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10:13 am, Apr 01, 2011

Alameda County Environmental Health

March 31, 2011 (date) **Stacie H. Frerichs** Team Lead Marketing Business Unit Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-9655 Fax (925) 842-8370

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

Re: Chevron Facility #_9-2029____

Address: 890 West MacArthur Boulevard, Oakland, California_

I have reviewed the attached report titled Additional Investigation Report and dated March 31, 2011.

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

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

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

5H Frencho

Stacie H. Frerichs Project Manager

Enclosure: Report



10969 Trade Center Drive Rancho Cordova, California 95670 Telephone: (916) 889-8900 Fax: (916) 889-8999 www.CRAworld.com

Reference No. 611974

March 31, 2011

Mr. Mark Detterman, P.G., C.E.G. Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Additional Investigation Report Former Chevron Service Station 9-2029 890 West MacArthur Boulevard Oakland, California LOP Case #RO0002438

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) has prepared this *Additional Investigation Report* on behalf of Chevron Environmental Management Company (Chevron) presenting the results of the recent investigation at the site referenced above. To further evaluate the extent of petroleum hydrocarbons in groundwater downgradient (southwest) of well MW-7, additional exploratory boring SB-10 was drilled. The work was performed in general accordance with the August 25, 2009 *Work Plan for Additional Subsurface Investigation* (work plan) and the follow-up e-mail from CRA to Alameda County Environmental Health (ACEH) on February 25, 2010. Please note that the drilling of two borings was originally proposed; however, one of the borings (east side of Market Street) could not safely be advanced due to the presence of numerous underground utility lines in the area. Presented below are the site description and background, the details and results of the investigation, and our conclusions and recommendations.

SITE DESCRIPTION AND BACKGROUND

The site is located on the northeast corner of the intersection of West MacArthur Boulevard and Market Street (Figure 1), and is currently a fenced vacant lot. A Chevron service station operated at the site from approximately 1956 until 2004. Based on historical aerial photographs, the site was occupied by a service station as early as 1946. Prior to 1970, station facilities consisted of a station building with two hydraulic hoists, three dispenser islands, and two 5,000-gallon and one 3,000-gallon gasoline underground storage tanks (USTs). A used-oil UST was located adjacent to the northeast corner of the building. The product lines reportedly were replaced in 1970, and the 3,000-gallon UST reportedly was replaced with a 10,000-gallon fiberglass UST sometime before 1978. In 1982, the two 5,000-gallon and the 10,000-gallon USTs were replaced with three 10,000-gallon fiberglass USTs. In 1984, the station was reconstructed

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Reference No. 611974

into the most recent configuration with a kiosk and five dispenser islands. The product dispensers were replaced and the USTs upgraded in 1997. The used-oil UST was removed sometime between 1984 and 1997; however, no information regarding the removal is available. In 2005, the station was demolished and the majority of the site was over-excavated to remove impacted soil. The site has since remained vacant. The former station facilities and the approximate final excavation limits are shown on Figure 2.

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The site is bounded by West MacArthur Boulevard to the south, Market Street to the west, a residential structure occupied by a business and a residential property to the north, and a motel to the east. Land use in the vicinity of the site is mixed commercial and residential. What appears to be a former service station based on the existing building layout (overhead canopy and two dispenser islands) is present on the southwest corner of the intersection. This facility is currently occupied by an auto detail business, and does not appear to be an open release case; no other information is known.

Environmental work has been ongoing since 1981. Prior to the current investigation, work has included the installation of monitoring wells MW-1 through MW-8, the drilling of borings B-1 through B-10 and SB-1 through SB-9, and confirmation sampling during UST removal and over-excavation activities. Wells MW-1 through MW-4 were destroyed in 2006 due to proposed site redevelopment. A summary of the environmental work is included as Attachment A. The approximate well and boring locations are shown on Figure 2.

Offsite wells MW-5 through MW-8 were installed in 2008 to replace MW-1 through MW-4. Elevated concentrations of petroleum hydrocarbons have been detected in MW-5, MW-6, and MW-7. Petroleum hydrocarbons generally have not been detected in MW-8. The groundwater flow direction is consistently to the southwest (see rose diagram on Figure 2). The extent of impacted groundwater is well-defined by MW-8 and borings SB-1 through SB-9 drilled in 2006, with the exception of the area downgradient of MW-7. Therefore, additional investigation to evaluate this data gap was proposed in the August 25, 2009 work plan. The use of low-flow technology to collect groundwater samples was proposed to minimize the chance of false positive detections due to the presence of sediment in the samples.

INVESTIGATION ACTIVITIES

Boring SB-10 was drilled offsite across Market Street to further evaluate the extent of petroleum hydrocarbons in groundwater downgradient of MW-7. The approximate boring location is shown on Figure 2. Please note that the boring location changed from that originally proposed due to the presence of utility lines. The details of the investigation are presented in the



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following sections. Fieldwork was performed on January 4, 2011 by CRA Staff Geologist Nate Allen under the supervision of James Kiernan, P.E.

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Drilling Activities

Prior to drilling, CRA obtained Permit No. 2010-0999 from Alameda County Public Works Agency for the boring; permits from the City of Oakland were also required to block off parking spaces. Copies of the permits are included as Attachment B. Drilling activities were performed by PeneCore Drilling (C-57 License #906899) of Woodland, California, under the supervision of CRA.

The upper 5 feet of the boring was first cleared for underground utilities using a hand-auger. Following utility clearance, the boring was advanced to the total depth of 20 feet below grade (fbg) using truck-mounted direct-push equipment.

Soil samples were obtained continuously from the boring for logging and observation purposes. Below 5 fbg, the soil samples were collected using a macro-core sampler containing a 5-foot acetate liner hydraulically driven into undisturbed soil at the bottom of the borehole at each interval. The soil encountered in the boring was logged in accordance with American Society for Testing and Materials (ASTM) D-2488 protocols, and consisted of clay to approximately 6.5 fbg, followed by interbedded layers of silt, silty sand, and silty gravel to the bottom of the boring. A copy of the boring log is included in Attachment B. Soil samples were screened in the field for the presence of organic vapors using a photo-ionization detector (PID) and visually observed for any evidence of petroleum hydrocarbon impact. The PID measurements are also presented on the boring log. Groundwater was encountered in the boring at approximately 15 fbg within a layer of silty gravel with sand. CRA's standard field procedures are included as Attachment C.

Soil Sampling and Laboratory Analysis

As no evidence of hydrocarbon impact or elevated PID measurements were observed, soil samples were collected from the boring at approximate 5-foot intervals (5, 9.5, 14.5, and 19.5 fbg) and retained for laboratory analysis. The sample at 5 fbg was collected using the hand-auger; the samples below 5 fbg were collected by cutting a section from the acetate liner. The soil samples were capped with Teflon tape and plastic end caps, labeled, placed in an ice-chilled cooler, and transported under chain-of-custody to Lancaster Laboratories, Inc. (Lancaster) in Lancaster, Pennsylvania, for analysis. The soil samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B.
- Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B.



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Groundwater Sampling and Laboratory Analysis

A groundwater sample was also collected from the boring using low-flow technology. The drill rods were first removed and temporary slotted PVC casing was placed in the borehole to allow for the infiltration of groundwater. After the water level had stabilized, clean, unused sample tubing connected to a low-flow peristaltic pump was lowered into the casing so that the bottom of the tubing was at the approximate mid-point of the water column. Groundwater was then purged at a low flow rate and monitored in real-time for temperature, pH, and conductivity using a multi-meter and flow-through cell. Purging continued until the groundwater parameters had stabilized (within 10 percent). At that point, the flow-through cell was disconnected and the groundwater sample collected. The groundwater sample was collected in the appropriate laboratory-supplied containers, placed in an ice-chilled cooler, and transported under chain-of-custody to Lancaster for analysis. The groundwater sample was analyzed for the same constituents as the soil samples.

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Investigation-Derived Waste

Soil cuttings and decontamination rinsate generated during drilling activities were temporarily stored onsite in a 55-gallon drum, and sampled for disposal purposes. Once profiled, the drum will be removed from the site and transported to an appropriately-permitted facility for disposal.

SOIL SAMPLE ANALYTICAL RESULTS

No TPHg, BTEX, or MTBE were detected in the soil samples, with the exception of benzene (0.0006 milligrams per kilogram [mg/kg]) and toluene (0.002 mg/kg) in the sample collected at 19.5 fbg. The soil sample analytical results are presented in Table 1. A copy of the laboratory report and chain-of-custody documentation is included as Attachment D.

GROUNDWATER SAMPLE ANALYTICAL RESULTS

No TPHg or BTEX were detected in the groundwater sample; MTBE was detected at 4 micrograms per liter (μ g/L). The groundwater sample analytical results are presented in Table 2. A copy of the laboratory report and chain-of-custody documentation is included as Attachment D.



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CONCLUSIONS AND RECOMMENDATIONS

Offsite exploratory boring SB-10 was advanced during this investigation to further evaluate the downgradient extent of petroleum hydrocarbons in groundwater. Petroleum hydrocarbons were not detected in the soil samples collected from the boring with the exception of trace concentrations of benzene and toluene in the deepest sample (19.5 fbg) which was collected below the groundwater table. Petroleum hydrocarbons were not detected in the groundwater sample collected from the boring with the exception of a low concentration of MTBE (4 μ g/L). Based on the analytical results, the downgradient extent of hydrocarbons in groundwater has been adequately defined.

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CRA concludes that no further investigation is warranted, and recommends continued groundwater monitoring to evaluate possible declining trends and the potential for low-risk case closure.



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James P. Kiernan, P.E.

Reference No. 611974

We appreciate your assistance on this project. If you have any questions or need any additional information, please contact Mr. James Kiernan at (916) 889-8917.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Christopher J. Benedict

CB/kw/12 Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Table 1	Soil Sample Analytical Results
Table 2	Groundwater Sample Analytical Results

- Attachment A Summary of Environmental Investigation and Remediation
- Attachment B Drilling Permits and Boring Log
- Attachment C Standard Field Procedures
- Attachment D Laboratory Analytical Reports
- cc: Ms. Stacie Frerichs, Chevron (*electronic copy*) Mr. Stephen O'Kane, Westmac, LLC

No. 68498 Exp. 9/30/ /

FIGURES



figure 1

VICINITY MAP

Oakland, California

CHEVRON SERVICE STATION 9-2029 890 WEST MACARTHUR BOULEVARD



611974-199(012)GN-WA001 FEB 10/2011



611974-199(012)GN-WA002 MAR 28/2011

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS FORMER CHEVRON STATION 9-2029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

Boring ID	Sample Depth (fbg)	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			← Cor	ncentrations r	eported in r	nilligrams per ki	logram (mg	r/kg) →
SB-10	5	1/4/11	<1	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005
	9.5	1/4/11	<1	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005
	14.5	1/4/11	<1	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005
	19.5	1/4/11	<1	0.0006	0.002	< 0.001	< 0.001	< 0.0005

Abbreviations/Notes:

fbg = feet below grade

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

<x = Not detected at or above stated laboratory reporting limit

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS FORMER CHEVRON STATION 9-2029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

Boring ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
		←	Concentratio	ns reported i	n micrograms per	liter (µg/L)	>
SB-10	1/4/11	<50	< 0.5	<0.5	<0.5	<0.5	4

Abbreviations/Notes:

fbg = feet below grade TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015 Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B MTBE = Methyl tertiary butyl ether by EPA Method 8260B <x = Not detected at or above stated laboratory reporting limit

ATTACHMENT A

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION Former Chevron Service Station 9-2029 890 West MacArthur Boulevard Oakland, California

1981 Tank Testing and Subsurface Investigation

In April 1981, Smith and Denison conducted a tank integrity test, which included advancing two exploratory borings to 12 feet below grade (fbg) and collecting two soil samples from each boring. The test results indicated the tanks were corroded, but had no holes. Total petroleum hydrocarbons as gasoline (TPHg) were detected in three of the four soil samples collected. No other details are known.

1991 Air Monitoring

In March 1991, Environmental Health Consultants conducted ambient air monitoring and sampling due to a strong hydrocarbon odor noted in the service station building. The results indicated hydrocarbons were present in air entering the station building from the underlying crawl space. Photo-ionization detector (PID) readings averaged between 100 and 150 parts per million by volume (ppmv) and peaked at 505 ppmv. Air sample analytical results detected approximately 100 ppmv of gasoline hydrocarbons and less than 1 ppmv of benzene.

1997 Dispenser and Gasoline Underground Storage Tank (UST) Upgrade

In February 1997, Gettler-Ryan Inc. (G-R) collected soil samples during dispenser replacement and UST upgrade activities. The five dispenser islands were removed and soil in the immediate vicinity of each island was excavated; each excavation area was approximately 12 feet by 10 feet by 2.5 feet deep. Soil samples were collected from the bottom of each excavation at approximately 3 fbg and analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). TPHg was detected in four of the samples at concentrations up to 38 milligrams per kilogram (mg/kg). BTEX and MTBE were detected in all the samples at concentrations up to 0.90 mg/kg and 0.62 mg/kg, respectively. A soil sample was also collected from the northern wall of the UST pit at 3 fbg; TPHg, BTEX, and MTBE were not detected in the sample. A sample was also collected of the groundwater pumped from the UST pit, and TPHg and BTEX were not detected. Approximately 162 cubic yards of soil and 7,800 gallons of groundwater were removed and disposed offsite during the work. The investigation results were presented in G-R's April 10, 1997 *Soil Sampling During Product Dispenser Replacement at Chevron Service Station* #9-9029.

2000 Subsurface Investigation

In October 2000, G-R advanced exploratory borings B-1 through B-10 to depths of 16.5 to 19 fbg. Soil samples were collected from each boring at depths of 6 and 11 fbg and analyzed for TPHg, BTEX, and MTBE. The soil samples collected from boring B-4 located adjacent to the former used-oil UST were additionally analyzed for oil and grease (O&G), TPH as diesel (TPHd), volatile organic compounds (VOCs), semi-VOCs, and the metals cadmium, chromium, lead, nickel, and zinc. The soil samples collected from boring B-2 located near the former hydraulic hoists were additionally analyzed for TPH as hydraulic oil (TPHho). TPHg (up to 930 mg/kg), BTEX (up to 100 mg/kg),

and/or MTBE (up to 13 mg/kg) were only detected in one or both of the soil samples collected from borings B-1, B-2, B-3, B-9, and B-10. TPHho was not detected in the soil samples collected from boring B-2; and O&G, TPHd, VOCs, and semi-VOCs were not detected in the soil samples collected from boring B-4. Grab-groundwater samples were also collected from each boring except B-9. TPHg (ranging from 500 to 33,000 micrograms per liter [μ g/L]) and BTEX (ranging from 4.2 to 7,500 μ g/L) were only detected in the groundwater samples collected from borings B-1, B-3, B-7, and B-10. MTBE was detected in all the groundwater samples at concentrations ranging from 34 (B-6) to 820 μ g/L (B-1). TPHd was detected in the groundwater sample collected from boring B-4 at 170 μ g/L; O&G, VOCs, and semi-VOCs were not detected. TPHho was not detected in the groundwater sample collected from boring B-2. Details of this investigation were presented in G-R's October 31, 2000 *Environmental Investigation Report*.

2002 Monitoring Well Installations

In March 2002, Delta Environmental Consultants, Inc. (Delta) installed monitoring wells MW-1 through MW-4 at the site. A total of 11 soil samples were collected at various depths from the well borings and analyzed for TPHg, BTEX, and MTBE. TPHg, BTEX, and MTBE were not detected in the soil samples collected from borings MW-1 and MW-2. TPHg (up to 240 mg/kg) and BTEX (up to 3.7 mg/kg) were detected in several of the soil samples collected at 4 fbg from borings MW-3 and MW-4. MTBE was only detected in the sample collected at 4 fbg from boring MW-4 (0.23 mg/kg). Details of this investigation were presented in Delta's April 30, 2002 *Monitoring Well Installation Report*.

2005 Station Demolition

In April 2005, the station was demolished including the removal of all USTs, dispenser islands, and associated piping. Cambria Environmental Technology, Inc. (Cambria [now CRA]) collected soil samples EX-1 through EX-5 at 10 fbg from the sidewalls of the gasoline UST excavation. TPHg, BTEX, and MTBE generally were not detected in the five samples with the exception of TPHg (1.8 mg/kg) and toluene (0.0095 mg/kg) in sample EX-2. Soil samples EX-6 through EX-22 were collected at 3.5 fbg beneath the dispensers and product piping; TPHg (up to 370 mg/kg), BTEX (up to 0.61 mg/kg), and MTBE (0.37 mg/kg) were detected in one or several of the samples. Subsequently, the majority of the site was over-excavated to a depth of 12 fbg. Cambria collected 41 confirmation soil samples from the bottom and sidewalls of the excavation. The TPHg concentrations in the final bottom samples were well below the cleanup goal of 100 mg/kg. The TPHg concentrations in three sidewall samples (up to 450 mg/kg) exceeded the cleanup goal. Low concentrations of benzene and MTBE were also detected in several of the bottom and sidewall samples. Approximately 5,134 tons of soil and 25,486 gallons of groundwater were removed and disposed offsite during the work. Details of this investigations were presented in Cambria's June 17, 2005 Underground Storage Tank/Product Piping Removal and Compliance Sampling Report, and July 6, 2005 Remedial Excavation Report.

2006 Subsurface Investigation

In March 2006, Cambria advanced offsite exploratory borings SB-1 through SB-7 and onsite exploratory borings SB-8 and SB-9. Two grab-groundwater samples were

collected from each boring, except SB-4 and SB-7, at first encountered groundwater and approximately 10 to 15 feet deeper and analyzed for TPHg, BTEX, fuel oxygenates, 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB). TPHg (up to 2,700 μ g/L), BTEX (up to 170 μ g/L), and/or MTBE (up to 210 μ g/L) were detected in one or more of the samples collected from all the borings. Other fuel oxygenates, 1,2-DCA, and EDB were not detected in any of the samples. Additional details of this investigation were presented in Cambria's May 25, 2006 *Subsurface Investigation Report*.

2006 Well Destructions

In September 2006, Cambria supervised the destruction of wells MW-1 through MW-4 to facilitate site redevelopment. Additional details were presented in Cambria's October 13, 2006 *Well Destruction Report*.

2008 Well Installations

In July 2008, CRA installed offsite monitoring wells MW-5 through MW-8. Soil samples were collected approximately every 5 feet from the well borings, from 5 to 25 fbg and analyzed for TPHg, BTEX, fuel oxygenates, and 1,2-DCA. TPHg (up to 260 mg/kg) was only detected in two or three of the samples collected from borings MW-5, MW-6 and MW-7. Benzene (up to 0.21 mg/kg) was only detected in a few of the samples collected from borings MW-6 and MW-7. MTBE (up to 0.07 mg/kg) was detected in the majority of the samples collected from borings MW-6 and MW-7. MTBE (up to 0.07 mg/kg) was detected in the majority of the samples collected from borings MW-6. Other fuel oxygenates and 1,2-DCA generally were not detected in any of the soil samples. Additional details of this investigation were presented in CRA's November 18, 2008 *Well Installation Report*.

ATTACHMENT B

DRILLING PERMITS AND BORING LOG

Alameda County Public Works Agency - Water Resources Well Permit

PUBLIC	399 Elmhurst Street Hayward, CA 94544-139 Telephone: (510)670-6633 Fax:(5	95 10)782-1939			
Application Approved	l on: 12/09/2010 By jamesy	Permits Val	Permit Numbers id from 01/04/2011	: W2010-0999 to 01/04/2011	
Application Id:	1291923317690	City of Pro	ject Site:Oakland		
Project Start Date: Assigned Inspector:	01/04/2011 Contact Steve Miller at (510) 670-5517 or steve	Completion Date:01/04/2011 vem@acpwa.org			
Applicant:	Conestoga-Rovers - Chris Benedict	CA 05670	Phone: 916-889-8	900	
Property Owner:	Stephen D'Kane WestMal LLC	, CA 95070	Phone:		
Client:	Chevron Gas 6001 Bollinger Canyon Rd, San Ramon, CA 94	612	Phone:		
	Receipt Number: WR2010-0423 Payer Name : Conestoga-Rovers	Total Due: Total Amount Paid By: CHE(Paid:	\$265.00 <u>\$265.00</u> PAID IN FULL	
Works Requesting Pe	rmits:				

Borehole(s) for Investigation-Environmental/Monitorinig Study - 2 Boreholes Driller: Penecore - Lic #: 906899 - Method: other

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2010-	12/09/2010	04/04/2011	2	2.50 in.	25.00 ft
0999					

Specific Work Permit Conditions

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

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

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

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

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. 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

Alameda County Public Works Agency - Water Resources Well Permit

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.





CITY OF OAKLAND • Community and Economic Development Agency 250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Permit No. X1001618 Parcel #: 012 -0959-021-01 Project Address: 880 W MACARTHUR BL Page 2 of 2

Licensed Contractors' Declaration I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender

Address

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: _____POLICY NO. k for which this permit is issued, I [] I certify that in the performance subject to the workers' shall not employ any person in any ma should become subject to the compensation laws of California, and agree that code / I shall forthwith workers' compensation provisions Sec comply with those provisions. COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL WARNING: FAILURE TO SECURE WORKERS SUBJECT AN EMPLOYER TO CRIMINAL BENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY FEES Hazardous Materials Declaration I hereby affirm that the intended occupancy / / WILL [] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.) I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authonized by the owner and to perform the work authorized by this permit.

PRINT NAME

ADDRESS

DIST

Signature [] Contractor, or [] Agent

Date

CITY OF OAKLAND Community & Economic Development Agency 250 Frank H. Ogawa Pl, Oakland CA, 94612 Phone: (510)238-4774 FAX: (510)238-2263

PAYMENT RECEIPT

Application#: OB100734 Payme	nt#: 001
APPLICATION FEE	\$71.00
OBSTRUCTION PERMIT	\$120.50
RECORDS MANAGEMENT FEE (\$18.19
TECHNOLOGY ENHANCEMENT FE	\$10.05
Subtotal:	\$219.74
Application#: X1001618 Paymen	nt#: 001
APPLICATION FEE	\$71.00
EXCAVATION PERMIT	\$309.00
RECORDS MANAGEMENT FEE	\$36.10
TECHNOLOGY ENHANCEMENT FE	\$19.95
Subtotal:	\$436.05
Sales Tax:	\$.00
****** TOTAL PAID:	\$655.79
Check Payment:	\$655.79
Payor: CONESTOGA-ROVERS & ASSC Date: 12/17/10 Time: 11:42:21 By: MKH Register RO2 Receip	ot# 145365



Conestoga-Rovers & Associates 10969 Trade Center Drive, Suite 107 Rancho Cordova, CA 95670 Telephone: (916) 889-8900 Fax: (916) 889-8999

SM

ML

SB-10 -9.5

SB-10 -14

BORING/WELL LOG

Portland I/II

11.0

_____15.0

CLIENT JOB/SIT LOCATI PROJEC DRILLE DRILLE BORING LOGGE REVIEW	NAME TE NAME ION CT NUMI R NG METH G DIAME D BY _ VED BY_	IAME Chevron Environmental Management Co. NAME Former Chevron 9-2029 N 890 West MacArthur Boulevard, Oakland, CA r NUMBER 611974 PeneCore Drilling S METHOD Direct push - continuous core - Hand Auger to 5' DIAMETER 2 inches BY N. Allen ED BY J. Kiernan, PE# C68498						BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT D GROUND SURFACE ELE TOP OF CASING ELEVA SCREENED INTERVAL DEPTH TO WATER (First DEPTH TO WATER (Stati	SB-10 04-Jan-11 04-Jan-11 ATE (YIELD) VATION FION Not Sur NA Encountered c)	NA Not S veyed d) 15. NA	urveyed 0 fbg (04-Jan-11)
REMAR	ks _		Borii	ng locat	ed sou	thwest	of site, 10 south of com	mercial property boundary.			
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHO	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		SB-10 -{		 - 5 	CL CL GM		CONCRETE CLAY Grayish olive; CLAY Pale yellowish CLAY Pale yellowish Silty GRAVEL with moist; low plasticity. Silty SAND with gr moderate plasticity;	moist; high plasticity. n brown; moist; high plasticity <u>san</u> dModerate yellowish browr fine sand.	v. wn;	0.7 4.0 6.5 7.5	Concrete

SILT Light brown; moist; low plasticity.

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\61----\6119--\611974\9-2029 BORING LOGS.GPJ DEFAULT.GDT 2/9/11

0.0

0.0

0.0

ATTACHMENT C

STANDARD FIELD PROCEDURES

STANDARD FIELD PROCEDURES FOR GEOPROBE[®] SOIL AND GROUNDWATER SAMPLING

This document describes Conestoga-Rovers & Associates standard field methods for GeoProbe[®] soil and ground water sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

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

Soil Classification/Logging

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

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

Soil Sampling

GeoProbe[®] soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

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

Sample Storage, Handling and Transport

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

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech[®] or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon[®] tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Discrete Depth Soil and Ground Water Sampling

Soil and groundwater samples are collected for lithologic and chemical analysis using a direct driven, dual tube soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. Two nested sampling rods are driven at the same time: a larger diameter outer rod to act as a temporary drive casing and a smaller inner rod to retrieve soil cores. As the rods are advanced the soil is driven into a sample barrel that is attached to the end of the inner rod. The outer rod ensures that the sample is collected from the desired interval by preventing sloughing of the overlying material. After reaching the desired depth the inner rods are removed from the boring and the sleeves containing the soil sample are removed from the inner sample barrel. Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon[®] tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

When collecting groundwater samples, the sample barrel and inner rods are removed from the boring once the targeted water bearing zone has been reached. The drive casing is pulled up from 0.5 to 5 feet to allow groundwater to enter the borehole. Small diameter well casing and screen is then installed in the borehole to facilitate sample collection. The drive casing is then pulled up sufficiently to expose the desired length of screen and samples are collected using a bailer, peristaltic, bladder or inertial pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

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

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS





ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

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

January 11, 2011

Project: 92029

Submittal Date: 01/06/2011 Group Number: 1228042 PO Number: 92029 Release Number: MTI State of Sample Origin: CA

<u>Client Sample Description</u> SB-10-S-5-110104 Grab Soil SB-10-S-9.5-110104 Grab Soil SB-10-S-14.5-110104 Grab Soil SB-10-S-19.5-110104 Grab Soil Lancaster Labs (LLI) # 6178780 6178781 6178782 6178783

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

ELECTRONIC Chevron c/o CRA COPY TO ELECTRONIC Chevron c/o CRA COPY TO Attn: CRA EDD

Attn: James Kiernan





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

Respectfully Submitted,

Roh Chi-

Robin C. Runkle Senior Specialist





Page 1 of 1

Sample Description: SB-10-S-5-110104 Grab Soil LLI Sample # SW 6178780 Facility# 92029 CRAW LLI Group # 1228042 890 W Macarthur-Oakland T0600173887 SB-10 Account # 11997

Project Name: 92029

Collected:	01/04/2011	14:30	by NA	Chevron c/o CRA
				Suite 107
Submitted:	01/06/2011	08:50		10969 Trade Center Drive
Reported:	01/11/2011	14:46		Rancho Cordova CA 95670

1SB10

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles SV	N-846	8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene		71-43-2	N.D.	0.0005	0.005	1.03
10950	Ethylbenzene		100-41-4	N.D.	0.001	0.005	1.03
10950	Methyl Tertiary Butyl	Ether	1634-04-4	N.D.	0.0005	0.005	1.03
10950	Toluene		108-88-3	N.D.	0.001	0.005	1.03
10950	Xylene (Total)		1330-20-7	N.D.	0.001	0.005	1.03
GC Vol	latiles SV	W-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	25.43

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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B110102AA	01/10/2011	20:44	Chelsea B Eastep	1.03
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:19	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11006A34B	01/07/2011	17:08	Marie D John	25.43
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201100723461	01/07/2011	09:19	Larry E Bevins	n.a.





Page 1 of 1

Sample Description: SB-10-S-9.5-110104 Grab Soil LLI Sample # SW 6178781 Facility# 92029 CRAW LLI Group # 1228042 890 W Macarthur-Oakland T0600173887 SB-10 Account # 11997

Project Name: 92029

Collected:	01/04/2011	14:40	by NA	Chevron c/o CRA
				Suite 107
Submitted:	01/06/2011	08:50		10969 Trade Center Drive
Reported:	01/11/2011	14:46		Rancho Cordova CA 95670

2SB10

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	1-846	8260B	mg/kg	mg/kg	mg/kg	
10950	Benzene		71-43-2	N.D.	0.0005	0.005	0.99
10950	Ethylbenzene		100-41-4	N.D.	0.001	0.005	0.99
10950	Methyl Tertiary Butyl 1	Ether	1634-04-4	N.D.	0.0005	0.005	0.99
10950	Toluene		108-88-3	N.D.	0.001	0.005	0.99
10950	Xylene (Total)		1330-20-7	N.D.	0.001	0.005	0.99
GC Vol	latiles SW	1-846	8015B modified	mg/kg	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.	1	1	24.93

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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B110102AA	01/10/2011	21:06	Chelsea B Eastep	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:22	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11006A34B	01/07/2011	17:44	Marie D John	24.93
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201100723461	01/07/2011	09:23	Larry E Bevins	n.a.





Page 1 of 1

Sample Description: SB-10-S-14.5-110104 Grab Soil LLI Sample # SW 6178782 Facility# 92029 CRAW LLI Group # 1228042 890 W Macarthur-Oakland T0600173887 SB-10 Account # 11997

Project Name: 92029

Collected:	01/04/2011	15:40	by NA	Chevron c/o CRA
				Suite 107
Submitted:	01/06/2011	08:50		10969 Trade Center Drive
Reported:	01/11/2011	14:46		Rancho Cordova CA 95670

3SB10

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	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	N.D.	0.001	0.005	1
GC Vol	Latiles 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	25.64

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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B110102AA	01/10/2011	21:28	Chelsea B Eastep	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:26	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11006A34B	01/07/2011	18:20	Marie D John	25.64
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201100723461	01/07/2011	09:27	Larry E Bevins	n.a.





Page 1 of 1

Sample Description: SB-10-S-19.5-110104 Grab Soil LLI Sample # SW 6178783 Facility# 92029 CRAW LLI Group # 1228042 890 W Macarthur-Oakland T0600173887 SB-10 Account # 11997

Project Name: 92029

Collected:	01/04/2011	15:45	by NA	Chevron c/o CRA
				Suite 107
Submitted:	01/06/2011	08:50		10969 Trade Center Drive
Reported:	01/11/2011	14:46		Rancho Cordova CA 95670

4SB10

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	0.0005	0.005	0.95
10950	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.95
10950	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.005	0.95
10950	Toluene	108-88-3	0.002	0.001	0.005	0.95
10950	Xylene (Total)	1330-20-7	N.D.	0.001	0.005	0.95
GC Vol	atiles 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	25.69

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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10950	BTEX/MTBE 8260 Soil	SW-846 8260B	1	B110102AA	01/10/2011	21:51	Chelsea B Eastep	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	201100723461	01/07/2011	09:32	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201100723461	01/07/2011	09:29	Larry E Bevins	n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	11006A34B	01/07/2011	18:57	Marie D John	25.69
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201100723461	01/07/2011	09:31	Larry E Bevins	n.a.



Analysis Report

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

Page 1 of 2

Quality Control Summary

Client Name: Chevron c/o CRA

Group Number: 1228042

Reported: 01/11/11 at 02:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL**</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B110102AA	Sample numb	per(s): 61	78780-617	8783					
Benzene	N.D.	0.0005	0.005	mg/kg	100	104	80-120	3	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	91	97	80-120	6	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	0.005	mg/kg	95	96	74-121	2	30
Toluene	N.D.	0.001	0.005	mg/kg	95	101	80-120	7	30
Xylene (Total)	N.D.	0.001	0.005	mg/kg	93	98	80-120	5	30
Batch number: 11006A34B	Sample numb	per(s): 61	78780-617	8783					
TPH-GRO N. CA soil C6-C12	N.D.	1.0	1.0	mg/kg	97	95	67-119	2	30

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, B11010214	Sample	number (g) • 6178780	-61787	83 IING	DK. D17935	1		
Pongono	101	maniber (b	, 01/0/00	, 01,0,	05 01051		-		
Delizelle	101		22-142						
Ethylbenzene	86		44-141						
Methyl Tertiary Butyl Ether	84		55-129						
Toluene	96		50-146						
Xylene (Total)	87		44-136						

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: B110102AA									
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene					
6178780	110	104	95	87					
6178781	109	103	95	87					
6178782	111	107	94	88					
6178783	110	107	94	91					
Blank	104	100	94	90					
LCS	100	103	98	100					
LCSD	100	101	98	100					

*- 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.



Analysis Report

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

Page 2 of 2

Quality Control Summary

Client Reporte	Name: Chevron d: 01/11/11 at	c/o CRA 2 02:46 PM	Group Number: 1228042					
MC	1.0.1	100	Surrogate Q	uality	Control			
143	101	100	101	99				
Limits:	71-114	70-109	70-123	70-111				
Analysis Batch num	Name: TPH-GRO N. nber: 11006A34B Trifluorotoluene-F	CA soil C6-C12						
6178780	88							
6178781	85							
6178782	86							
6178783	84							
Blank	89							
LCS	88							
LCSD	84							
Limits:	61-122							

*- 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

Lancaster Laboratories	Ac	xct. #:	<u></u>	99	2	_ Sa	F ample	or L e #:	ancas 6[ter L 7 <i>8</i> *	abora 7 <i>8°</i> 0	tories - 8	use 3	only	SCR#:	24	8613
							A	nal	/ses l	Requ	leste	d		Γ	1228	.04	2
Facility #: 9-2029	<u>.</u>						F	Pres	ervati	on (Code	5			Preserva	tive Cod	es
Site Address: 890 W. MACARTHUR ENGINO, OLKLAND, LA						đ					_				H = HCI N = HNO3	T = Thio B = NaC	sultate H
Chevron PM: Load Consultant: CRA			ý			Clean									S = H ₂ SO ₄	O = Othe	er
Consultant/Office: CRA PARCHE CORDONA			ainer	Ē		a Gel									J value report	ing neede	d Nam linaita
Consultant Prj. Mgr.: JAMES KIERNAN			Conta	1 802											possible for 8	260 comp	ounds
Consultant Phone #: (916) 889-8917 Fax #:(916) 889-8999			ofo	X. 192	зко	D D									8021 MTBE Cor	firmation	
Sampler: N Aues		e	nber	щ 83	ao	1 0 00	_	nates	74						Confirm highe	st hit by 8	260
Service Order #: Non SAR:		posit	Σn	ATE	15 M	15 M	III sca	Dxyge	420							s by 8260 's on high	est hit
Field Repeat Top Time New	Grab		Fotal	TEX.	PH 80	PH 80	260 fu		ead 7						[] Run oxy	's on all h	its
SR - 10 - S Soil S 2011 A 2:30		Ħ	l	X	X		80	1		+					Comments / F	Remarks	
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Turnaround Time Requested (TAT) (please circle)	all	/		!	I		Date		Time	R	eceive	d by:	i	I	<u></u>	Date	Time
STD. TAT 72 hour 48 hour Relinquished by:		•					Date	1	Time	R	eceive	d by:				Date	Time
24 hour 4 day 5 day						_		-	.	+							
Data Package Options (please circle if required)							Pate		Time	- ^ĸ	eceive	d by:				Date	1 ime
QC Summary Type 1 – Full Type VI (Raw Data) Coelt Deliverable not needed Relinquished by C	Commercia	al Carr	rier:							R	eceive	d by: ,	11			Date	Time
WIP (RWQCB)	ikx)	Otl	her_								<u>Ha</u>	M	\mathcal{N}		1/	4/11	850
Disk Temperature Upor	on Receipt		<u>,)</u>		°.					C	ustod	Seals	Inta	ct?	(Yes) No		

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 3460 Rev. 10/04/01

Explanation of Symbols and Abbreviations

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

RL N.D. TNTC IU	Reporting Limit none detected Too Numerous To Count International Units	BMQL MPN CP Units NTU	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
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- **S** Method of standard additions (MSA) used for calculation
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- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

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

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

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

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

January 12, 2011

Project: 92029

Submittal Date: 01/06/2011 Group Number: 1228041 PO Number: 92029 Release Number: MTI State of Sample Origin: CA

<u>Client Sample Description</u> SB-10-W-110104 Grab Water Lancaster Labs (LLI) # 6178778

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

ELECTRONIC Chevron c/o CRA COPY TO ELECTRONIC Chevron c/o CRA COPY TO Attn: CRA EDD

Attn: James Kiernan





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

Respectfully Submitted,

Roh Chi-

Robin C. Runkle Senior Specialist





Page 1 of 1

Sample Description:	SB-10-W-110104 Grab Water	LLI	Sample	#	ww	617877	8
	Facility# 92029 CRAW	LLI	Group	#	122	8041	
	890 W Macarthur-Oakland T0600173887 SB-10	Acco	ount	#	119	97	

Project Name: 92029

Collected:	01/04/2011	16:25	by NA	Chevron c/o CRA
				Suite 107
Submitted:	01/06/2011	08:50		10969 Trade Center Drive
Reported:	01/12/2011	15:48		Rancho Cordova CA 95670

SB10-

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	ug/l	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	4	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Vol	atiles SW-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

General Sample Comments

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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P110104AA	01/11/2011 01:29	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110104AA	01/11/2011 01:29	Sara E Johnson	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11010A20A	01/10/2011 21:47	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11010A20A	01/10/2011 21:47	Tyler O Griffin	1



Analysis Report

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Page 1 of 2

Quality Control Summary

Group Number: 1228041

Client Name: Chevron c/o CRA Reported: 01/12/11 at 03:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL**</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: P110104AA	Sample num	nber(s): 6	5178778						
Benzene	N.D.	0.5	1	ug/l	100		79-120		
Ethylbenzene	N.D.	0.5	1	ug/l	99		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	98		76-120		
Toluene	N.D.	0.5	1	ug/l	101		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	101		80-120		
Batch number: 11010A20A	Sample num	nber(s): 6	5178778						
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	109	109	75-135	0	30

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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	MAX	<u>Conc</u>	Conc	<u>RPD</u>	<u>Max</u>
Batch number: P110104AA	Sample	number(s)	: 6178778	UNSPK:	P1788	06			
Benzene	108	108	80-126	0	30				
Ethylbenzene	104	103	71-134	1	30				
Methyl Tertiary Butyl Ether	99	98	72-126	0	30				
Toluene	105	104	80-125	1	30				
Xylene (Total)	105	105	79-125	0	30				

Surrogate Quality Control

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

Analysis Batch nu	Name: UST VOCs by mber: P110104AA	8260B - Water		
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6178778	97	100	105	91
Blank	98	103	100	90
LCS	97	101	101	94
MS	97	106	100	93
MSD	97	105	99	93
Limits:	80-116	77-113	80-113	78-113

*- 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.



Analysis Report

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Page 2 of 2

Quality Control Summary

Client Name: Chevron c/o CRA Reported: 01/12/11 at 03:48 PM Group Number: 1228041

Surrogate Quality Control

Analysis Name: TPH-GRO N. CA water C6-C12 Batch number: 11010A20A Trifluorotoluene-F

6178778 Blank LCS LCSD	97 96 111 118					
Limits:	63-135	 	 	 	 	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

^{**-}This limit was used in the evaluation of the final result for the blank

Chevron California Region Analysis Request/Chain of Custody

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 3460 Rev. 10/04/01

Explanation of Symbols and Abbreviations

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

RL N.D. TNTC IU	Reporting Limit none detected Too Numerous To Count International Units	BMQL MPN CP Units NTU	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	liter(s)
m3	cubic meter(s)	ul	microliter(s)

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- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
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