CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: January 5, 2010

REFERENCE NO.: 240897

PROJECT NAME: 4411 Foothill Boulevard, Oakland

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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Alameda County
Environmental Health

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QUANTITY	DESCRIPTION
1	Subsurface Investigation Report

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Bill Phua, Foothill Blvd. LLC, P.O. Box 10664, Oakland, CA 94610

Completed by: Peter Schaefer Signed:

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Site No. RO0000415

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

SUBSURFACE INVESTIGATION REPORT

FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SAP CODE	135686
INCIDENT NO.	98995746
AGENCY NO.	RO0000415

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

JANUARY 5, 2010
REF. NO. 240897 (10)
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent subsurface investigation at this site per Alameda County Environmental Health's (ACEH's) August 7, 2009 letter. The purpose of the investigation was to properly destroy two on-site sub-slab soil vapor probes, install three off-site wells, and install and sample one off-site soil vapor probe. CRA followed the scope of work and procedures associated with the 4340 Bond St. property, located southeast of the site, presented in CRA's July 27, 2007 *Soil Gas Survey and Groundwater Assessment Work Plan,* which was approved by the ACEH in their August 17, 2007 letter.

The site is a former Shell service station located on the southern corner of the intersection of Foothill Boulevard and High Street in Oakland, California (Figure 1). The former station layout included three first-generation underground storage tanks (USTs) (1958 to 1971), three second-generation USTs (1971 to 1984), three third-generation gasoline USTs (1984 to 2002), a waste oil UST (removed 1992), and four product dispensers (removed 2002) as shown on Figure 2. Land use in the vicinity of the site is a mix of commercial and residential, with gasoline service stations occupying the northern and western corners of the intersection. The subject property is currently developed as a strip mall with a variety of commercial and retail uses.

A summary of previous work performed at the site and additional background information is contained in Appendix A.

2.0 EXECUTIVE SUMMARY

- Two on-site sub-slab soil vapor probes (SSV-1 and SSV-2) were properly destroyed.
- Three off-site groundwater monitoring wells (S-10 though S-12) were installed to characterize groundwater conditions southeast of the site.
- One off-site soil vapor probe (V-12) was installed. The soil vapor probe could not be sampled, because water was present in the probe's Teflon tubing.
- BTEX, fuel oxygenates, and lead scavengers were not detected in soil samples collected during this investigation.
- All TPHg detections in soil samples collected during this investigation are below RWQCB ESLs.

- Only one TPHd detection in soil exceeds ESLs (S-12-5.5'; 880 mg/kg). The laboratory noted that the TPHd reported does not match the diesel standard chromatographic pattern.
- The new groundwater monitoring wells were sampled during September 2009 and results will be submitted under separate cover. CRA recommends sampling the new wells quarterly for one hydrologic cycle.
- CRA recommends attempting to sample vapor probe V-12 again in the spring.

3.0 SUB-SLAB SOIL VAPOR PROBE DESTRUCTION

3.1 FIELD DATE

September 1, 2009.

3.2 PERSONNEL PRESENT

California Professional Geologist Peter Schaefer conducted the sub-slab soil vapor probe destructions.

3.3 DESTRUCTION METHOD

After removing the surface caps and stainless steel tubing, sub-slab soil vapor probes SSV-1 and SSV-2 were destroyed by backfilling with grout. Alameda County Public Works Agency (ACPWA) indicated that no permit was required to destroy the probes.

4.0 WELL INSTALLATION

4.1 PERMIT

CRA obtained a drilling permit from ACPWA (Appendix B).

4.2 FIELD DATES

August 27, 28, and 31, 2009.

4.3 DRILLING COMPANY

Gregg Drilling & Testing, Inc.

4.4 PERSONNEL PRESENT

Geologists Carmen Rodriguez and Erin Reinhart-Koylu directed the drilling under the supervision of California Professional Geologist Peter Schaefer.

4.5 DRILLING METHOD

Hollow-stem auger.

4.6 NUMBER OF BORINGS

Three soil borings were drilled and converted to three wells (S-10 through S-12). The well specifications and soil types encountered are described on the boring logs contained in Appendix C. The well locations are shown on Figure 2.

4.7 BORING DEPTHS

20 feet below grade (fbg).

4.8 GROUNDWATER DEPTH

Groundwater was first-encountered at 9.5 to 13 fbg.

4.9 WASTE DISPOSAL

Soil and water-knifing sludge generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is presented in Appendix D. The laboratory analytical report is presented in Appendix E.

5.0 SOIL VAPOR PROBE INSTALLATION AND SAMPLING

5.1 PERMIT

CRA obtained a drilling permit from ACPWA (Appendix B).

5.2 FIELD DATE

August 27, 2009.

5.3 DRILING COMPANY

Gregg Drilling & Testing, Inc.

5.4 PERSONNEL PRESENT

Geologist Carmen Rodriguez directed the probe installation working under the supervision of California Professional Geologist Peter Schaefer.

5.5 DRILLING METHOD

Air-knife.

5.6 NUMBER OF PROBES

CRA installed one soil vapor probe (V-12). The probe specifications and soil types encountered are described on the boring log contained in Appendix C. The probe location is shown on Figure 2.

5.7 VAPOR POINT MATERIALS

The vapor probe was constructed using ¼-inch diameter Teflon tubing attached to 1-inch length plastic screen interval, and #2/12 Monterey sand filter pack. A probe diagram is provided with boring logs in Appendix C.

5.8 SCREENED INTERVAL

4.16 to 4.25 fbg.

5.9 SOIL VAPOR SAMPLING

On October 1, 2009 and November 19, 2009, CRA attempted to sample soil vapor probe V-12 using a lung box and Tedlar® bag. The vapor probe could not be sampled, because water was present in the probe's Teflon tubing. Several attempts were made to clear the water without success. A total of approximately 7 liters of water were purged from the soil vapor probe.

5.10 WASTE DISPOSAL

Soil and water-knifing sludge generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is presented in Appendix D. The laboratory analytical report is presented in Appendix E.

6.0 FINDINGS

6.1 SOIL

The soil chemical analytical data are summarized in Table 1, and total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, and methyl tertiary-butyl ether (MTBE) analytical results are presented on Figure 3. Laboratory analytical reports are presented in Appendix D.

7.0 CONCLUSIONS

The soil boring data indicate that:

- No benzene, toluene, ethylbenzene, xylenes, fuel oxygenates, or lead scavengers were detected;

- TPHg concentrations were below San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESLs) for soil where groundwater is not a drinking water source (commercial/industrial land use); and
- The TPHd concentration in one soil sample collected at a depth near groundwater exceeds the ESL. The laboratory noted that the TPHd reported did not match the diesel standard's chromatographic pattern.

8.0 RECOMMENDATIONS

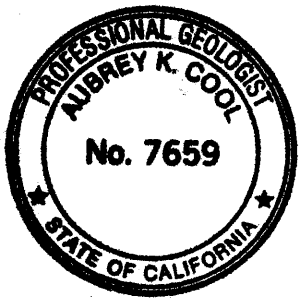
CRA recommends including the new wells in the groundwater monitoring program for at least a full hydrologic cycle (approximately 1 year). Wells S-10 through S-12 were developed and sampled during the third quarter 2009. These results will be submitted under a separate cover, in our groundwater monitoring report, to ACEH by January 12, 2010.

CRA recommends making an additional attempt to sample soil vapor probe V-12 at least one month after seasonal rains have stopped (likely in May 2010).

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG



FIGURES

11/03/08

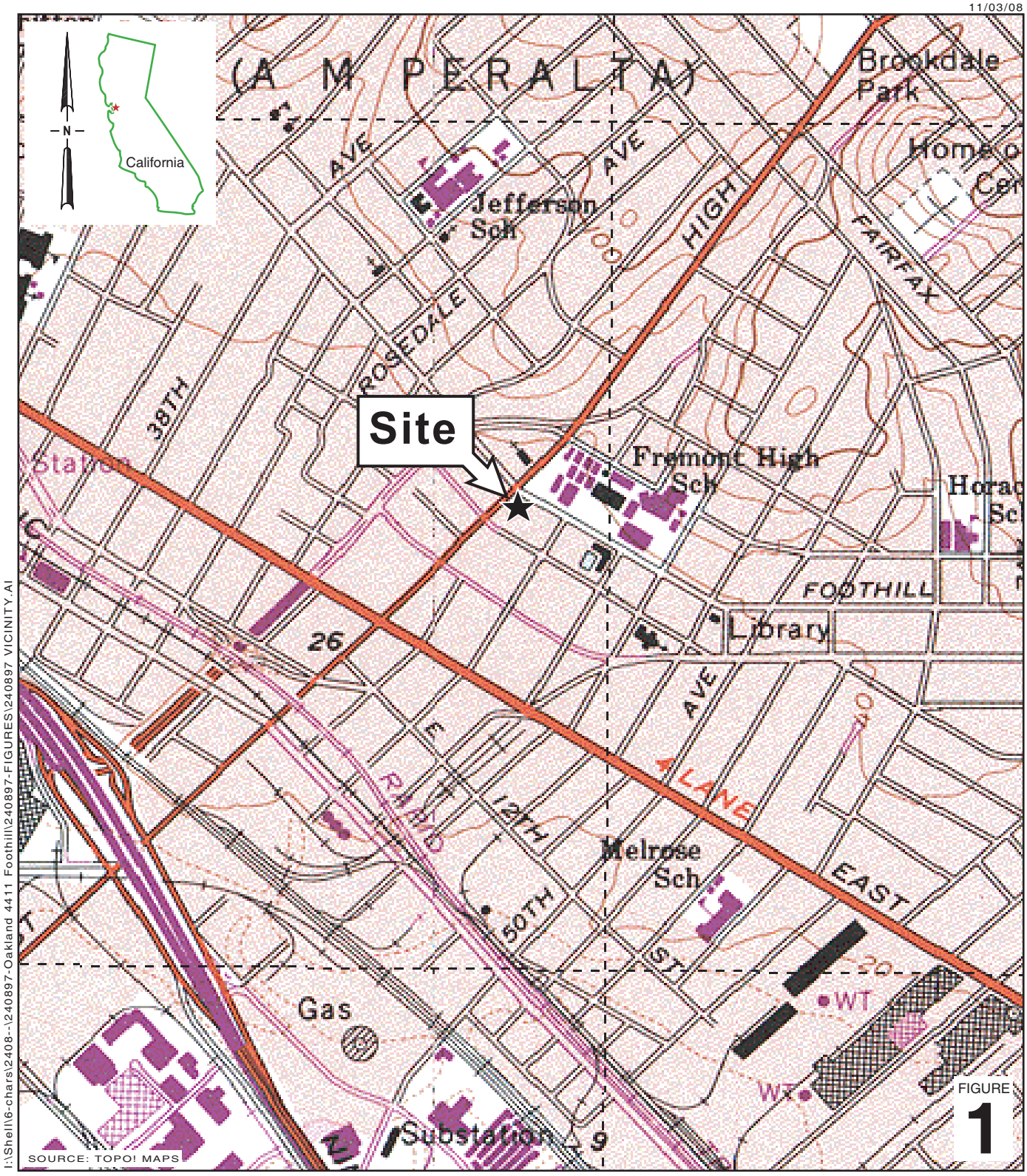


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FIGURE 1

0 1/6 1/3 1/2 1

SCALE : 1" = 1/6 MILE

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

01/04/10

Site Plan

HIGH STREET

FOOTHILL BOULEVARD

4411 Foothill

S-2

Wood Moulding & Doors
4413 Foothill

BLDG. A

Former Shell Station
4411 Foothill

BW-A

Laundromat

Third-Generation USTs
(1984 to 2002)

Former Dispenser Islands

SSV-1

SSV-2

V-1

V-2

V-3

V-4

V-5

V-6

V-7

S-5

S-6

S-8

4415 Foothill

4417 Foothill

BLDG. B

4419 Foothill

S-4

Jackson & Hewitt Tax Services
4421 Foothill

Parking Lot

S-7

V-8

Nails & Spa
4423 Foothill

Former Building

S-10

S-3

V-10

Former W/O UST
(removed 2002)

S-1

V-11

S-9

Planter

Restaurant

Residential
1724 High St.

Trash Encl.

V-9

First- and Second-Generation USTs
(~1958 to 1984)

S-11

Parking Lot

4340 Bond St.

Residential
4320 Bond St.

V-12

S-12

E

Planter

Sanit

STM

N

0 10 20 40

Scale (ft)

EXPLANATION

- S-6 Monitoring well location
- V-1 Soil vapor probe location
- SSV-1 Destroyed sub-slab soil vapor probe location
- S-1 Destroyed monitoring well location
- BW-A Destroyed tank backfill well location
- Electrical line (E)
- Telecommunications line (T)
- Gas line (GAS)
- Water line (W)
- Sanitary Sewer line (SAN)
- Storm drain line (STM)
- Unknown utility line
- Fire hydrant
- Catch basin
- Manhole
- Power pole
- Flow direction

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Former Shell Service Station

4411 Foothill Boulevard

Oakland, California

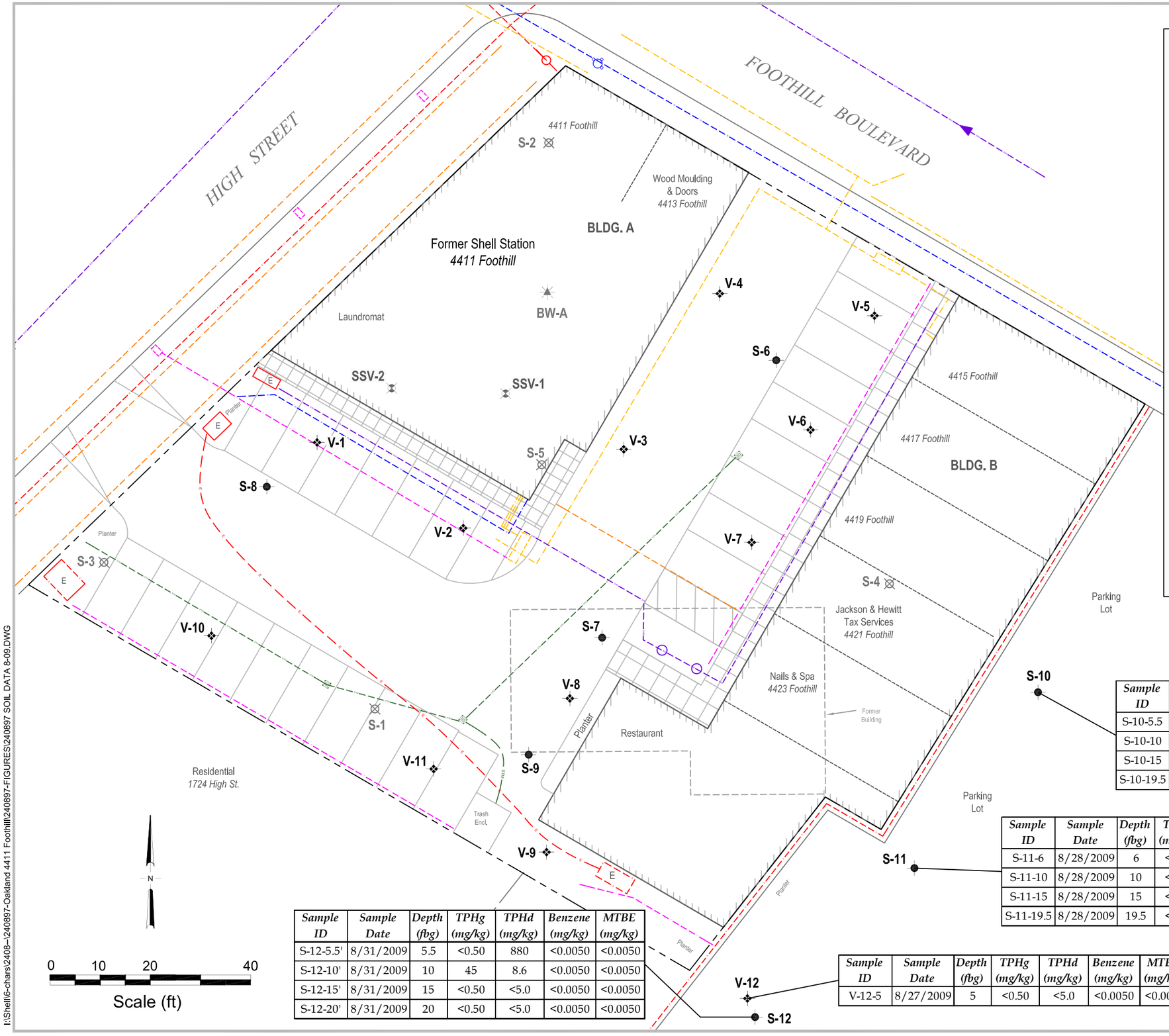
FIGURE

2

I:\Shell\6-chars\2408--\240897-Oakland 4411 Foothill\240897-FIGURES\240897 SITE PLAN.DWG

01/05/10

Soil Data Map



EXPLANATION

- S-6 Monitoring well location
- V-1 Soil vapor probe location
- SSV-1 Destroyed sub-slab soil vapor probe location
- S-1 Destroyed monitoring well location
- BW-A Destroyed tank backfill well location
- Electrical line (E)
- Telecommunications line (T)
- Gas line (GAS)
- Water line (W)
- Sanitary Sewer line (SAN)
- Storm drain line (STM)
- Unknown utility line
- Fire hydrant
- Catch basin
- Manhole
- Power pole
- Flow direction

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)
V-12-5	8/27/2009	5	<0.50	<5.0	<0.0050	<0.0050

Soil sample ID, date and depth in feet below grade (fbg) and concentrations, in milligrams per kilogram (mg/kg)

Notes:
<X = Not detected at reporting limit X

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)
S-10-5.5	8/28/2009	5.5	<0.50	<5.0	<0.0050	<0.0050
S-10-10	8/28/2009	10	<0.50	<5.0	<0.0050	<0.0050
S-10-15	8/28/2009	15	<0.50	<5.0	<0.0050	<0.0050
S-10-19.5	8/28/2009	19.5	<0.50	<5.0	<0.0050	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)
S-11-6	8/28/2009	6	<0.50	<5.0	<0.0050	<0.0050
S-11-10	8/28/2009	10	<0.50	<5.0	<0.0050	<0.0050
S-11-15	8/28/2009	15	<0.50	<5.0	<0.0050	<0.0050
S-11-19.5	8/28/2009	19.5	<0.50	32	<0.0050	<0.0050

Sample ID	Sample Date	Depth (fbg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)
S-12-5.5'	8/31/2009	5.5	<0.50	880	<0.0050	<0.0050
S-12-10'	8/31/2009	10	45	8.6	<0.0050	<0.0050
S-12-15'	8/31/2009	15	<0.50	<5.0	<0.0050	<0.0050
S-12-20'	8/31/2009	20	<0.50	<5.0	<0.0050	<0.0050

FIGURE

3

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\2408--\240897-Oakland 4411 Foothill\240897-FIGURES\240897 SOIL DATA 8-09.DWG

TABLE

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
SW-1	2/5/1992	11.0	<1.0	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA	NA	NA
S-1-6.0	11/24/1992	6.0	<1.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
S-1-11.0	11/24/1992	11.0	110	**180**	390	NA	0.45	<0.005	2.2	8	NA	NA	NA	NA	NA	NA	NA	NA
S-1-16.0	11/24/1992	16.0	2.8	<1.0	<1.0	NA	<0.050	0.51	0.097	0.50	NA	NA	NA	NA	NA	NA	NA	NA
S-1-21.0	11/24/1992	21.0	<1.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
S-1-26.0	11/24/1992	26.0	<1.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
S-2-6.0	5/21/1993	6.0	<0.5	<10	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
S-2-10.5	5/21/1993	10.5	95	<10	NA	NA	<0.005	<0.005	0.52	0.56	NA	NA	NA	NA	NA	NA	NA	NA
S-2-15.0	5/21/1993	15.0	<0.5	<10	NA	NA	<0.005	<0.005	<0.005	0.013	NA	NA	NA	NA	NA	NA	NA	NA
S-3-6.5	5/21/1993	6.5	<0.5	<10	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
S-3-11.0	5/21/1993	11.0	**1,300**	36	NA	NA	<0.005	<0.005	**35**	**200**	NA	NA	NA	NA	NA	NA	NA	NA
S-3-15.0	5/21/1993	15.0	<0.5	<10	NA	NA	<0.005	0.019	0.020	0.11	NA	NA	NA	NA	NA	NA	NA	NA
GP-3-8.0	6/28/1995	8.0	ND	2.0	NA	NA	0.006	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
GP-3-12.0	6/28/1995	12.0	8.4	3.7	NA	NA	0.13	0.029	0.14	0.36	NA	NA	NA	NA	NA	NA	NA	NA
GP-4-8.0	6/28/1995	8.0	7.2	2.9	NA	NA	0.098	0.009	0.054	0.13	NA	NA	NA	NA	NA	NA	NA	NA
GP-4-12.0	6/28/1995	12.0	**280.0**	3.7	NA	NA	ND	3.1	3.9	**25**	NA	NA	NA	NA	NA	NA	NA	NA
GP-5-8.0	6/28/1995	8.0	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
GP-5-12.0	6/28/1995	12.0	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
GP-6-8.0	6/27/1995	8.0	87	ND	NA	NA	**1.3**	2.2	**6.6**	7.3	NA	NA	NA	NA	NA	NA	NA	NA
GP-6-12.0	6/27/1995	12.0	39	ND	NA	NA	ND	0.14	0.29	5.4	NA	NA	NA	NA	NA	NA	NA	NA
GP-7-8.0	6/27/1995	8.0	ND	ND	NA	NA	ND	0.15	0.017	**180**	NA	NA	NA	NA	NA	NA	NA	NA
GP-7-12.0	6/27/1995	12.0	**840**	ND	NA	NA	**6.0**	**20**	**98**	**43**	NA	NA	NA	NA	NA	NA	NA	NA
GP-8-8.0	6/28/1995	8.0	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
GP-8-12.0	6/28/1995	12.0	86	ND	NA	NA	ND	1.0	2.0	**15**	NA	NA	NA	NA	NA	NA	NA	NA
GP-9-8.0	6/28/1995	8.0	**190**	ND	NA	NA	ND	3.6	**13**	**380**	NA	NA	NA	NA	NA	NA	NA	NA
GP-9-12.0	6/28/1995	12.0	**760**	ND	NA	NA	0.71	**17**	**76**	**41**	NA	NA	NA	NA	NA	NA	NA	NA
D-1(2.0)	8/26/1998	2.0	**1,100**	NA	NA	NA	**9.2**	4.1	**15**	**61**	13[a]/2.5	NA	NA	NA	NA	NA	NA	NA
D-2(2.0)	8/26/1998	2.0	**1,500**	NA	NA	NA	**3.6**	4.3	**7.1**	**21**	<6.2	NA	NA	NA	NA	NA	NA	NA
D-3(2.0)	8/26/1998	2.0	160	NA	NA	NA	**1.3**	0.61	2.9	2.0	1.4[a]	NA	NA	NA	NA	NA	NA	NA
D-4(2.0)	8/26/1998	2.0	**180**	NA	NA	NA	**0.29**	0.17	0.10	0.43	0.83	NA	NA	NA	NA	NA	NA	NA
SB-4-5.5	1/7/2000	5.5	<1.0	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.025	NA	NA	NA	NA	NA	NA	NA
SB-4-9.0	1/7/2000	9.0	**786**	**244**	NA	NA	**2.27**	1.68	**8.1**	**26.5**	<1.25	NA	NA	NA	NA	NA	NA	NA
SB-4-16.0	1/7/2000	16.0	**294**	**209**	NA	NA	1.5	4.35	3.88	**15.7**	0.893	NA	NA	NA	NA	NA	NA	NA
SB-4-19.5	1/7/2000	19.5	2.08	<1.0	NA	NA	0.212	0.0168	0.0168	0.0167	<0.025	NA	NA	NA	NA	NA	NA	NA
SB-4-24.5	1/7/2000	24.5	<1.0	<1.0	NA	NA	0.00724	<0.005	<0.005	<0.005	<0.025	NA	NA	NA	NA	NA	NA	NA
SB-4B-5.5	1/7/2000	5.5	28.2	27.2	NA	NA	0.0176	<0.01	0.0408	0.0738	0.0603[a]/0.0345	NA	NA	NA	NA	NA	NA	NA
SB-4B-10.5	1/7/2000	10.5	6.19	<5.0	NA	NA	0.0696	<0.025	0.0915	<0.025	<0.125	NA	NA	NA	NA	NA	NA	NA
SB-4B-19.0	1/7/2000	19.0	<1.0	<5.0	NA	NA	0.0445	<0.005	<0.005	<0.005	0.233[a]/0.0549	NA	NA	NA	NA	NA	NA	NA
T1W-8.5' (A1)	12/1/2001	8.5	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.034	NA	NA	NA	NA	NA	NA	NA
T1E-9' (A1)	12/1/2001	9.0	5.0	NA	NA	NA	<0.005	<0.005	0.049	0.04	0.14	NA	NA	NA	NA	NA	NA	NA
T2W-8.5' (A1)	12/1/2001	8.5	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.12	NA	NA	NA	NA	NA	NA	NA
T2E-9' (A1)	12/1/2001	9.0	<1.0	NA	NA	NA	<0.005	0.015	<0.005	0.020	0.012	NA	NA	NA	NA	NA	NA	NA
T3W-8.5' (A1)	12/1/2001	8.5	1.8	NA	NA	NA	<0.005	<0.005	<0.005	0.015	0.21	NA	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
T3E-9' (A1)	12/1/2001	9.0	1.2	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.32	NA	NA	NA	NA	NA	NA	NA
D1-4.5' (B)	12/1/2001	4.5	**1,000**	NA	NA	NA	**1.4**	0.20	**15**	5.1	0.35	NA	NA	NA	NA	NA	NA	NA
D2-4' (B)	12/1/2001	4.0	**270**	NA	NA	NA	0.18	<0.050	0.11	0.094	1.4	NA	NA	NA	NA	NA	NA	NA
D3-4.5' (A1)	12/1/2001	4.5	6.3	NA	NA	NA	0.097	0.007	0.036	0.024	0.058	NA	NA	NA	NA	NA	NA	NA
D4-4.5' (A1)	12/1/2001	4.5	4.9	NA	NA	NA	0.12	<0.005	0.033	0.067	0.021	NA	NA	NA	NA	NA	NA	NA
P1-4' (A1)	12/1/2001	4.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.009	NA	NA	NA	NA	NA	NA	NA
P2-4.5' (A1)	12/1/2001	4.5	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.061	NA	NA	NA	NA	NA	NA	NA
P3-4.5' (A1)	12/1/2001	4.5	4.1	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA
P4-4.5' (A1)	12/1/2001	4.5	11	NA	NA	NA	0.035	<0.005	0.035	0.012	0.13	NA	NA	NA	NA	NA	NA	NA
P5-4.5' (A1)	12/1/2001	4.5	51	NA	NA	NA	<0.005	<0.005	<0.005	0.34	0.14	NA	NA	NA	NA	NA	NA	NA
E-1-8.0 (A2)	1/2/2002	8.0	9.5	NA	NA	NA	0.19	0.09	0.94	5.2	<0.02	NA	NA	NA	NA	NA	NA	NA
E-2-8.0 (A2)	1/2/2002	8.0	7.5	NA	NA	NA	0.23	0.04	0.91	2.0	0.23	NA	NA	NA	NA	NA	NA	NA
E-3-8.0 (A2)	1/2/2002	8.0	3.7	NA	NA	NA	**0.46**	0.06	3.9	0.52	0.54	NA	NA	NA	NA	NA	NA	NA
E-4-8.0 (A2)	1/2/2002	8.0	1.5	NA	NA	NA	0.093	0.005	0.005	0.006	0.041	NA	NA	NA	NA	NA	NA	NA
E-5-12.0 (A2)	1/2/2002	12.0	54	NA	NA	NA	0.71	0.46	2.6	**16**	<0.02	NA	NA	NA	NA	NA	NA	NA
E-6-11.0 (A2)	1/2/2002	11.0	75	NA	NA	NA	**2.9**	3.6	**12**	**54**	<0.02	NA	NA	NA	NA	NA	NA	NA

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Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
E-7-14.0 (A2)	1/2/2002	14.0	41	NA	NA	NA	1.0	0.53	2.2	**11**	<0.02	NA	NA	NA	NA	NA	NA	NA
E-8-11.0 (A2)	1/2/2002	11.0	**310**	NA	NA	NA	**2.0**	1.8	**14**	**77**	<0.02	NA	NA	NA	NA	NA	NA	NA
E-9-9.0 (A2)	1/2/2002	9.0	55	NA	NA	NA	0.06	0.03	0.05	0.08	0.03	NA	NA	NA	NA	NA	NA	NA
E-10-9.0 (A2)	1/3/2002	9.0	<0.20	NA	NA	NA	0.002	0.004	<0.002	0.007	0.082	NA	NA	NA	NA	NA	NA	NA
E-11-9.0 (A2)	1/3/2002	9.0	<0.20	NA	NA	NA	0.007	<0.002	<0.002	<0.002	0.010	NA	NA	NA	NA	NA	NA	NA
E-12-11.0 (A2)	1/3/2002	11.0	23	NA	NA	NA	1.1	0.12	2.0	**12**	0.48	NA	NA	NA	NA	NA	NA	NA
E-13-9.0 (A2)	1/3/2002	9.0	<0.20	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	0.012	NA	NA	NA	NA	NA	NA	NA
E-14-9.0 (A2)	1/3/2002	9.0	2.7	NA	NA	NA	0.005	<0.002	0.19	0.23	0.024	NA	NA	NA	NA	NA	NA	NA
E-15-11.0 (A2)	1/4/2002	11.0	**1,800**	NA	NA	NA	**9.6**	**42**	**100**	**590**	0.33	NA	NA	NA	NA	NA	NA	NA
E-16-11.0 (A2)	1/4/2002	11.0	**770**	NA	NA	NA	**3.8**	2.8	**37**	**210**	<0.02	NA	NA	NA	NA	NA	NA	NA
E-17-13.0 (A2)	1/4/2002	13.0	31	NA	NA	NA	0.65	0.19	2.5	8.3	0.04	NA	NA	NA	NA	NA	NA	NA
E-18-13.0 (A2)	1/4/2002	13.0	17	NA	NA	NA	1.2	2.8	1.0	2.2	<0.02	NA	NA	NA	NA	NA	NA	NA
E-19-9.0 (A2)	1/4/2002	9.0	0.54	NA	NA	NA	0.002	<0.002	0.004	0.027	0.014	NA	NA	NA	NA	NA	NA	NA
C-1-8.0 (B)	1/7/2002	8.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	NA
C-2-8.0 (B)	1/7/2002	8.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.010	<0.5	NA	NA	NA	NA	NA	NA	NA
C-3-3.5 (B)	1/7/2002	3.5	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	NA

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Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
C-4-8.0 (B)	1/7/2002	8.0	**290**	NA	NA	NA	0.15	<0.050	**4.9**	8.9	<0.5	NA	NA	NA	NA	NA	NA	NA
C-5-8.0 (B)	1/7/2002	8.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	NA
C-6-4.0 (B)	1/7/2002	4.0	6.5	NA	NA	NA	<0.005	<0.005	<0.005	<0.010	<0.5	NA	NA	NA	NA	NA	NA	NA
C-7-8.0 (B)	1/7/2002	8.0	87	NA	NA	NA	<0.025	<0.025	0.43	<0.050	<0.5	NA	NA	NA	NA	NA	NA	NA
C-8-4.0 (B)	1/7/2002	8.0	81	NA	NA	NA	0.026	<0.025	0.038	<0.050	<0.5	NA	NA	NA	NA	NA	NA	NA
C-9-9.0 (B)	1/7/2002	9.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	0.65	NA	NA	NA	NA	NA	NA	NA
C-10-9.0 (B)	1/7/2002	9.0	84	NA	NA	NA	0.039	<0.025	0.61	0.27	<0.5	NA	NA	NA	NA	NA	NA	NA
C-11-9.0 (B)	1/7/2002	9.0	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	NA
C-12-9.0 (B)	1/7/2002	9.0	6.6	NA	NA	NA	<0.010	<0.010	0.013	<0.025	<0.5	NA	NA	NA	NA	NA	NA	NA
C-13-4.0 (B)	1/7/2002	4.0	2.7	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	NA
C-14-4.0 (B)	1/7/2002	4.0	11	NA	NA	NA	<0.050	<0.050	<0.050	<0.10	<0.5	NA	NA	NA	NA	NA	NA	NA
C-15-8.0 (B)	1/7/2002	8.0	**250**	NA	NA	NA	<0.050	<0.050	4.4	4.7	<0.5	NA	NA	NA	NA	NA	NA	NA
H-1-9.0 (B)	1/17/2002	9.0	120	NA	NA	14,000	0.094	<0.025	0.047	0.18	<0.5	NA	NA	NA	NA	NA	NA	NA
H-1-11.0 (B)	1/17/2002	11.0	**210**	NA	NA	230	0.2	0.071	2.2	10	<0.5	NA	NA	NA	NA	NA	NA	NA
H-2-9.0 (B)	1/17/2002	9.0	32	NA	NA	<10	0.015	<0.005	0.048	0.053	<0.5	NA	NA	NA	NA	NA	NA	NA
H-2-11.0 (B)	1/17/2002	11.0	**400**	NA	NA	78	0.54	0.1	**7.3**	**24**	<0.5	NA	NA	NA	NA	NA	NA	NA

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Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
H-3-11.0 (B)	1/17/2002	11.0	**250**	NA	NA	<10	0.21	0.52	3.1	**14**	<0.5	NA	NA	NA	NA	NA	NA	NA
TB-1-7.0	8/29/2005	7.0	2.2 [b]	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	21.2
TB-1-10.5	8/29/2005	10.5	**1,600**	NA	NA	NA	<0.50	<0.50	1.5	0.84	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	10.9
TB-1-12.0	8/29/2005	12.0	**570**	NA	NA	NA	1.5	<0.50	3.3	1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	291
TB-1-15.0	8/29/2005	15.0	<50	NA	NA	NA	0.86	<0.50	0.79	2.3	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	4.00
TB-1-18.0	8/29/2005	18.0	<50	NA	NA	NA	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	3.81
TB-1-19.5	8/29/2005	19.5	<50	NA	NA	NA	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	4.38
TB-3-3.0	8/29/2005	3.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	2.22
TB-3-6.0	8/29/2005	6.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	0.021	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	16.3
TB-3-9.0	8/29/2005	9.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	4.20
TB-3-12.0	8/29/2005	12.0	**1,100**	NA	NA	NA	<0.50	<0.50	**11**	**48**	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	10.2
TB-3-15.0	8/29/2005	15.0	<50	NA	NA	NA	2.2	<0.50	<0.50	1.8	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	5.60
TB-3-18.0	8/29/2005	18.0	<50	NA	NA	NA	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	3.85
TB-3-21.0	8/29/2005	21.0	<1.0	NA	NA	NA	0.0070	<0.0050	<0.0050	0.009	0.0062	0.0062	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	3.20
TP-1-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.023	<0.0050	<0.0050	NA	NA	NA
TP-2-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	0.044	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	<0.0050	<0.0050	NA	NA	NA
TP-3-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.018	<0.0050	<0.0050	NA	NA	NA
TP-4-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0066	<0.0050	<0.0050	NA	NA	NA
TP-5-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013	<0.0050	<0.0050	NA	NA	NA
TP-6-20.0	9/20/2005	20.0	<1.0	NA	NA	NA	0.0080	<0.0050	0.0083	0.040	<0.0050	<0.0050	0.012	<0.0050	<0.0050	NA	NA	NA
SB-5-5	5/17/2006	5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-5-10	5/17/2006	10	2.2	23	NA	NA	<0.0050	<0.0050	0.020	0.017	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-5-15	5/17/2006	15	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-5-20	5/17/2006	20	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-5-23.5	5/17/2006	23.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-6-5	5/16/2006	5	<1.0	3.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA

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Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
SB-6-10	5/16/2006	10	**390**	5.8	NA	NA	<0.025	<0.025	<0.025	<0.050	<0.025	<0.25	NA	NA	NA	NA	NA	NA
SB-6-15	5/16/2006	15	<5.0[c]	<2.0	NA	NA	<0.0050	0.010	0.068	0.20	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-6-20	5/16/2006	20	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-6-25	5/16/2006	25	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-7-5	5/17/2006	5	<50[c]	2.5	NA	NA	0.011	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-7-10	5/17/2006	10	**290[c]**	20	NA	NA	<0.50[c]	<0.50[c]	3.2[c]	3.0[c]	<0.50[c]	<5.0[c]	NA	NA	NA	NA	NA	NA
SB-7-15	5/17/2006	15	**3,000[c]**	110	NA	NA	**3.7**	**60[c]**	**47[c]**	**270[c]**	<0.50	<5.0	NA	NA	NA	NA	NA	NA
SB-7-20	5/17/2006	20	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	0.034	0.46	NA	NA	NA	NA	NA	NA
SB-7-25	5/17/2006	25	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-8-5[d]	5/15/2006	5	<1.0	3.1	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-8-10[d]	5/15/2006	10	<1.0[c]	3.1	NA	NA	<0.0050[c]	<0.0050[c]	<0.0050[c]	<0.010[c]	<0.0050[c]	<0.50[c]	NA	NA	NA	NA	NA	NA
SB-12-5	5/16/2006	5	<1.0	2.1	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-12-10	5/16/2006	10	**230**	19	NA	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	NA	NA	NA	NA	NA	NA
SB-12-15	5/16/2006	15	<1.0	<2.0	NA	NA	0.014	0.0062	0.0084	0.014	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-12-20	5/16/2006	20	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
SB-12-25	5/16/2006	25	<1.0	4.0	NA	NA	0.0074	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	NA	NA	NA
S-6-5.5	2/7/2007	5.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.6
S-6-10	2/7/2007	10	**230**	9.6	NA	NA	1.8	0.17	**6.1**	2.4	<0.12	<1.2	NA	NA	NA	<0.12	<0.12	3.4
S-6-15	2/7/2007	15	<25	2.7	NA	NA	0.046	<0.0050	0.093	0.16	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.0
S-6-19.5	2/7/2007	19.5	69	62	NA	NA	2.6	0.28	**5.4**	5.9	0.14	<1.2	NA	NA	NA	<0.12	<0.12	12
S-7-5.5	2/8/2007	5.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.6
S-7-10	2/8/2007	10	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.4
S-7-15	2/8/2007	15	30	9.6	NA	NA	0.099	0.15	0.31	2.3	<0.025	<0.25	NA	NA	NA	<0.025	<0.025	4.3
S-7-19.5	2/8/2007	19.5	<1.0	<2.0	NA	NA	0.23	0.019	0.032	0.056	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.0
S-8-5.5	2/7/2007	5.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	4.5
S-8-10	2/7/2007	10	**220**	15	NA	NA	0.056	0.07	3.8	**17**	<0.025	<0.25	NA	NA	NA	<0.025	<0.025	5.3

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4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
S-8-15	2/7/2007	15	37	<2.0	NA	NA	**2.3**	2.5	7.1	**24**	<0.12	<1.2	NA	NA	NA	<0.12	<0.12	7.1
S-8-19.5	2/7/2007	19.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	0.013	0.28	1.6	NA	NA	NA	<0.0050	<0.0050	4.6
S-9-5.5	2/8/2007	5.5	<1.0	2.8	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	5.4
S-9-10	2/8/2007	10	23	16	NA	NA	<0.025	<0.025	<0.025	<0.050	<0.025	<0.25	NA	NA	NA	<0.025	<0.025	4.9
S-9-13.5	2/8/2007	13.5	<1.0	26	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	9.9
S-9-19.5	2/8/2007	19.5	<1.0	<2.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	NA	NA	NA	<0.0050	<0.0050	4.7
V-1-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-2-5	12/14/2007	5	13[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	0.021	0.022	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-3-5	12/14/2007	5	0.85[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-4-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-5-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-6-5	12/14/2007	5	11[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-7-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-10-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-11-5	12/14/2007	5	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
V-12-5	8/27/2009	5	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-10-5.5	8/28/2009	5.5	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-10-10	8/28/2009	10	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-10-15	8/28/2009	15	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-10-19.5	8/28/2009	19.5	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*
S-11-6	8/28/2009	6	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-11-10	8/28/2009	10	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-11-15	8/28/2009	15	<0.50	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-11-19.5	8/28/2009	19.5	<0.50	32[e,g]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-12-5.5'	8/31/2009	5.5	<0.50[f]	880[e,g]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-12-10'	8/31/2009	10	45[f,g]	8.6[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-12-15'	8/31/2009	15	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
S-12-20'	8/31/2009	20	<0.50[f]	<5.0[e]	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.0050	NA
Shallow Soil (≤10 fbg) ESL[h]:			180	180	–	–	0.27	9.3	4.7	11	8.4	110	–	–	–	0.48	0.044	750
Deep Soil (>10 fbg) ESL[h]:			180	180	–	–	2.0	9.3	4.7	11	8.4	110	–	–	–	1.8	1.0	750

Notes:

All results in miligrams per kilograms (mg/kg) unless otherwise indicated.
fbg = Feet below grade
TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B; before August 29, 2005, analyzed by EPA Method 8015 (Modified) unless otherwise noted.
TPHd = Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015 (Modified)
TPHmo = Total petroleum hydrocarbons as motor oil, analyzed by EPA Method 8015 (Modified)
Hydraulic oil analyzed by EPA Method 8260B
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B;before August 29, 2005, analyzed by EPA Method 8020 (Modified).
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B unless otherwise noted.
TBA = Tertiary-butanol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2 DCA = 1,2-dichloroethane, analyzed by modified EPA Method 8260B.
EDB = Ethylene dibromide, analyzed by modified EPA Method 8260B.
Lead by EPA Method 7421
<x = Not detected at reporting limit x
NA = Not analyzed
ND = Concentration below reporting limit; reporting limit unknown.
ESL = Environmental screening level
– = ESL not available

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*TPHd*	*TPHmo*	*Hydraulic Oil*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	1,2 DCA	EDB	*Lead*

Results in **bold** equalt or exceed applicable ESL

a = Analyzed by EPA Method 8020
b = Quantity of unknown hydrocarbon(s) in sample based on gasoline
c = Analysis was performed past the recommended hold time
d = Soil samples in boring S-8 were not collected below 10 fbg because the water table in this boring was encountered at approximately 9.5 fbg.
e = The sample extract was subjected to silica gel treatment prior to analysis.
f = Analyzed by Modified EPA Method 8015B
g = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
h = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

APPENDIX A

SITE HISTORY

SITE HISTORY

1958 UST Piping Leak: On April 19, 1958, a gasoline shortage was discovered at the operating Shell station. It was determined that there was a piping leak into a concrete pump pit and then into the soil in the vicinity of the storage tanks. Separate phase hydrocarbons (SPHs) were found in an irrigation well located at 4320 Bond Street, adjacent to the Shell site. Shell installed 22 8-inch wells to depths of 15 feet below grade (fbg) along the property boundary and one well within the tank complex. Groundwater was pumped from the wells, and the extracted water was transported to a separator. Though the volume of the release is not known, Shell reported in a June 2, 1958 letter to Traveler's Insurance Company that they recovered 650 gallons of gasoline from the wells.

1971 UST Removal and Replacement: A Shell document dated July 15, 1971 notes plans to remove the existing 6,000-gallon underground storage tanks (USTs). An invoice dated September 17, 1971 indicates the delivery of one 10,000-gallon UST, one 8,000-gallon UST, and one 550-gallon underground waste oil tank.

1977 Dispenser Piping Leak: A Shell Oil Company Spill Report dated October 19, 1977 documents the release of 2,000 gallons of gasoline from a leaking pipe that ran from the USTs to the dispenser located closest to High Street. The report noted that the damaged section of pipe was replaced and that leak detectors were installed on all systems.

1984 UST Removal and Replacement: A Shell purchase order dated October 1, 1984 indicates the removal of the then-existing USTs and installation of three 10,000-gallon fiberglass USTs.

1991 Waste Oil Tank Leak: On June 5, 1991, Shell submitted to Alameda County Environmental Health (ACEH) an Underground Storage Tank Unauthorized Release Report detailing a release from the 550-gallon waste oil tank at the site. The report stated that the release was caused by tank failure, that the volume of release was unknown, and that the contents of the tank had been removed.

1992 Waste Oil Tank Removal: A 550-gallon waste oil tank was removed on February 5, 1992. A soil sample was collected at the bottom of the excavation at a depth of approximately 11 fbg. No total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene and xylenes (BTEX), oil and grease, halogenated volatile organic compounds, or metals were detected in the sample. Total lead was detected at 6.7 milligrams per kilogram (mg/kg).

Details of the waste oil tank removal and sampling activities are presented in a March 26, 1992 GeoStrategies Inc. (GeoStrategies) report.

1992 Monitoring Well Installation: A single monitoring well (S-1) was installed in the vicinity of the waste oil tank location. Details of this well installation are presented in the GeoStrategies' January 19, 1993 *Monitoring Well Installation Report.*

1993 Monitoring Well Installation: Hydro Environmental Technologies, Inc. (HETI) installed monitoring wells S-2 and S-3 on May 21, 1993. Well installation details are presented in HETI's July 22, 1993 report.

1995 Soil and Groundwater Investigation: Pacific Environmental Group (PEG) of San Jose, California conducted a Geoprobe® investigation in June 1995. The investigation consisted of advancing eight on-site soil borings and two off-site borings to collect soil and groundwater samples. PEG's September 12, 1995 *Site Investigation* report presents investigation details.

1998 Product Equipment Upgrades: In November 1998, Paradiso Mechanical (Paradiso) of San Leandro, California upgraded the service station by adding secondary containment to the gasoline turbines and dispensers. Details of dispenser upgrade and sampling activities are presented in Cambria Environmental Technology Inc.'s (Cambria's) November 30, 1998 *Dispenser Soil Sampling Report.*

September 1999 Oxygen Releasing Compound (ORC) remediation: ORC socks were installed in wells S-1, S-2, and BW-A.

December 1999 Site Conceptual Model (SCM) and Conduit Study: A subsurface conduit study identified several conduits, which may provide limited preferential groundwater flow at times of shallow groundwater depth.

January 2000 Monitoring Well Installation: Cambria installed one well (S-4) adjacent to the southeast corner of the station building. The maximum TPHd and TPHg concentrations were 27.2 mg/kg and 28.2 mg/kg, respectively. Investigation details are contained in Cambria's November 17, 2000 *Site Investigation Report.*

February 2000 Sensitive Receptor Survey (SRS): A SRS conducted by Cambria identified 58 monitoring, test, or industrial wells located within a ½-mile radius of the site. No municipal, domestic, or irrigation wells were identified.

November 2001 Corrective Action Plan (CAP): On November 12, 2001, Cambria submitted a CAP in preparation for impending site demolition and fueling facility removal. In the CAP, Cambria discussed remedial alternatives and made remedial action recommendations. Cambria recommended additional on-site over-excavation, following removal of the underground facilities, to substantially remove residual impacted soils from within the property boundaries. Cambria also recommended removing groundwater from the excavation, and placing ORC at the base of the excavation to enhance biological degradation of residual-impacted soil and groundwater. Continued quarterly groundwater monitoring was recommended to track the subsequent natural attenuation process.

February 2002 UST Removal: Paradiso removed the gasoline USTs and hydraulic hoists, and over-excavated approximately 1,250 cubic yards of impacted soil around and beneath the USTs, product dispenser islands, and hydraulic hoists. Phillips Services Corporation extracted approximately 16,000 gallons of groundwater from the excavation pits. Following over-excavation, Paradiso placed 810 pounds of ORC powder on the bottom of the excavation. Details of the fuel facilities removal and corrective action are presented in Cambria's February 25, 2002 *Underground Storage Tank Closure Report.*

May 2002 Well Installation: In May 2002, Cambria installed one groundwater monitoring well (S-5). The well installation is described in Cambria's July 2, 2002 *Monitoring Well Installation Report.*

2005 Subsurface Investigation Work Plan and SCM: In response to a request in a June 10, 2005 letter from ACHCSA, Cambria submitted a *Subsurface Investigation Work Plan and Site Conceptual Model* on August 16, 2005. In anticipation of site redevelopment, Cambria recommended destroying all on-site wells, and replacing them after site development was completed.

2005 Well Destructions: In anticipation of redevelopment of the site, Cambria destroyed wells S-1 through S-5 on July 14, 2005. The well destructions were completed in accordance with Alameda County Public Works Agency and San Francisco Regional Water Quality Control Board guidelines. The well destructions are described in Cambria's August 19, 2005 *Well Destruction Report.*

2005 Subsurface Investigation and Over-Excavation: In August 2005, Cambria advanced two soil borings to investigate the extent of petroleum-hydrocarbon-impacted soil and groundwater from the 1958 piping leak. Borings TB-1 and TB-3 contained concentrations of up to 1,600 mg/kg TPHg in soil and 180,000 micrograms per

liter (µg/l) TPHg, 22,000 µg/l benzene, 9,700 µg/l toluene, 5,200 µg/l ethylbenzene, 25,000 µg/l total xylenes, and 13.4 µg/l lead in groundwater. Because the former UST area was located within the proposed footprint of a new building to be constructed at the site, Cambria excavated soil to the extent feasible in order to remove hydrocarbon-impacted soil beneath the building prior to site redevelopment. The excavation was completed to dimensions of 20 feet long by 25 feet wide by 20 feet deep. Following excavation, Cambria collected one confirmation soil sample from each sidewall and two soil samples from the excavation base. The maximum concentrations in the excavation samples were 0.050 mg/kg benzene, 0.0083 mg/kg ethylbenzene, 0.040 mg/kg xylenes, and 0.023 mg/kg di-isopropyl ether. TPHg, toluene, methyl tertiary-butyl ether (MTBE) and tertiary-butyl alcohol (TBA) were not detected in the excavation samples. No water was observed in the bottom of the excavation. The activities are described in their entirety in Cambria's November 16, 2005 *Subsurface Investigation and Over-Excavation Report.*

2006 Subsurface Investigation for Replacement Wells: In May 2006, Cambria advanced five soil borings (SB-5 through SB-8, and SB-12) at the site to assess the vertical profile of subsurface contamination. Petroleum hydrocarbons were found in soils in the vicinity of the former USTs, dispensers, and product piping, to depths above approximately 15 fbg. Historical maximum concentrations of petroleum constituents in soils are 3,100 mg/kg TPHg, 244 mg/kg TPHd, 9.6 mg/kg benzene, and 2.5 mg/kg MTBE. The vertical extent of petroleum constituents in groundwater at the site was defined by the groundwater results from boring SB-12, located just down gradient of the first- and second-generation USTs. The results from the groundwater sample from 31 to 35 fbg in this boring indicated that the petroleum constituent concentrations attenuate by one to two orders of magnitude with depth. The activities are described in Cambria's July 25, 2005 *Subsurface Investigation Report and Monitoring Well Installation Work Plan.*

2007 Subsurface Investigation to Install Replacement Wells: Conestoga-Rovers & Associates (CRA) installed four replacement wells (S-6 through S-9) at locations determined by the findings of Cambria's July 25, 2005 *Subsurface Investigation Report and Monitoring Well Installation Work Plan.* Low concentrations of TPHd, TPHg, benzene, MTBE, and TBA were found in soils extending into the groundwater interface. Concentrations of TPHd, TPHg, BTEX, and MTBE were reported in the groundwater samples from all four wells. Additionally, concentrations of TBA and 1,2-dichlorethane (1,2-DCA) were reported in all wells except S-9. The maximum concentrations of TPHg and benzene were detected in the sample from well S-7 (March 2007) at 100,000 and 32,000 µg/l, respectively. The activities are described in CRA's April 19, 2007 *Site Investigation and First Quarter 2007 Groundwater Monitoring Report.*

2007 Soil Vapor Investigation: CRA installed nine on-site soil vapor probes (V-1 through V-7, V-10, and V-11) at depths of approximately 5 fbg. The probe installation details are presented in CRA's March 13, 2008 *Soil Vapor Probe Installation and Sampling Report.*

2008 Soil Vapor Monitoring: CRA conducted three rounds of soil vapor monitoring utilizing the on-site soil vapor probes. TPHg, benzene, and ethylbenzene were detected at concentrations exceeding San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESLs) for shallow soil gas with commercial land use. The monitoring results are presented in CRA's November 10, 2008 *Soil Vapor Probe Installation and Sampling Report.*

2009 Sub-Slab Soil Vapor Investigation: In March of 2009, CRA installed two sub-slab soil vapor probes (SSV-1 and SSV-2) into the subsurface beneath the on-site laundromat's building footprint to further assess soil vapor concentrations beneath the site. The sub-slab soil vapor probe sample collected from SSV-2 did not contain BTEX, and BTEX detections in SSV-1 were below ESLs. Details of this investigation are presented in CRA's June 22, 2009 *Sub-Slab Soil Vapor Probe Installation and Sampling Report.*

Groundwater Monitoring Program: Groundwater has been monitored at the site since December 1992. Groundwater depths have ranged from approximately 6 to 12 fbg. The calculated groundwater gradient typically trends southwesterly. During the second quarter 2009 sample event, maximum concentrations were 69,000 µg/l TPHg (S-8), 3,300 µg/l TPHd (S-7), 16,000 µg/l benzene (S-7), and 250 µg/l MTBE (S-7).

APPENDIX B

PERMIT

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: 08/24/2009 By jamesy

Permit Numbers: W2009-0756 to W2009-0759
Permits Valid from 08/27/2009 to 08/31/2009

Application Id: 1250540562510
City of Project Site: Oakland
Site Location: 4340 Bond St, Oakland, CA
Project Start Date: 08/26/2009
Completion Date: 08/27/2009
Assigned Inspector: Contact James Yoo at (510) 670-6633 or jamesy@acpwa.org
Extension Start Date: 08/27/2009
Extension End Date: 08/31/2009
Extension Count: 2
Extended By: jamesy

Applicant: Conestoga-Rovers & Associates - Carmen Rodriguez
5900 Hollis St, Ste. A, Emeryville, CA 94608
Phone: 510-420-0700

Property Owner: Juvenal Chavez
5279 Felter Rd., San Jose, CA 95132
Phone: 408-240-5678

Client: ** same as Property Owner **

Total Due: $1456.00
Receipt Number: WR2009-0311 **Total Amount Paid:** $1456.00
Payer Name : Conestoga-Rovers & Paid By: CHECK **PAID IN FULL**
Asscoaites

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Gregg - Lic #: 485165 - Method: other

Work Total: $1191.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0756	08/24/2009	11/24/2009	S-10	10.00 in.	4.00 in.	3.00 ft	20.00 ft
W2009-0757	08/24/2009	11/24/2009	S-11	10.00 in.	4.00 in.	3.00 ft	20.00 ft
W2009-0758	08/24/2009	11/24/2009	S-12	10.00 in.	4.00 in.	3.00 ft	20.00 ft

Specific Work Permit Conditions

1. 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.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact James Yoo for an inspection time at 510-670-6633 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.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. 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.

Borehole(s) for Investigation-Geotechnical Study/CPT's - 1 Boreholes
Driller: Gregg - Lic #: 485165 - Method: other **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0759	08/24/2009	11/24/2009	1	3.00 in.	5.00 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. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground

Alameda County Public Works Agency - Water Resources Well Permit

Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact James Yoo for an inspection time at 510-670-6633 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.

6. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. 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.

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

APPENDIX C

BORING LOGS

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

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-10
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	27-Aug-09
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	28-Aug-09
PROJECT NUMBER	240897	**WELL DEVELOPMENT DATE (YIELD)**	22-Sep-09 (125 gallons)
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	37.93 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	37.43 ft above msl
BORING DIAMETER	10"	**SCREENED INTERVALS**	5 to 20 fbg
LOGGED BY	C. Rodriguez	**DEPTH TO WATER (First Encountered)**	10.75 fbg ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	5.7 fbg (22-Sep-09) ▼
REMARKS	Located at 4340 Bond St.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT / CONCRETE SLURRY	0.3	Flush-grade 12" well box
					SM		**SILTY SAND with Gravel**; (SM); gray (5YR 5/1); dry; 35% silt, 40% fine to coarse grained sand, 25% fine to coarse gravel.		Portland Type I/II
								2.5	
					ML		**SILT**; (ML); very dark grayish brown (2.5Y 3/2); dry; 10% clay, 90% silt; low plasticity.		Bentonite Seal
									Monterey Sand #2/12
				5			@ 5 ft- dark brown (7.5YR 3/2)	5.5	
980	10 8 12	S-10- 5.5			SM		**SILTY SAND with Gravel**; (SM); dark yellowish brown (10YR 4/4); moist; 20% silt, 55% fine to coarse grained sand, 25% angular gravel.	6.5	
0					ML		**SILT**; (ML); brown (10YR 5/3); dry; 20% clay, 80% silt; low to medium plasticity; iron and carbon staining.	7.5	
					SM		**SILTY SAND**; (SM); brown (10YR 5/3); moist; 20% silt, 70% grained sand, 10% gravel.	9.0	
					ML		**SILT**; (ML); brown (10YR 5/3); dry; 20% clay, 80% silt; medium plasticity.	9.5	
363 229	20 30 13 7 12 14	S-10- 10		10	SM		**SILTY SAND with Gravel**; (SM); brown (10YR 5/3); moist; 15% silt, 55% fine to coarse grained sand, 30% gravel. ▽		
					ML		@ 10.75 ft- very dark greenish gray (10Y 3/1); wet	11.5	
					SP-SM		**SILT with Sand**; (ML); light olive brown (2.5Y 5/3); moist; 80% silt, 20% sand; low plasticity.	12.0	
	16 17 21				GP		**SAND with Silt**; (SP-SM); light olive brown (2.5Y 4/4); wet; 10% silt, 90% medium grained sand.	12.5	4"-diam., 0.010" Slotted Schedule 40 PVC
							GRAVEL with Sand; (GP); light olive brown (2.5Y 4/4); wet; 40% fine to coarse grained sand, 60% angular poorly graded gravel.	14.5	
0	11 24 23 10 10 15	S-10- 15		15	SM		**SILTY SAND with Gravel**; (SM); light olive brown (2.5Y 4/4); wet; 15% silt, 60% fine to coarse grained sand, 25% gravel. @ 15.5 ft- medium to coarse grained sand.		
								17.0	
	5 6 7				ML		**SILT**; (ML); light olive brown (2.5Y 4/4); wet; 15% clay, 85% silt; low plasticity; carbon staining.		
0	10 17 17	S-10- 19.5		20	SP-SC		**SAND with Clay and Gravel**; (SP-SC); light olive brown (2.5Y 4/4); wet; 10% clay, 75% coarse grained poorly graded sand, 15% gravel.	19.8 20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2408--\240897-\240897-110897.GPJ DEFAULT.GDT 1/5/10

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

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-11
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	27-Aug-09
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	28-Aug-09
PROJECT NUMBER	240897	**WELL DEVELOPMENT DATE (YIELD)**	22-Sep-09 (97 gallons)
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	37.14 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	36.44 ft above msl
BORING DIAMETER	10"	**SCREENED INTERVALS**	5 to 20 fbg
LOGGED BY	C. Rodriguez	**DEPTH TO WATER (First Encountered)**	9.50 fbg (28-Aug-09)
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	3.88 fbg (22-Sep-09)
REMARKS	Located at 4340 Bond St.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
					ASPHALT / CONCRETE SLURRY	0.3
				SM	**SILTY SAND with Gravel**; (SM); gray (5YR 5/1); dry; 25% silt, 40% fine to coarse grained sand, 35% fine to coarse gravel.	2.5
				ML	**SILT**; (ML); very dark grayish brown (2.5Y 3/2); dry; 20% clay, 80% silt; medium plasticity.	
	5		5			
1.4	6 8	S-11- 6			@5 ft- dark greenish gray (5GY 4/1); 15% clay, 85% silt; low plasticity.	
1.9	4 7 16 7				@ 6ft- **SILT with Sand**; 15% clay, 70% silt, 15% coarse grained sand.	8.0
1.9	16 16 4			SM	**SILTY SAND with Gravel**; (SM); olive brown (2.5Y 4/4); dry; 30% silt, 45% fine to coarse grained sand, 25% fine gravel.	
1.3	5 6	S-11- 10	10		@ 9 ft- moist.	
0	4 4 5 7				@ 9.5 ft- wet; 20% silt, 30% fine to coarse grained sand, 30% fine gravel.	10.5
				ML	**SILT**; (ML); dry, 20% clay, 80% silt; medium plasticity.	11.0
				SM	**SILTY SAND**; (SM); wet; 35% silt, 65% fine to coarse grained sand.	11.5
0.4	4 9 11			ML	**SILT**; (ML); brown (10YR 4/3); moist; 10% clay, 80% silt, 10% coarse sand; low plasticity; mottling with very dark greenish gray (5G 3/1).	
					@ 13 ft- dry; 30% clay, 65% silt, 5% fine gravel; medium plasticity.	13.5
				SP-SM	**SAND with Silt**; (SP-SM); wet; 10% silt, 80% medium grained poorly graded sand, 10% fine gravel.	
0	4 6 8 4 7 11	S-11- 15	15			15.5
					SILT; (ML); moist; 20% clay, 80% silt; medium plasticity.	
0	4 8 12			ML		
0	5 8 17	S-11- 19.5	20			20.0

WELL DIAGRAM

- Flush-grade 12" well box
- Portland Type I/II
- Bentonite Seal
- Monterey Sand #2/12
- 4"-diam., 0.010" Slotted Schedule 40 PVC

Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2408--1240897~1\240897~1\10897.GPJ DEFAULT.GDT 12/31/09

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

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-12
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	27-Aug-09
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	31-Aug-09
PROJECT NUMBER	240897	**WELL DEVELOPMENT DATE (YIELD)**	25-Sep-09 (94 gallons)
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	36.43 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	36.00 ft above msl
BORING DIAMETER	10"	**SCREENED INTERVALS**	5 to 20 fbg
LOGGED BY	E. Reinhart-Koylu	**DEPTH TO WATER (First Encountered)**	13.00 fbg (31-Aug-09) ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	3.62 fbg (25-Sep-09) ▼
REMARKS	Located at 4340 Bond St.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		**ASPHALT / CONCRETE SLURRY** **SILTY SAND with Gravel**; (SM); gray (5YR 5/1); dry; 25% silt, 40% fine to coarse grained sand, 35% fine to coarse gravel.	0.3	Flush-grade 12" well box
									Portland Type I/II
					ML		@ 6.5 ft- **SILT**; (ML); very dark grayish brown (2.5Y 3/2); dry; 20% clay, 80% silt; low plasticity. ▼	2.5	Bentonite Seal
0		S-12- 5.5		5			@ 5 ft- dark grayish brown (2.5Y 4/2); moist; 10% clay, 90% silt; medium plasticity.		Monterey Sand #2/12
0					SM		**SILTY SAND**; (SM); dark yellowish brown (10YR 4/4); moist; 30% silt, 70% medium grained sand.	6.5	
23	Direct	S-12- 10		10			@ 9 ft- olive gray (5Y 4/2).		
6	Push						@ 13 ft- wet; 20% silt, 80% medium to coarse grained sand. ▽		4"-diam., 0.010" Slotted Schedule 40 PVC
33		S-12- 15		15					
28								18.0	
					ML		@ 6.5 ft- **SILT**; (ML); brown (10YR 4/3); moist; 20% clay, 80% silt; medium plasticity; iron staining.		
1.3		S-12- 20		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2408--\240897~1\240897~1\10897.GPJ DEFAULT.GDT 1/4/10

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

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	V-12
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	27-Aug-09
LOCATION	4411 Foothill Blvd, Oakland, California	**DRILLING COMPLETED**	27-Aug-09
PROJECT NUMBER	240897	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	4.16 to 4.25 fbg
LOGGED BY	C. Rodriguez	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Located at 4340 Bond St.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT / CONCRETE SLURRY	0.3	Flush-grade 5" well box
					ML		**SILT (ML)**; very dark grayish brown (2.5Y 3/2); dry; 25% clay, 75% silt; low plasticity.		Bentonite Seal 1/4" OD teflon tubing
		V-12-5		5				5.5	1" Polyethylene vapor screen Monterey Sand #2/12 Bentonite Seal Bottom of Boring @ 5.5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2408--\240897-1\240897-1\10897.GPJ DEFAULT.GDT 12/31/09

APPENDIX D

WASTE DISPOSAL DOCUMENTATION

TPST Soil Recyclers of California

12328 Hibiscus Ave Adelanto, CA 92301
(760)246-8001

Job Summary Report

From: 9/28/2009 To: 10/4/2009

Date	Log #	Truck Company	Site Name	Net
A3-4065				
			9/30/2009	
9/30/2009	1	TONYS	SHELL OIL - RIPR#79825	2.00
			Total tons for Date = 9/30/2009 (1 truck)	2.00
Total tons for Approval Number' = A3-4065 (1 truck)				2.00

Manifest

TPS Soil Recyclers of CA
Non-Hazardous Soils

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPST:	Load #
	Transporter		A07	341065	001

Generator and/or Consultant

Generator's Name and Billing Address:
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #673
Houston, TX 77002

Generator's Phone #:
Person to Contact: Denis Brown
FAX#:
Generator's US EPA ID No.
Customer Account Number with TPST:

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number with TPST:

Generation Site (Transport from): *(name & address)*
Shell Oil Products US
4411 Foothill Blvd.
Oakland, CA 94601
RIPR# 79825
SAP# 135686
Incident# 98995746

Site Phone #:
Person to Contact:
FAX#:
BTEX Levels
TPH Levels
AVG. Levels

Designated Facility (Transport to): *(name & address)*
TPS Technologies
12328 Hibiscus Rd.
Adelanto, CA 92301-1700

Facility Phone #: (800) 862-8001
Person to Contact: Dellena Jeffrey
FAX#: (760) 246-8004
Facility Permit Numbers

Transporter Name and Mailing Address:
American Integrated Services, Inc.
P.O. Box 92316
Long Beach, CA 90809-2316

Transporter's Phone #: (310) 522-1168
Person to Contact: Melynda Borrego
FAX#: (310) 522-1182
Transporter's US EPA ID No.: CAR000148338
Transporter's DOT No.:
Customer Account Number with TPST: 7704908

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	7	Soil	6700	2700	4000
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					2.0

List any exception to items listed above:
AIS Project # 29021-41

Scale Ticket# 74318

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐
AIS On behalf of SOPUS - J Sherman

Signature and date:

Month 9 Day 23 Year 05

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ANTONIO ROMERO

Signature and date:

Month 9 Day 23 Year 05

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:

Signature and date: 9-30-5

Please print or type

TPS INVOICING COPY

Adelanto, CA Soil Recycling Facility	**TPST Soil Recyclers of California** SOIL DATA AND CERTIFICATION SHEET	DATE: 9/18/2009

Generator and/or client:
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #673
Houston, TX 77002

Consultant/Engineering Firm:
American Integrated Services
1502 E. Opp Street
Wilmington, CA90744

Testing Laboratory:
Cal Science

Sampling procedures:
In Situ

Site History: Please list SITE ADDRESS (**including zip code**), describe contamination type, contamination source, how contamination was stored, and past activities at site.-Attach additional documents)

Site name & address:
Shell Oil Products US
4411 Foothill Blvd.
Oakland, CA 94601

☒ Non-Haz ☐ Haz

EST. QUANTITY

TONS _____

DRUMS 7

Source of contamination (ust, ast, ect...): UST - Gas
(please list gas, diesel, combo, waste oil, ect...)

Please check aappropriate box below and attach all required analytical reports. Unless otherwise noted, composite samples should be collected with the following frequency: 1sample for 100 cubic yards or less ; 3 samples for 500 cu yds or less ; 5 samples for 1000 cu yds & 1 additional sample for each additional 500cu yds greater than 1000 cu yds

☒ I/we certify that the soil referenced herein is contaminated ~~solely by Virgin petroleum products~~ from leaking underground storage tank(s).
Attached is analytical data from state certified lab for the following
1) Total Petroleum Hydrocarbons **(TPH, EPA 8015 Modified)**
2) Benzene/Toluene/Ethylbenzene/xylene **& MTBE (BTEX, EPA 8020)**

☐ I/We certified that some or all of the contaminants in the soil referenced herein is waste oil, or some other non-virgin petroleum product, or virgin petroleum ~~product from something other than a leaking underground storage tank.~~
Attached is analytical data from a state certified lab for the following:

1) Total metals concentration for a thru q below (TTLC test)

a) Antimony	g)	Cobalt	m)	Selenium	
b)Arsenic	h)	Copper	n)	Silver	
c)Barium	i)	Lead	o)	Thallium	
d)Berylium	j)	Mercury	p)	Vanadium	
e)Cadmium	k)	Molybdenum	q)	Zinc	
f)Chromium	l)	Nickel			

Note: If any item a thru q is greater than 10 times its Soluble Threshold Limit concentration (STLC) the soluble metal concentration must be determined by the Waste Extraction Test procedure.

2)TPH by:
EPA 418.1 or
EPA 8015 modified
3) BTEX/VOC by:
EPA 8020 & EPA 8010
or EPA 8260(combines above)
4)PCB'S(waste oil only)
5)Additional analytical data as required.

No soils referenced herein may be delivered until the forgoing certificate is received and approved by TPST, and TPST issues manifests and assigns a delivery date. If any soils delivered to TPST are found to be "Hazardous Waste" pursuant to federal or state regulations, the client shall be solely responsible for their removal. If the client fails to remove such soils, TPST, acting as client's agent, may arrange for such removal at client's expense.

This is a complete and accurate description of the soil referenced herein; no deliberate or willful omissions have been made and all known or suspected hazards have been disclosed herein. I/We certify that the soil is not "hazardous" as defined by U.S. Department of Transportation (DOT), U.S. Environmental Protection Agency (EPA), State or local regulations. I/We further certify that the soils referenced herein contain no free liquids. All analysis reports attached.

Generator's Authorized Signatory: _____ **Date:** _____

Print Name: _____ **Title:** _____

Environmental Firm Signatory: *Jennifer Sherman* **Date:** 9/18/2009

Print Name: Jennifer Sherman **Title:** O&TS

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	800-424-9300	NH 004652

5. Generator's Name and Mailing Address

Shell Oil Products US

One Shell Plaza, 910 Louisiana, Room #673, Houston, TX 77002

Generator's Phone

Generator's Site Address (if different than mailing address)

4411 Foothill Blvd.
Oakland, CA 94601

6. Transporter 1 Company Name — U.S. EPA ID Number

American Integrated Services, Inc. — **CAR000148338**

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Crosby & Overton, Inc.
1630 W. 16th Street
Long Beach, CA. 90813 562-432-5445

CAD028409019

Facility's Phone:

9a.	9b. U.S. DOT Description (including Proper Shipping Name)	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. **Non-Hazardous Waste Liquid, (Sludge)**	1 3 7	TT DM 150		G	
	2.					
	3.					
	4.					

THE REFERENCED WASTE WAS RECEIVED AND TREATED TO STANDARDS MANDATED BY THE FEDERAL CLEAN WATER ACT AND EFFLUENT REQUIREMENTS SET FORTH BY THE LOS ANGELES COUNTY SANITATION DISTRICTS WASTE TREATMENT IS PERFORMED UNDER PERMITS GRANTED TO CROSBY & OVERTON, INC. BY THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL, TOGETHER WITH THE ENVIRONMENTAL PROTECTION AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 TOGETHER WITH APPLICABLE FEDERAL AND STATE REGULATIONS. CROSBY & OVERTON HAS ALL OF THE NECESSARY PERMITS TO ACCEPT THE REFERENCED WASTE AND ALL THE WASTE HAS BEEN HANDLED IN ACCORDANCE WITH RCRA AND PROPOSITION 65, SUCH THAT THE CERTIFICATE HOLDER'S LIABILITY HAS BEEN TERMINATED

13. Special Handling Instructions and Additional Information

D19679 LH1770

Wear protective equipment while handling. Weights or volumes are approximate.

RIPR#: 79824
SAP#: 135686
Incident#: 98995746
Profile#: 27578
Project #: 29021-41

3 drums

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

AIS on behalf of SOPUS - J Sherman — 9 23 09

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgement of Receipt of Materials

Transporter 1 Printed/Typed Name: Antonio Rodriguez — Signature — Month Day Year: 9 23 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

H1135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Adriana Morfin — Signature — Month Day Year: 9 30 09

GENERATOR | INT'L | TRANSPORTER | DESIGNED FACILITY

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Calscience
Environmental
Laboratories, Inc.

September 14, 2009

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Subject: **Calscience Work Order No.: 09-09-0013**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/1/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Lee
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/01/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0013
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-12-5	09-09-0013-1-A	08/27/09 14:40	Solid	GC 47	09/02/09	09/02/09 16:29	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	122	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-5.5	09-09-0013-2-A	08/28/09 08:25	Solid	GC 47	09/02/09	09/02/09 16:45	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	128	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-10	09-09-0013-3-A	08/28/09 08:50	Solid	GC 47	09/02/09	09/02/09 17:00	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	124	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-15	09-09-0013-4-A	08/28/09 09:30	Solid	GC 47	09/02/09	09/02/09 17:16	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	123	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	09/01/09
5900 Hollis Street, Suite A	Work Order No:	09-09-0013
Emeryville, CA 94608-2008	Preparation:	EPA 3550B
	Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-19.5	09-09-0013-5-A	08/28/09 11:00	Solid	GC 47	09/02/09	09/02/09 17:32	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	129	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11-6	09-09-0013-6-A	08/28/09 12:35	Solid	GC 47	09/02/09	09/02/09 17:48	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11-10	09-09-0013-7-A	08/28/09 12:50	Solid	GC 47	09/02/09	09/02/09 18:04	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11-15	09-09-0013-8-A	08/28/09 13:10	Solid	GC 47	09/02/09	09/02/09 18:20	090902B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	123	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/01/09
Work Order No: 09-09-0013
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11-19.5	**09-09-0013-9-A**	**08/28/09 13:40**	**Solid**	**GC 47**	**09/02/09**	**09/02/09 18:36**	**090902B01**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	32	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	122	61-145	

Method Blank	099-12-025-820	N/A	Solid	GC 47	09/02/09	09/02/09 11:57	090902B01

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	121	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/01/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0013
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg
Project: 4411 Foothill Blvd., Oakland, CA			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
V-12-5	09-09-0013-1-A	08/27/09 14:40	Solid	GC/MS UU	09/04/09	09/05/09 04:11	090904L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	94	71-113		
Toluene-d8-TPPH	100	88-112							

S-10-5.5	09-09-0013-2-A	08/28/09 08:25	Solid	GC/MS UU	09/04/09	09/05/09 04:38	090904L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	91	73-139			1,2-Dichloroethane-d4	106	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	92	71-113		
Toluene-d8-TPPH	98	88-112							

S-10-10	09-09-0013-3-A	08/28/09 08:50	Solid	GC/MS UU	09/04/09	09/05/09 05:05	090904L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	92	73-139			1,2-Dichloroethane-d4	105	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	97	71-113		
Toluene-d8-TPPH	98	88-112							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/01/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0013
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-15	09-09-0013-4-A	08/28/09 09:30	Solid	GC/MS UU	09/08/09	09/09/09 05:05	090908L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	73-139			1,2-Dichloroethane-d4	101	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	95	71-113		
Toluene-d8-TPPH	99	88-112							

S-10-19.5	09-09-0013-5-A	08/28/09 11:00	Solid	GC/MS UU	09/04/09	09/05/09 02:23	090904L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	86	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	96	71-113		
Toluene-d8-TPPH	99	88-112							

S-11-6	09-09-0013-6-A	08/28/09 12:35	Solid	GC/MS UU	09/08/09	09/09/09 05:32	090908L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	73-139			1,2-Dichloroethane-d4	106	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	98	71-113		
Toluene-d8-TPPH	99	88-112							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/01/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0013
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11-10	**09-09-0013-7-A**	**08/28/09 12:50**	**Solid**	**GC/MS UU**	**09/08/09**	**09/09/09 05:59**	**090908L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	73-139			1,2-Dichloroethane-d4	108	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	96	71-113		
Toluene-d8-TPPH	99	88-112							

S-11-15	09-09-0013-8-A	08/28/09 13:10	Solid	GC/MS UU	09/08/09	09/09/09 06:26	090908L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	93	73-139			1,2-Dichloroethane-d4	108	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	92	71-113		
Toluene-d8-TPPH	99	88-112							

S-11-19.5	09-09-0013-9-A	08/28/09 13:40	Solid	GC/MS UU	09/08/09	09/09/09 06:53	090908L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	92	73-139			1,2-Dichloroethane-d4	108	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	95	71-113		
Toluene-d8-TPPH	98	88-112							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/01/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0013
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-604**	**N/A**	**Solid**	**GC/MS UU**	**09/04/09**	**09/05/09 01:29**	**090904L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	93	73-139			1,2-Dichloroethane-d4	102	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	94	71-113		
Toluene-d8-TPPH	97	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-608**	**N/A**	**Solid**	**GC/MS UU**	**09/08/09**	**09/09/09 01:29**	**090908L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	94	71-113		
Toluene-d8-TPPH	99	88-112							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received:	09/01/09
Work Order No:	09-09-0013
Preparation:	EPA 3550B
Method:	EPA 8015B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-08-2422-1	Solid	GC 47	09/02/09	09/02/09	090902S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	99	97	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/01/09
Work Order No: 09-09-0013
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-10-19.5	Solid	GC/MS UU	09/04/09	09/05/09	090904S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	61	66	79-115	6	0-13	3
Carbon Tetrachloride	83	87	55-139	5	0-15	
Chlorobenzene	55	60	79-115	7	0-17	3
1,2-Dibromoethane	38	42	70-130	11	0-30	3
1,2-Dichlorobenzene	44	48	63-123	8	0-23	3
1,1-Dichloroethene	74	75	69-123	1	0-16	
Ethylbenzene	67	71	70-130	6	0-30	3
Toluene	62	65	79-115	4	0-15	3
Trichloroethene	67	70	66-144	5	0-14	
Vinyl Chloride	76	77	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	36	40	68-128	12	0-14	3
Tert-Butyl Alcohol (TBA)	27	34	44-134	25	0-37	3
Diisopropyl Ether (DIPE)	49	54	75-123	9	0-12	3
Ethyl-t-Butyl Ether (ETBE)	45	48	75-117	8	0-12	3
Tert-Amyl-Methyl Ether (TAME)	39	44	79-115	11	0-12	3
Ethanol	50	65	42-138	26	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/01/09
Work Order No: 09-09-0013
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0343-14	Solid	GC/MS UU	09/08/09	09/09/09	090908S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	79	81	79-115	2	0-13	
Carbon Tetrachloride	100	100	55-139	0	0-15	
Chlorobenzene	90	92	79-115	2	0-17	
1,2-Dibromoethane	98	96	70-130	2	0-30	
1,2-Dichlorobenzene	88	82	63-123	7	0-23	
1,1-Dichloroethene	91	91	69-123	0	0-16	
Ethylbenzene	98	101	70-130	3	0-30	
Toluene	77	81	79-115	4	0-15	3
Trichloroethene	92	92	66-144	0	0-14	
Vinyl Chloride	88	88	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	92	102	68-128	11	0-14	
Tert-Butyl Alcohol (TBA)	105	111	44-134	5	0-37	
Diisopropyl Ether (DIPE)	0	33	75-123	3	0-12	3
Ethyl-t-Butyl Ether (ETBE)	96	109	75-117	12	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	98	79-115	3	0-12	
Ethanol	107	91	42-138	17	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0013
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-820	Solid	GC 47	09/02/09	09/02/09	090902B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	98	98	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0013
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-604	Solid	GC/MS UU	09/04/09	09/05/09	090904L03

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	90	91	84-114	79-119	1	0-7	
Carbon Tetrachloride	93	98	66-132	55-143	6	0-12	
Chlorobenzene	90	93	87-111	83-115	3	0-7	
1,2-Dibromoethane	96	97	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	89	92	79-115	73-121	2	0-8	
1,1-Dichloroethene	89	91	73-121	65-129	2	0-12	
Ethylbenzene	95	98	80-120	73-127	3	0-20	
Toluene	87	89	78-114	72-120	2	0-7	
Trichloroethene	91	93	84-114	79-119	2	0-8	
Vinyl Chloride	85	85	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	88	95	77-125	69-133	8	0-11	
Tert-Butyl Alcohol (TBA)	80	91	47-137	32-152	13	0-27	
Diisopropyl Ether (DIPE)	93	90	76-130	67-139	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	93	92	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	91	91	82-118	76-124	0	0-11	
Ethanol	105	103	59-131	47-143	3	0-21	
TPPH	93	90	65-135	53-147	4	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0013
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-608	Solid	GC/MS UU	09/08/09	09/09/09	090908L03

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	90	91	84-114	79-119	0	0-7	
Carbon Tetrachloride	99	97	66-132	55-143	2	0-12	
Chlorobenzene	92	91	87-111	83-115	2	0-7	
1,2-Dibromoethane	100	98	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	90	90	79-115	73-121	1	0-8	
1,1-Dichloroethene	92	90	73-121	65-129	3	0-12	
Ethylbenzene	96	94	80-120	73-127	2	0-20	
Toluene	89	88	78-114	72-120	1	0-7	
Trichloroethene	95	92	84-114	79-119	3	0-8	
Vinyl Chloride	87	87	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	91	90	77-125	69-133	1	0-11	
Tert-Butyl Alcohol (TBA)	76	91	47-137	32-152	18	0-27	
Diisopropyl Ether (DIPE)	95	94	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	95	95	76-124	68-132	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	92	94	82-118	76-124	2	0-11	
Ethanol	104	114	59-131	47-143	9	0-21	
TPPH	87	84	65-135	53-147	4	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-09-0013

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer - 240897

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 4 6

- [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 8/27/09

PAGE: 1 of 1

PO #:

SAP #:

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer, Copy to Shell.Lab.Billing@craworld.com

TELEPHONE: 510-420-3319 | FAX: 510-420-9170 | E-MAIL: pschaefer@craworld.com

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

SITE ADDRESS: Street and City: 4411 Foothill Blvd, Oakland | State: CA | GLOBAL ID NO: T0600101065

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville | PHONE NO: 510-420-3343 | E-MAIL: shell.em.edf@craworld.com | CONSULTANT PROJECT NO: 240897-2009-13

SAMPLER NAME(S) (Print): Carmen Rodriguez

LAB USE ONLY: 09-0013

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	PRESERVATIVE HNO3	PRESERVATIVE H2SO4	PRESERVATIVE NONE	PRESERVATIVE OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO w/sgc (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXY's (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	V-12-5	8/27	14:40	SO						1	X	X					X			X	X			
2	S-10-5.5	8/28	8:25																					
3	S-10-10		8:50																					
4	S-10-15		9:30																					
5	S-10-19.5		11:00																					
6	S-11-6		12:35																					
7	S-11-10		12:50																					
8	S-11-15		13:10																					
9	S-11-19.5		13:40																					
[redacted]	[redacted] 19.5	[redacted]																						

Relinquished by: (Signature) Carmen Rodriguez	Received by: (Signature) Secure location	Date: 8/28/09	Time: 18:00
Relinquished by: (Signature) Hans Cole	Received by: (Signature) Tom O'Malley CEL	Date: 8/31/09	Time: 0940
Relinquished by: (Signature) [redacted] 8-31-09 1730	Received by: (Signature) [redacted]	Date: 9/1/09	Time: 1030

5125 47119

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-09-0013

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA DATE: 9/1/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.8 °C - 0.2 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** JP

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** _____

Calscience
Environmental
Laboratories, Inc.

September 15, 2009

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Subject: **Calscience Work Order No.: 09-09-0106**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/2/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Lee
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-5.5'	09-09-0106-1-A	08/31/09 09:35	Solid	GC 43	09/04/09	09/04/09 20:22	090904B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	880	50	10		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	134	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-10'	09-09-0106-2-A	08/31/09 09:38	Solid	GC 43	09/04/09	09/04/09 19:19	090904B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	8.6	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-15'	09-09-0106-3-A	08/31/09 09:48	Solid	GC 43	09/04/09	09/04/09 19:40	090904B01

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-20'	**09-09-0106-4-A**	**08/31/09 09:54**	**Solid**	**GC 43**	**09/04/09**	**09/04/09 20:01**	**090904B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

Method Blank	099-12-025-822	N/A	Solid	GC 43	09/04/09	09/04/09 11:38	090904B01

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	131	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-5.5'	**09-09-0106-1-A**	**08/31/09 09:35**	**Solid**	**GC 24**	**09/03/09**	**09/03/09 21:47**	**090903B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	80	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-10'	**09-09-0106-2-A**	**08/31/09 09:38**	**Solid**	**GC 24**	**09/03/09**	**09/03/09 22:54**	**090903B01**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	45	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	246	42-126	2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-15'	**09-09-0106-3-A**	**08/31/09 09:48**	**Solid**	**GC 24**	**09/03/09**	**09/03/09 00:01**	**090903B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	90	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-20'	**09-09-0106-4-A**	**08/31/09 09:54**	**Solid**	**GC 24**	**09/03/09**	**09/04/09 01:08**	**090903B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	92	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-279-3,116**	**N/A**	**Solid**	**GC 24**	**09/03/09**	**09/03/09 14:28**	**090903B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	84	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	mg/kg
Project: 4411 Foothill Blvd., Oakland, CA			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-5.5'	**09-09-0106-1-A**	**08/31/09 09:35**	**Solid**	**GC/MS PP**	**09/09/09**	**09/09/09 16:50**	**090909L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	84	73-139			1,2-Dichloroethane-d4	98	73-145		
Toluene-d8	95	90-108			1,4-Bromofluorobenzene	85	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-10'	**09-09-0106-2-A**	**08/31/09 09:38**	**Solid**	**GC/MS PP**	**09/09/09**	**09/09/09 17:18**	**090909L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	89	73-139			1,2-Dichloroethane-d4	103	73-145		
Toluene-d8	111	90-108		2	1,4-Bromofluorobenzene	106	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-15'	**09-09-0106-3-A**	**08/31/09 09:48**	**Solid**	**GC/MS PP**	**09/09/09**	**09/09/09 17:45**	**090909L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	83	73-139			1,2-Dichloroethane-d4	91	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	91	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	09/02/09
5900 Hollis Street, Suite A	Work Order No:	09-09-0106
Emeryville, CA 94608-2008	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	mg/kg
Project: 4411 Foothill Blvd., Oakland, CA		Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12-20'	**09-09-0106-4-A**	**08/31/09 09:54**	**Solid**	**GC/MS UU**	**09/10/09**	**09/10/09 17:17**	**090910L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	82	73-139			1,2-Dichloroethane-d4	97	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	100	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-2,046**	**N/A**	**Solid**	**GC/MS PP**	**09/09/09**	**09/09/09 13:39**	**090909L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	92	73-139			1,2-Dichloroethane-d4	108	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	89	71-113		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-2,053**	**N/A**	**Solid**	**GC/MS UU**	**09/10/09**	**09/10/09 13:12**	**090910L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	96	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0106
Preparation: EPA 3550B
Method: EPA 8015B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0342-3	Solid	GC 43	09/04/09	09/04/09	090904S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	109	110	64-130	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates	Date Received: 09/02/09
5900 Hollis Street, Suite A	Work Order No: 09-09-0106
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-08-2450-1	Solid	GC 24	09/03/09	09/03/09	090903S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	102	108	48-114	5	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0106
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0355-10	**Solid**	**GC/MS PP**	**09/09/09**	**09/09/09**	**090909S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	96	79-115	2	0-13	
Carbon Tetrachloride	90	90	55-139	0	0-15	
Chlorobenzene	96	97	79-115	1	0-17	
1,2-Dibromoethane	92	94	70-130	2	0-30	
1,2-Dichlorobenzene	95	96	63-123	2	0-23	
1,1-Dichloroethene	99	101	69-123	2	0-16	
Ethylbenzene	103	104	70-130	1	0-30	
Toluene	95	95	79-115	0	0-15	
Trichloroethene	96	98	66-144	2	0-14	
Vinyl Chloride	105	101	60-126	4	0-14	
Methyl-t-Butyl Ether (MTBE)	87	90	68-128	3	0-14	
Tert-Butyl Alcohol (TBA)	106	118	44-134	10	0-37	
Diisopropyl Ether (DIPE)	87	90	75-123	3	0-12	
Ethyl-t-Butyl Ether (ETBE)	91	93	75-117	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	97	79-115	2	0-12	
Ethanol	84	63	42-138	29	0-28	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0106
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0423-10	Solid	GC/MS UU	09/10/09	09/10/09	090910S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	100	79-115	1	0-13	
Carbon Tetrachloride	110	109	55-139	2	0-15	
Chlorobenzene	99	97	79-115	2	0-17	
1,2-Dibromoethane	102	102	70-130	0	0-30	
1,2-Dichlorobenzene	94	94	63-123	0	0-23	
1,1-Dichloroethene	104	103	69-123	1	0-16	
Ethylbenzene	105	103	70-130	1	0-30	
Toluene	98	99	79-115	1	0-15	
Trichloroethene	100	100	66-144	0	0-14	
Vinyl Chloride	95	93	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	90	97	68-128	8	0-14	
Tert-Butyl Alcohol (TBA)	103	97	44-134	6	0-37	
Diisopropyl Ether (DIPE)	97	100	75-123	3	0-12	
Ethyl-t-Butyl Ether (ETBE)	96	100	75-117	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	102	79-115	7	0-12	
Ethanol	145	116	42-138	22	0-28	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0106
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-822	Solid	GC 43	09/04/09	09/04/09	090904B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	104	105	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0106
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-3,116	Solid	GC 24	09/03/09	09/03/09	090903B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	102	104	70-124	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: N/A
Work Order No: 09-09-0106
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-2,046	Solid	GC/MS PP	09/09/09	09/09/09	090909L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	95	92	84-114	79-119	3	0-7	
Carbon Tetrachloride	92	91	66-132	55-143	2	0-12	
Chlorobenzene	96	95	87-111	83-115	1	0-7	
1,2-Dibromoethane	101	101	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	95	99	79-115	73-121	4	0-8	
1,1-Dichloroethene	92	88	73-121	65-129	5	0-12	
Ethylbenzene	101	100	80-120	73-127	2	0-20	
Toluene	94	92	78-114	72-120	2	0-7	
Trichloroethene	95	93	84-114	79-119	2	0-8	
Vinyl Chloride	99	98	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	89	90	77-125	69-133	2	0-11	
Tert-Butyl Alcohol (TBA)	90	90	47-137	32-152	1	0-27	
Diisopropyl Ether (DIPE)	92	92	76-130	67-139	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	90	91	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	82-118	76-124	1	0-11	
Ethanol	100	91	59-131	47-143	9	0-21	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0106
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-2,053	Solid	GC/MS UU	09/10/09	09/10/09	090910L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	93	96	84-114	79-119	3	0-7	
Carbon Tetrachloride	105	108	66-132	55-143	2	0-12	
Chlorobenzene	95	96	87-111	83-115	1	0-7	
1,2-Dibromoethane	99	99	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	90	94	79-115	73-121	4	0-8	
1,1-Dichloroethene	100	102	73-121	65-129	2	0-12	
Ethylbenzene	100	100	80-120	73-127	0	0-20	
Toluene	94	94	78-114	72-120	0	0-7	
Trichloroethene	97	100	84-114	79-119	2	0-8	
Vinyl Chloride	88	88	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	100	91	77-125	69-133	10	0-11	
Tert-Butyl Alcohol (TBA)	92	96	47-137	32-152	4	0-27	
Diisopropyl Ether (DIPE)	96	98	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	97	98	76-124	68-132	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	96	82-118	76-124	0	0-11	
Ethanol	103	127	59-131	47-143	21	0-21	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-09-0106

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☑ CALSCIENCE (_____)
☐ SPL (_____)
☐ XENCO (_____)
☐ TEST AMERICA (_____)
☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer - 240897
INCIDENT # (ENV SERVICES): 98995746 ☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #:
DATE: 8/31/09
PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates
LOG CODE: CRAW
SITE ADDRESS: Street and City: 4411 Foothill Blvd, Oakland
State: CA
GLOBAL ID NO: T0600101065
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville
PHONE NO: 510-420-3343
E-MAIL: shell.em.edf@craworld.com
CONSULTANT PROJECT NO.: 240897-2009
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer, Copy to Shell.Lab.Billing@craworld.com
TELEPHONE: 510-420-3319
FAX: 510-420-9170
E-MAIL: pschaefer@craworld.com
SAMPLER NAME(S) (Print): ERIN Reinhart-Koyle
LAB USE ONLY: 09-09-0106

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	ice	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO w/sgc (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	S-12-5.5'	8/31/09	9:35	SO						X	1		X	X				X			X	X			
2	S-12-10'		9:38	SO						X	1		X	X				X			X	X			
3	S-12-15'		9:48	SO						X	1		X	X				X			X	X			
4	S-12-20'		9:54	SO						X	1		X	X				X			X	X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Erin Reinhart-Koyle	Soccin location	8/31/09	13:30
Tom O'Malley CEL	Tom O'Malley CEL	9/1/09	0940
GSO 9-1-09 1730	Webata CEL	9/2/09	1030

GSO5BB59762

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-09-0116

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 9/2/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** YC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** NSC

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YC

Calscience
Environmental
Laboratories, Inc.

September 15, 2009

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Subject: **Calscience Work Order No.: 09-09-0014**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/2/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Sanelle for

Calscience Environmental
Laboratories, Inc.
Jessie Lee
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0014
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-09-0014-8-A**	**08/28/09 00:00**	**Solid**	**ICP 5300**	**09/03/09**	**09/04/09 11:20**	**090903L04**

Comment(s): -Mercury was analyzed on 9/4/2009 12:40:09 PM with batch 090903L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.05	0.750	1		Molybdenum	ND	0.250	1	
Barium	113	0.500	1		Nickel	49.8	0.250	1	
Beryllium	0.355	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	25.6	0.250	1		Thallium	ND	0.750	1	
Cobalt	9.57	0.250	1		Vanadium	28.1	0.250	1	
Copper	19.1	0.500	1		Zinc	36.6	1.00	1	
Lead	6.21	0.500	1						

CRA-B	**09-09-0014-9-A**	**08/28/09 00:00**	**Solid**	**ICP 5300**	**09/03/09**	**09/04/09 11:22**	**090903L04**

Comment(s): -Mercury was analyzed on 9/4/2009 12:42:19 PM with batch 090903L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.88	0.750	1		Molybdenum	ND	0.250	1	
Barium	127	0.500	1		Nickel	66.0	0.250	1	
Beryllium	0.387	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	36.7	0.250	1		Thallium	ND	0.750	1	
Cobalt	11.8	0.250	1		Vanadium	30.2	0.250	1	
Copper	18.6	0.500	1		Zinc	31.4	1.00	1	
Lead	5.79	0.500	1						

Method Blank	**099-04-007-6,524**	**N/A**	**Solid**	**Mercury**	**09/03/09**	**09/04/09 11:49**	**090903L06**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0014
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-12,709**	**N/A**	**Solid**	**ICP 5300**	**09/03/09**	**09/04/09 11:23**	**090903L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	09/02/09
5900 Hollis Street, Suite A	Work Order No:	09-09-0014
Emeryville, CA 94608-2008	Preparation:	EPA 3550B
	Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-09-0014-8-A**	**08/28/09 00:00**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 21:40**	**090902B06**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-B	**09-09-0014-9-A**	**08/28/09 00:00**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 21:57**	**090902B06**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-025-821**	**N/A**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 19:10**	**090902B06**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	127	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0014
Emeryville, CA 94608-2008		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-09-0014-8-A**	**08/28/09 00:00**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 21:40**	**090902B07**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-B	**09-09-0014-9-A**	**08/28/09 00:00**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 21:57**	**090902B07**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-254-850**	**N/A**	**Solid**	**GC 49**	**09/02/09**	**09/02/09 19:10**	**090902B07**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	127	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	09/02/09
5900 Hollis Street, Suite A		Work Order No:	09-09-0014
Emeryville, CA 94608-2008		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	mg/kg
Project: 4411 Foothill Blvd., Oakland, CA			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-A	**09-09-0014-8-A**	**08/28/09 00:00**	**Solid**	**GC/MS UU**	**09/02/09**	**09/02/09 19:50**	**090902L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	96	73-139		1,2-Dichloroethane-d4	110	73-145	
Toluene-d8	101	90-108		1,4-Bromofluorobenzene	94	71-113	
Toluene-d8-TPPH	101	88-112					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CRA-B	**09-09-0014-9-A**	**08/28/09 00:00**	**Solid**	**GC/MS UU**	**09/02/09**	**09/02/09 20:17**	**090902L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	0.73	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	73-139		1,2-Dichloroethane-d4	114	73-145	
Toluene-d8	107	90-108		1,4-Bromofluorobenzene	99	71-113	
Toluene-d8-TPPH	106	88-112					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-798-599**	**N/A**	**Solid**	**GC/MS UU**	**09/02/09**	**09/02/09 13:04**	**090902L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Xylenes (total)	ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		TPPH	ND	0.50	1	
Toluene	ND	0.0050	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	73-139		1,2-Dichloroethane-d4	111	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	94	71-113	
Toluene-d8-TPPH	97	88-112					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0014
Preparation: EPA 3050B
Method: EPA 6010B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0095-12	Solid	ICP 5300	09/03/09	09/04/09	090903S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	15	17	50-115	17	0-20	3
Arsenic	106	110	75-125	4	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	106	108	75-125	3	0-20	
Cadmium	98	100	75-125	2	0-20	
Chromium	98	105	75-125	4	0-20	
Cobalt	105	106	75-125	1	0-20	
Copper	115	118	75-125	2	0-20	
Lead	99	100	75-125	1	0-20	
Molybdenum	91	93	75-125	2	0-20	
Nickel	106	110	75-125	2	0-20	
Selenium	89	91	75-125	3	0-20	
Silver	115	118	75-125	3	0-20	
Thallium	88	89	75-125	1	0-20	
Vanadium	107	113	75-125	2	0-20	
Zinc	103	104	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates	Date Received: 09/02/09
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-A	**Solid**	**GC 49**	**09/02/09**	**09/02/09**	**090902S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	106	111	64-130	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates	Date Received: 09/02/09
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B (M)

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CRA-A	**Solid**	**GC 49**	**09/02/09**	**09/02/09**	**090902S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	106	103	64-130	3	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates	Date Received: 09/02/09
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 7471A Total
	Method: EPA 7471A

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0182-1	**Solid**	**Mercury**	**09/03/09**	**09/04/09**	**090903S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	110	112	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: 09/02/09
Work Order No: 09-09-0014
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-09-0020-4	**Solid**	**GC/MS UU**	**09/02/09**	**09/02/09**	**090902S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	98	79-115	0	0-13	
Carbon Tetrachloride	112	108	55-139	4	0-15	
Chlorobenzene	103	98	79-115	5	0-17	
1,2-Dibromoethane	103	99	70-130	4	0-30	
1,2-Dichlorobenzene	98	95	63-123	3	0-23	
1,1-Dichloroethene	98	87	69-123	12	0-16	
Ethylbenzene	96	91	70-130	5	0-30	
Toluene	89	89	79-115	0	0-15	
Trichloroethene	98	100	66-144	2	0-14	
Vinyl Chloride	112	109	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	108	108	68-128	0	0-14	
Tert-Butyl Alcohol (TBA)	110	123	44-134	12	0-37	
Diisopropyl Ether (DIPE)	103	107	75-123	4	0-12	
Ethyl-t-Butyl Ether (ETBE)	99	98	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	100	79-115	4	0-12	
Ethanol	93	103	42-138	11	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608-2008

Date Received: N/A
Work Order No: 09-09-0014
Preparation: EPA 3050B
Method: EPA 6010B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,709	Solid	ICP 5300	09/03/09	09/04/09	090903L04

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	105	107	80-120	73-127	1	0-20	
Arsenic	102	102	80-120	73-127	0	0-20	
Barium	113	115	80-120	73-127	2	0-20	
Beryllium	105	107	80-120	73-127	2	0-20	
Cadmium	106	107	80-120	73-127	0	0-20	
Chromium	107	108	80-120	73-127	1	0-20	
Cobalt	113	113	80-120	73-127	0	0-20	
Copper	110	111	80-120	73-127	1	0-20	
Lead	111	112	80-120	73-127	1	0-20	
Molybdenum	104	104	80-120	73-127	0	0-20	
Nickel	114	116	80-120	73-127	1	0-20	
Selenium	99	100	80-120	73-127	1	0-20	
Silver	116	118	80-120	73-127	2	0-20	
Thallium	107	109	80-120	73-127	2	0-20	
Vanadium	106	108	80-120	73-127	2	0-20	
Zinc	107	107	80-120	73-127	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-025-821	Solid	GC 49	09/03/09	G2000052	090902B06

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Diesel Range Organics	400	349	87	75-123	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 3550B
	Method: EPA 8015B (M)

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-850	**Solid**	**GC 49**	**09/02/09**	**09/02/09**	**090902B07**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	110	110	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates		Date Received:	N/A
5900 Hollis Street, Suite A		Work Order No:	09-09-0014
Emeryville, CA 94608-2008		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,524	Solid	Mercury	09/03/09	09/04/09	090903L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	100	102	85-121	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received: N/A
5900 Hollis Street, Suite A	Work Order No: 09-09-0014
Emeryville, CA 94608-2008	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-798-599	Solid	GC/MS UU	09/02/09	09/02/09	090902L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	97	84-114	79-119	0	0-7	
Carbon Tetrachloride	114	117	66-132	55-143	2	0-12	
Chlorobenzene	100	101	87-111	83-115	1	0-7	
1,2-Dibromoethane	97	104	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	96	98	79-115	73-121	2	0-8	
1,1-Dichloroethene	94	98	73-121	65-129	4	0-12	
Ethylbenzene	99	102	80-120	73-127	3	0-20	
Toluene	92	93	78-114	72-120	1	0-7	
Trichloroethene	94	96	84-114	79-119	2	0-8	
Vinyl Chloride	105	102	63-129	52-140	3	0-15	
Methyl-t-Butyl Ether (MTBE)	95	95	77-125	69-133	0	0-11	
Tert-Butyl Alcohol (TBA)	98	100	47-137	32-152	3	0-27	
Diisopropyl Ether (DIPE)	99	100	76-130	67-139	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	96	99	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	82-118	76-124	2	0-11	
Ethanol	97	102	59-131	47-143	4	0-21	
TPPH	99	103	65-135	53-147	4	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-09-0014

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Peter Schaefer - 240897

INCIDENT # (ENV SERVICES): 98995746 [ ] CHECK IF NO INCIDENT # APPLIES

PO # / SAP #

DATE: 8/28/09

PAGE: 1 of 2

2 - Contingent Analysis

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4411 Foothill Blvd, Oakland

State: CA

GLOBAL ID NO: T0600101065

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO: 240897-2009-13

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3319

FAX: 510-420-9170

E-MAIL: pschaefer@craworld.com

SAMPLER NAME(S) (Print): Carmen Rodriguez

LAB USE ONLY: 09-09-0014 1/2

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

cc: Kari Dupler, kdupler@craworld.com and Shell.Lab.Billing@craworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	CRA-5A	8/28	16:00	SO						1	X	X	X											X	X						Please call
2	CRA-6A																														composite
3	CRA-7A																														sample
4	CRA-8A																														CRA-A
5	CRA-9		16:10																												

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Carmen Rodriguez	Secure location	8/28/09	18:00
Hans Calen	Tom O'Malley CEL	8/31/09	0940
CRD 8-31-09 1730		9/1/09	1030

512547119

05/2/06 Revision

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Peter Schaefer - 240897

INCIDENT # (ENV SERVICES): 98995746 [ ] CHECK IF NO INCIDENT # APPLIES

PO # / SAP #

DATE: 8/31/09

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4411 Foothill Blvd, Oakland

State: CA

GLOBAL ID NO: T0600101065

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO: 240897-2009-13

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3319

FAX: 510-420-9170

E-MAIL: pschaefer@craworld.com

SAMPLER NAME(S) (Print): Erin Reinhart-Kayla

LAB USE ONLY: 09-09-0014 2/2

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

cc: Kari Dupler, kdupler@craworld.com and Shell.Lab.Billing@craworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-8 Follow attached Contingent Analysis

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
6	CRA-10	8/31/09	10:00	SO						1	X	X	X											X	X						Please call
7	CRA-11	8/31/09	10:44	SO						1	X	X	X											X	X						composite sample CRA-8

Relinquished by: (Signature) Erin Reinhart-Kayla	Received by: (Signature) Scene Location	Date: 8/31/09	Time: 13:30
Relinquished by: (Signature) Kari Dupler CO 9-1-09	Received by: (Signature) Tom O'Malley CEC	Date: 9/1/09	Time: 0940
Relinquished by: (Signature) 9051259762	Received by: (Signature) Woodland CA	Date: 9/2/09	Time: 1030

05/2/06 Revision

0014

Contingent analyses

- Organic lead required if TTLC lead ≥ 13 mg/kg
- Aquatic bioassay required if **any** TPH (gasoline, diesel, or motor oil) ≥ 5,000 mg/kg
- TCLP benzene required if benzene ≥ 10 mg/kg
- TCLP and STLC required for metals per table below

Metal	Trigger level TTLC (mg/kg)	Requirement
Antimony	150	STLC required if TTLC ≥ 150 mg/kg
Arsenic	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC ≥ 1,000 mg/kg; STLC and TCLP required if TTLC ≥ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC ≥ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Chromium	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Cobalt	800	STLC required if TTLC ≥ 800 mg/kg
Copper	250	STLC required if TTLC ≥ 250 mg/kg
Lead	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Mercury	2/4	STLC required if TTLC ≥ 2 mg/kg; STLC and TCLP required if TTLC ≥ 4 mg/kg
Molybdenum	350	STLC required if TTLC ≥ 350 mg/kg
Nickel	200	STLC required if TTLC ≥ 200 mg/kg
Selenium	10/20	STLC required if TTLC ≥ 10 mg/kg; STLC and TCLP required if TTLC ≥ 20 mg/kg
Silver	50/100	STLC required if TTLC ≥ 50 mg/kg; STLC and TCLP required if TTLC ≥ 100 mg/kg
Thallium	70	STLC required if TTLC ≥ 70 mg/kg
Vanadium	240	STLC required if TTLC ≥ 240 mg/kg
Zinc	2,500	STLC required if TTLC ≥ 2,500 mg/kg

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-09-0014

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 9/1/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.8 °C - 0.2 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: JH

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: JH

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ ~~Unpreserved vials received for Volatiles analysis~~			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** JH

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-09-0914

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CRA

DATE: 9/2/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WB

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** WB

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** YL

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** WB