99	96	80-120	3	30
1,2-Dibromoethane	N.D.	0.001	0.005	mg/kg	96	94	80-120	2	30
1,2-Dichloroethane	N.D.	0.001	0.005	mg/kg	120	119	71-129	1	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	95	92	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	101	100	74-121	1	30
Toluene	N.D.	0.001	0.005	mg/kg	93	91	80-120	2	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	95	92	80-120	3	30
Batch number: B120311AA	Sample number(s): 6527546								
Benzene	N.D.	0.0005	0.005	mg/kg	92	90	80-120	2	30
1,2-Dibromoethane	N.D.	0.001	0.005	mg/kg	93	92	80-120	0	30
1,2-Dichloroethane	N.D.	0.001	0.005	mg/kg	100	98	71-129	2	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	89	87	80-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	91	87	74-121	4	30
Toluene	N.D.	0.001	0.005	mg/kg	90	89	80-120	2	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	91	90	80-120	1	30
Batch number: Q120241AA	Sample number(s): 6527545,6527548-6527549								
Benzene	N.D.	0.025	0.25	mg/kg	104	104	80-120	1	30
1,2-Dibromoethane	N.D.	0.050	0.25	mg/kg	111	114	80-120	2	30
1,2-Dichloroethane	N.D.	0.050	0.25	mg/kg	127	129	71-129	2	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	105	106	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	110	109	74-121	0	30
Toluene	N.D.	0.050	0.25	mg/kg	107	108	80-120	1	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	105	105	80-120	0	30
Batch number: Q120261AA	Sample number(s): 6527544,6527550,6527552-6527556								
Benzene	N.D.	0.025	0.25	mg/kg	107	104	80-120	3	30
1,2-Dibromoethane	N.D.	0.050	0.25	mg/kg	109	106	80-120	3	30
1,2-Dichloroethane	N.D.	0.050	0.25	mg/kg	133*	132*	71-129	1	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	104	101	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	114	113	74-121	1	30
Toluene	N.D.	0.050	0.25	mg/kg	104	102	80-120	2	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	103	99	80-120	4	30
Batch number: Q120263AA	Sample number(s): 6527551,6527557,6527559-6527560,6527562								

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzene	N.D.	0.025	0.25	mg/kg	94	96	80-120	2	30
1,2-Dibromoethane	N.D.	0.050	0.25	mg/kg	109	111	80-120	1	30
1,2-Dichloroethane	N.D.	0.050	0.25	mg/kg	115	115	71-129	0	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	104	106	80-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	97	101	74-121	4	30
Toluene	N.D.	0.050	0.25	mg/kg	105	109	80-120	3	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	102	105	80-120	3	30
Batch number: Q120301AA	Sample number(s): 6527544								
Ethylbenzene	N.D.	0.050	0.25	mg/kg	104	100	80-120	4	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	101	98	80-120	3	30
Batch number: R120313AA	Sample number(s): 6527558								
Benzene	N.D.	0.025	0.25	mg/kg	117	117	80-120	0	30
1,2-Dibromoethane	N.D.	0.050	0.25	mg/kg	93	94	80-120	1	30
1,2-Dichloroethane	N.D.	0.050	0.25	mg/kg	100	101	71-129	1	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	90	87	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.025	0.25	mg/kg	112	108	74-121	4	30
Toluene	N.D.	0.050	0.25	mg/kg	97	97	80-120	0	30
Xylene (Total)	N.D.	0.050	0.25	mg/kg	89	87	80-120	2	30
Batch number: 12020A34B	Sample number(s): 6527543-6527546								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	84	88	67-119	6	30
Batch number: 12024A34A	Sample number(s): 6527547-6527556								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	96	93	67-119	2	30
Batch number: 12025A34A	Sample number(s): 6527557-6527566								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	84	91	67-119	8	30
Batch number: 120240004A	Sample number(s): 6527543-6527562								
TPH-DRO soil C10-C28 w/Si Gel	N.D.	4.0	12	mg/kg	84		50-143		
Batch number: 120240005A	Sample number(s): 6527563-6527566								
TPH-DRO soil C10-C28 w/Si Gel	N.D.	4.0	12	mg/kg	129		50-143		
Batch number: 120240006A	Sample number(s): 6527543-6527562								
Total TPH	N.D.	10.	30	mg/kg	92		64-122		
TPH Motor Oil C16-C36	N.D.	10.	30	mg/kg					
Batch number: 120240007A	Sample number(s): 6527563-6527566								
Total TPH	N.D.	10.	30	mg/kg	102		64-122		
TPH Motor Oil C16-C36	N.D.	10.	30	mg/kg					

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: Q120301AA	Sample number(s): 6527544 UNSPK: P528343								
Ethylbenzene	-126 (2)	-136 (2)	44-141	4	30				

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

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
Xylene (Total)	-12*	-17*	44-136	2	30				
Batch number: R120313AA	Sample number(s): 6527558 UNSPK: 6527558								
Benzene	90	97	55-143	9	30				
1,2-Dibromoethane	84	91	54-129	9	30				
1,2-Dichloroethane	77	82	68-131	7	30				
Ethylbenzene	75	86	44-141	11	30				
Methyl Tertiary Butyl Ether	85	92	55-129	9	30				
Toluene	82	94	50-146	12	30				
Xylene (Total)	75	87	44-136	11	30				
Batch number: 120240004A	Sample number(s): 6527543-6527562 UNSPK: 6527543 BKG: 6527543								
TPH-DRO soil C10-C28 w/Si Gel	118		30-159			6.2	9.7	44* (1)	20
Batch number: 120240005A	Sample number(s): 6527563-6527566 UNSPK: 6527563 BKG: 6527563								
TPH-DRO soil C10-C28 w/Si Gel	90		30-159			21	16	30* (1)	20
Batch number: 120240006A	Sample number(s): 6527543-6527562 UNSPK: 6527543 BKG: 6527543								
Total TPH	103		10-168			N.D.	13	200* (1)	20
TPH Motor Oil C16-C36						N.D.	13	200* (1)	20
Batch number: 120240007A	Sample number(s): 6527563-6527566 UNSPK: 6527563 BKG: 6527563								
Total TPH	55		10-168			45	37	19 (1)	20
TPH Motor Oil C16-C36						45	37	19 (1)	20

Surrogate Quality Control

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

Analysis Name: VOCs by 8260B - Solid
Batch number: A120231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527543	105	99	105	96
6527547	101	99	105	98
Blank	103	102	103	98
LCS	104	100	105	101
LCSD	103	101	105	100
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: B120251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527561	103	98	100	97
6527563	108	102	100	96
6527564	108	102	99	98
6527565	109	106	98	94

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Surrogate Quality Control

6527566	107	102	100	95
Blank	107	103	98	97
LCS	106	105	101	102
LCSD	107	104	101	103
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: B120311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527546	103	103	100	92
Blank	103	105	99	92
LCS	103	102	103	100
LCSD	102	102	102	99
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: Q120241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527545	84	84	89	86
6527548	83	89	104	98
6527549	83	79	98	93
Blank	100	98	103	100
LCS	96	92	99	97
LCSD	102	99	101	101
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: Q120261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527544	91	94	89	110
6527550	90	87	88	87
6527552	71	70	84	83
6527553	81	79	91	92
6527554	93	90	90	90
6527555	77	73	93	89
6527556	73	71	161*	131*
Blank	102	102	99	97
LCS	104	100	100	99
LCSD	102	98	98	98
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: Q120263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527551	79	80	89	88
6527557	80	80	92	91
6527559	77	72	107	106
6527560	77	81	102	95
6527562	81	80	93	90

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Surrogate Quality Control

Blank	92	93	105	101
LCS	92	90	103	103
LCSD	93	92	105	103
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: Q120301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	94	95	103	102
LCS	96	91	101	102
LCSD	94	90	100	100
MS	82	77	88	91
MSD	82	77	88	92
Limits:	71-114	70-109	70-123	70-111

Analysis Name: VOCs by 8260B - Solid
Batch number: R120313AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6527558	80	85	81	72
Blank	100	107	90	76
LCS	104	110*	93	85
LCSD	110	114*	98	86
MS	82	86	82	73
MSD	81	86	84	73
Limits:	71-114	70-109	70-123	70-111

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 12020A34B

	Trifluorotoluene-F
6527543	99
6527544	0*
6527545	86
6527546	95
Blank	88
LCS	89
LCSD	92
Limits:	61-122

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 12024A34A

	Trifluorotoluene-F
6527547	82
6527548	1106*
6527549	0*
6527550	99
6527551	90
6527552	0*
6527553	96
6527554	85

*- Outside of specification
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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Surrogate Quality Control

6527555	0*
6527556	1996*
Blank	102
LCS	93
LCSD	95
Limits:	61-122

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 12025A34A

	Trifluorotoluene-F
6527557	101
6527558	102
6527559	0*
6527560	0*
6527561	91
6527562	95
6527563	92
6527564	89
6527565	99
6527566	82
Blank	96
LCS	91
LCSD	94
Limits:	61-122

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel
Batch number: 120240004A

	Orthoterphenyl
6527543	84
6527544	90
6527545	90
6527546	87
6527547	82
6527548	98
6527549	91
6527550	88
6527551	100
6527552	100
6527553	95
6527554	74
6527555	93
6527556	106
6527557	93
6527558	88
6527559	83
6527560	103
6527561	84
6527562	85
Blank	97
DUP	105
LCS	91
MS	112
Limits:	59-129

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Surrogate Quality Control

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel
Batch number: 120240005A

	Orthoterphenyl
6527563	114
6527564	115
6527565	129
6527566	108
Blank	116
DUP	107
LCS	136*
MS	112
Limits:	59-129

Analysis Name: TPH Fuels by GC (Soils)
Batch number: 120240006A

	Chlorobenzene	Orthoterphenyl
6527543	84	94
6527544	91	123
6527545	96	89
6527546	108	110
6527547	98	102
6527548	0*	134*
6527549	106	121
6527550	103	101
6527551	117	109
6527552	103	104
6527553	0*	119
6527554	101	86
6527555	96	127
6527556	0*	138*
6527557	106	102
6527558	105	105
6527559	0*	112
6527560	121	116
6527561	107	104
6527562	114	104
Blank	91	94
DUP	100	101
LCS	96	105
MS	105	112
Limits:	49-125	59-129

Analysis Name: TPH Fuels by GC (Soils)
Batch number: 120240007A

	Chlorobenzene	Orthoterphenyl
6527563	94	94
6527564	122	114
6527565	112	109
6527566	94	94
Blank	96	93
DUP	95	98

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

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1285899
Reported: 02/02/12 at 01:41 PM

Surrogate Quality Control

LCS	102	105
MS	96	101
Limits:	49-125	59-129

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

Chevron California Region Analysis Request/Chain of Custody

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Where quality is a science.

3443
01912-06

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 6527543-606 SCR#:

246098

Page 1 of 2

G#1285899

Facility #: 9-1153
Site Address: 3135 GIBBONS DRIVE ALAMEDA CA
Chevron PM: DAVE PATTON Lead Consultant: CRA
Consultant/Office: CRA / EMERYVILLE
Consultant Prj. Mgr.: NATHAN LEE
Consultant Phone #: 510-420-3333 Fax #: 510-420-9170
Sampler: SEQUOIA PATTERSON
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ yes MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	TPH 8015 Motor Oil Silica gel	1,2 Dibromoethane 8260 (EDB)		Ethylene Dichloride 8260 (EDC)	
B-1	S		3	2012/1/18	0936		X		1	X	X					X			X	
B-1	S		5	2012/1/18	0945		X		1	X	X					X			X	
B-1	S		9.5		1010		X		1	X	X					X			X	
B-2	S		3		1030		X		1	X	X					X			X	
B-2	S		4.5		1037		X		1	X	X					X			X	
B-3	S		3		1127		X		1	X	X					X			X	
B-3	S		4.5		1140		X		1	X	X					X			X	
B-3	S		7.5		1150		X		1	X	X					X			X	
B-3	S		9.5		1153		X		1	X	X					X			X	
B-4	S		3		1255		X		1	X	X					X			X	
B-4	S		6		1310		X		1	X	X					X			X	
B-4	S		9.5		1315		X		1	X	X					X			X	
B-5	S		3		1350		X		1	X	X					X			X	

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

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

Comments / Remarks
Please email results and EDF to NLEE@CRAWORLD.COM

Analyze all samples listed for TPH-DRO w/ Si Gel & EDBs per NL. mrea 1/23/12

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by: Sequoia Patterson	1/18/12	1830	Received by: Secure Location	1/18/12	1630
Relinquished by: Secure Location	1/19/12	1500	Received by:	1/19/12	1500
Relinquished by:	1/19/12	1545	Received by:	1/19/12	1545
Relinquished by Commercial Carrier: UPS ~~FedEx~~ Other 1/15/12 1630			Received by: DHL	1/20/12	1505
Temperature Upon Receipt ____ C° 1.2°			Custody Seals Intact? (Yes) No		

Chevron California Region Analysis Request/Chain of Custody

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01/912-06 2 of 3

246099

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 6527543-66 SCR#:

Page 2 of 2

G# 1285899

Facility #: 9-1153
Site Address: 3135 GIBBONS DRIVE ALAMEDA CA
Chevron PM: DAVE PATTON Lead Consultant: CRA
Consultant/Office: CRA / EMERYVILLE
Consultant Prj. Mgr.: NATHAN LEE
Consultant Phone #: 510-420-3333 Fax #: 510-420-9170
Sampler: SEQUOIA PATTERSON
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + ~~MTBE~~ 8260 ☒ 8021 ☐ yes MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	TPH 8015 Motor oil silica gel	1,2 Dibromoethane 8260 (EDB)	Ethylene Dichloride 8260 (EDC)
B-5	S		4.5	2012/ 1/18	1400		X		1	X	X	X				X		X
B-5	S		6		1405		X		1	X	X	X				X		X
B-5	S		9.5		1420		X		1	X	X	X				X		X
B-6	S		3		1430		X		1	X	X	X				X		X
B-6	S		4.5		1445		X		1	X	X	X				X		X
B-6	S		6		1450		X		1	X	X	X				X		X
B-6	S		9.5		1500		X		1	X	X	X				X		X
B-7	S		3		1510		X		1	X	X	X				X		X
B-7	S		6		1530		X		1	X	X	X				X		X
B-8	S		3		1620		X		1	X	X	X				X		X
B-8	S		5	↓ ↓	1625		X		1	X	X	X				X		X

Comments / Remarks
Please email results and EDF to NLEE@CRAWORLD.COM

Analyze all samples listed for EDB per NL. mes 1/23/12

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Sequoia Patton	1/18/12	1830	Secure Location	1/18/12	1830
Secure Location	1/19/12	1500		1/19/12	1500
	1/19/12	1545		1/19/12	1545
Relinquished by Commercial Carrier: 1/19/12 1630			Received by: DHL	1/20/12	1505

UPS FedEx Other

Temperature Upon Receipt 2.2 C°

Custody Seals Intact? (Yes) No

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

APPENDIX G

AMBIENT AIR LABORATORY ANALYTICAL REPORT

2/22/2012
Mr. Nathan Lee
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 9-1153
Project #: 311642
Workorder #: 1201536A

Dear Mr. Nathan Lee

The following report includes the data for the above referenced project for sample(s) received on 1/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

WORK ORDER #: 1201536A

Work Order Summary

CLIENT:	Mr. Nathan Lee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Sequoia Patterson Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	4031644
FAX:	510-420-9170	**PROJECT #**	311642 Chevron 9-1153
DATE RECEIVED:	01/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	02/15/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OA-1	Modified TO-15	7.0 "Hg	5 psi
02A	OA-1-DUP	Modified TO-15	6.8 "Hg	5 psi
03A	IA-1	Modified TO-15	8.6 "Hg	5 psi
04A	IA-2	Modified TO-15	5.4 "Hg	5 psi
05A	CS-1	Modified TO-15	5.2 "Hg	5 psi
06A	CS-2	Modified TO-15	4.4 "Hg	5 psi
07A	Trip Blank	Modified TO-15	29.0 "Hg	5 psi
08A	Lab Blank	Modified TO-15	NA	NA
08B	Lab Blank	Modified TO-15	NA	NA
08C	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
09B	CCV	Modified TO-15	NA	NA
09C	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA
10B	LCS	Modified TO-15	NA	NA
10BB	LCSD	Modified TO-15	NA	NA
10C	LCS	Modified TO-15	NA	NA

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1201536A

Work Order Summary

CLIENT:	Mr. Nathan Lee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Sequoia Patterson Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	4031644
FAX:	510-420-9170	**PROJECT #**	311642 Chevron 9-1153
DATE RECEIVED:	01/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	02/15/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
10D	LCS	Modified TO-15	NA	NA
10DD	LCSD	Modified TO-15	NA	NA
10E	LCS	Modified TO-15	NA	NA
10EE	LCSD	Modified TO-15	NA	NA
10F	LCS	Modified TO-15	NA	NA
10FF	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 02/15/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Conestoga-Rovers Associates (CRA)
Workorder# 1201536A

Seven 6 Liter Summa Canister (SIM Certified) samples were received on January 31, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The results for each sample in this report were acquired from two separate data files originating from

the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. For each daily batch, two different Laboratory Control Spike samples were prepared and analyzed. One LCS sample analyzed with the batch on 02/8/12 and 02/10/12 was inadvertently spiked with Naphthalene at a concentration 2.5x the upper calibration level. This LCS spike (files e020805, e020806, e021005 and e0210006) measured high recovery for naphthalene well above the laboratory control limits of 60-140%. A second LCS was prepared with naphthalene within the calibration range (files e020804, e021003, a021307, a021308). The naphthalene recovery was within laboratory control limits, however, the remaining target VOCs demonstrated recovery below laboratory limits on 2/8/12 for benzene and toluene, and on 2/10/12 for all target compounds except naphthalene. No investigation was conducted at the time of analysis to determine the source of the recovery discrepancy between the two LCS working standards. As a result, all prepared LCS sample recoveries were reported.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: OA-1

Lab ID#: 1201536A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.088	0.28	0.28	0.88
Toluene	0.035	0.66	0.13	2.5
Ethyl Benzene	0.035	0.11	0.15	0.49
m,p-Xylene	0.070	0.36	0.30	1.6
o-Xylene	0.035	0.12	0.15	0.54

Client Sample ID: OA-1-DUP

Lab ID#: 1201536A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.086	0.27	0.28	0.86
Toluene	0.035	0.73	0.13	2.7
Ethyl Benzene	0.035	0.11	0.15	0.46
m,p-Xylene	0.069	0.36	0.30	1.6
o-Xylene	0.035	0.13	0.15	0.58

Client Sample ID: IA-1

Lab ID#: 1201536A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.094	1.6	0.30	5.1
Toluene	0.038	5.6	0.14	21
Ethyl Benzene	0.038	0.79	0.16	3.4
m,p-Xylene	0.075	2.5	0.33	11
o-Xylene	0.038	0.79	0.16	3.4
TPH ref. to Gasoline (MW=100)	19	100	77	410

Client Sample ID: IA-2

Lab ID#: 1201536A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-2

Lab ID#: 1201536A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	6.4	0.26	20
Toluene	0.033	22	0.12	85
Ethyl Benzene	0.033	3.0	0.14	13
m,p-Xylene	0.065	9.1	0.28	40
o-Xylene	0.033	2.7	0.14	12
TPH ref. to Gasoline (MW=100)	16	280	67	1100

Client Sample ID: CS-1

Lab ID#: 1201536A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.081	0.31	0.26	0.98
Toluene	0.032	0.70	0.12	2.6
Ethyl Benzene	0.032	0.12	0.14	0.51
m,p-Xylene	0.065	0.37	0.28	1.6
o-Xylene	0.032	0.13	0.14	0.57

Client Sample ID: CS-2

Lab ID#: 1201536A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.33	0.25	1.0
Toluene	0.031	0.79	0.12	3.0
Ethyl Benzene	0.031	0.14	0.14	0.59
m,p-Xylene	0.063	0.44	0.27	1.9
o-Xylene	0.031	0.16	0.14	0.68
TPH ref. to Gasoline (MW=100)	16	23	64	94

Client Sample ID: Trip Blank

Lab ID#: 1201536A-07A

No Detections Were Found.

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Client Sample ID: OA-1

Lab ID#: 1201536A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020819sim**	**Date of Collection: 1/26/12 10:56:00 AM**	
Dil. Factor:	**1.75**	**Date of Analysis: 2/8/12 10:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Benzene	0.088	0.28	0.28	0.88
Toluene	0.035	0.66	0.13	2.5
Ethyl Benzene	0.035	0.11	0.15	0.49
m,p-Xylene	0.070	0.36	0.30	1.6
o-Xylene	0.035	0.12	0.15	0.54
Naphthalene	0.88	Not Detected	4.6	Not Detected
TPH ref. to Gasoline (MW=100)	18	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
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Client Sample ID: OA-1-DUP

Lab ID#: 1201536A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020820sim**	**Date of Collection: 1/26/12 10:56:00 AM**	
Dil. Factor:	**1.73**	**Date of Analysis: 2/8/12 10:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
Benzene	0.086	0.27	0.28	0.86
Toluene	0.035	0.73	0.13	2.7
Ethyl Benzene	0.035	0.11	0.15	0.46
m,p-Xylene	0.069	0.36	0.30	1.6
o-Xylene	0.035	0.13	0.15	0.58
Naphthalene	0.86	Not Detected	4.5	Not Detected
TPH ref. to Gasoline (MW=100)	17	Not Detected	71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-1

Lab ID#: 1201536A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021320sim**	**Date of Collection: 1/26/12 11:05:00 AM**	
Dil. Factor:	**1.88**	**Date of Analysis: 2/13/12 11:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.19	Not Detected	0.68	Not Detected
Benzene	0.094	1.6	0.30	5.1
Toluene	0.038	5.6	0.14	21
Ethyl Benzene	0.038	0.79	0.16	3.4
m,p-Xylene	0.075	2.5	0.33	11
o-Xylene	0.038	0.79	0.16	3.4
Naphthalene	0.94	Not Detected	4.9	Not Detected
TPH ref. to Gasoline (MW=100)	19	100	77	410

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
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Client Sample ID: IA-2

Lab ID#: 1201536A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021313sim**	**Date of Collection: 1/26/12 11:06:00 AM**	
Dil. Factor:	**1.63**	**Date of Analysis: 2/13/12 06:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
Benzene	0.082	6.4	0.26	20
Toluene	0.033	22	0.12	85
Ethyl Benzene	0.033	3.0	0.14	13
m,p-Xylene	0.065	9.1	0.28	40
o-Xylene	0.033	2.7	0.14	12
Naphthalene	0.82	Not Detected	4.3	Not Detected
TPH ref. to Gasoline (MW=100)	16	280	67	1100

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-1

Lab ID#: 1201536A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021014sim**	**Date of Collection: 1/26/12 11:45:00 AM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/11/12 08:42 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
Benzene	0.081	0.31	0.26	0.98
Toluene	0.032	0.70	0.12	2.6
Ethyl Benzene	0.032	0.12	0.14	0.51
m,p-Xylene	0.065	0.37	0.28	1.6
o-Xylene	0.032	0.13	0.14	0.57
Naphthalene	0.81	Not Detected	4.2	Not Detected
TPH ref. to Gasoline (MW=100)	16	Not Detected	66	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	130	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-2

Lab ID#: 1201536A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021314sim**	**Date of Collection: 1/26/12 11:46:00 AM**	
Dil. Factor:	**1.57**	**Date of Analysis: 2/13/12 07:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
Benzene	0.078	0.33	0.25	1.0
Toluene	0.031	0.79	0.12	3.0
Ethyl Benzene	0.031	0.14	0.14	0.59
m,p-Xylene	0.063	0.44	0.27	1.9
o-Xylene	0.031	0.16	0.14	0.68
Naphthalene	0.78	Not Detected	4.1	Not Detected
TPH ref. to Gasoline (MW=100)	16	23	64	94

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1201536A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021315sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 07:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1201536A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020809sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/12 02:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1201536A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021011sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/10/12 08:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1201536A-08C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021311sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 04:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1201536A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020803sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/12 10:03 AM**	

Compound	%Recovery
Methyl tert-butyl ether	107
Benzene	98
Toluene	103
Ethyl Benzene	106
m,p-Xylene	110
o-Xylene	111
Naphthalene	96
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1201536A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021004sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/10/12 02:54 PM**	

Compound	%Recovery
Methyl tert-butyl ether	106
Benzene	95
Toluene	100
Ethyl Benzene	104
m,p-Xylene	107
o-Xylene	109
Naphthalene	112
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1201536A-09C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021304sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 10:02 AM**	

Compound	%Recovery
Methyl tert-butyl ether	108
Benzene	93
Toluene	92
Ethyl Benzene	98
m,p-Xylene	91
o-Xylene	89
Naphthalene	98
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/12 10:50 AM**	

Compound	%Recovery
Methyl tert-butyl ether	70
Benzene	66 Q
Toluene	68 Q
Ethyl Benzene	72
m,p-Xylene	75
o-Xylene	75
Naphthalene	98
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020805sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/12 11:34 AM**	

Compound	**%Recovery**
Methyl tert-butyl ether	109
Benzene	100
Toluene	103
Ethyl Benzene	108
m,p-Xylene	114
o-Xylene	114
Naphthalene	150 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1201536A-10BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e020806sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/8/12 12:13 PM**	

Compound	%Recovery
Methyl tert-butyl ether	109
Benzene	99
Toluene	104
Ethyl Benzene	107
m,p-Xylene	112
o-Xylene	114
Naphthalene	156 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021003sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/10/12 02:12 PM**	

Compound	%Recovery
Methyl tert-butyl ether	65 Q
Benzene	62 Q
Toluene	64 Q
Ethyl Benzene	66 Q
m,p-Xylene	69 Q
o-Xylene	69 Q
Naphthalene	94
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021005sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/10/12 03:38 PM**	

Compound	%Recovery
Methyl tert-butyl ether	106
Benzene	98
Toluene	102
Ethyl Benzene	106
m,p-Xylene	112
o-Xylene	112
Naphthalene	152 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1201536A-10DD

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e021006sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/10/12 04:17 PM**	

Compound	%Recovery
Methyl tert-butyl ether	108
Benzene	96
Toluene	100
Ethyl Benzene	104
m,p-Xylene	109
o-Xylene	110
Naphthalene	159 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021305sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 10:46 AM**	

Compound	%Recovery
Methyl tert-butyl ether	101
Benzene	91
Toluene	87
Ethyl Benzene	93
m,p-Xylene	87
o-Xylene	84
Naphthalene	181 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1201536A-10EE

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021306sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 11:36 AM**	

Compound	%Recovery
Methyl tert-butyl ether	108
Benzene	94
Toluene	90
Ethyl Benzene	96
m,p-Xylene	90
o-Xylene	87
Naphthalene	196 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1201536A-10F

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021307sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 12:14 PM**	

Compound	%Recovery
Methyl tert-butyl ether	93
Benzene	80
Toluene	77
Ethyl Benzene	82
m,p-Xylene	77
o-Xylene	75
Naphthalene	99
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1201536A-10FF

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**a021308sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/13/12 12:53 PM**	

Compound	%Recovery
Methyl tert-butyl ether	95
Benzene	82
Toluene	79
Ethyl Benzene	84
m,p-Xylene	81
o-Xylene	78
Naphthalene	95
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

2/13/2012
Mr. Nathan Lee
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 9-1153
Project #: 311642
Workorder #: 1201536B

Dear Mr. Nathan Lee

The following report includes the data for the above referenced project for sample(s) received on 1/31/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 APH are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1201536B

Work Order Summary

CLIENT:	Mr. Nathan Lee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Sequoia Patterson Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	4031644
FAX:	510-420-9170	**PROJECT #**	311642 Chevron 9-1153
DATE RECEIVED:	01/31/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	02/13/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OA-1	Modified TO-15 APH	7.0 "Hg	5 psi
01B	OA-1	Modified TO-15 APH	7.0 "Hg	5 psi
02A	OA-1-DUP	Modified TO-15 APH	6.8 "Hg	5 psi
02B	OA-1-DUP	Modified TO-15 APH	6.8 "Hg	5 psi
03A	IA-1	Modified TO-15 APH	8.6 "Hg	5 psi
03B	IA-1	Modified TO-15 APH	8.6 "Hg	5 psi
04A	IA-2	Modified TO-15 APH	5.4 "Hg	5 psi
04B	IA-2	Modified TO-15 APH	5.4 "Hg	5 psi
05A	CS-1	Modified TO-15 APH	5.2 "Hg	5 psi
05B	CS-1	Modified TO-15 APH	5.2 "Hg	5 psi
06A	CS-2	Modified TO-15 APH	4.4 "Hg	5 psi
06B	CS-2	Modified TO-15 APH	4.4 "Hg	5 psi
07A	Lab Blank	Modified TO-15 APH	NA	NA
07B	Lab Blank	Modified TO-15 APH	NA	NA
08A	CCV	Modified TO-15 APH	NA	NA
08B	CCV	Modified TO-15 APH	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 02/13/12

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 & VPH Fractions
Conestoga-Rovers Associates (CRA)
Workorder# 1201536B

Six 6 Liter Summa Canister (SIM Certified) samples were received on January 31, 2012. The laboratory performed analysis via EPA Method TO-15 and Air Toxics VPH (Volatile Petroleum Hydrocarbon) methods for the Determination of VPH Fractions using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. This method is designed to measure gaseous phase aliphatic and aromatic compounds in ambient air and soil gas collected in stainless steel Summa canisters. Air Toxics VPH method is a hybrid of EPA TO-15, MADEP APH and WSDE VPH methods. Chromatographic peaks were identified via mass spectrum as either aliphatic or aromatic petroleum hydrocarbons and included in the appropriate range as defined by the method. The volatile Aliphatic hydrocarbons are collectively quantified within the C5 to C6 range, C6 to C8 range, C8 to C10 range and the C10 to C12 range. Additionally, the volatile Aromatic hydrocarbons are collectively quantified within the C8 to C10 range and the C10 to C12 range. The Aromatic ranges refer to the equivalent carbon (EC) ranges.

Aliphatic data is calculated from the Total Ion chromatogram which has been reprocessed in a duplicate file differentiated from the original by the addition of an alphanumeric extension. The Aromatic calculation also uses the information contained in the associated Extracted Ion file.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OA-1

Lab ID#: 1201536B-01A

No Detections Were Found.

Client Sample ID: OA-1

Lab ID#: 1201536B-01B

No Detections Were Found.

Client Sample ID: OA-1-DUP

Lab ID#: 1201536B-02A

No Detections Were Found.

Client Sample ID: OA-1-DUP

Lab ID#: 1201536B-02B

No Detections Were Found.

Client Sample ID: IA-1

Lab ID#: 1201536B-03A

No Detections Were Found.

Client Sample ID: IA-1

Lab ID#: 1201536B-03B

No Detections Were Found.

Client Sample ID: IA-2

Lab ID#: 1201536B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	26	53	83

Client Sample ID: IA-2

Lab ID#: 1201536B-04B

No Detections Were Found.

Summary of Detected Compounds
MODIFIED METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: CS-1

Lab ID#: 1201536B-05A

No Detections Were Found.

Client Sample ID: CS-1

Lab ID#: 1201536B-05B

No Detections Were Found.

Client Sample ID: CS-2

Lab ID#: 1201536B-06A

No Detections Were Found.

Client Sample ID: CS-2

Lab ID#: 1201536B-06B

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OA-1

Lab ID#: 1201536B-01A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020317a**	**Date of Collection:**	**1/26/12 10:56:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**2/3/12 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	18	Not Detected	57	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	18	Not Detected	72	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	18	Not Detected	100	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	18	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OA-1

Lab ID#: 1201536B-01B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020317c**	**Date of Collection:**	**1/26/12 10:56:00 AM**
Dil. Factor:	**1.75**	**Date of Analysis:**	**2/3/12 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	18	Not Detected	86	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	18	Not Detected	96	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OA-1-DUP

Lab ID#: 1201536B-02A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020318a**	**Date of Collection: 1/26/12 10:56:00 AM**	
Dil. Factor:	**1.73**	**Date of Analysis: 2/3/12 05:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	17	Not Detected	56	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	17	Not Detected	71	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	17	Not Detected	100	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	17	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OA-1-DUP

Lab ID#: 1201536B-02B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020318c**	**Date of Collection: 1/26/12 10:56:00 AM**	
Dil. Factor:	**1.73**	**Date of Analysis: 2/3/12 05:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	17	Not Detected	85	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	17	Not Detected	95	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-1

Lab ID#: 1201536B-03A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020319a**	**Date of Collection:**	**1/26/12 11:05:00 AM**
Dil. Factor:	**1.88**	**Date of Analysis:**	**2/3/12 06:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	19	Not Detected	61	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	19	Not Detected	77	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	19	Not Detected	110	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	19	Not Detected	130	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-1

Lab ID#: 1201536B-03B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020319c**	**Date of Collection:**	**1/26/12 11:05:00 AM**
Dil. Factor:	**1.88**	**Date of Analysis:**	**2/3/12 06:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	19	Not Detected	92	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	19	Not Detected	100	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-2

Lab ID#: 1201536B-04A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020320a**	**Date of Collection: 1/26/12 11:06:00 AM**	
Dil. Factor:	**1.63**	**Date of Analysis: 2/3/12 07:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	26	53	83
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	67	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	95	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-2

Lab ID#: 1201536B-04B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020320c**	**Date of Collection:**	**1/26/12 11:06:00 AM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**2/3/12 07:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	16	Not Detected	80	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	16	Not Detected	89	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-1

Lab ID#: 1201536B-05A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020321a**	**Date of Collection:**	**1/26/12 11:45:00 AM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**2/3/12 08:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	52	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	66	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	94	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-1

Lab ID#: 1201536B-05B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020321c**	**Date of Collection: 1/26/12 11:45:00 AM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/3/12 08:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	16	Not Detected	80	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	16	Not Detected	89	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-2

Lab ID#: 1201536B-06A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020322a**	**Date of Collection:**	**1/26/12 11:46:00 AM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**2/3/12 08:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	51	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	64	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	91	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CS-2

Lab ID#: 1201536B-06B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020322c**	**Date of Collection: 1/26/12 11:46:00 AM**	
Dil. Factor:	**1.57**	**Date of Analysis: 2/3/12 08:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	16	Not Detected	77	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	16	Not Detected	86	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1201536B-07A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020310c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/3/12 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	10	Not Detected	32	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	10	Not Detected	41	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	10	Not Detected	58	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	10	Not Detected	70	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1201536B-07B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020310d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/3/12 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	10	Not Detected	49	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	10	Not Detected	55	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1201536B-08A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020307a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/3/12 11:29 AM**	

Compound	%Recovery
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	97
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	86
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	81
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	82

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1201536B-08B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**o020307c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/3/12 11:29 AM**	

Compound	%Recovery
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	92
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	96

Container Type: NA - Not Applicable

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Nathan Lee

Collected by: (Print and Sign) Sequoia Patterson Sequoia Patterson

Company: CRA Email: NLEE@CRAWORLD.com

Address: 5900 Hollis St suit A City: Emeryville State: CA Zip: 94608

Phone: 510-420-3333 Fax: 510-420-9170

Project Info:
P.O. # 4031644
Project # 311642
Project Name: Chevron 9-1153

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01AB	OA-1	5568	1-26-12	1056	All by: TO-15 SIM (GC/MS) TPHg, BTEX, MTBE, Naphthalene.	-30	-8		
02AB	OA-1-DUP	35163	1-26-12	1056		-30	-7.5		
03AB	IA-1	12082	1-26-12	1105	All Except Trip Blank by: TO-15 MODIFIED GC/MS Fullscan; APH FRACTIONS (Sp) Aromatics C8-C12 and TO-15 MODIFIED GC/MS Fullscan: APH FRACTIONS (Sp) ALIPHATICS C5-C12	-30	-10		
04AB	IA-2	34215	1-26-12	1106		-30	-6.5		
05AB	CS-1	94191	1-26-12	1145		-30	-6.75		
06AB	CS-2	9562	1-26-12	1146		-30	-6		
07AB	Trip Blank	35978	—	—		-30	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Sequoia Patterson	1-27-12 1515	Fed Ex	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[illegible]	1.31.12 1410
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: Please email results and Edf to NLEE@CRAWORLD.COM
Results in ppbv and ug/m^3

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Test		NA	Good	Yes No (None)	1201536

Form 1293 rev.11