Chevron

Thomas K. Bauhs
Project Manager
Retail and Terminal
Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-8898
Fax (925) 842-8370

September 11, 2007
(date)

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

Re: Chevron Facility # 9-2506

Address: 2630 Broadway, Oakland, California

I have reviewed the attached report titled Subsurface Investigation Report and dated September 11, 2007.

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,

Thomas K. Bauhs
Project Manager

Enclosure: Report

CONESTOGA-ROVERS
& ASSOCIATES

2000 Opportunity Dr, Suite 110, Roseville, California 95678
Telephone: 916-677-3407, ext. 100 Facsimile: 916-677-3687
www.CRAworld.com

September 11, 2007

Ms. Donna Drogos
Alameda County Health Care Services (ACHCS)
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Subsurface Investigation Report**
Chevron Service Station # 9-2506
2630 Broadway
Oakland, California

Dear Ms. Drogos:

On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers & Associates (CRA) has prepared this *Subsurface Investigation Report* for the site referenced above. The work was performed in accordance with the Cambria Environmental Technology, Inc. *Workplan for Additional Investigation*, dated September 28, 2006 and approved by the Alameda County Health Care Services (ACHCS) in a letter dated October 16, 2006 (Attachment A). CRA advanced soil borings B-13 through B-21 to further define the extent of petroleum hydrocarbons in soil and groundwater. The site background, details of the investigation, and CRA's conclusions and recommendations are presented below.

SITE DESCRIPTION AND BACKGROUND

The site is located on the southeast corner of Broadway and 27th Street in Oakland, California (Figure 1). The site is surrounded by commercial properties and was previously occupied by a Chevron service station renovated in 1993. During the renovation activities, three 10,000-gallon underground storage tanks (USTs) and associated underground product piping were removed from the site and replaced with new fiberglass tanks and lines. A 1,000-gallon single wall fiberglass used-oil tank, located just east of the former station building; one of the two dispenser islands located north of the former station building; and two semi-hydraulic hoists located in the service bays of the former station were permanently removed from the property (Figure 2).

Previous Investigations

1982 Leak Detection and Tank Removal: Early in 1982, a leak was detected in the UST system located on the northwestern corner of the site. In response to this leak, the UST system was replaced with new fiberglass tanks. Details are provided in RESNA's December 1, 1994 *Environmental Assessment Report.*

***1982 Monitoring Wells Installation*:** In March 1982, J.H. Kleinfelder & Associates installed eight groundwater monitoring wells (B-1 through B-8) to assess whether soil and groundwater were impacted by petroleum hydrocarbons (J.H. Kleinfelder & Associates, March 1982).

1982-1983 SPH Removal: From August 1982 to February 1983, separate-phase hydrocarbons (SPH) were removed from well B-4 on a weekly basis. SPH removal was discontinued when it was no longer observed to recharge into the well.

1993 UST Leak Detection: On September 8, 1993, a leak was detected in the mid-grade product line located to the east of the USTs. The product line was repaired on September 9, 1993. According to the dealer's inventory records, the estimated loss was approximately 20 gallons or less (Chevron, October 1993).

1993 Groundwater Monitoring Wells Sampling: On September 9, 1993, Sierra Environmental Services (SES) sampled eight groundwater monitoring wells and two tank backfill wells. The results were analyzed for total petroleum hydrocarbon constituents. The highest concentrations of total petroleum hydrocarbon as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) were 110,000, 3,200, 16,000, 6,300, and 25,000 micrograms per liter (µg/L), respectively. Groundwater samples were not analyzed for methyl tertiary-butyl ether (MTBE). Details are provided in SES's October 1, 1993 *Groundwater Sampling Report.*

1994 Monitoring Well Installation: On July 26 and 27, 1994, four soil borings were drilled and converted to groundwater monitoring wells B-9 through B-12. Details are provided in RESNA's December 1, 1994 *Environmental Assessment Report.*

1998 USTs and Product Piping Removal and Sampling: On March 10, 1998, three fuel USTs, all associated product piping, and one used-oil tank were removed from the site. No holes were observed in the fuel USTs or product piping and vent lines. Groundwater was encountered in the excavation at approximately 11 feet below grade (fbg). After removal of the fuel USTs, approximately 4,000 gallons of groundwater/product mixture in the tank excavation were pumped out for disposal. Two soil samples were collected at approximately 10.5 fbg from each of the four sidewalls. The highest concentrations of TPHg and benzene were 340 and 0.44 milligrams per kilogram (mg/kg), respectively. The highest concentrations of MTBE and lead were 1.7 and 6.3 mg/kg, respectively. Soil samples collected beneath the product dispensers and piping contained TPHg and benzene at 1,200 and 1.4 mg/kg, respectively. The highest concentrations of MTBE and lead were 8 and 5,000 mg/kg, respectively. Maximum total petroleum hydrocarbons as diesel (TPHd) were 4.8 mg/kg. Low concentrations of MTBE (0.11 mg/kg) were detected underneath the former used-oil UST. Details are provided in Touchstone Developments' June 12, 1998 *UST and Product Piping Removal and Sampling Report.*

1998 Dispenser Areas and Former Used Oil Tank Excavation: On November 19, 1998, Musco Excavators excavated approximately 160 cubic yards of soil in the vicinity of the former dispenser islands and former used oil tank. Soil was excavated to approximately 9 fbg when groundwater was encountered. The highest concentrations of TPHg and MTBE in soil were 1,190 mg/kg and 0.64 mg/kg, respectively. No benzene was detected. The former used-oil tank area was over-excavated to remove any possible hydrocarbon-impacted soil. No TPHg, BTEX, or MTBE was detected in soil samples collected from the former used-oil tank pit after over-excavation. The highest concentration of lead was 1,790 mg/kg. High concentrations of lead found in the former used-oil tank excavation are related to the mixture of fill material used during the hospital demolition and are unrelated to the former service station activities. Details are provided in Touchstone Developments' March 24, 1999 *Soil Overexcavation/Remediation Report.*

2000 ORC Installation: On September 15, 1999, Blaine Tech Services, Inc. conducted an Interim Remedial Action (IRA) to the locally-impacted native soils and groundwater by injecting Oxygen Releasing Compounds (ORCs) into wells B-1, B-3, B-5, B-6, B-7, and B-9 in order to remediate constitutes of concern.

INVESTIGATION RESULTS

The objective of this investigation was to further define the extent of petroleum hydrocarbons in soil and groundwater. To meet this objective, CRA advanced on-site soil borings B-13, B-14, and B-21 and off-site soil borings B-15 through B-20. CRA collected soil and grab-groundwater samples from the borings, where possible. Soil borings B-13, B-15, and B-16 were unable to be cleared or completed due to a concrete slab encountered between 4 and 6 fbg. Summarized below are the results of CRA's June 2007 subsurface investigation. Cumulative analytical results of soil are summarized in Table 1. Analytical results of grab-groundwater samples are summarized in Table 2. Cumulative well and soil boring construction details are summarized in Table 3.

In the ACHCS's October 16, 2006 letter, the agency asked about the status of monitoring well B-2 and tank pit wells TP-1 and TP-2. The three wells could not be located during a search of the area where the wells were believed to be located. TP-1 and TP-2 were likely destroyed during tank pit removal and excavation, although no well destruction documentation has been found. B-2 was also possibly destroyed during UST over-excavation activities.

Soil Boring

Permits: ACHCS permit number W2006-0949 and City of Oakland encroachment permits X0700453 and X0700454 are included as Attachment B.

Drilling Dates: On June 4, 2007, soil borings B-13, B-15, and B-16 were cleared to depths between 4 and 6 fbg using an air knife but were unable to be completed due to a concrete slab encountered at those depths. Soil borings B-17, B-18, B-19, and B-20 were advanced on June 6, 2007. Soil borings B-14 and B-21 were advanced on June 7, 2007.

Drilling Company: Gregg Drilling and Testing, Inc. of Martinez, CA (C-57 Lic. # 485165).

Sampling Personnel: Staff Scientists John Bostick and Ben Summerset performed the fieldwork under the supervision of Professional Geologist Brian Carey (P.G. #7820).

Drilling Method: The first 8 feet of the borings were cleared using an air-knife. Refusal due to a concrete slab was encountered at 4.9 fbg in boring B-13, at 4 fbg in boring B-15, and at 6 fbg in boring B-16. The remaining borings were subsequently advanced to total depths between 21 and 36 fbg using direct push technology.

Soil Sampling: Soil samples were collected at every 5 feet, beginning at 5 fbg. Because Chevron and CRA safety protocols require the first 8 feet to be hand cleared for underground utilities, the 5 fbg sample was collected by driving a brass tube into disturbed sediments. Samples below 5 feet were collected by driving a 4-foot rod lined with a 4-foot Macroliner into undisturbed sediments. All samples were capped using Teflon tape and plastic caps, labeled, placed in a cooler with ice, and transported under chain of custody to a Chevron-approved laboratory. Table 1 summarizes the soil analytical data. The boring logs are included as Attachment C.

Soil Screening: Soil samples were screened using a photo-ionization detector (PID).

Depth to Groundwater: Groundwater was initially encountered at approximately 10 fbg in boring B-14 and B-21, 28 fbg in B-17 and B-18, at 17 fbg in B-19, and at 25 fbg in B-20.

Groundwater Sampling: On June 6, 2007, CRA collected grab-groundwater samples from B-17 through B-20 and on June 7, 2007, CRA collected a grab groundwater sample from B-14 using disposable bailers.

Laboratory Analyses: Selected soil samples and grab groundwater samples were analyzed by Lancaster Laboratories for:

- TPHg by EPA Method 8015M, and
- BTEX, MTBE, tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB) by EPA Method 8260B.

The analytical report for soil is presented as Attachment D. The analytical report for groundwater is presented as Attachment E.

Soil Disposal: Soil cuttings were stored on-site in a 55-gallon steel drum, sampled for disposal purposes, and removed from the site on July 3, 2007 by Integrated Waste Stream Management. The cuttings were transported to Newby Island Landfill in Milpitas, California. Laboratory analytical reports for the composite sample are included as Attachment D. CRA's Standard Field Procedures are presented as Attachment F.

Soil boring SB-1, proposed in the November 11, 2005 *Investigation Workplan (Revised)*, was never advanced. The proposed location of SB-1 is anticipated to be excavated during site reconstruction, thus removing residual soil contamination.

LITHOLOGY

Lithology observed during drilling consisted of fine sand to a depth of 13 fbg in boring B-14, underlain by layers of clay and sand to total depth (22 fbg). In borings B-17 and B-20, fine sand or clay with silt and sand were observed to approximately 11 fbg, underlain by a 1-foot layer of chert rock, with interbedded sandy clay, clay, sand, gravel, and silt layers to the total depths of the borings (25 and 30 fbg, respectively). Interbedded layers of sand, silty sand, and clay were observed in borings B-18 and B-19 to the total explored depths of 36 fbg and 21 fbg, respectively. In B-21, silty and clayey sand was observed to 20 fbg, underlain by clay to the total depth of 30.5 fbg. Boring logs are included as Attachment C.

HYDROCARBONS IN SOIL

Soil samples were collected and analyzed for petroleum hydrocarbon constituents from borings B-14 and B-17 through B-21. MTBE was detected in soil samples collected from boring B-14 at concentrations of 0.002 (5 fbg) and 0.001 mg/kg (22 fbg), and B-21 at 0.001 mg/kg (30 fbg). Toluene was detected in

boring B-21 at 0.001 mg/kg at 10 fbg. TPHg, benzene, ethylbenzene, xylenes, or oxygenates TBA, DIPE, TAME, ETBE, 1,2-DCA, or EDB were not detected above laboratory reporting limits in the soil samples analyzed.

Soil analytical data are summarized in Table 1. The laboratory analytical report for soil is presented as Attachment D. Locations of the borings are illustrated on Figure 2.

Previous soil samples collected at this site indicate that the hydrocarbon source is the former fuel USTs and product piping extending from the former UST complex to the former service islands located on the northwest corner of the property. Hydrocarbons in soil are laterally defined by soil samples collected from B-10 to the northwest, B-11 to the northeast, B-14 to the south, B-17 and B-18 to the southwest, and B-19 and B-20 to the west.

HYDROCARBONS IN GROUNDWATER

Grab-groundwater samples were collected from borings B-14 and B-17 through B-20 and analyzed for petroleum hydrocarbon constituents.

TPHg, BTEX, and oxygenates TAME, DIPE, ETBE, 1,2-DCA, and EDB were not detected above laboratory reporting limits in the grab-groundwater samples. MTBE was detected in B-14 and B-17 at concentrations of 1 µg/L and 2 µg/L, respectively. TBA was detected in B-14 and B-19 at concentrations of 14 µg/L and 3 µg/L, respectively. B-14, B-17, and B-19 are located south-southwest of the site, in an approximately down-gradient direction. Hydrocarbon concentrations detected in grab-groundwater samples from borings B-14 and B-17 through B-20 are summarized in Table 2. The laboratory analytical report for the groundwater samples is included as Attachment E.

SUBSURFACE UTILITY SURVEY

CRA contacted local public works agencies to confirm the locations of known utilities in Broadway and 26th Street adjacent to the site. CRA evaluated the depths of each utility trench to determine if it could potentially act as a preferential pathway for the migration of dissolved hydrocarbons. Figure 2 shows a plan view of the utilities, and Figures 3 and 4 show the utilities in cross-section view. The locations and depths of the water, storm drain, and sanitary sewer lines were provided by the East Bay Municipal Utility District (EBMUD).

Based on the location and depths of six utility trenches in Broadway, two sanitary sewer trenches were evaluated as preferential pathways. Depth to groundwater in this portion of the site has historically ranged between 8 and 12 fbg in well B-1. As shown in Figure 4, the depths of the two sanitary sewer line

trenches in Broadway are approximately 15 fbg, thus hydrocarbons dissolved in groundwater could come in contact with the more permeable trench backfill. Although it is possible that dissolved hydrocarbons have migrated into these trenches, the primary groundwater flow direction is typically parallel to these northeast-southwest trending trenches. CRA believes that due to the primary groundwater flow direction to the southwest parallel to the utility trenches beneath Broadway, the two 15-foot deep sanitary sewer trenches may have limited roles as preferential pathways, especially at the southwestern end of the trench near the intersection with 26th Street.

CRA also evaluated the utilities south of the site (downgradient) in 26th Street and the intersection of 26th and Broadway. As shown in Figure 3, the depths of the three water line trenches in the intersection are between 6 and 8 fbg. Depth to groundwater in the nearest monitoring well (B-9) has historically been between approximately 8 and 11 fbg. Since the bases of the utility trenches are slightly higher in elevation than the average groundwater elevation, it is unlikely the utility trenches would act as preferential pathways for the migration of hydrocarbons dissolved in groundwater.

CONCLUSIONS AND RECOMMENDATIONS

Analytical results of soil samples collected from soil borings B-14 and B-17 through B-21 indicate that the lateral extent of hydrocarbon contamination in soil is defined to the west by boring B-20 and to the south to southwest by B-17, B-18, and B-19. Soil contamination to the west and northeast is previously defined by wells B-10 and B-11, respectively. The lateral extent of contamination up-gradient to the east and southeast remains undefined.

Analytical results of grab-groundwater samples collected from borings B-14 and B-17 through B-20 indicate that the dissolved MTBE plume appears to extend south-southwest (down-gradient) to boring B-17. The groundwater sample collected from B-17 contained 1 µg/L MTBE. The dissolved plume is defined down-gradient to concentrations less than the California Secondary Maximum Contaminant Level (MCL) of 5 µg/L. Thus, additional assessment is not warranted. Also, none of the grab-groundwater samples collected from borings advanced on the west side of Broadway (B-18, B-19, and B-20) contained detectable concentrations of hydrocarbons. The dissolved-phase plume is laterally defined to the west and southwest of the source area by B-18, B-19, B-20, and to the northeast by monitoring well B-11. The lateral extent of the plume remains defined to the east by monitoring well B-8. Dissolved hydrocarbons remain undefined up-gradient to southeast.

CRA evaluated the locations and depths of utilities in Broadway and 26th Street adjacent to the site. The 7-foot depth of water utilities in the intersection of 26th and Broadway are not acting as preferential pathways for dissolved hydrocarbons downgradient of the site. Two 15-foot deep sanitary sewer utilities in Broadway, located cross gradient of the site, may have limited roles as preferential pathways. The

floors of the trenches are deeper than the average groundwater elevation; however, the groundwater flow direction is southeast, parallel to the direction of the utility trenches in Broadway.

Based on the results of this investigation and a review of recent groundwater concentrations in site-related monitoring wells, CRA believes that additional monitoring wells are not needed at this time. The dissolved hydrocarbon plume is laterally defined except to the east (up-gradient), where a site building and 27th Street prevent further assessment. Groundwater concentrations are declining in the site-related monitoring wells, and the groundwater samples collected from borings B-17 and B-18 show the down-gradient limits of the dissolved hydrocarbon plume. CRA will continue to monitor the concentrations and trends until the site is redeveloped, which is expected by the end of 2008. CRA expects much of the onsite residual contamination in soil will be excavated during the redevelopment, after which closure will be requested.

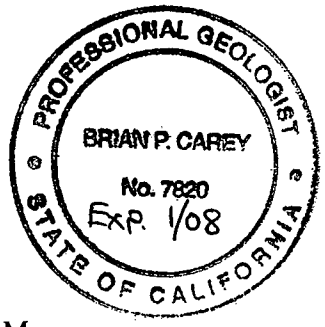
CLOSING

Please contact Brian Carey at (916) 677-3407 ext. 106 if you have any questions or comments regarding this investigation.

Sincerely,
Conestoga-Rovers & Associates

Jo'l Chapman
Staff Geologist

Brian Carey, P.G. # 7820
Project Geologist



Figures:
1 – Vicinity Map
2 – Site Plan with Utilities
3 – Geologic Cross Section A-A'
4 – Geologic Cross Section B-B'

Tables:
1 – Cumulative Analytical Results for Soil
2 – Analytical Results for Groundwater
3 – Well Construction Details

Attachments:
A – Regulatory Correspondence
B – Permits
C – Boring Logs
D – Analytical Soil Report
E – Analytical Groundwater Report
F – Standard Field Procedures for Soil Borings

cc: Mr. Tom Bauhs, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, K2236, San Ramon, CA 94583

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07/19/07

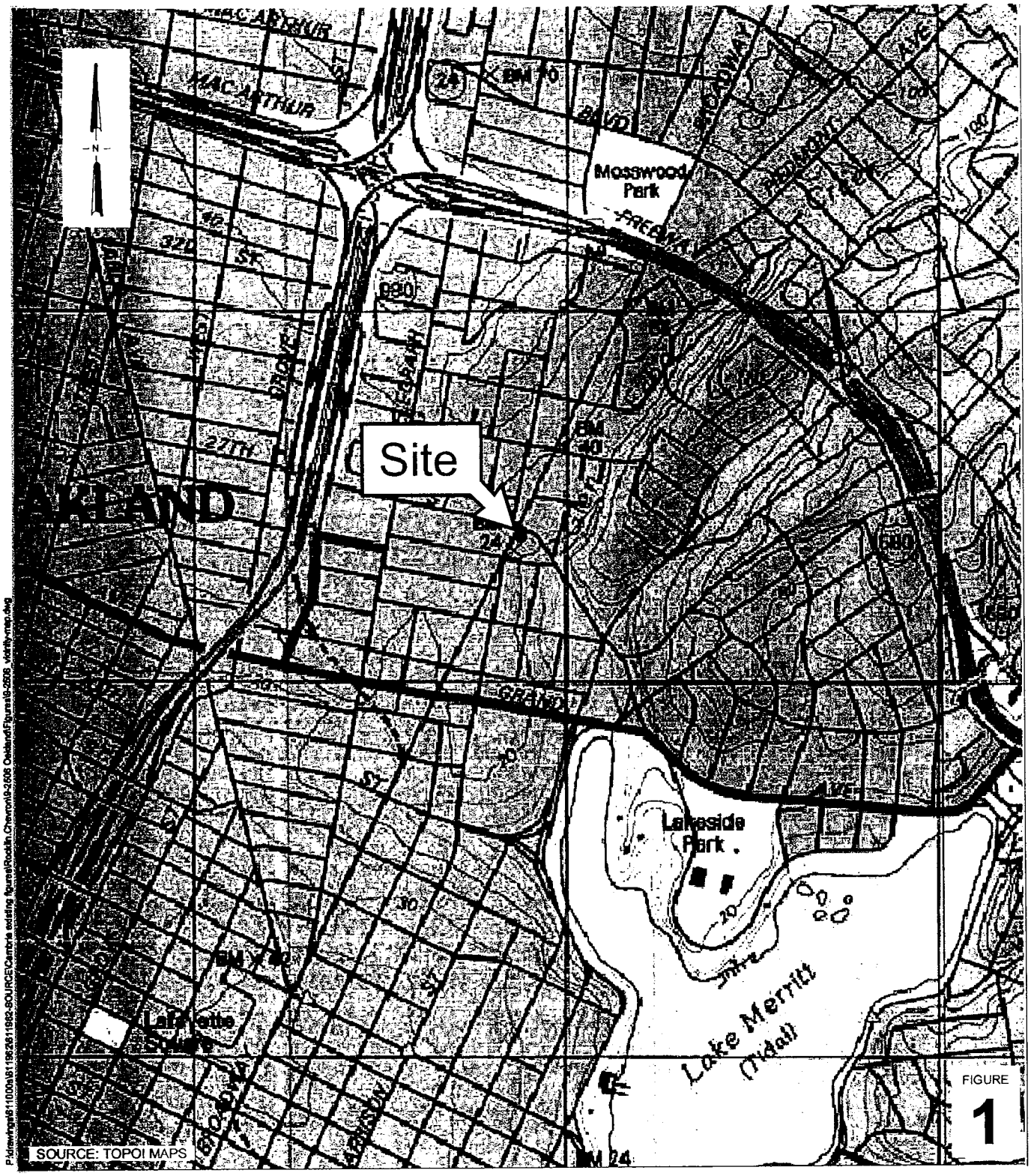


FIGURE 1

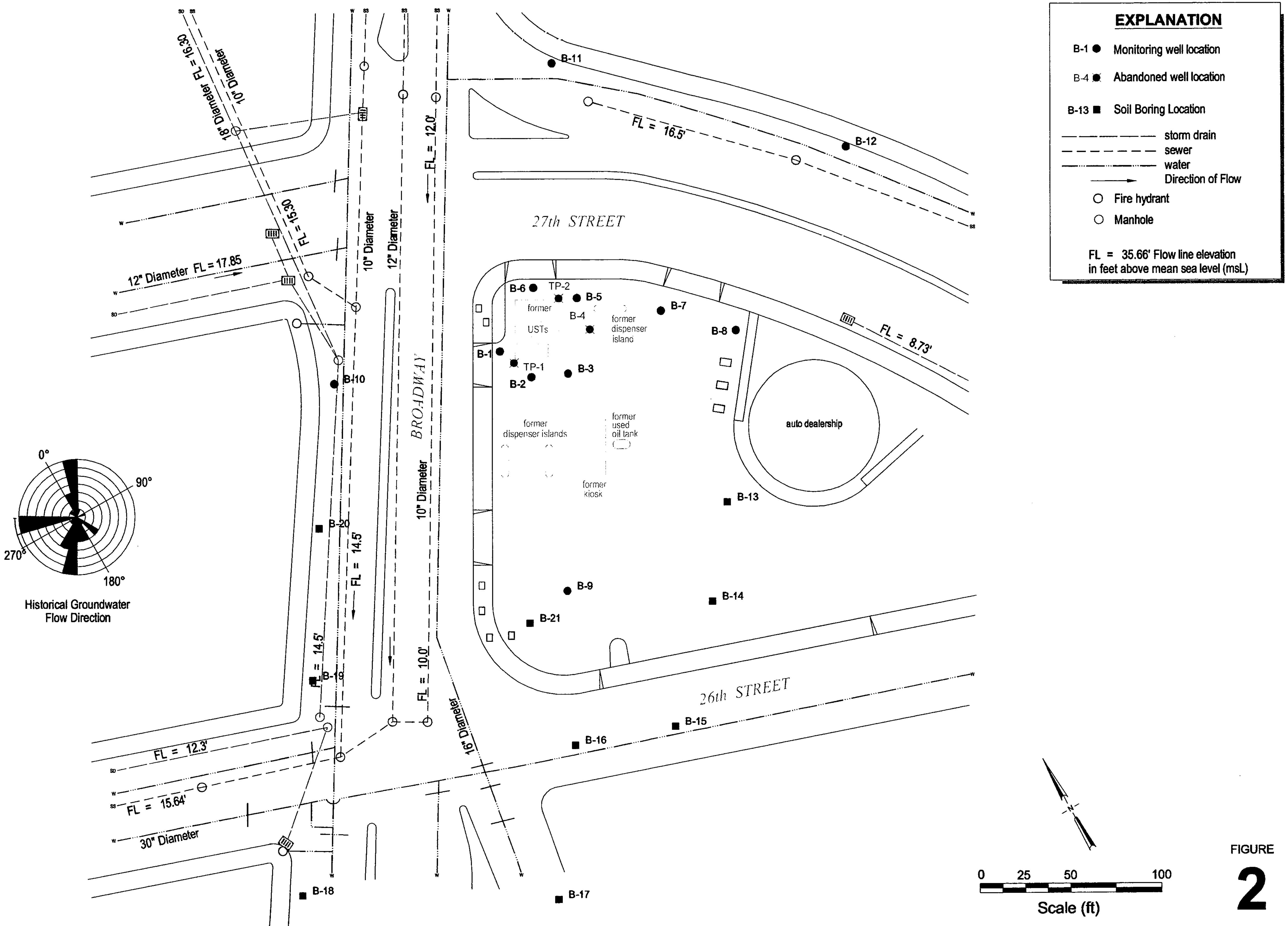
Former Chevron Station 9-2506

2630 Broadway

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



EXPLANATION
B-1 Monitoring well location
B-4 Abandoned well location
B-13 Soil Boring Location
storm drain
sewer
water
Direction of Flow
Fire hydrant
Manhole
FL = 35.66' Flow line elevation in feet above mean sea level (msL)
27th STREET
26th STREET
BROADWAY
auto dealership
former USTs
former dispenser island
former dispenser islands
former used oil tank
former kiosk
B-1
B-2
B-3
B-4
B-5
B-6
B-7
B-8
B-9
B-10
B-11
B-12
B-13
B-14
B-15
B-16
B-17
B-18
B-19
B-20
B-21
TP-1
TP-2
18" Diameter FL = 16.30
10" Diameter
FL = 15.30
12" Diameter FL = 17.85
10" Diameter
12" Diameter
FL = 12.0'
FL = 16.5'
FL = 8.73'
10" Diameter
FL = 14.5'
FL = 14.5'
FL = 10.0'
16" Diameter
FL = 12.3'
FL = 15.64'
30" Diameter
0°
90°
180°
270°
Historical Groundwater Flow Direction
N
0 25 50 100
Scale (ft)

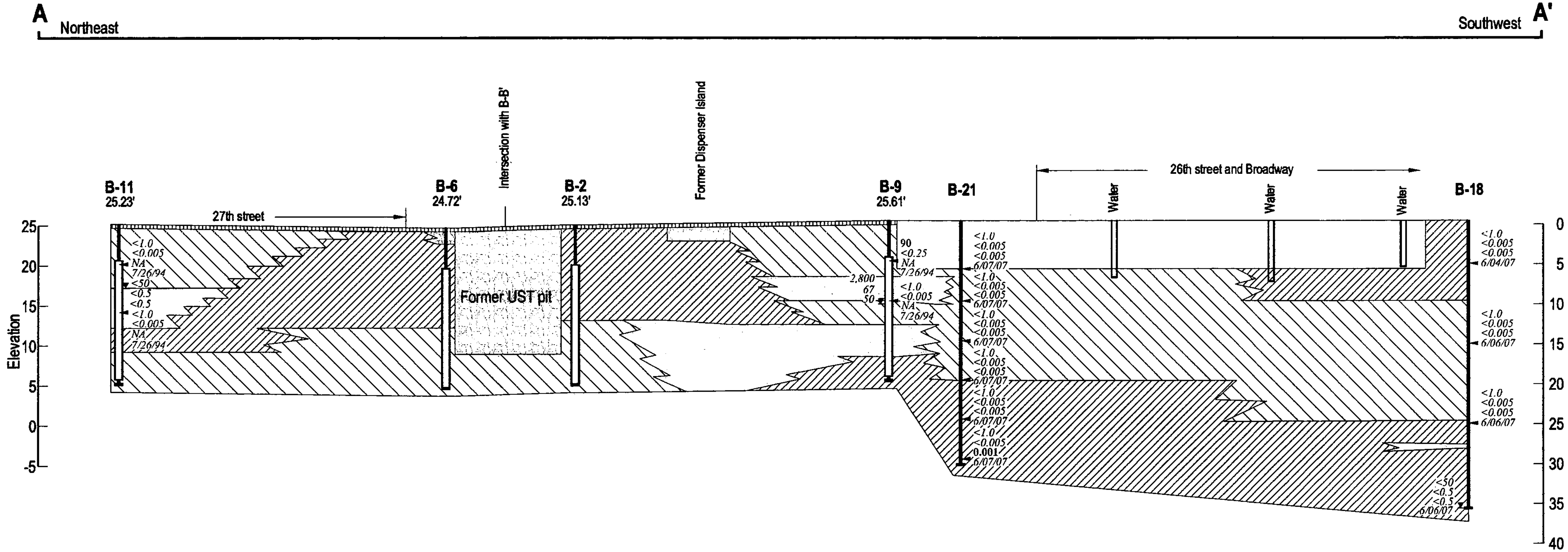
FIGURE

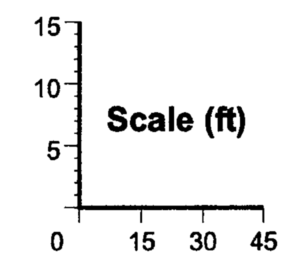
2

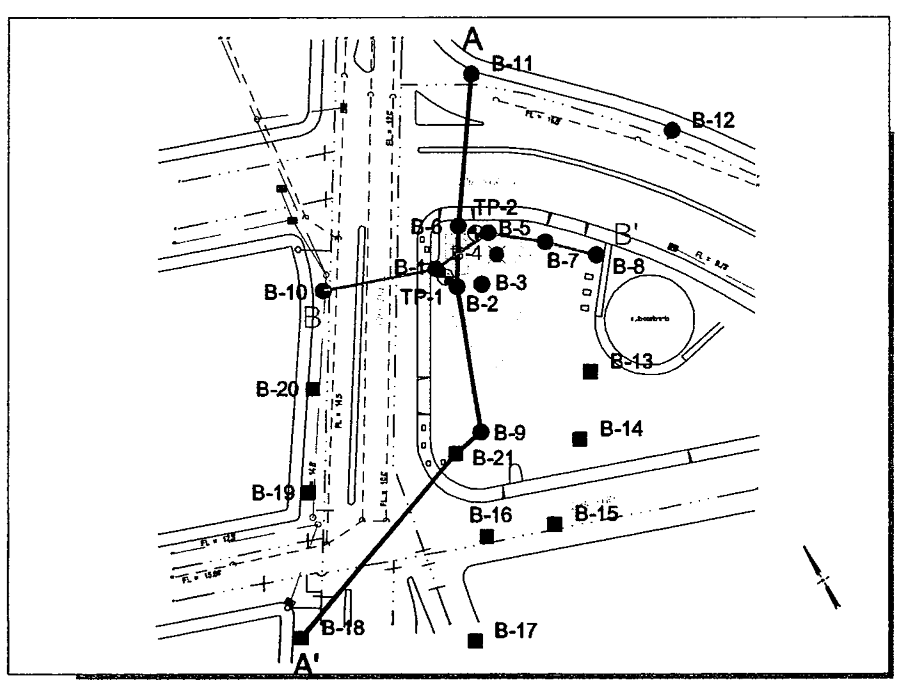
Site Plan with Utilities

CONESTOGA-ROVERS & ASSOCIATES

Former Chevron Station 9-2506
2630 Broadway
Oakland, California







EXPLANATION

= Asphalt

= Low Permeability Soils
- CL - Clay
- CH - Clay

= Moderate Permeability Soils
- ML - Sandy Clay with Gravel
- SC - Clayey Sand
- SM - Silty Sand

= High Permeability Soils
- SW - Gravelly Sand

= Fill

Approximate sample location

TPHg BENZENE MTBE Date — Hydrocarbon concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation

Groundwater Monitoring Well

Well Screen Interval

Bottom of boring

Depth of Groundwater - 02/26/07 (unless otherwise noted)

TPHg Benzene MTBE — Hydrocarbon concentrations in Groundwater, in parts per billion on 02/26/07 (unless otherwise noted)

09/06/07

Geologic Cross Section A-A'

CONESTOGA-ROVERS & ASSOCIATES

FIGURE

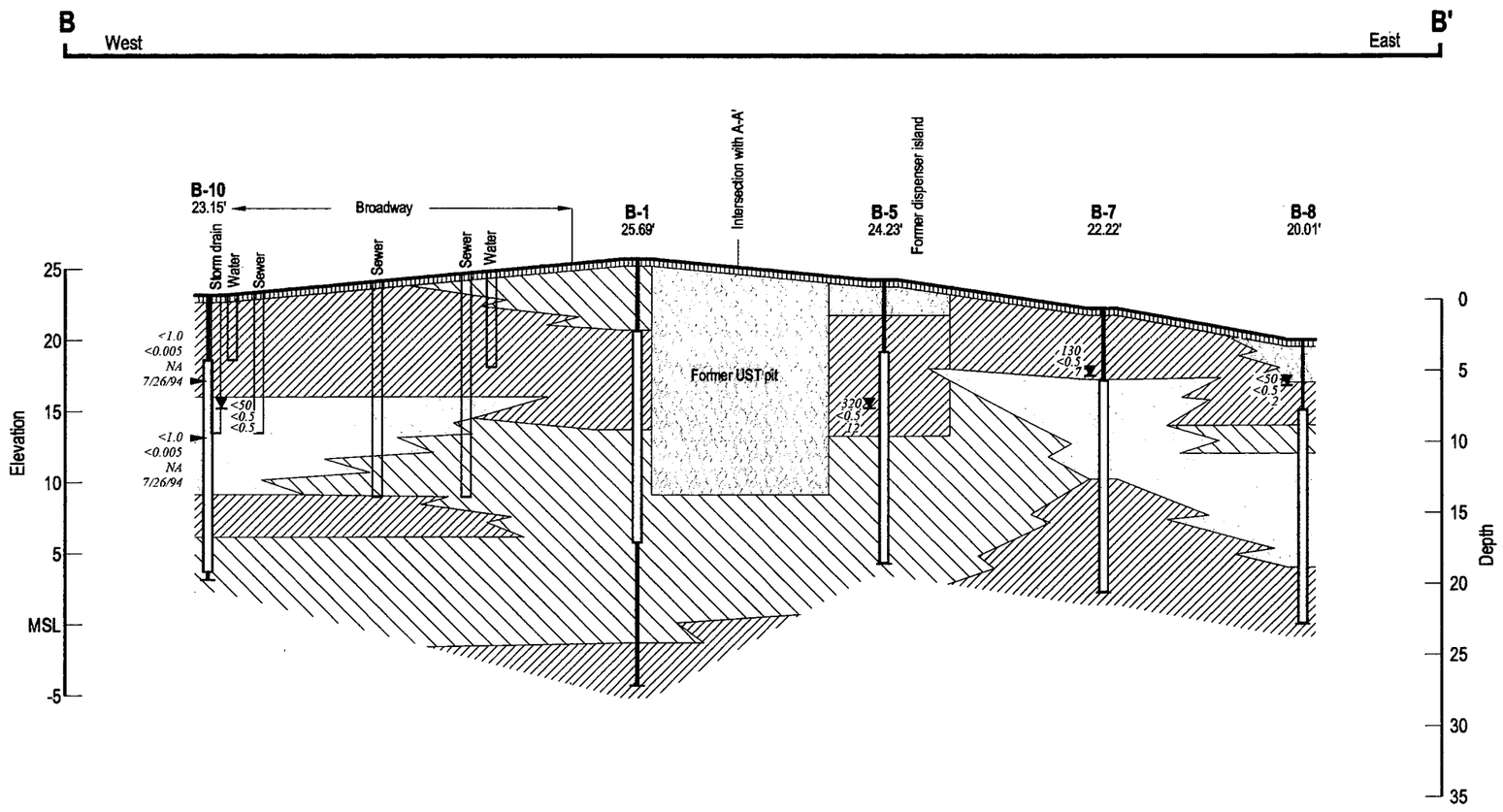
3

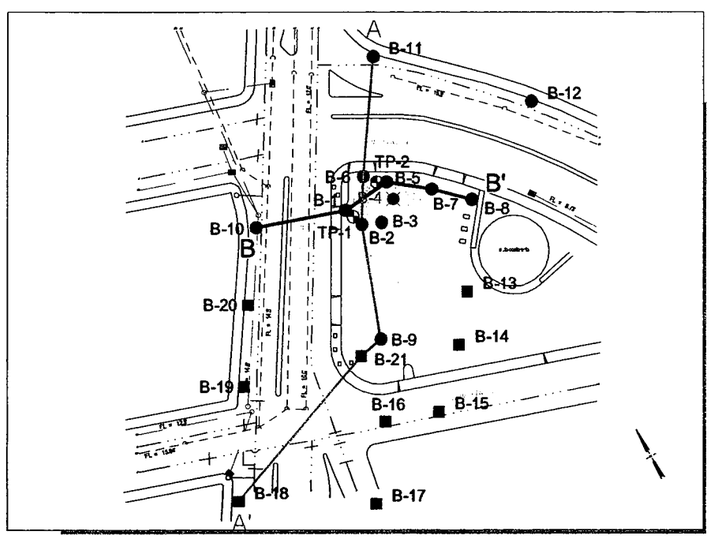
Former Chevron Service Station 9-2506

2630 Broadway
Oakland, California

09/05/07

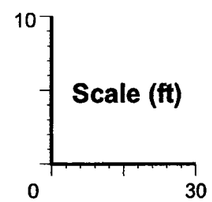
Geologic Cross Section B-B'





EXPLANATION

- = Asphalt
- = Low Permeability Soils
  - CL - Clay to Sandy Clay
- = Moderate Permeability Soils
  - SC Clayey Sand to Sandy Clay with gravel
  - SM - Silty Sand
- = High Permeability Soils
  - SP - Sand and Gravel
  - SW - Gravelly Sand
- = Fill
- Approximate sample location
- *TPHg BENZENE MTBE Date* — Hydrocarbon concentrations in Soil, in parts per million
- **Well ID** — Well Designation
- Elev. — Top of Casing Elevation
- Groundwater Monitoring Well
- Well Screen Interval
- Bottom of boring
- Depth of Groundwater - 02/26/07 (unless otherwise noted)
- *TPHg Benzene MTBE* — Hydrocarbon concentrations in Groundwater, in parts per billion on 02/26/07 (unless otherwise noted)



FIGURE

4

Former Chevron Service Station 9-2506

2630 Broadway

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

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Table 1

Cumulative Analytical Results for Soil

Chevron Service Station #9-2506, 2630 Broadway, Oakland, CA

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oxys & Lead scavengers	Total Lead	Oil & Grease
Former Used-Oil Tank Excavation											
B9-1-5	5	7/26/1994	**90**	<0.25	-	-	-	-	-	-	-
B9-2-10	10	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
B10-1-6	6	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
B10-2-10	10	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
B11-1-5	5	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
B11-2-11	11	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
B12-1-5	5	7/26/1994	**7.9**	<0.5	-	-	-	-	-	-	-
B12-2-11	11	7/26/1994	<1.0	<0.005	-	-	-	-	-	-	-
UST Excavation											
TX1	10.5	3/10/1998	**2.1**	<0.005	-	-	-	**1.2**	-	**6.3**	-
TX2	10.5	3/10/1998	**1.7**	<0.005	-	-	-	**0.8**	-	**3**	-
TX3	10.5	3/10/1998	**18**	**0.052**	-	-	-	<0.5	-	<2.5	-
TX4	10.5	3/10/1998	**10**	**0.036**	-	-	-	<0.1	-	<2.5	-
TX5	10.5	3/10/1998	**1.3**	**0.029**	-	-	-	**1.7**	-	**3.9**	-
TX6	10.5	3/10/1998	**340**	**0.44**	-	-	-	<2.5	-	**4**	-
TX7	10.5	3/10/1998	**66**	<0.25	-	-	-	**0.46**	-	**6.2**	-
TX8	10.5	3/10/1998	<1.0	<0.005	-	-	-	**1.1**	-	**5**	-
Product Piping Trench Samples											
P1	2	3/10/1998	<1.0	<0.005	-	-	-	<0.05	-	**6.7**	-
P2	1.5	3/10/1998	**45**	**0.062**	-	-	-	**0.52**	-	**30**	-
P3	1.5	3/10/1998	<1.0	<0.005	-	-	-	<0.05	-	**130**	-
P4	1.5	3/10/1998	<1.0	<0.005	-	-	-	<0.05	-	**200**	-
P5	2	3/10/1998	<1.0	<0.005	-	-	-	<0.05	-	**5,000**	-
P6	2	3/10/1998	**5.7**	**0.051**	-	-	-	**0.057**	-	**14**	-
P7	2	3/10/1998	**1,200**	<1.25	-	-	-	<12.5	-	**50**	-
P8	2	3/10/1998	**16**	**1.4**	-	-	-	**8**	-	**21**	-
P9	2	3/10/1998	**15**	**0.19**	-	-	-	**0.3**	-	**5.5**	-

Table 1

Cumulative Analytical Results for Soil

Chevron Service Station #9-2506, 2630 Broadway, Oakland, CA

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oxys & Lead scavengers	Total Lead	Oil & Grease
P10	2	3/10/1998	**18**	**0.22**	-	-	-	**1.8**	-	**23**	-
P11	2	3/10/1998	**1.1**	<0.005	-	-	-	<0.05	-	**130**	-
Hydraulic Hoist Samples											
H1	7	3/10/1998	-	-	-	-	-	-	-	-	**11**
H2	7	3/10/1998	-	-	-	-	-	-	-	-	**310**
Used-Oil Tank Excavation											
UO1	8	3/10/1998	<1.0	<0.005	-	-	-	ND*	-	-	**110**
UO2	8	3/10/1998	<1.0	<0.005	-	-	-	ND*	-	-	**91**
Dispenser Island Excavation											
PX2	5	11/19/1998	**2.92**	<0.002	-	-	-	**0.0396**	-	<0.0075	-
PX5	6	11/19/1998	**95.7**	<0.010	-	-	-	<0.01	-	<0.0075	-
PX7	9	11/19/1998	**1,190**	<0.50	-	-	-	<2.5	-	-	-
PX8	7	11/19/1998	<0.40	<0.002	-	-	-	**0.637**	-	-	-
PX9	6	11/19/1998	**5.21**	<0.002	-	-	-	**0.138**	-	-	-
PX10	9	11/19/1998	**44.6**	<0.005	-	-	-	<0.025	-	-	-
Soil Borings											
B14-5	5	6/4/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.002**	ND	-	-
B14-15	15	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B14-22	22	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.001**	ND	-	-
B17-5	5	6/4/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B17-15	15	6/6/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B17-25	25	6/6/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B18-5	5	6/4/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B18-15	15	6/6/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B18-25	25	6/6/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B19-5	5	6/4/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B20-5	5	6/4/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-

Table 1

Cumulative Analytical Results for Soil

Chevron Service Station #9-2506, 2630 Broadway, Oakland, CA

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oxys & Lead scavengers	Total Lead	Oil & Grease
B20-15	15	6/6/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B21-6	6	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B21-10	10	6/7/2007	<1.0	<0.0005	**0.001**	<0.001	<0.001	<0.0005	ND	-	-
B21-15	15	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B21-20	20	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B21-25	25	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	ND	-	-
B21-30	30	6/7/2007	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.001**	ND	-	-
Waste-S	-	6/7/2007	<1.0	<0.005	<0.005	<0.005	<0.02	<0.0005	-	**5.58**	-

Abbreviations/Notes

TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary-butyl ether
TBA = tertiary-butyl alcohol
TAME = tertiary-amyl methyl ether
DIPE = di-isopropyl ether
ETBE = ethyl tertiary-butyl ether
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane

TPHg by EPA method 8015
BTEX + 5 oxys + 1,2-DCA + EDB by EPA method 8260
"-" = not tested
ND = non detect
<x.xx = not detected above the detection limit
Concentrations reported in milligrams per kilogram (mg/kg)
* MTBE by EPA Method 8010
Oxygenates and lead scavengers reported as ND were not detected above reporting limits which varied between 0.001 and 0.020 mg/kg.

Table 2

Analytical Results for Groundwater

Chevron Service Station #9-2506, 2630 Broadway, Oakland, CA

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	TBA	TAME	DIPE	ETBE	1,2-DCA	EDB
B-14-W	22	6/7/2007	<50	<0.5	<0.5	<0.5	<0.5	**1**	**14**	<0.5	<0.5	<0.5	<0.5	<0.5
B-17-W	30	6/6/2007	<50	<0.5	<0.5	<0.5	<0.5	**2**	<2	<0.5	<0.5	<0.5	<0.5	<0.5
B-18-W	36	6/6/2007	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
B-19-W	18	6/6/2007	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**3**	<0.5	<0.5	<0.5	<0.5	<0.5
B-20-W	25	6/6/2007	<50	<3	<3	<3	<3	<3	<10	<3	<3	<3	<3	<3

Abbreviations/Notes

TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary-butyl ether
TBA = tertiary-butyl alcohol
TAME = tertiary-amyl methyl ether
DIPE = di-isopropyl ether
ETBE = ethyl tertiary-butyl ether
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane
TPHg by EPA method 8015
BTEX + 5 oxys + 1,2-DCA + EDB by EPA method 8260
<x.xx = not detected above the detection limit
Concentrations given in micrograms per liter (µg/L)

Table 3
Well Construction Details
Former Chevron Service Station 9-2506, 2630 Broadway, Oakland, CA

Well ID	Date Installed	TOC*	Total Depth (fbg)	Casing Diameter** (inches)	Slot Size (inches)	Screen Interval (fbg)	Filter Pack (fbg)	Status
Soil Borings								
B-13	6/4/2007	--	4.9	--	--	--	--	Boring Destroyed
B-14	6/7/2007	--	22	--	--	--	--	Boring Destroyed
B-15	6/4/2007	--	4	--	--	--	--	Boring Destroyed
B-16	6/4/2007	--	6	--	--	--	--	Boring Destroyed
B-17	6/6/2007	--	30	--	--	--	--	Boring Destroyed
B-18	6/6/2007	--	36	--	--	--	--	Boring Destroyed
B-19	6/6/2007	--	21	--	--	--	--	Boring Destroyed
B-20	6/6/2007	--	30	--	--	--	--	Boring Destroyed
B-21	6/7/2007	--	30.5	--	--	--	--	Boring Destroyed
Monitoring Wells								
B-1	March 1982	25.69	30	2	0.010	5-20	4-20	Active
B-2	March 1982	22.28	20	2	0.010	5-20	4-20	Not Monitored or Sampled
B-3	March 1982	24.43	20	2	0.010	5-20	4-20	Active
B-4	March 1982	--	20	2	0.010	5-20	4-20	Destroyed
B-5	March 1982	24.24	20	2	0.010	5-20	4-20	Active
B-6	March 1982	25.11	20	2	0.010	5-20	4-20	Active
B-7	March 1982	22.18	20	2	0.010	5-20	4-20	Active
B-8	March 1982	21.01	20	2	0.010	5-20	4-20	Active
B-9	7/26/1994	22.93	20	2	0.020	4.5 to 19.5	2.5 to 19.5	Active
B-10	7/27/1994	25.56	20	2	0.020	4.5 to 19.5	2.5 to 19.5	Active
B-11	7/26/1994	25.27	20	2	0.020	4.5 to 19.5	2.5 to 19.5	Active
B-12	7/26/1994	20.41	20	2	0.020	4.5 to 19.5	2.5 to 19.5	Active

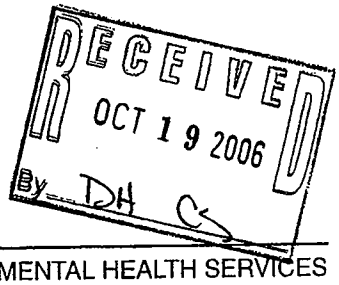
Abbreviations & Notes:
TOC = Top of Casing elevation (feet above mean sea level)
* = Elevations are based on City of Oakland benchmark on Broadway with an elevation of 24.182 feet
** = Casing material: Schedule 40 PVC
NS = Not Surveyed
fbg = feet below grade

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



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

October 16, 2006

Mr. Dana Thurman
Chevron Environmental Management co.
6001 Bollinger Canyon Rd., K2236
P.O. Box 6012
San Ramon, CA 94583-2324

Dear Mr. Thurman

Subject: Fuel Leak Case No. RO 0000146, Chevron Service Station #9-2506, 2630 Broadway, Oakland, CA

Alameda County Environmental Health (ACEH) staff has recently reviewed the case file and the Workplan for Additional Investigation, dated September 28, 2006, prepared by Cambria Environmental for the subject site. This work plan follows the County's rejection of the revised Investigation Workplan, November 15, 2005, by Cambria and subsequent petition and drop of petition to the State Water Resources Control Board. The September 2006 work plan also includes a Site Conceptual Model and the 1st Semi-Annual Monitoring report for 2006. The work plan proposes drilling eight (8) Geoprobe borings and proposes sampling and analysis of depth discrete soil and groundwater from the borings. We note that several technical comments from prior letters are still outstanding. In an effort to provide the most complete guidance as possible, we request that you address the following technical comments prior to performing the proposed work.

TECHNICAL COMMENTS

1. Site Characterization and Source Characterization- The April 24, 2003 and November 28, 2005 letters from our office requested that Chevron provide a work plan to complete both source and site characterization. Your November 15, 2005 Cambria work plan proposed SB-1 in the approximate location of former sample P7. The current 9/28/06 work plan doesn't describe a boring in this area, although SB-1 is noted on Figure 2. Additional investigation in the area of former P8 is also warranted due to elevated MTBE concentrations left in this location. Note your SCM states that the residual TPHg and MTBE require additional definition. Please provide a work plan addendum for additional sampling (e mail is acceptable) as requested below.

   Your SCM identifies potential data gaps and work necessary to fill the data gaps. We concur with the data gaps and believe it would be wise to address them into the work plan addendum. The preferential pathway study identified the potential for utility trenches to intercept the groundwater contaminant plume and borings along Broadway and 26th Streets were recommended. It appears that some of the proposed off-site borings are down-gradient of the utilities and would not identify if the utilities are acting as a preferential pathway. To illustrate this potential, your SCM proposes plotting the utilities on the cross-sections, of which we concur.

Please provide a work plan addendum with revised boring locations (e mail is acceptable) as requested below.

2. Monitoring Well Proposal- Please submit as requested below, a proposal for additional monitoring wells using the data of your soil and groundwater investigation. We request that after new wells are installed, groundwater monitoring be performed on a quarterly basis.

3. Monitoring of well B-2, Status of TP-1 and TP-2- Our April 24, 2003 letter requested that you include well B-2 in your sampling schedule. Please include this well in your next sampling event. Please confirm the status of tank pit wells TP-1 and TP-2. If these wells were not decommissioned during the tank removal, please do so immediately to remove potential conduits.

4. Prior 1982 Tank Removal- Please confirm these former tank locations. Are we correct in assuming these tanks were located in the same location as those removed in 1998?

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health, according to the following schedule:

- November 15, 2006-Work plan addendum
- 60 days after completion of site investigation- Soil and Groundwater Report
- 60 days after completion of site investigation- Monitoring Well Installation Work Plan

This report is being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006,** the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor

wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at barney.chan@acgov.org.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6765.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

cc: files, D. Drogos
Mr. David Herzog, Cambria Environmental, 2000 Opportunity Drive, Ste. 110, Roseville, CA 95678

10_13_06 2630 Broadway

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT B

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: 11/07/2006 By jamesy

Permit Numbers: W2006-0949
Permits Valid from 06/04/2007 to 06/08/2007

Application Id:	1162922067923	**City of Project Site:**	Oakland
Site Location:	2630 Broadway, Oakland, CA 94611		
Project Start Date:	12/05/2006	**Completion Date:**	02/23/2007
Extension Start Date:	06/04/2007	**Extension End Date:**	06/08/2007
Extension Count:	5	**Extended By:**	vickyh1
Applicant:	Cambria - Rebecca Rouas 2000 Opportunity Sr #110, Roseville, CA 95678	**Phone:**	916-677-3407
Property Owner:	Steve Simi 2735 Broadway, Oakland, CA 94612	**Phone:**	510-444-2012
Client:	** same as Property Owner **		
Contact:	John Bostick	**Phone:** 916-644-3404 **Cell:** --	

	Total Due:	$200.00
Receipt Number: WR2006-0504	**Total Amount Paid:**	$200.00
Payer Name : Cambria	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 8 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: other

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2006-0949	11/07/2006	03/05/2007	8	3.00 in.	35.00 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.

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 Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@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.

Alameda County Public Works Agency - Water Resources Well Permit

6. 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.

Job Site 2630 BROADWAY Parcel# 009 -0685-018-06 Appl# X0700453

Descr soil borings on 26th St off Broadway Permit Issued 05/02/07

Work Type EXCAVATION-PRIVATE P

USA # Util. Co. Job#: Acctg#:
Util. Fund #:

Applicant Phone# Lic# --License Classes--

Owner SIMI STEVE & CECILIA TRS
Contractor GREGG DRILLING & TESTING, INC (925)313-5800 485166 C57
Arch/Engr
Agent CRA/C MCCLELLAND (510)420-0700
Applic Addr 950 HOWE RD, MARTINEZ, CA 94553

$414.25 TOTAL FEES PAID AT ISSUANCE

$61.00 Applic	$300.00 Permit
$.00 Process	$34.30 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$18.95 Tech Enh

JOB SITE

CITY OF OAKLAND

ADDRESS:

DIST:

Date: 05/02/07 Amt Paid: $1,242.75
By: SKJ Register R03 Receipt# 117694

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 7 0 0 4 5 3	* 2630 Broadway St. Oakland, CA
APPROX. START DATE: June 4, 2007 / APPROX. END DATE: June 7, 2007	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number): (510) 420-0700
CONTRACTOR'S LICENSE # AND CLASS: 485165 C57	CITY BUSINESS TAX #: 585033

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

☒ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # BB1060261 Company Name Gregg Drilling and Testing

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ 5/2/07

Signature of Permittee ☒ Agent for ☐ Contractor ☐ Owner — Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

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.

Job Site 2630 BROADWAY Parcel# 009 -0685-018-06 Appl# X0700454

Descr soil borings on Broadway off 26th St Permit Issued 05/02/07

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job# Acctg#:
Util Fund #:

Applcnt Phone# Fax# --License Classes--

Owner SIMI STEVE & CECILIA TRS
Contractor GREGG DRILLING & TESTING, INC (925)313-5800 485168 C57
Arch/Engr
Agent CRA/C MCCLELLAND (510)420-0700
Applic Addr 950 HOWE RD, MARTINEZ, CA, 94553

$414.25 TOTAL FEES PAID AT ISSUANCE

$61.00 Applic	$300.00 Permit
$.00 Process	$34.30 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$18.95 Tech Enh

JOB SITE

ADDRESS:

DIST:

CITY OF OAKLAND

Date: 05/02/07 Amt Paid: $1,242.75
By: SKJ Register R03 Receipt# 117694

OF OAKLAND
Office of
Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PAGE 2 of 2

PERMIT NUMBER X 0 7 0 0 4 5 4	SITE ADDRESS/LOCATION * 2630 Broadway St. Oakland, CA
APPROX. START DATE: June 4, 2007 / APPROX. END DATE: June 7, 2007	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number): (510) 420-0700
CONTRACTOR'S LICENSE # AND CLASS: 485165 C57	CITY BUSINESS TAX #: 585033

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500.

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

☒ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # BB1060261 Company Name Gregg Drilling and Testing

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X C. McClellan — Date 5/2/07

Signature of Permittee ☒ Agent for ☐ Contractor ☐ Owner

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY Ø		DATE ISSUED	

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT C

Boring Logs

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax: (916) 677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-13
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	04-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	B. Carey P.G# 7820	**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
							Asphalt (4")	0.3	
							No samples collected.		
								4.9	Bottom of Boring @ 4.9 fbg
							Concrete slab encountered at 4.9'. No sample recovered.		

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-14
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	07-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	10.0 fbg (07-Jun-07)
REVIEWED BY	B. Carey P.G#7820	**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
							Asphalt (5")	0.4	
		B-14@ 5		5	SM		SILTY SAND (SM) - brown; moist; 15% clay, 25% silt, 60% fine sand; low plasticity; high estimated permeability.		
		B-14@ 10		10			▽	10.0	
					SM		SILTY SAND (SM) - brown; saturated; 20% clay, 20% silt, 60% fine sand; low plasticity, moderate estimated permeability.	11.0	
					SM		SILTY SAND with GRAVEL (SM) - brown; moist; 10% clay, 10% silt, 50% fine sand, 30% gravel; moderate estimated permeability.	13.0	
					CL		CLAY with SAND (CL) - brown; moist; 65% clay, 10% silt, 25% fine sand; moderate plasticity; moderate estimated permeability.	15.0	
		B-14@ 15		15					
					CL		CLAY (CL) - brown; moist; 70% clay, 20% silt, 10% fine sand; high plasticity; high estimated permeability.		
		B-14@ 20		20				20.0	
					SC		CLAYEY SAND (SC) - brown; moist; 20% clay, 10% silt, 70% fine sand; low plasticity; high estimated permeability.	21.5	
		B-14@ 22			SM		SILTY SAND (SM) - brown; moist; 10% clay, 10% silt, 70% fine sand, 10% gravel; high estimated permeability.	22.0	Bottom of Boring @ 22 fbg

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-15
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	04-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	B. Carey P.G# 7820	**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
							Asphalt (7")	0.6	
					CL		SANDY CLAY (CL) - brown; 50% clay, 15% silt, 30% sand, 5% gravel; moderate plasticity; moderate estimated permeability.		
		B-15@ 4						4.0	Bottom of Boring @ 4 fbg
							Concrete slab.		

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-16
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	04-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	B. Carey P.G#7820	**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
							Asphalt (7")	0.6	
					CH		CLAY with SAND (CH) - brown; 50% clay, 30% silt, 20% sand; high plasticity; low estimated permeability.	5.0	
		B-16@ 5		5	CL		CLAY with SAND (CL) - brown; 40% clay, 20% silt, 20% sand, 20% gravel; moderate plasticity; moderate estimated permeability.	6.0	Bottom of Boring @ 6 fbg
							Concrete slab.		

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-17
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	06-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	28.0 fbg (06-Jun-07) ▽
REVIEWED BY	B. Carey P.G# 7820	**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
							Concrete (12")	1.0	
							Road base (6")	1.5	
		B-17@ 5		5	CH		CLAY (CH) - brown; 50% clay, 40% silt, 10% sand; high plasticity; low estimated permeability.	8.0	
		B-17@ 10		10	ML		SILT (ML) - brown; 10% clay, 80% silt, 10% fine sand; high plasticity; low estimated permeability.	10.0	
					SP		SAND (SP) - tan; damp; 100% fine-grained sand; no plasticity; moderate estimated permeability.	11.5	
							Rock layer.	12.0	
					SP		SAND (SP) - tan; damp; 100% fine-grained sand; no plasticity; moderate estimated permeability.	13.0	
		B-17@ 15		15	ML		SILT (ML) - gray; damp; 5% clay; 95% silt; high plasticity; low estimated permeability.	15.0	
					ML		SILT (ML) - gray; damp; 10% clay, 90% silt; high plasticity; low estimated permeability.	16.0	
					SP		SAND (SP) - gray; medium dense; 5% silt, 95% sand.	19.0	
		B-17@ 19			SP		SAND (SP) - gray; damp; 5% silt, 90% sand, 5% gravel; no plasticity; moderate estimated permeability.	20.0	
				20			Rock layer; red.	21.0	
					SM		SILTY SAND (SM) - gray-brown; 20% silt, 80% sand; moderate plasticity; moderate estimated permeability.	23.0	
					SM		SILTY SAND (SM) - red-brown; 40% silt, 60% sand; high plasticity; low permeability.	24.0	
		B-17@ 25		25	ML		SILT (ML) - red-brown; 40% cay, 60% silt; high plasticity; low permeability.	26.0	
					SP		SAND (SP) - damp; red-brown; 5% silt, 95% medium to fine sand; no plasticity; moderate estimated permeability. ▽ Saturated at 28'.	28.0	
		B-17@ 29		30				30.0	Bottom of Boring @ 30 fbg

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

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Fax: (916) 677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-18
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	06-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	28.0 fbg (06-Jun-07)
REVIEWED BY	B. Carey P.G# 7820	**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
							Concrete (8")	0.7	
					CH		CLAY (CH) - brown; dry; 50% clay, 40% silt, 10% sand; high plasticity; low estimated permeability.		
		B-18@ 5		5					
		B-18@ 10		10	SM		SILTY SAND (SM) - brown; moist; 20% clay, 20% silt, 50% sand, 10% gravel; moderate plasticity; moderate estimated permeability.	10.0	
		B-18@ 15		15	SC		CLAYEY SAND (SC) - brown; moist; 35% clay, 15% silt, 50% fine sand; moderate plasticity; moderate estimated permeability.	15.0 16.0	
					SC		CLAYEY SAND (SC) - gray-brown; moist; 40% clay, 20% silt, 40% fine sand.	17.0	
		B-18@ 20		20	SM		SILTY SAND with GRAVEL (SM) - red-brown; moist; 10% clay, 10% silt, 60% fine sand, 20% gravel; moderate plasticity; moderate estimated permeability.		
		B-18@ 25		25	CH		SANDY CLAY (CH) - brown; moist; 50% clay, 20% silt, 30% fine sand; high plasticity; moderate estimated permeability.	25.0	
					SC		CLAYEY SAND (SC) - brown; saturated; 20% clay, 10% silt, 70% fine sand; high estimated permeability.	28.0 28.5	
		B-18@ 30		30	CH		CLAY with SAND (CH) - brown; moist; 60% clay, 20% silt, 20% fine sand; high plasticity; low estimated permeability.		
		B-18@ 35		35				35.0	

WELL LOG (PID) R:\ROCKL\~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

Continued Next Page

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Fax: (916) 677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-18
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	06-Jun-07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CH		CLAY (CH) - dark brown; moist; 75% clay, 15% silt, 10% fine sand; high plasticity; low estimated permeability.	36.0	Bottom of Boring @ 36 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-19
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	06-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	17.0 fbg (06-Jun-07) ▽
REVIEWED BY	B. Carey P.G# 7820	**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
							Asphalt (8")	0.7	
							Concrete (8")	1.3	
					CL		SANDY CLAY (CL) - brown-green; dry; 40% clay, 30% silt, 30% fine sand; moderate plasticity; moderate estimated permeability.		
		B-19@ 5		5					
							Color change to brown.	7.5	
		B-19@ 10		10				10.0	
					SP		SAND (SP) - brown to greenish gray; dry; 10% silt, 80% medium to large grained sand, 10 % gravel.		
								13.0	
					SM		SILTY SAND with GRAVEL (SM) - brown; saturated; 10% clay, 10% silt, 60% medium sand, 20% gravel; low plasticity; moderate estimated permeability.	15.0	
		B-19@ 15		15					
					SM		SILTY SAND with GRAVEL (SM) - brown; saturated; 10% clay, 10% silt, 50% medium to coarse grained sand, 30% gravel; no plasticity; moderate estimated permeability. ▽	18.0	
					SM		SILTY SAND (SM) - brown; saturated; 10% clay, 10% silt, 70% medium sand, 10% gravel; no plasticity; high estimated permeability.	19.0	
				20	CL		CLAY with SAND (CL) - 60% clay, 20% silt, 20% sand; moderate plasticity; moderate estimated permeability.	21.0	
							Refusal at 21' - hard rock.		Bottom of Boring @ 21 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-20
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	04-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	06-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	25.0 fbg (06-Jun-07)
REVIEWED BY	B. Carey P.G# 7820	**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
							Asphalt (8")	0.7	
							Concrete (8")	1.3	
					CL		CLAY with SAND (CL) - brown; dry; 60% clay, 25% silt, 15% fine sand; moderate plasticity; moderate estimated permeability.	5.0	
		B-20@ 5		5	SM		SILTY SAND (SM) - brown; dry; 15% clay, 25% silt, 60% fine sand; low plasticity; moderate estimated permeability.	10.0	
		B-20@ 10		10	SM		SILTY SAND (SM) - brown; dry; 5% clay, 25% silt, 70% fine sand; no plasticity; moderate estimated permeability.	11.0	
							Cherty rock layer.	13.0	
					SP		SAND (SP) - brown; dry; 10% silt, 80% sand, 10% gravel; no plasticity; moderate estimated permeability.	14.0	
		B-20@ 15		15	SM		SILTY SAND (SM) - brown; dry; 30% silt, 70% fine sand; no plasticity; moderate estimated permeability.	16.0	
					CH		SANDY CLAY (CH) - brown; 60% clay, 40% sand; high plasticity; low estimated permeability.	19.0	
		B-20@ 19.5		20	SM		SILTY SAND (SM) - brown; moist; 20% silt, 80% fine sand.	21.0	
					SM		SAND with SILT (SM) - brown; 10% silt, 90% fine sand.	23.0	
		B-20@ 25		25	SP		SAND with SILT and GRAVEL (SP) - brown; 10% silt, 70% sand, 20% gravel; no plasticity; moderate estimated permeability. ▽	25.5	
					ML		SILT (ML) - brown; saturated; 30% clay, 70% silt.	27.0	
					ML		SILT (ML) - brown; moist; 5% clay, 95% silt.	30.0	Bottom of Boring @ 30 fbg

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax: (916) 677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	B-21
JOB/SITE NAME	9-2506 Oakland	**DRILLING STARTED**	07-Jun-07
LOCATION	2630 Broadway, Oakland, CA	**DRILLING COMPLETED**	07-Jun-07
PROJECT NUMBER	611962	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	10.0 fbg (07-Jun-07) ▽
REVIEWED BY	B. Carey P.G#7820	**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
		B-21@ 6		5	SM		SILTY SAND (SM) - brown; moist; 10% clay, 30% silt, 60% sand; low plasticity; moderate estimated permeability.	6.0	
		B-21@ 10		10	SM		SILTY SAND (SM) - green-brown; moist; 20% clay, 20% silt, 60% sand; moderate plasticity; moderate estimated permeability. ▽	9.0	
							Color change to brown.	11.0	
		B-21@ 15		15	SC		CLAYEY SAND (SC) - brown; moist; 30% clay, 10% silt, 50% sand; 10% gravel; moderate plasticity; moderate estimated permeability.	15.0	
		B-21@ 20		20	CL		CLAY with SAND (CL) - brown; moist; 60% clay, 20% silt, 20% sand; moderate plasticity; moderate estimated permeability.	20.0	
		B-21@ 25		25	CL		CLAY (CL) - brown; moist; 60% clay, 30% silt, 10% sand; moderate plasticity; low estimated permeability.	25.0	
		B-21@ 30		30	CL		CLAY with SAND (CL) - brown; moist; 50% clay, 30% silt, 20% sand; moderate plasticity; low estimated permeability. Refusal at 30.5'.	30.0 30.5	Bottom of Boring @ 30.5 fbg

WELL LOG (PID) R:\ROCKLI~1.CHE\9-2506~1\GINT\9-2506.GPJ DEFAULT.GDT 8/8/07

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT D

Soil Analytical Report

Lancaster Laboratories

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 for:

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1041986. Samples arrived at the laboratory on Saturday, June 09, 2007. The PO# for this group is 92506 and the release number is MTI.

Client Description			Lancaster Labs Number
B-20-S-5-070604	Grab	Soil	5076694
B-19-S-5-070604	Grab	Soil	5076695
B-18-S-5-070604	Grab	Soil	5076696
B-17-S-5-070604	Grab	Soil	5076697
B-14-S-5-070604	Grab	Soil	5076698
B-17-S-15-070606	Grab	Soil	5076699
B-17-S-25-070606	Grab	Soil	5076700
B-20-S-15-070606	Grab	Soil	5076701
B-18-S-15-070606	Grab	Soil	5076702
B-18-S-25-070606	Grab	Soil	5076703
B-14-S-15-070607	Grab	Soil	5076704
B-14-S-22-070607	Grab	Soil	5076705
B-21-S-6-070607	Grab	Soil	5076706
B-21-S-10-070607	Grab	Soil	5076707
B-21-S-15-070607	Grab	Soil	5076708
B-21-S-20-070607	Grab	Soil	5076709
B-21-S-25-070607	Grab	Soil	5076710
B-21-S-30-070607	Grab	Soil	5076711

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076694

B-20-S-5-070604 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-20
Collected:06/04/2007 09:41 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B20-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 17:14	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 18:14	Sara E Wolf	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 17:32	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:29	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076695

B-19-S-5-070604 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-19
Collected:06/04/2007 10:10 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B19-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 17:50	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 18:36	Sara E Wolf	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 17:34	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:37	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076696

B-18-S-5-070604 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-18
Collected:06/04/2007 10:40 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B18-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 18:26	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 19:44	Sara E Wolf	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 17:40	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:41	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076697

B-17-S-5-070604 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-17
Collected:06/04/2007 11:20 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B17-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 19:02	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 20:07	Sara E Wolf	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 17:38	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:42	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076698

B-14-S-5-070604 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected:06/04/2007 14:27 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B14-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.002	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 19:39	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 20:29	Sara E Wolf	1
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:44	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 17:42	Sara E Wolf	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076699

B-17-S-15-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-17
Collected:06/06/2007 09:20 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B1715

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 20:15	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 20:52	Sara E Wolf	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:36	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:46	Eric L Vera	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5076700

B-17-S-25-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-17
Collected:06/06/2007 09:58 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B1725

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 20:51	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 21:15	Sara E Wolf	1.01
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:48	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:38	Sara E Wolf	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076701

B-20-S-15-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-20
Collected:06/06/2007 11:15 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2015

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 21:27	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 21:37	Sara E Wolf	1.01
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:51	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:44	Sara E Wolf	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076702

B-18-S-15-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-18
Collected:06/06/2007 14:22 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B1815

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1
	The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.					

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 22:03	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 22:00	Sara E Wolf	1
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:56	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:39	Sara E Wolf	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076703

B-18-S-25-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-18
Collected:06/06/2007 14:45 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B1825

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.

The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 22:39	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 22:23	Sara E Wolf	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:46	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 21:59	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076703

B-18-S-25-070606 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-18
Collected:06/06/2007 14:45 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

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2000 Opportunity Drive
Roseville CA 95678

B1825

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Analysis Report

Lancaster Laboratories Sample No. SW 5076704

B-14-S-15-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected: 06/07/2007 08:20 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

14-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.

The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 11:14	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 22:45	Sara E Wolf	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:41	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:01	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076704

B-14-S-15-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected:06/07/2007 08:20 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

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14-15

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Analysis Report

Lancaster Laboratories Sample No. SW 5076705

B-14-S-22-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected:06/07/2007 08:50 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B1422

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

The percent recovery for di-isopropyl ether (71%) was outside QC limits low by 1% in the LCS associated with this sample (QC window = 72-120%). Di-isopropyl ether was not detected in this sample.

The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 11:50	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/13/2007 23:08	Sara E Wolf	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 18:42	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:04	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076705

B-14-S-22-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected:06/07/2007 08:50 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

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B1422

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Analysis Report

Lancaster Laboratories Sample No. SW 5076706

B-21-S-6-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 09:23 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

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Suite 110
2000 Opportunity Drive
Roseville CA 95678

B21-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 12:26	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 00:29	Kelly E Brickley	1
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:07	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 20:32	Kelly E Brickley	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076707

B-21-S-10-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 09:25 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	0.001	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 13:02	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 00:53	Kelly E Brickley	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 20:33	Kelly E Brickley	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:09	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076708

B-21-S-15-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 09:35 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 13:38	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 01:16	Kelly E Brickley	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 20:35	Kelly E Brickley	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:12	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076709

B-21-S-20-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 09:47 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 14:14	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 01:39	Kelly E Brickley	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 20:36	Kelly E Brickley	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:14	Eric L Vera	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076710

B-21-S-25-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 10:05 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 14:50	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 14:40	Nicholas R Rossi	0.99
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:16	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/14/2007 11:07	Nicholas R Rossi	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 5076711

B-21-S-30-070607 Grab Soil
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-21
Collected:06/07/2007 10:14 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 00:02
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

B2130

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/12/2007 16:38	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/14/2007 02:26	Kelly E Brickley	1
01150	GC - Bulk Soil Prep	SW-846 5035	1	06/11/2007 22:19	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/13/2007 20:38	Kelly E Brickley	n.a.

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Group Number: 1041986
Reported: 06/21/07 at 12:02 AM

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07163A34A	Sample number(s): 5076694-5076711							
TPH-GRO - Soils	N.D.	1.0	mg/kg	91		67-119		
Batch number: A071642AA	Sample number(s): 5076694-5076705							
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	104		72-117		
di-Isopropyl ether	N.D.	0.001	mg/kg	71*		72-120		
Ethyl t-butyl ether	N.D.	0.001	mg/kg	86		72-115		
t-Amyl methyl ether	N.D.	0.001	mg/kg	96		73-116		
t-Butyl alcohol	N.D.	0.020	mg/kg	109		52-153		
Benzene	N.D.	0.0005	mg/kg	94		84-115		
1,2-Dichloroethane	N.D.	0.001	mg/kg	125		76-126		
Toluene	N.D.	0.001	mg/kg	96		81-116		
1,2-Dibromoethane	N.D.	0.001	mg/kg	105		77-114		
Ethylbenzene	N.D.	0.001	mg/kg	103		82-115		
Xylene (Total)	N.D.	0.001	mg/kg	99		82-117		
Batch number: B071642AA	Sample number(s): 5076706-5076709,5076711							
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	107		72-117		
di-Isopropyl ether	N.D.	0.001	mg/kg	105		72-120		
Ethyl t-butyl ether	N.D.	0.001	mg/kg	103		72-115		
t-Amyl methyl ether	N.D.	0.001	mg/kg	104		73-116		
t-Butyl alcohol	N.D.	0.020	mg/kg	94		52-153		
Benzene	N.D.	0.0005	mg/kg	103		84-115		
1,2-Dichloroethane	N.D.	0.001	mg/kg	120		76-126		
Toluene	N.D.	0.001	mg/kg	95		81-116		
1,2-Dibromoethane	N.D.	0.001	mg/kg	107		77-114		
Ethylbenzene	N.D.	0.001	mg/kg	98		82-115		
Xylene (Total)	N.D.	0.001	mg/kg	94		82-117		
Batch number: B071651AA	Sample number(s): 5076710							
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	103		72-117		
di-Isopropyl ether	N.D.	0.001	mg/kg	101		72-120		
Ethyl t-butyl ether	N.D.	0.001	mg/kg	102		72-115		
t-Amyl methyl ether	N.D.	0.001	mg/kg	102		73-116		
t-Butyl alcohol	N.D.	0.020	mg/kg	99		52-153		
Benzene	N.D.	0.0005	mg/kg	101		84-115		
1,2-Dichloroethane	N.D.	0.001	mg/kg	117		76-126		
Toluene	N.D.	0.001	mg/kg	97		81-116		
1,2-Dibromoethane	N.D.	0.001	mg/kg	109		77-114		
Ethylbenzene	N.D.	0.001	mg/kg	101		82-115		
Xylene (Total)	N.D.	0.001	mg/kg	98		82-117		

Sample Matrix Quality Control

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

Quality Control Summary

Client Name: Chevron c/o CRA Group Number: 1041986
Reported: 06/21/07 at 12:02 AM
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: 07163A34A	Sample number(s): 5076694-5076711 UNSPK: P063392								
TPH-GRO - Soils	87	98	39-118	12	30				
Batch number: A071642AA	Sample number(s): 5076694-5076705 UNSPK: 5076695								
Methyl Tertiary Butyl Ether	96	93	47-130	2	30				
di-Isopropyl ether	66	68	58-113	4	30				
Ethyl t-butyl ether	80	80	60-112	2	30				
t-Amyl methyl ether	91	87	63-112	3	30				
t-Butyl alcohol	105	114	51-134	10	30				
Benzene	86	87	59-120	4	30				
1,2-Dichloroethane	118	113	62-130	3	30				
Toluene	88	91	38-131	5	30				
1,2-Dibromoethane	98	96	66-108	1	30				
Ethylbenzene	94	98	54-116	5	30				
Xylene (Total)	93	94	44-127	2	30				
Batch number: B071642AA	Sample number(s): 5076706-5076709,5076711 UNSPK: P073271								
Methyl Tertiary Butyl Ether	94	94	47-130	0	30				
di-Isopropyl ether	90	95	58-113	5	30				
Ethyl t-butyl ether	90	94	60-112	5	30				
t-Amyl methyl ether	91	93	63-112	3	30				
t-Butyl alcohol	85	93	51-134	9	30				
Benzene	83	91	59-120	10	30				
1,2-Dichloroethane	103	109	62-130	6	30				
Toluene	74	82	38-131	11	30				
1,2-Dibromoethane	93	94	66-108	2	30				
Ethylbenzene	78	84	54-116	8	30				
Xylene (Total)	76	82	44-127	8	30				
Batch number: B071651AA	Sample number(s): 5076710 UNSPK: P076257								
Methyl Tertiary Butyl Ether	81	97	47-130	17	30				
di-Isopropyl ether	89	89	58-113	1	30				
Ethyl t-butyl ether	82	89	60-112	7	30				
t-Amyl methyl ether	81	92	63-112	13	30				
t-Butyl alcohol	105	85	51-134	22	30				
Benzene	99	81	59-120	20	30				
1,2-Dichloroethane	101	104	62-130	2	30				
Toluene	102	79	38-131	25	30				
1,2-Dibromoethane	85	96	66-108	11	30				
Ethylbenzene	110	85	54-116	26	30				
Xylene (Total)	102	80	44-127	24	30				

Surrogate Quality Control

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

Analysis Name: TPH-GRO - Soils
Batch number: 07163A34A
Trifluorotoluene-F

---

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

Quality Control Summary

Client Name: Chevron c/o CRA
Group Number: 1041986
Reported: 06/21/07 at 12:02 AM

Surrogate Quality Control

5076694	75
5076695	76
5076696	73
5076697	79
5076698	78
5076699	76
5076700	74
5076701	72
5076702	80
5076703	67
5076704	81
5076705	80
5076706	73
5076707	78
5076708	74
5076709	73
5076710	79
5076711	79
Blank	89
LCS	87
MS	80
MSD	84
Limits:	61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: A071642AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5076694	107	87	90	89
5076695	106	81	90	87
5076696	107	82	91	86
5076697	106	85	90	89
5076698	109	84	91	88
5076699	108	82	91	90
5076700	108	88	89	90
5076701	110	85	90	90
5076702	111	85	90	90
5076703	111	81	91	89
5076704	111	82	91	90
5076705	112	84	90	90
Blank	108	92	89	89
LCS	105	86	94	97
MS	105	87	94	97
MSD	103	83	95	95
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: B071642AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5076706	96	93	94	93
5076707	94	87	95	92
5076708	95	89	95	94
5076709	96	94	94	93
5076711	95	94	95	92
Blank	95	95	94	91

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

Quality Control Summary

Client Name: Chevron c/o CRA Group Number: 1041986
Reported: 06/21/07 at 12:02 AM

Surrogate Quality Control

LCS	96	98	94	96
MS	97	94	92	97
MSD	96	91	93	95
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: B071651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5076710	95	95	94	91
Blank	93	96	96	91
LCS	94	96	97	93
MS	90	80	100	90
MSD	96	102	94	95
Limits:	71-114	70-109	70-123	70-111

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11997 Sample #: 5076694-711 SCR#:
Group# 1041986

MTI ~~9119G2~~ 6119G2

Facility #: 9-2506
Site Address: 2630 Broadway, Oakland, CA
Chevron PM: Tom Baus Lead Consultant: CRA
Consultant/Office: CRA Roseville
Consultant Prj. Mgr.: Brian Carey
Consultant Phone #: 916 677 3407 Fax #: 916 677 3687
Sampler: J. Bostick
Service Order #: ☐ Non SAR:

Matrix: ☐ Potable ☐ NPDES

Analyses Requested / Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐					
B-20 @5	6/4/07	941	X		X			1	X	X			X						
B-19 @5		1010	X		X			1	X	X			X						
B-18 @5		1040	X		X			1	X	X			X						
B-17 @5		1120	X		X			1	X	X			X						
B-14 @5		1427	X		X			1	X	X			X						
B-17 @15	6/6/07	920	X		X			1	X	X			X						
B-17 @25		958	X		X			1	X	X			X						
B-20 @15		1115	X		X			1	X	X			X						
B-18 @15		1422	X		X			1	X	X			X						
B-18 @25		1445	X		X			1	X	X			X						
B-14 @15	6/7/07	820	X		X			1	X	X			X						
B-14 @22		850	X		X			1	X	X			X						
B-21 @6		923	X		X			1	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
Method 8260 per J. Bostick
A. Miller 6/12/07

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
[signature]	6/8/07	1400			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by: [signature]	6/9/07	0930
Temperature Upon Receipt 4.0 C°			Custody Seals Intact? ~~Yes~~ No		

3460 Rev. 7/30/01

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.

Chevron California Region Analysis Request/Chain of Custody

244518

Lancaster Laboratories
Where quality is a science.

Acct. #: 11997 — For Lancaster Laboratories use only — Sample #: 507606094 - 711 — SCR#:

MTE 9611962

Group# 1041986

Facility #: 9-2506
Site Address: 2630 Broadway, Oakland, CA
Chevron PM: Tom Bauers — Lead Consultant: CRA
Consultant/Office: CRA Roseville
Consultant Prj. Mgr.: Brian Carey
Consultant Phone #: 916 677 3407 — Fax #: 916 677 3687
~~Sampler:~~ J. Bostick
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 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	∑ Oxygenates	Lead 7420 ☐ 7421 ☐	Total Lead
B-21 @10	S		9.5	2007 06 07	925	Y	X		1	X	X			X		
B-21 @15	|		14.5	|	935	|	X		1	X	X			X		
B-21 @20	|		19.5	|	947	|	X		1	X	X			X		
B-21 @25	|		24.5	|	1005	|	X		1	X	X			X		
B-21 @30	-		29.5	I	1014	I	I	X		1	X	X			X		
Waste-S	S		-	20070607	-	-			X	1	X	X				X	

Comments / Remarks
Send waste analytical to jay @ IWM
Method 8260 per J. Bostick.
A. Miller
6/12/07

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
1		6/8/07	1400			
2	Relinquished by:	Date	Time	Received by:	Date	Time
3	Relinquished by:	Date	Time	Received by:	Date	Time
4	Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date	Time
	Temperature Upon Receipt 4.0 C°			Custody Seals Intact? ~~Yes~~ No	6/8/07	0955

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< 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

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.

U.S. EPA 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 quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
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 amount 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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 of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT E

Groundwater Analytical Report

Lancaster Laboratories

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 for:

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1041931. Samples arrived at the laboratory on Saturday, June 09, 2007. The PO# for this group is 92506 and the release number is MTI.

Client Description			Lancaster Labs Number
B-17-W-070606	Grab	Water	5076295
B-20-W-070606	Grab	Water	5076296
B-19-W-070606	Grab	Water	5076297
B-18-36-W-070606	Grab	Water	5076298
B-14-W-22-070607	Grab	Water	5076299

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Melissa A McDermott

Melissa A. McDermott
Senior Chemist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5076295

B-17-W-070606 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-17
Collected:06/06/2007 10:25 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	2.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	06/12/2007 17:51	K. Robert Caulfeild-James	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/16/2007 18:50	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2007 18:50	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/12/2007 17:51	K. Robert Caulfeild-James	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5076296

B-20-W-070606 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-20
Collected:06/06/2007 11:45 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. This sample was submitted with headspace.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	3.	ug/l	5
02011	di-Isopropyl ether	108-20-3	N.D.	3.	ug/l	5
02013	Ethyl t-butyl ether	637-92-3	N.D.	3.	ug/l	5
02014	t-Amyl methyl ether	994-05-8	N.D.	3.	ug/l	5
02015	t-Butyl alcohol	75-65-0	N.D.	10.	ug/l	5
05401	Benzene	71-43-2	N.D.	3.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	N.D.	3.	ug/l	5
05407	Toluene	108-88-3	N.D.	3.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	N.D.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	N.D.	3.	ug/l	5

The sample for the GC/MS volatile analysis was received with headspace.

The reporting limits for the GC/MS volatile compounds were raised due to insufficient sample volume (~10 mL of liquid).

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	06/13/2007 06:31	Carrie E Youtzy	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/16/2007 19:13	Michael A Ziegler	5
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2007 06:31	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2007 19:13	Michael A Ziegler	5

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5076296

B-20-W-070606 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-20
Collected:06/06/2007 11:45 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB20

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5076297

B-19-W-070606 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-19
Collected:06/06/2007 13:30 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	3.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	06/12/2007 18:21	K. Robert Caulfeild-James	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/16/2007 19:36	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2007 19:36	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/12/2007 18:21	K. Robert Caulfeild-James	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5076298

B-18-36-W-070606 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-18-36
Collected:06/06/2007 15:33 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	06/13/2007 07:16	Carrie E Youtzy	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/16/2007 19:59	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2007 07:16	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2007 19:59	Michael A Ziegler	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5076299

B-14-W-22-070607 Grab Water
Facility# 92506 MTI# 611962 CETK
2630 Broadway-Oakland T0600101812 B-14
Collected:06/07/2007 08:55 by JB

Account Number: 11997

Submitted: 06/09/2007 09:30
Reported: 06/21/2007 at 23:35
Discard: 07/22/2007

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

BWB14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	14.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	06/13/2007 07:47	Carrie E Youtzy	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	06/16/2007 20:21	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/13/2007 07:47	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/16/2007 20:21	Michael A Ziegler	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 06/21/07 at 11:35 PM

Group Number: 1041931

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07163A08A	Sample number(s): 5076295-5076299							
TPH-GRO - Waters	N.D.	50.	ug/l	112	113	75-135	1	30
Batch number: D071674AA	Sample number(s): 5076295-5076299							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	89		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	94		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	89		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	83		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	92		69-127		
Benzene	N.D.	0.5	ug/l	97		78-119		
1,2-Dichloroethane	N.D.	0.5	ug/l	85		77-132		
Toluene	N.D.	0.5	ug/l	98		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	93		81-114		
Ethylbenzene	N.D.	0.5	ug/l	94		82-119		
Xylene (Total)	N.D.	0.5	ug/l	100		83-113		

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: 07163A08A	Sample number(s): 5076295-5076299 UNSPK: P076590								
TPH-GRO - Waters	118		63-154						
Batch number: D071674AA	Sample number(s): 5076295-5076299 UNSPK: P076080								
Methyl Tertiary Butyl Ether	85	86	69-127	1	30				
di-Isopropyl ether	91	95	68-129	3	30				
Ethyl t-butyl ether	88	89	78-119	1	30				
t-Amyl methyl ether	84	83	72-125	2	30				
t-Butyl alcohol	88	86	64-130	2	30				
Benzene	98	99	83-128	1	30				
1,2-Dichloroethane	83	83	70-143	0	30				
Toluene	100	99	83-127	1	30				
1,2-Dibromoethane	95	97	78-120	3	30				
Ethylbenzene	100	99	82-129	1	30				
Xylene (Total)	101	101	82-130	0	30				

Surrogate Quality Control

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

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 06/21/07 at 11:35 PM

Group Number: 1041931

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: TPH-GRO - Waters
Batch number: 07163A08A

	Trifluorotoluene-F
5076295	78
5076296	78
5076297	78
5076298	75
5076299	74
Blank	80
LCS	84
LCSD	86
MS	81
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: D071674AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5076295	96	95	97	98
5076296	93	94	96	97
5076297	95	92	97	98
5076298	92	92	95	96
5076299	93	93	95	95
Blank	95	94	99	100
LCS	90	92	96	101
MS	94	96	96	104
MSD	93	95	98	109
Limits:	80-116	77-113	80-113	78-113

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11997 Sample #: 307295-9 SCR#: 244530
GT# 104193

MTI 61192662

Facility #: T-2506
Site Address: 2630 Broadway, Oakland CA
Chevron PM: Tom Baus Lead Consultant: CPA
Consultant/Office: CAA-Roseville
Consultant Prj. Mgr.: Brian Carey
Consultant Phone #: 916 677 1407 Fax #: 916 677 3687
Sampler: J. Bostick
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 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates 7	Lead 7420 ☐ 7421 ☐
B-17-W	W			20070606	1025	Y	X		3	X	X			X	
B-20-W					1145		X		3	X	X			X	
B-19-W					1330		X		3	X	X			X	
B-18-36-W					1533		X		3	X	X			X	
B-14@22				20070607	855		X		3	X	X			X	

Comments / Remarks

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:	4/6/07	1400	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date	Time
Temperature Upon Receipt 40 C°			Custody Seals Intact? Yes No	4/6/07	0730

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< 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

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.

U.S. EPA 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 quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
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 amount 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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CONESTOGA-ROVERS
& ASSOCIATES

ATTACHMENT F

Standard Field Procedures for Soil Borings

CONESTOGA-ROVERS & ASSOCIATES

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Conestoga-Rovers & Associates, Inc. (CRA) standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

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

Soil Classification/Logging

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

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

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic push technologies. Prior to drilling, the first 8 ft of the boring are cleared using an air or water knife and vacuum extraction. This minimizes the potential for impacting utilities.

At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

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

Sample Storage, Handling and Transport

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

Field Screening

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

Water Sampling

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

Duplicates and Blanks

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

Grouting

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.

Waste Handling and Disposal

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

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