CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: June 7, 2011

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

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

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Environmental Health

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1	Remedial Action and Subsurface Investigation Report

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- ☒ 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 (electronic copy)
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

Completed by: Peter Schaefer Signed: Peter Schaefer

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

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

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
Agency No. RO0002971

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Senior Program Manager

REMEDIAL ACTION AND SUBSURFACE INVESTIGATION REPORT

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE	165255
INCIDENT NO.	97767044
AGENCY NO.	RO0002971

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

JUNE 7, 2011
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EXECUTIVE SUMMARY

- One groundwater monitoring well (MW-4) and two soil vapor probes (SVP-5 and SVP-5A) were destroyed because they were located in an excavation area.
- Two excavations were completed to remove petroleum hydrocarbon and lead soil impacts identified during previous investigations.
- One soil vapor probe (SVP-9) was installed and sampled.
- All COC detections in soil samples collected from the petroleum hydrocarbon and lead excavations are below RWQCB ESLs for commercial land use. The remedial actions have adequately addressed impacted areas identified during previous investigations.
- No COCs exceed RWQCB ESLs for commercial land use in the soil vapor samples collected from SVP-9 during this investigation, and no additional soil vapor sampling is warranted.
- Based on the site conditions and analytical data presented herein, on behalf of Shell, CRA requests case closure.

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 remedial actions and subsurface investigation at this site. CRA followed the scope of work and procedures presented in CRA's November 17, 2010 *Remedial Action Plan and Well Survey Work Plan*, which was approved in Alameda County Environmental Health's (ACEH's) December 13, 2010 letter, and CRA's February 8, 2011 *Subsurface Investigation Work Plan*. ACEH's April 21, 2011 electronic correspondence approved extending the due date for this report from May 5, 2011 to June 9, 2011.

The site is a former Shell service station located at the northeastern corner of Lincoln Avenue and Oak Street in Alameda, California (Figure 1). The area surrounding the site is mixed commercial and residential. The current site layout (Figure 2) includes a parking lot and commercial building housing a convenience store, a cleaners (not a dry cleaner), and a laundromat. The former service station layout included a station building, two dispenser islands, and seven fuel underground storage tanks (USTs). According to the Alameda Fire Department, the seven USTs were removed from the site in June 1982.

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

2.0 WELL AND SOIL VAPOR PROBE DESTRUCTION

2.1 PERMIT

CRA obtained a drilling permit from Alameda County Public Works Agency (ACPWA, Appendix B).

2.2 FIELD DATES

January 2, 2011 (well MW-4) and April 12, 2011 (soil vapor probes SVP-5 and SVP-5A).

2.3 PERSONNEL PRESENT

Geologist Erica Namba directed the well destruction and geologist Margareta Wolf directed the soil vapor probe destruction under the supervision of California Professional Geologist Peter Schaefer.

2.4 DESTRUCTION METHOD

After removing the well box, well MW-4 was destroyed by pressure grouting. Soil vapor probes SVP-5 and SVP-5A were removed in their entirety during the excavation detailed below.

2.5 WASTE DISPOSAL

Construction debris generated by the well destruction activities was transported by Vapor Tech Services (VTS) of Berkeley, California to Commercial Waste and Recycling of Oakland, California for recycling.

3.0 SOIL EXCAVATION

In order to address residual petroleum hydrocarbon and lead impacts identified during previous investigations, CRA directed two excavations at the locations shown on Figure 2, as detailed below.

3.1 PERMIT

American Integrated Services, Inc. (AIS) obtained a building permit from the City of Alameda (Appendix B).

3.2 FIELD DATES

April 11, 2011 through April 19, 2011.

3.3 EXCAVATION COMPANY

AIS.

3.4 PERSONNEL PRESENT

Geologist Margareta Wolf directed the excavation under the supervision of California Professional Geologist Peter Schaefer.

3.5 PETROLEUM HYDROCARBON EXCAVATION SOIL SAMPLING

CRA collected 2 soil samples from the bottom of the petroleum hydrocarbon excavation at depths of 13 and 13.5 feet below grade (fbg) and 11 soil samples from the sidewalls of the excavation at depths ranging from 3 to 12 fbg using a backhoe. Figures 2 and 3 show the sampling locations. The soil sampling locations were chosen to target each area or horizon with visible soil discoloration in the excavation. The soil was removed from the backhoe bucket and packed into clean stainless steel sample tubes; the tube ends were covered with Teflon® tape and plastic end caps. Soil samples were labeled, placed into a cooler with ice, entered onto a chain-of-custody record, and transported to a California-certified analytical laboratory.

3.6 LEAD EXCAVATION SOIL SAMPLING

CRA collected one soil sample from the bottom of the lead excavation at a depth of 3 fbg and four soils samples from the sidewalls of the excavation at 2 fbg using a shovel. Figures 2 and 3 show the sampling locations. The soil was removed from the shovel and packed into clean stainless steel sample tubes; the tube ends were covered with Teflon® tape and plastic end caps. Soil samples were labeled, placed into a cooler with ice, entered onto a chain-of-custody record, and transported to a California-certified analytical laboratory.

3.7 CHEMICAL ANALYSES

State-certified Accutest Laboratories of San Jose, California analyzed the soil samples for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B. In addition, samples from the lead excavation were analyzed for total lead by EPA Method 6010B, and samples collected from the petroleum hydrocarbon excavation on April 14, 2011 (HC-S-7, HC-SW-7, and HC-W-7) were analyzed for methyl tertiary-butyl ether (MTBE) by EPA Method 8260B. Appendix C includes the laboratory reports.

3.8 WASTE DISPOSAL

CRA drilled two soil borings (COMP-1 and COMP-2) to obtain composite samples from the excavation areas in order to pre-profile excavated soils for disposal. Boring logs for the soil borings are presented in Appendix D, and the laboratory report is included in Appendix C. AIS excavated and transported approximately 56 tons of soil on April 12 and April 14, 2011 to Allied Waste Industries' Keller Canyon Landfill in Pittsburg, California for disposal as non-hazardous waste. Appendix E presents the manifests.

4.0 SOIL VAPOR PROBE INSTALLATION AND SAMPLING

4.1 PERMIT

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

4.2 FIELD DATE

March 7, 2011.

4.3 DRILING COMPANY

VTS.

4.4 PERSONNEL PRESENT

Geologist Oliver Yan directed the probe installation working under the supervision of California Professional Geologist Aubrey Cool.

4.5 DRILLING METHOD

Air-knife.

4.6 NUMBER OF PROBES

CRA installed one nested soil vapor probe (SVP-9). The probe specifications and soil types encountered are described on the boring log contained in Appendix D. The probe location is shown on Figure 2.

4.7 VAPOR POINT MATERIALS

The nested vapor probe was constructed using ¼-inch diameter Teflon® tubing attached to 1-inch length stainless steel screen intervals, and #2/12 Monterey sand filter pack. A probe diagram is provided with boring log in Appendix D.

4.8 SCREENED INTERVALS

1.9-2.0 fbg and 4.4 to 4.5 fbg.

4.9 SOIL VAPOR SAMPLING

On March 30, 2011, CRA sampled soil vapor probe SVP-9 at 2 fbg and 4.5 fbg. The soil vapor samples were collected using a lung box and Tedlar® bag.

Prior to sampling, CRA purged at least three tubing volumes of air from each vapor probe using a vacuum pump. Immediately after purging, CRA collected a soil vapor sample using a laboratory-supplied Tedlar® bag. During sampling, CRA connected the Teflon® tubing for each vapor probe to a lung box containing the Tedlar® bag, and the lung box chamber was connected to the vacuum pump. CRA then drew the sample into the Tedlar® bag by reducing the pressure in the lung box with the vacuum pump. Each sample was labeled, documented on a chain-of-custody, and submitted to Calscience Environmental Laboratories, Inc. of Garden Grove, California for analysis within 72 hours.

To check the system for leaks, CRA placed a containment unit (or shroud) over the soil vapor probe surface casing and sampling manifold. Prior to soil vapor probe purging, CRA introduced helium into the containment unit to obtain a minimum 50 percent helium content level. CRA confirmed the helium content within the containment unit using a helium meter. The helium meter readings are presented in Section 5.2.1. All samples were analyzed by the laboratory for helium, and CRA presents the results in Section 5.2.1 and on Table 1.

4.10 CHEMICAL ANALYSES

Soil vapor samples were analyzed for TPHg by EPA Method TO-3 (modified); for BTEX and naphthalene by EPA Method 8260B (modified); for oxygen and argon, carbon dioxide, and methane by ASTM D-1946; and for helium by ASTM D-1946 (modified).

4.11 WASTE DISPOSAL

Soil generated during field activities was stored on site in 55-gallon drums and disposed with the excavations spoils as detailed above. Construction debris generated by the soil vapor probe installation activities was transported by VTS to Commercial Waste and Recycling of Oakland, California for recycling.

5.0 FINDINGS

5.1 SOIL

The soil chemical analytical data are summarized in Table 2, and TPHg, BTEX, and lead analytical results are presented on Figure 3. Laboratory analytical reports are presented in Appendix C.

The soil samples from the petroleum hydrocarbon excavation contained up to 166 milligrams per kilogram (mg/kg) TPHg, 0.0535 mg/kg benzene, and 2.24 mg/kg ethylbenzene. Toluene, xylenes, and MTBE were not detected in soil samples from the petroleum hydrocarbon excavation.

The soil samples from the lead excavation contained lead at concentrations ranging from 15.0 to 150 mg/kg. TPHg and BTEX were not detected in soil samples from the lead excavation.

5.2 SOIL VAPOR

Table 1 summarizes the soil vapor analytical data. TPHg and BTEX results are shown on Figure 4, and the laboratory analytical report is presented in Appendix C.

5.2.1 LEAK TESTING

CRA performed leak testing as described above, and helium was not detected in any of the samples. As shown in the following table, the reporting limit for helium (0.0100 percent by volume [%v]) is less than 10 percent of the concentration detected in the shroud, and the samples are considered valid.

Sample ID	*Helium concentration in sample (%v)*	*Minimum helium concentration detected in shroud (%v)*	*Maximum acceptable helium concentration in sample (%v)*
SVP-9-2'	<0.0100	68	6.8
SVP-9-4.5'	<0.0100	67	6.7

The laboratory analytical report for helium is presented in Appendix C, and CRA includes the results on Table 1.

6.0 CONCLUSIONS

All constituent of concern (COC) detections in soil samples collected from the petroleum hydrocarbon and lead excavations are below San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for commercial land use. The remedial actions have adequately addressed impacted areas identified during previous investigations.

No COCs exceed RWQCB ESLs in any of the soil vapor samples collected during this investigation, and no additional soil vapor sampling is warranted.

7.0 RECOMMENDATIONS

Based on the site conditions and analytical data presented herein, on behalf of Shell, CRA requests case closure.

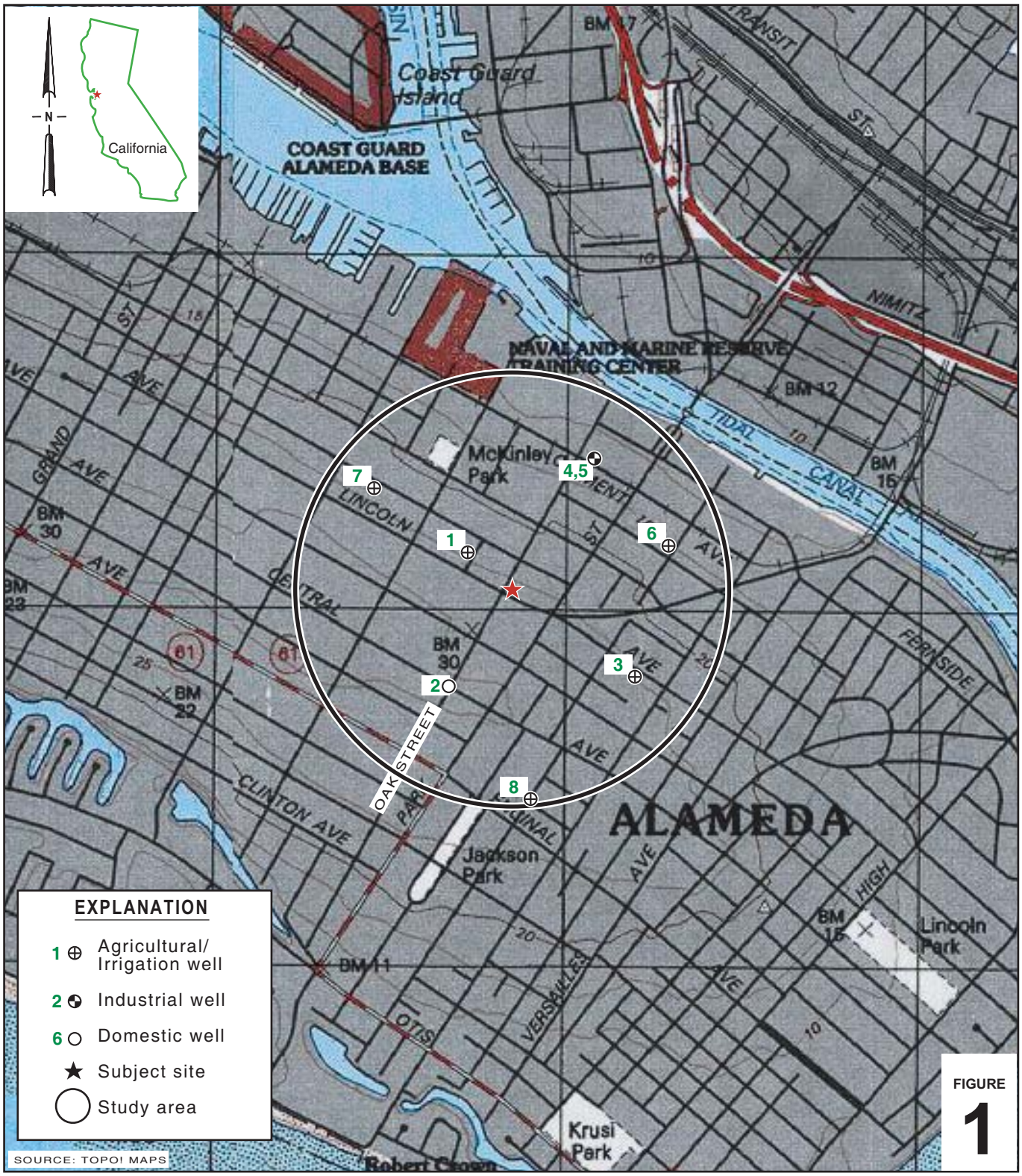
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

12/10/2010



I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

06/02/2011

Site Plan

EXPLANATION

- HC-CN — Hydrocarbon excavation soil sample location (CRA, 4/11)
- PB-C — Lead excavation soil sample location (CRA, 4/11)
- COMP-1 — Soil boring location (CRA, 4/11)
- MW-4 — Destroyed monitoring well location
- SVP-5 — Destroyed soil vapor probe location
- MW-1 — Monitoring well location
- B-6 — Soil boring location (CRA, 7/10)
- SVP-1 — Soil vapor probe location (CRA, 2/09, 3/10, 4/11)
- B-5 — Geoprobe boring location (CRA, 2/09)
- EB-1 — Soil boring location (Geomatrix, 8/07)
- SB-1 — Soil boring location (Basics Environmental, 7/99)
- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

OAK STREET

LINCOLN AVENUE

Approximate Property Line

Former 76 Station
2267 Lincoln Avenue

Former Shell Station
2301-2307 Lincoln Avenue

Former Building (circa 1950)[1]

7-11 Store Building

Former Tire Recapping Facility (circa 1950)[1]

Former Gasoline & Oil USTs (installed in 1920s)

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Former Building (circa 1950)[1]

Former Dispensers (circa 1982)[2]

Former Dispensers (circa 1982)[2]

Lead Excavation

Petroleum Hydrocarbon Excavation

Former USTs (installed in 1970s)

Laundorland Building

Commercial Building

Sidewalk

Planter

Parking

Overhang

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 B-5 B-6 B-7 B-8

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9

SVP-1 SVP-2 SVP-3 SVP-4 SVP-5 SVP-5A SVP-6 SVP-7 SVP-8 SVP-9

EB-1 EB-2 EB-3 EB-4 EB-5 EB-6 EB-8 EB-9 EB-10 EB-11

HC-N HC-CN HC-W HC-W(7) HC-E HC-SW HC-S HC-CS

PB-N PB-W PB-C PB-S PB-E

COMP-1 COMP-2

N

0 10 20 40

Scale (ft)

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN.DWG

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, California

FIGURE
2

EXPLANATION

HC-CN • Hydrocarbon excavation soil sample location (CRA, 4/11)

PB-C ■ Lead excavation soil sample location (CRA, 4/11)

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-E-2	04/11/2011	2.0	<0.097	<0.0049	<0.0049	<0.0049	<0.0097	35.6

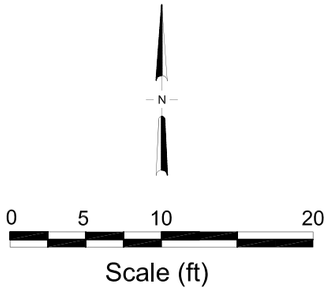
Notes:

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

NA = Not analyzed

TPHg = Total petroleum hydrocarbons as gasoline

<X = Not detected at reporting limit X



Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-CN-13.5	04/12/2011	13.5	2.27	0.0230	<0.026	0.0215	<0.053	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-N-6	04/12/2011	6	0.951	<0.0050	<0.0050	0.0302	<0.010	NA
HC-N-8	04/12/2011	8	127	<1.2	<1.2	2.24	<2.5	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-W-6	04/12/2011	6	25.2	<0.25	<0.25	0.966	<0.49	NA
HC-W-8	04/12/2011	8	17.0	<0.25	<0.25	0.173	<0.50	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-N-2	04/11/2011	2.0	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	17.9

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-W-7	04/14/2011	7	0.912	<0.022	<0.022	0.0448	<0.043	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-SW-7	04/14/2011	7	0.399	0.0020	<0.0049	0.0315	<0.0098	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-E-6	04/12/2011	6	20.4	<0.25	<0.25	0.182	<0.50	NA
HC-E-12	04/12/2011	12	1.31	<0.023	<0.023	<0.023	<0.047	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-W-2	04/11/2011	2.0	<0.098	<0.0049	<0.0049	<0.0049	<0.0098	19.2

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-C-3	04/11/2011	3.0	<0.099	<0.0049	<0.0049	<0.0049	<0.0099	150

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-E-2	04/11/2011	2.0	<0.097	<0.0049	<0.0049	<0.0049	<0.0097	35.6

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-S-3	04/12/2011	3	15.1	<0.25	<0.25	<0.25	<0.50	NA
HC-S-7	04/14/2011	7	166	<0.98	<0.98	1.54	<2.0	NA
HC-S-7.5	04/12/2011	7.5	1.08	0.0150	<0.011	0.0044	<0.021	NA

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
HC-CS-13	04/12/2011	13	27.1	0.0535	<0.023	0.141	<0.046	NA

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total Lead (mg/kg)
PB-S-2	04/11/2011	2.0	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	15.0

HC-CN
HC-W(6,8)
HC-N
HC-W(7)
HC-SW
HC-S
HC-CS
HC-E
PB-C
PB-N
PB-W
PB-E
PB-S
Lead Excavation
Former Dispenser (circa 1982)[2]
Petroleum Hydrocarbon Excavation
Former USTs (installed in 1970s)

FIGURE

3

Soil Chemical Concentrations Map

April 11-14, 2011

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

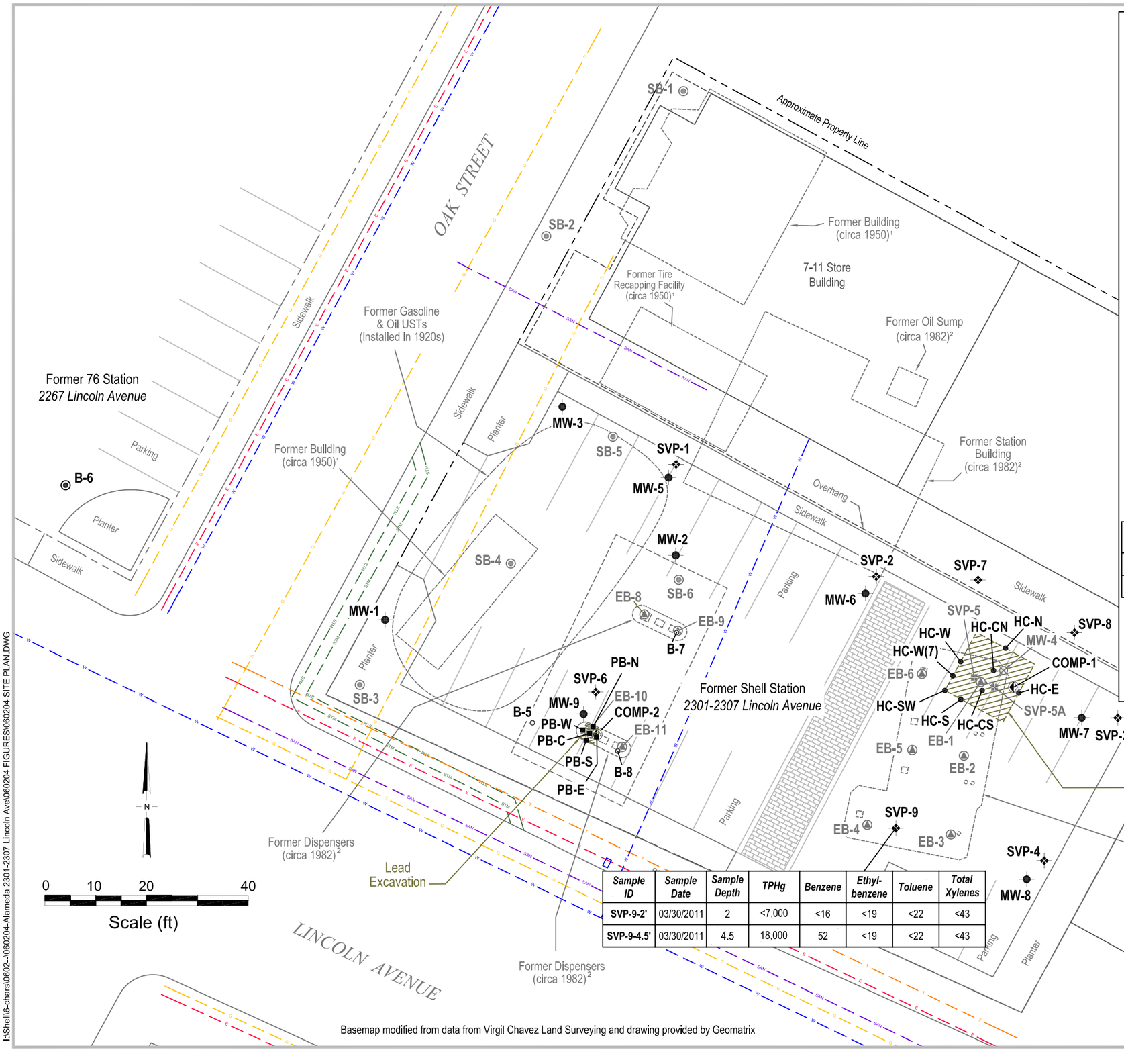
CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN (F3, SOIL DATA).DWG

05/27/2011

Soil Vapor Chemical Concentrations Map

March 30, 2011



EXPLANATION

HC-CN	Hydrocarbon excavation soil sample location (CRA, 4/11)
PB-C	Lead excavation soil sample location (CRA, 4/11)
COMP-1	Soil boring location (CRA, 4/11)
MW-4	Destroyed monitoring well location
SVP-5	Destroyed soil vapor probe location
MW-1	Monitoring well location
B-6	Soil boring location (CRA, 7/10)
SVP-1	Soil vapor probe location (CRA, 2/09, 3/10, 4/11)
B-5	Geoprobe boring location (CRA, 2/09)
EB-1	Soil boring location (Geomatrix, 8/07)
SB-1	Soil boring location (Basics Environmental, 7/99)
	Electrical & Telecommunications line (E)
	Telecommunications & Cable TV line (T)
	Gas line (G)
	Storm drain line (STM)
	Sanitary sewer line (SAN)
	Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-9-2'	03/30/2011	2	<7,000	<16	<19	<22	<43
SVP-9-4.5'	03/30/2011	4.5	18,000	52	<19	<22	<43

Notes:
Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)
NA = Not available
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Ethyl-benzene	Toluene	Total Xylenes
SVP-9-2'	03/30/2011	2	<7,000	<16	<19	<22	<43
SVP-9-4.5'	03/30/2011	4.5	18,000	52	<19	<22	<43

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

FIGURE

4

Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN.DWG

TABLES

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naph-thalene*	*Chloro-form*	*Dichloro-difluoro-methane*	*Tetra-chloro-ethene*	*Butane*	*Iso-butane*	*Propane*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Helium (%v)*
SVP-1	3/11/2009	5	<8,900	5.4[b]	<2.9[b]	<3.4[b]	<13[b]	<11	---	---	---	---	<18	110	<42	---	---	---	---
SVP-2	3/11/2009	5	<9,200	7.3[b]	<3.0[b]	<3.5[b]	<14[b]	<12	---	---	---	---	<19	<19	<43	---	---	---	---
SVP-3	3/11/2009	5	<11,000	5.5[b]	<3.6[b]	<4.2[b]	<17[b]	<14	---	---	---	---	<23	<23	<52	---	---	---	---
SVP-4-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	1.62	20.0	<0.0100
SVP-4-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	1.74	20.0	<0.0100
SVP-5	3/11/2009	5	**10,000,000**	**11,000**[b]	1,800[b]	**21,000**[b]	<5,900[b]	<4,900	---	---	---	---	<8,100	<8,100	<18,000	---	---	---	---
SVP-5 DUP[a]	3/11/2009	5	**11,000,000**	**12,000**[b]	1,600[b]	**23,000**[b]	<5,500[b]	<4,500	---	---	---	---	<7,500	<7,500	<17,000	---	---	---	---
SVP-5	7/29/2010	5	**8,400,000**	<10,000	<12,000	**14,000**	<27,000	---	<33,000	---	---	---	---	---	---	1.73	0.147	0.741	<0.0100
SVP-5A-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	6.20	14.6	<0.0100
SVP-6-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	4.12	17.7	<0.0100
SVP-6-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	4.70	17.3	<0.0100
SVP-7-2ft[d]	6/16/2010	2	<5,700	<1.6[b]	<19[b]	<2.2[b]	<8.7[b]	<7.2	<52[b]	4.9	2.5	15	---	---	---	<0.500	1.91	19.8	<0.0100
SVP-7-5ft[d]	6/16/2010	5	<5,700	<1.6[b]	<19[b]	<2.2[b]	<8.7[b]	<7.2	<52[b]	<2.4	<2.5	26	---	---	---	<0.500	4.27	17.5	<0.0100
SVP-8-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	2.38	19.6	<0.0100
SVP-8-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	3.38	18.0	<0.0100
SVP-9-2'	3/30/2011	2	<7,000	<16	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	5.90	8.83	<0.0100
SVP-9-4.5'	3/30/2011	4.5	18,000	52	<19	<22	<43	---	<52	---	---	---	---	---	---	<0.500	8.34	8.68	<0.0100
Residential Land Use ESL [c]:			*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*72*	*460*	*NA*	*410*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Commercial/Industrial Land Use ESL [c]:			*29,000*	*280*	*180,000*	*3,300*	*58,000*	*31,000*	*240*	*1,500*	*NA*	*1,400*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Notes:

All results in micrograms per cubic meter ($\mu g/m^3$) unless otherwise indicated.
%v = Percent by volume
fbg = Feet below grade
TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3M
Benzene, toluene, ethylbenzene and total xylenes analyzed by EPA Method 8260B (M) unless otherwise noted.
MTBE = Methyl tertiary-butyl ether by modified EPA Method TO-15
Naphthalene analyzed by EPA Method EPA Method 8260B (M) unless otherwise noted
Chloroform, dichlorodifluoromethane, and tetrachloroethene analyzed by EPA TO-15M.
Butane, isobutane, and propane by modified EPA Method TO-15
Methane, carbon dioxide, oxygen + argon, and helium analyzed by ASTM D-1946
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed ESL

a = Field duplicate
b = Analyzed by modified EPA Method TO-15M
c = San Francisco Bay Regional Water Quality Control Board ESLs for shallow soil gas (Table E 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])
d = Sample analyzed for full volatile organic compound scan by EPA Method 8260B (M). All detected compounds tabulated.

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*Total Lead*
SB-1	7/24/1999	7.5	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	---	---	---	---	---	---	---
SB-2	7/24/1999	7.5	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	---	---	---	---	---	---	---
SB-3	7/24/1999	7.5	---	---	40[a]	<0.005	<0.005	0.012	<0.005	<0.05	---	---	---	---	---	---	---
SB-4	7/24/1999	7.5	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	---	---	---	---	---	---	---
SB-5	7/24/1999	7.5	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	---	---	---	---	---	---	---
SB-6	7/24/1999	5	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	---	---	---	---	---	---	---
MW-1-3.0	8/15/2007	3.0	---	---	<0.18	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	<0.0042	<0.0042	---
MW-1-8.5	8/15/2007	8.5	---	---	**1,600**	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	---
MW-1-12.0	8/15/2007	12.0	---	---	2.4	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	<0.075	<0.0037	<0.0037	---
MW-1-14.5	8/15/2007	14.5	---	---	<0.16	<0.0052	<0.0052	<0.0052	<0.0104	<0.0052	<0.0052	<0.0052	<0.0052	<0.10	<0.0052	<0.0052	---
MW-2-10.5	8/15/2007	10.5	---	---	5.0	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.079	<0.004	<0.004	---
EB-1-10.5	8/16/2007	10.5	---	---	**470**	<6.6	<6.6	**100**	<13.2	<6.6	<6.6	<6.6	<6.6	<130	<6.6	<6.6	4.5
EB-1-14.0	8/16/2007	14.0	---	---	<0.82	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.081	<0.004	<0.004	1.4
EB-2-9.0	8/16/2007	9.0	---	---	24	**0.44**	<0.27	3.7	<0.54	<0.27	<0.27	<0.27	<0.27	<5.3	<0.27	<0.27	21
EB-2-13	8/16/2007	13.0	---	---	<0.150	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.091	<0.0045	<0.0045	1.2
EB-3-9.0	8/16/2007	9.0	---	---	68	**0.99**	<0.73	**12**	1.0	<0.73	<0.73	<0.73	<0.73	<15	<0.73	<0.73	2.0
EB-3-11.8	8/16/2007	11.8	---	---	<0.18	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	<0.0042	<0.0042	1.8
EB-4-6.5	8/16/2007	6.5	---	---	<0.19	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043	<0.086	<0.0043	<0.0043	2.3
EB-4-10.2	8/16/2007	10.2	---	---	<0.18	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.091	<0.0045	<0.0045	1.8
EB-4-13.0	8/16/2007	13.0	---	---	<0.16	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.082	<0.0041	<0.0041	1.7

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*Total Lead*
EB-5-2.5	8/16/2007	2.5	---	---	<0.18	<0.0071	<0.0071	<0.0071	<0.0142	<0.0071	<0.0071	<0.0071	<0.0071	<0.14	<0.0071	<0.0071	48
EB-5-9.0	8/16/2007	9.0	---	---	2.4	<0.21	<0.21	3.7	1.1	<0.21	<0.21	<0.21	<0.21	<4.2	<0.21	<0.21	2.6
EB-5-12.5	8/16/2007	12.5	---	---	<1.1	<0.0045	<0.0045	<0.0045	<0.0090	<0.0045	<0.0045	<0.0045	<0.0045	<0.089	<0.0045	<0.0045	1.5
EB-6-9.5	8/16/2007	9.5	---	---	4.3	<0.12	<0.12	1.8	<2.4	<0.12	<0.12	<0.12	<0.12	<2.4	<0.12	<0.12	2.5
EB-6-14.0	8/16/2007	14.0	---	---	<0.18	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	<0.072	<0.0036	<0.0036	2.0
EB-8-1.5	8/15/2007	1.5	---	---	<0.98	<0.0049	<0.0049	<0.0049	<0.0098	<0.020	---	---	---	---	---	---	40
EB-9-2.0	8/15/2007	2.0	---	---	<0.96	<0.0048	<0.0048	<0.0048	<0.0096	<0.019	---	---	---	---	---	---	2.0
EB-10-2.0	8/16/2007	2.0	---	---	<1.5	<0.0051	<0.0051	<0.0051	<0.012	<0.0051	<0.0051	<0.0051	<0.0051	<0.10	<0.0051	<0.0051	550
EB-11-2.0	8/16/2007	2.0	---	---	<1.2	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.096	<0.0048	<0.0048	3.3
B-5-5.5'	2/27/2009	5.5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
B-5-8.5'	2/27/2009	8.5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
B-7-5.5'	2/27/2009	5.5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
B-7-8.5'	2/27/2009	8.5	---	---	87	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---	---
B-8-5.5'	2/27/2009	5.5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
B-8-8.5'	2/27/2009	8.5	---	---	**7,900**	<20	<20	**120**	**150**	<20	---	---	---	---	---	---	---
MW-4-5'	2/25/2009	5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-4-8'	2/25/2009	8	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-5-5'	2/24/2009	5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-5-8'	2/24/2009	8	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*Total Lead*
MW-6-5'	2/26/2009	5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-6-8'	2/26/2009	8	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-7-5'	2/25/2009	5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-7-8'	2/25/2009	8	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-8-5'	2/23/2009	5	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-8-8'	2/23/2009	8	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
MW-9-5.5'	3/25/2010	5.5	81	9.7[b]	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	3.36
MW-9-8.5'	3/25/2010	8.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	2.45
MW-9-12'	3/25/2010	12	450	54[b]	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	17.1
MW-9-17.5'	3/25/2010	17.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	1.85
B-6-5.25	7/13/2010	5.25	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.18
B-6-8.0	7/13/2010	8	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.72
B-6-9.5	7/13/2010	9.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.68
PB-E-2	4/11/2011	2	---	---	<0.097	<0.0049	<0.0049	<0.0049	<0.0097	---	---	---	---	---	---	---	35.6
PB-W-2	4/11/2011	2	---	---	<0.098	<0.0049	<0.0049	<0.0049	<0.0098	---	---	---	---	---	---	---	19.2
PB-S-2	4/11/2011	2	---	---	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	---	---	---	---	---	---	---	15.0
PB-N-2	4/11/2011	2	---	---	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	---	---	---	---	---	---	---	17.9

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHmo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2-DCA*	*EDB*	*Total Lead*
PB-C-3	4/11/2011	3	---	---	<0.099	<0.0049	<0.0049	<0.0049	<0.0099	---	---	---	---	---	---	---	150
HC-CN-13.5	4/12/2011	13.5	---	---	2.27	0.0230[e]	<0.026	0.0215[e]	<0.053	---	---	---	---	---	---	---	---
HC-CS-13	4/12/2011	13	---	---	27.1[f]	0.0535	<0.023	0.141	<0.046	---	---	---	---	---	---	---	---
HC-E-6	4/12/2011	6	---	---	20.4	<0.25	<0.25	0.182[e]	<0.50	---	---	---	---	---	---	---	---
HC-E-12	4/12/2011	12	---	---	1.31	<0.023	<0.023	<0.023	<0.047	---	---	---	---	---	---	---	---
HC-W-6	4/12/2011	6	---	---	25.2	<0.25	<0.25	0.966	<0.49	---	---	---	---	---	---	---	---
HC-W-8	4/12/2011	8	---	---	17.0	<0.25	<0.25	0.173[e]	<0.50	---	---	---	---	---	---	---	---
HC-W-7	4/14/2011	7	---	---	0.912	<0.022	<0.022	0.0448	<0.043	<0.022	---	---	---	---	---	---	---
HC-N-6	4/12/2011	6	---	---	0.951	<0.0050	<0.0050	0.0302	<0.010	---	---	---	---	---	---	---	---
HC-N-8	4/12/2011	8	---	---	127	<1.2	<1.2	2.24	<2.5	---	---	---	---	---	---	---	---
HC-S-3	4/12/2011	3	---	---	15.1	<0.25	<0.25	<0.25	<0.50	---	---	---	---	---	---	---	---
HC-S-7.5	4/12/2011	7.5	---	---	1.08	0.0150	<0.011	0.0044[e]	<0.021	---	---	---	---	---	---	---	---
HC-S-7	4/14/2011	7	---	---	166	<0.98	<0.98	1.54	<2.0	<0.98	---	---	---	---	---	---	---
HC-SW-7	4/14/2011	7	---	---	0.399	0.0020[e]	<0.0049	0.0315	<0.0098	<0.0049	---	---	---	---	---	---	---
Shallow Soil (≤10 fbg) ESL [c]:			2,500	180	180	0.27	9.3	4.7	11	8.4	NA	NA	NA	110	0.48	0.044	750
Deep Soil (>10 fbg) ESL [d]:			5,000	180	180	2.0	9.3	4.7	11	8.4	NA	NA	NA	110	1.8	1.0	750

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

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

Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.
fbg = feet below grade
TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B (M)
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 27, 2009, analyzed by EPA 8015M.
Benzene, toluene, ethylbenzene and total xylenes analyzed by EPA Method 8260B; before August 15, 2007, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B, before August 15, 2007, analyzed by EPA Method 8020.
TBA = Tertiary-butyl alcohol 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 EPA Method
EDB = 1,2-Dibromoethane analyzed by EPA
Lead analyzed by EPA Method 6010B
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL

a = Strongly aged gasoline or diesel range compounds are significant.
b = The sample chromatographic pattern for TPHd 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.
c = San Francisco Bay Regional Water Quality Control Board commercial/industrial Environmental Screening Level for soil where groundwater is not a source of drinking water (Table B 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]).
d = San Francisco Bay Regional Water Quality Control Board commercial/industrial Environmental Screening Level for soil where groundwater is not a source of drinking water (Table 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]).
e = Estimated value
f = Analyte found in associated method blank

APPENDIX A

SITE HISTORY

SITE HISTORY

July 1999 Phase II Site Investigation: Basics Environmental (Basics) drilled six borings (SB-1 through SB-6, Figure 2) in the western portion of the site. Single soil samples were collected from all of the borings at 5 or 7.5 feet below grade (fbg) and grab groundwater samples were obtained from five of the borings (all except SB-5). Benzene and methyl tertiary-butyl ether (MTBE) were not detected in any of the samples. Analyses of the soil sample from boring SB-3 at 7.5 fbg showed concentrations of 40 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 0.012 mg/kg ethylbenzene. Analyses of the grab groundwater sample from SB-3 showed concentrations of up to 4,500 micrograms per liter (µg/l) TPHg, 4.4 µg/l toluene, 2.7 µg/l ethylbenzene, 4.0 µg/l xylenes, 10 µg/l n-butylbenzene, 14 µg/l sec-butylbenzene, 45 µg/l isopropyl benzene, 60 µg/l n-propylbenzene, and 26 µg/l vinyl acetate. Basics' August 12, 1999 *Limited Phase II Environmental Site Investigation* report presents details of this investigation.

August 2000 Site Assessment: Toxichem Management Systems, Inc. (Toxichem) conducted a site assessment which included a review of Basics' investigation, aerial photographs, Sanborn maps, and agency files. The site assessment results are presented in Toxichem's May 1, 2000 *Site Assessment Report.*

February 2007 Site Investigation: Geomatrix installed three groundwater monitoring wells (MW-1 through MW-3, Figure 2) in the western former UST (USTs originally installed in the 1920's) area and drilled 11 exploratory borings (EB-1 through EB-6 and EB-8 through EB-11, Figure 2) in the area of the eastern former USTs (USTs originally installed in the 1970's) and fuel dispensers. No toluene, fuel oxygenates, or lead scavengers were detected in any of the soil samples. No petroleum hydrocarbons were detected in samples collected from 1.5 to 6.5 fbg. Soil samples collected from 8.5 to 14.0 fbg showed concentrations of up to 1,600 mg/kg TPHg, 0.99 mg/kg benzene, 100 mg/kg ethylbenzene, 1.1 mg/kg xylenes, and 21 mg/kg lead. Sample EB-10-2.0 contained a concentration of 550 mg/kg lead. Grab groundwater samples collected from the wells and exploratory borings EB-1 and EB-4 contained concentrations of up to 7,000 µg/l TPHg, 980 µg/l benzene, 490 µg/l ethylbenzene, 11 µg/l toluene, and 19 µg/l xylenes. Groundwater was gauged at 8.37 to 9.26 fbg, and flow direction was calculated to be to the east-northeast. Geomatrix's December 2007 *Subsurface Investigation Summary Report* presents details of this investigation.

February 2009 Subsurface Investigation: Conestoga-Rovers & Associates (CRA) installed five groundwater monitoring wells (MW-4, MW-5, MW-6, MW-7, and MW-8), installed five soil vapor probes (SVP-1 through SVP-5), and drilled three soil borings

(B-5, B-7, and B-8). No benzene, toluene, or MTBE was detected in soil samples collected during this investigation. Only the TPHg (7,900 mg/kg), ethylbenzene (120 mg/kg), and total xylenes (150 mg/kg) detections in soil sample B-8-8.5' exceeded the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) environmental screening levels (ESLs) for shallow soil where groundwater is not a source of drinking water[1]. TPHg, benzene, ethylbenzene, and xylenes were detected in grab groundwater samples collected from some of the borings. Only TPHg (up to 470 µg/l) exceeded the ESL in two grab groundwater samples; no other constituents of concern exceeded ESLs. MTBE was not detected in grab groundwater. Soil vapor samples from soil vapor probe SVP-5 contained concentrations of TPHg (up to 11,000,000 micrograms per cubic meter [µg/m^3]), benzene (up to 12,000 µg/m^3), and ethylbenzene (up to 23,000 µg/m^3), which exceeded ESLs. TPHg and benzene, toluene, ethylbenzene, and xylenes concentrations in soil vapor samples collected from the other three soil vapor probes (SVP-1, SVP-2, and SVP-3) were all below ESLs. MTBE was not detected in soil vapor. Soil vapor probe SVP-4 could not be sampled due to an obstruction in the sample line. CRA's April 9, 2009 *Subsurface Investigation Report* presents investigation details.

March 2010 Subsurface Investigation: CRA installed one groundwater monitoring well (MW-9), installed four soil vapor probes (SVP-5A and SVP-6 through SVP-8), and reinstalled one soil vapor probe (SVP-4). No TPHg or benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil samples collected from well boring MW-9. Up to 450 mg/kg total petroleum hydrocarbons as motor oil (TPHmo), 54 mg/kg total petroleum hydrocarbons as diesel (TPHd), and 17.1 mg/kg lead were detected (in sample MW-9-12'). None of the detections exceeded the ESLs. CRA's May 12, 2010 *Subsurface Investigation Report* provides details of this investigation.

June 2010 Soil Vapor Sampling: CRA sampled five soil vapor probes (SVP-4, SVP-5A, and SVP-6 through SVP-8), and in July 2010, CRA sampled one soil vapor probe (SVP-5). Only the TPHg (8,400,000 µg/m^3) and ethylbenzene (14,000 µg/m^3) detections from SVP-5 (at 5 fbg) exceeded ESLs. Soil vapor concentrations are defined below ESLs vertically by SVP-5A (at 2 fbg) and horizontally by SVP-2 through SVP-4 and SVP-6 through SVP-8. CRA's August 24, 2010 *Soil Vapor Sampling Report* summarizes this investigation.

July 2010 Subsurface Investigation: CRA drilled one off-site boring B-6 at 2267 Lincoln Avenue to further assess the extent of petroleum hydrocarbons in soil and groundwater. No TPHmo, TPHd, TPHg, BTEX, fuel oxygenates, 1,2-dichloroethane (1,2-DCA), or

1 *Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]

1,2-dibromoethane (EDB) were detected in soil samples collected from boring B-6. Up to 2.72 mg/kg lead was detected (B-6-8.0). No TPHg, BTEX, fuel oxygenates, 1,2-DCA, or EDB were detected in the grab groundwater sample collected from boring B-6. The grab groundwater sample contained 56 µg/l TPHd. None of the detections exceeded the ESLs. CRA's August 27, 2010 *Subsurface Investigation Report* provides details of this investigation.

February 2011 Well Survey: CRA reviewed Alameda County Public Works Agency and California Department of Water Resources records for water-producing wells within 2,000 feet of the subject site. One domestic well, five irrigation wells, and two industrial wells were identified. The domestic well is located cross gradient from the site. The current status of these wells is not known. Down-gradient wells are over 1,000 feet from the site, so there is little likelihood that the on-site petroleum hydrocarbon impacts would reach them. CRA's February 10, 2011 *Well Survey Report* documents the well survey.

Groundwater Monitoring: Geomatrix sampled wells MW-1 through MW-3 in August 2007, and groundwater monitoring was initiated beginning with the first quarter of 2009 in wells MW-1 through MW-8 and the second quarter of 2010 in well MW-9. Fuel oxygenates were not detected in any of the August 2007 groundwater samples and are not included in the groundwater monitoring program, because gasoline station operations ceased at the site prior to the use of MTBE in gasoline. No constituents of concern have been detected above non-drinking water ESLs in wells MW-2, MW-3, and MW-5 through MW-9. Concentrations up to 17,000 µg/l TPHg, 1,700 µg/l TPHd, 280 µg/l benzene, 270 µg/l ethylbenzene, 25 µg/l toluene, and 360 µg/l xylenes have been detected in groundwater samples from MW-1 and MW-4. Groundwater monitoring was suspended following the third quarter of 2010 sampling event.

APPENDIX B

PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 12/28/2010 By vickyh1

Permit Numbers: W2010-1025 to W2010-1026
Permits Valid from 04/11/2011 to 04/12/2011

Application Id: 1293115911146
City of Project Site: Alameda
Site Location: 2301-2307 Lincoln Avenue
Former Shell Service Station
Currently-parking lot, 7-11, Launderland
Project Start Date: 01/07/2011
Completion Date: 01/07/2011
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org
Extension Start Date: 04/11/2011
Extension End Date: 04/12/2011
Extension Count: 2
Extended By: vickyh1

Applicant: Conestoga-Rovers and Associates - Erica Namba
5900 Hollis Street, Suite A, Emeryville, CA 94608
Phone: 510-385-0547

Property Owner: NA Shell/Sabanc Sebank Trustees
2805 Ralson Avenue, Hillsborough, CA 94010
Phone: --

Client: NA Shell Oil Products US
20945 S. Wilmington Avenue, Carson, CA 94810
Phone: --

Contact: Peter Schaefer
Phone: 510-420-3319
Cell: --

Total Due: $662.00
Receipt Number: WR2010-0436 **Total Amount Paid:** $662.00
Payer Name : Conestoga Rovers and Associates Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 1 Wells
Driller: Vapor Tech Services - Lic #: 916085 - Method: press **Work Total: $397.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-1025	12/28/2010	04/07/2011	MW-4	10.00 in.	4.00 in.	2.00 ft	20.00 ft	2S/3W7N	W2009-0109	E0089038

Specific Work Permit Conditions

1. 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.

2. 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.

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 and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, 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.

6. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

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.

Well Destruction-Vapor monitoring well - 2 Wells
Driller: Conestoga Rovers - Lic #: 00000 - Method: other **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-1026	12/28/2010	04/07/2011	SVP-5	3.00 in.	0.25 in.	5.00 ft	5.00 ft			
W2010-1026	12/28/2010	04/07/2011	SVP-5a	4.00 in.	0.25 in.	2.20 ft	2.20 ft			

Specific Work Permit Conditions

1. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well 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.

2. 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.

3. Permittee, 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.

4. 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.

5. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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. 2 vapor monitoring wells to be excavated below depth by excavation contractor

CITY OF ALAMEDA

2263 SANTA CLARA AVENUE, ROOM 190
ALAMEDA, CA 94501

(510) 747-6800
FAX (510) 865-4053

Inspection Card

Permit # B11-0097

EXPIRES: 3/24/2014 **ISSUED: 03/25/2011** **VALUATION: $25000.00**

Address: 2301 LINCOLN AVE
Owner: SEBANC ALLAN A & BEVERLY M TRS ETAL 2805 RALSTON AVE HILLSBOROUGH CA 94010-6547
Contractor: AMERICAN INTEGRATED SERVICES INC 1502 EAST OPP STREET WILMINGTON CA 90744
Work Description: EXCAVATE ~ (PREVIOUSLY GASOLINE STATION) EXCAVATION & BACKFILL OF (2) CONTAMINATED AREA : TOTAL 35 CUBIC YARDS

Foundations:

Ground Plumbing:

Rough Electric:

Rough Plumbing:

Rough Heating & Ventilation:

Sub Floor:

Frame:

Insulation:

Certificate:

** Comments **

Sheetrock / Interior Lath:

(Required before taping or plastering)

Exterior Lath:

(Required before Stucco)

DESIGN REVIEW: (YES) (NO) By:

Final

Gas Test:

Kelly Test:

Sewer Repair / Replacement:

Final - Electric:

Final - Fire Department:

Final - Plumbing:

Final - Heating & Ventilation:

SEE NOTE.

Final - Building: 4-27-11 . [signature]

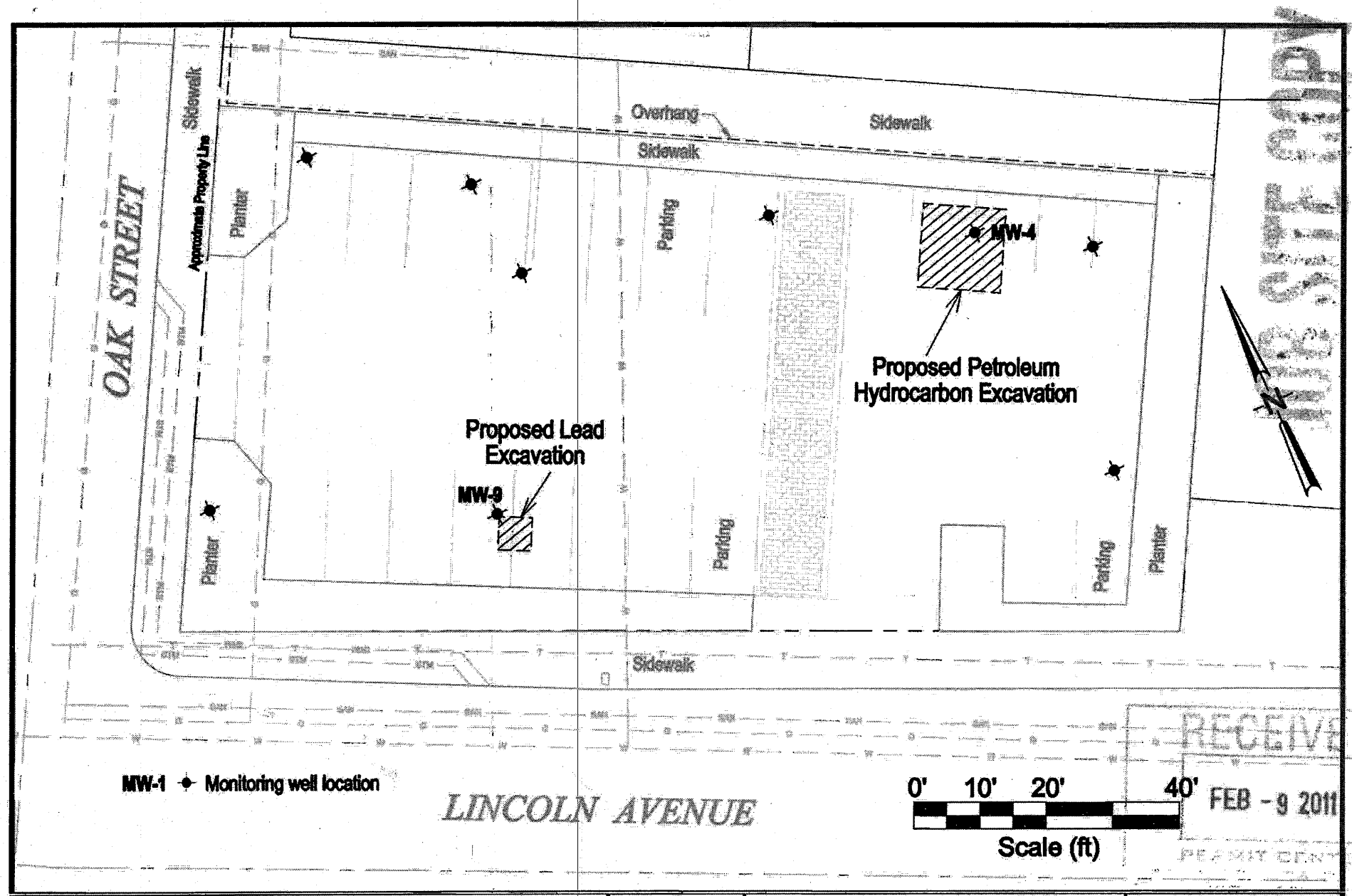
Final - Public Works:

Do not occupy structure until Certification of Occupancy has been issued. For Certificate of Occupancy to be issued, a copy of the inspection card with all Finals needs to be filed with the Permit Center, Room 190, City Hall, Alameda, CA

FOR INSPECTIONS - CALL 7:30 - 8:30 AM ONLY		**INSPECTIONS (MUST BE SCHEDULED)**	
Building:	**(510) 747-6830**	**Fire:**	**(510) 337-2120**
Plumbing & Mechanical:	**(510) 747-6830**	**Design Review:**	**(510) 747-6850**
Electrical:	**(510) 747-6830**	**Public Works:**	**(510) 749-5840**

747-7930
Flavio

Version Date: 02/12/2011

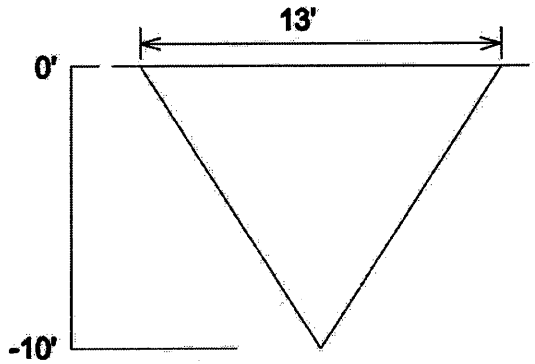


American Integrated Services, Inc. 1955 HUNTINGTON COURT, FAIRFIELD CA 94533, T (707) 473-2200, F (707) 437-2219	By: ebl 02/07/11	Former Shell Service Station 2301-2307 Lincoln Avenue Alameda, California	SITE PLAN Sheet 1 of 2

B11-0097

Construction Notes

1) Contractor to sawcut ashpalt and concrete, remove and recycle.
2) Contractor to setup temporary chainlink fence for site control.
3) Excavate lead impacted material to a depth of 3 feet below adjacent grade
4) Excavate hydrocarbon impacted material to a depth of 10 feet below adjacent grade with non-vertical sidewalls.
5) No personnel shall enter any excavation beyond 4' depth.
6) Excavation will be backfilled to 95% relative density.
7) Excavation areas will be re-surfaced to match existing grade and materials.
8) Work per Workplan by Conestoga-Rovers & Associates.
9) Existing Monitoring Wells will be addressed by others.



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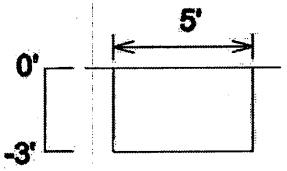

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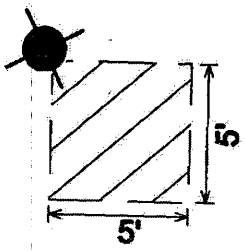
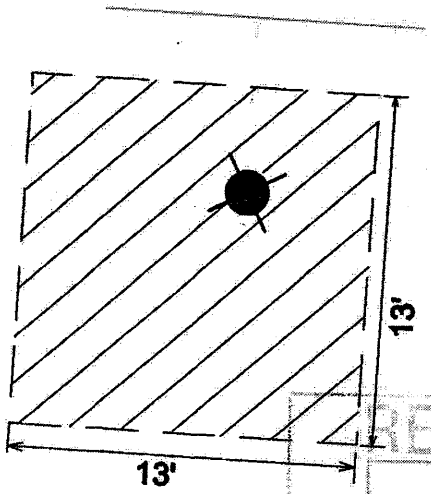


Plan

Lead Excavation

N.T.S



Plan

Hydrocarbon Excavation

N.T.S

American Integrated Services, Inc. 1955 HUNTINGTON COURT, FAIRFIELD CA 94533, T (707) 473-2200, F (707) 437-2219	By: ebl 02/07/11	Former Shell Service Station 2301-2307 Lincoln Avenue Alameda, California	DETAILS Sheet 2 of 2

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: 02/23/2011 By jamesy

Permit Numbers: W2011-0095 to W2011-0096
Permits Valid from 03/01/2011 to 03/12/2011

Application Id: 1298499551238
City of Project Site: Alameda
Site Location: 2301-2307 Lincoln Avenue, Alameda, CA
Project Start Date: 03/01/2011
Completion Date: 03/12/2011
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Conestoga Rovers & Associates - Oliver Yan
10969 Trade Center Dr, Ste 107, Rancho Cordova, CA 95670
Phone: 916-889-8928

Property Owner: Denis Brown - Shell Oil Products US
20946 S Wilmington Ave, Carson, CA 90810
Phone: 707-865-0251

Client: ** same as Property Owner **

Total Due:	$530.00
Total Amount Paid:	$530.00
PAID IN FULL	

Receipt Number: WR2011-0048
Payer Name : Conestoga-Rovers & Associates
Paid By: CHECK

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 2 Boreholes
Driller: Vapor Tech - Lic #: 916085 - Method: other

Work Total: $265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0095	02/23/2011	05/30/2011	2	3.00 in.	10.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

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

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

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, 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.

6. 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.

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

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.

Remediation Well Destruction-Vapor Remediation Well - 1 Wells
Driller: Vapor Tech - Lic #: 916085 - Method: other **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2011-0096	02/23/2011	05/30/2011	SVP9	3.00 in.	0.50 in.	4.50 ft	5.00 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. Permittee, 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. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well 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.

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

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Remove the Christy box or similar structure. Destroy well by overdrilling & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

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

APPENDIX C

CERTIFIED ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Conestoga-Rovers & Associates - Emeryville Shell
5900 Hollis St., Suite A
Emeryville, CA 94608
Attention: Aubrey Cool

Project: 2301-2307 Lincoln, Alameda, CA

Sampled: 03/07/11
Received: 03/08/11
Issued: 03/16/11 11:20

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUC0924-01	Comp-1	Soil
IUC0924-02	Comp-2	Soil

Reviewed By:

Philip Sanelle

TestAmerica Irvine

Philip Sanelle
Project Manager

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Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUC0924-01 (Comp-1 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
DRO (C10-C28)	EPA 8015B	11C1197	12	**210**	2.3	3/9/2011	3/9/2011	
ORO (C29-C40)	EPA 8015B	11C1197	12	**240**	2.3	3/9/2011	3/9/2011	
Surrogate: n-Octacosane (40-140%)				*237 %*				*ZX*
Surrogate: n-Octacosane (40-140%)				*237 %*				*ZX*
Sample ID: IUC0924-02 (Comp-2 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
DRO (C10-C28)	EPA 8015B	11C1197	10	ND	1.99	3/9/2011	3/9/2011	
ORO (C29-C40)	EPA 8015B	11C1197	10	**17**	1.99	3/9/2011	3/9/2011	
Surrogate: n-Octacosane (40-140%)				*113 %*				
Surrogate: n-Octacosane (40-140%)				*113 %*				

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Received: 03/08/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUC0924-01 (Comp-1 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11C1178	0.95	**13**	4.76	3/9/2011	3/9/2011	
Surrogate: Dibromofluoromethane (80-125%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*111 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*109 %*				
Sample ID: IUC0924-02 (Comp-2 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11C1178	0.20	ND	0.99	3/9/2011	3/10/2011	
Surrogate: Dibromofluoromethane (80-125%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				

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Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUC0924-01 (Comp-1 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Benzene	EPA 8260B	11C1178	0.0048	ND	4.76	3/9/2011	3/9/2011	
Ethylbenzene	EPA 8260B	11C1178	0.0048	**0.0065**	4.76	3/9/2011	3/9/2011	
Toluene	EPA 8260B	11C1178	0.0048	ND	4.76	3/9/2011	3/9/2011	
Xylenes, Total	EPA 8260B	11C1178	0.0095	ND	4.76	3/9/2011	3/9/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*109 %*				
Surrogate: Dibromofluoromethane (80-125%)				*114 %*				
Surrogate: Toluene-d8 (80-120%)				*111 %*				
Sample ID: IUC0924-02 (Comp-2 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Benzene	EPA 8260B	11C1178	0.00099	ND	0.99	3/9/2011	3/10/2011	
Ethylbenzene	EPA 8260B	11C1178	0.00099	ND	0.99	3/9/2011	3/10/2011	
Toluene	EPA 8260B	11C1178	0.00099	ND	0.99	3/9/2011	3/10/2011	
Xylenes, Total	EPA 8260B	11C1178	0.0020	ND	0.99	3/9/2011	3/10/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Surrogate: Dibromofluoromethane (80-125%)				*113 %*				
Surrogate: Toluene-d8 (80-120%)				*93 %*				

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUC0924-01 (Comp-1 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Mercury	EPA 7471A	11C1473	0.020	**0.13**	1	3/10/2011	3/10/2011	
Antimony	EPA 6010B	11C1278	9.9	ND	0.99	3/9/2011	3/10/2011	
Arsenic	EPA 6010B	11C1278	2.0	**5.4**	0.99	3/9/2011	3/10/2011	
Barium	EPA 6010B	11C1278	0.99	**72**	0.99	3/9/2011	3/10/2011	
Beryllium	EPA 6010B	11C1278	0.50	ND	0.99	3/9/2011	3/10/2011	
Cadmium	EPA 6010B	11C1278	0.50	ND	0.99	3/9/2011	3/10/2011	
Chromium	EPA 6010B	11C1278	0.99	**32**	0.99	3/9/2011	3/10/2011	
Cobalt	EPA 6010B	11C1278	0.99	**4.9**	0.99	3/9/2011	3/10/2011	
Copper	EPA 6010B	11C1278	2.0	**11**	0.99	3/9/2011	3/10/2011	
Lead	EPA 6010B	11C1278	2.0	**49**	0.99	3/9/2011	3/10/2011	
Molybdenum	EPA 6010B	11C1278	2.0	ND	0.99	3/9/2011	3/10/2011	
Nickel	EPA 6010B	11C1278	2.0	**26**	0.99	3/9/2011	3/10/2011	
Selenium	EPA 6010B	11C1278	2.0	ND	0.99	3/9/2011	3/10/2011	
Silver	EPA 6010B	11C1278	0.99	ND	0.99	3/9/2011	3/10/2011	
Thallium	EPA 6010B	11C1278	9.9	ND	0.99	3/9/2011	3/10/2011	
Vanadium	EPA 6010B	11C1278	0.99	**23**	0.99	3/9/2011	3/10/2011	
Zinc	EPA 6010B	11C1278	5.0	**60**	0.99	3/9/2011	3/10/2011	
Sample ID: IUC0924-02 (Comp-2 - Soil)					**Sampled: 03/07/11**			
Reporting Units: mg/kg								
Mercury	EPA 7471A	11C1473	0.020	**0.064**	1	3/10/2011	3/10/2011	
Antimony	EPA 6010B	11C1278	10	ND	0.995	3/9/2011	3/10/2011	
Arsenic	EPA 6010B	11C1278	2.0	ND	0.995	3/9/2011	3/10/2011	
Barium	EPA 6010B	11C1278	1.0	**41**	0.995	3/9/2011	3/10/2011	
Beryllium	EPA 6010B	11C1278	0.50	ND	0.995	3/9/2011	3/10/2011	
Cadmium	EPA 6010B	11C1278	0.50	ND	0.995	3/9/2011	3/10/2011	
Chromium	EPA 6010B	11C1278	1.0	**26**	0.995	3/9/2011	3/10/2011	
Cobalt	EPA 6010B	11C1278	1.0	**3.1**	0.995	3/9/2011	3/10/2011	
Copper	EPA 6010B	11C1278	2.0	**10**	0.995	3/9/2011	3/10/2011	
Lead	EPA 6010B	11C1278	2.0	**40**	0.995	3/9/2011	3/10/2011	
Molybdenum	EPA 6010B	11C1278	2.0	ND	0.995	3/9/2011	3/10/2011	
Nickel	EPA 6010B	11C1278	2.0	**14**	0.995	3/9/2011	3/10/2011	
Selenium	EPA 6010B	11C1278	2.0	ND	0.995	3/9/2011	3/10/2011	
Silver	EPA 6010B	11C1278	1.0	ND	0.995	3/9/2011	3/10/2011	
Thallium	EPA 6010B	11C1278	10	ND	0.995	3/9/2011	3/10/2011	
Vanadium	EPA 6010B	11C1278	1.0	**19**	0.995	3/9/2011	3/10/2011	
Zinc	EPA 6010B	11C1278	5.0	**41**	0.995	3/9/2011	3/10/2011	

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ORGANIC LEAD BY GFAA (HML 939-M)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUC0924-01 (Comp-1 - Soil)				**Sampled: 03/07/11**				
Reporting Units: mg/kg								
Organic Lead	HML 939-M	11C1954	0.025	**0.088**	1	3/14/2011	3/15/2011	M2
Sample ID: IUC0924-02 (Comp-2 - Soil)				**Sampled: 03/07/11**				
Reporting Units: mg/kg								
Organic Lead	HML 939-M	11C1954	0.025	ND	1	3/14/2011	3/15/2011	

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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1197 Extracted: 03/09/11										
Blank Analyzed: 03/09/2011 (11C1197-BLK1)										
DRO (C10-C28)	ND	5.0	mg/kg							
ORO (C29-C40)	ND	5.0	mg/kg							
EFH (C10 - C28)	ND	5.0	mg/kg							
EFH (C10 - C28)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*5.72*		*mg/kg*	*6.67*		*86*	*40-140*			
Surrogate: n-Octacosane	*5.72*		*mg/kg*	*6.67*		*86*	*40-140*			
LCS Analyzed: 03/09/2011 (11C1197-BS1)										
DRO (C10-C28)	23.7	5.0	mg/kg	33.3		71	45-115			
EFH (C10 - C28)	23.7	5.0	mg/kg	33.3		71	45-115			
EFH (C10 - C28)	23.7	5.0	mg/kg	33.3		71	45-115			
Surrogate: n-Octacosane	*5.66*		*mg/kg*	*6.67*		*85*	*40-140*			
Surrogate: n-Octacosane	*5.66*		*mg/kg*	*6.67*		*85*	*40-140*			
Matrix Spike Analyzed: 03/09/2011 (11C1197-MS1)					**Source: IUC0424-02**					
EFH (C10 - C28)	28.2	5.0	mg/kg	33.3	9.96	55	40-120			
EFH (C10 - C28)	28.2	5.0	mg/kg	33.3	9.96	55	40-120			
Surrogate: n-Octacosane	*6.34*		*mg/kg*	*6.67*		*95*	*40-140*			
Surrogate: n-Octacosane	*6.34*		*mg/kg*	*6.67*		*95*	*40-140*			
Matrix Spike Dup Analyzed: 03/09/2011 (11C1197-MSD1)					**Source: IUC0424-02**					
EFH (C10 - C28)	26.9	5.0	mg/kg	33.3	9.96	51	40-120	5	30	
EFH (C10 - C28)	26.9	5.0	mg/kg	33.3	9.96	51	40-120	5	30	
Surrogate: n-Octacosane	*6.14*		*mg/kg*	*6.67*		*92*	*40-140*			
Surrogate: n-Octacosane	*6.14*		*mg/kg*	*6.67*		*92*	*40-140*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1178 Extracted: 03/09/11										
Blank Analyzed: 03/09/2011 (11C1178-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	0.20	mg/kg							
Surrogate: Dibromofluoromethane	*0.0520*		*mg/kg*	*0.0500*		*104*	*80-125*			
Surrogate: Toluene-d8	*0.0549*		*mg/kg*	*0.0500*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0519*		*mg/kg*	*0.0500*		*104*	*80-120*			
LCS Analyzed: 03/09/2011 (11C1178-BS2)										**MCP**
Volatile Fuel Hydrocarbons (C4-C12)	1.15	0.20	mg/kg	1.00		115	60-135			
Surrogate: Dibromofluoromethane	*0.0513*		*mg/kg*	*0.0500*		*103*	*80-125*			
Surrogate: Toluene-d8	*0.0558*		*mg/kg*	*0.0500*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0527*		*mg/kg*	*0.0500*		*105*	*80-120*			
Matrix Spike Analyzed: 03/09/2011 (11C1178-MS1)					**Source: IUC0447-01**					
Volatile Fuel Hydrocarbons (C4-C12)	2.76	0.20	mg/kg	3.42	ND	81	50-140			
Surrogate: Dibromofluoromethane	*0.0601*		*mg/kg*	*0.0495*		*121*	*80-125*			
Surrogate: Toluene-d8	*0.0550*		*mg/kg*	*0.0495*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0545*		*mg/kg*	*0.0495*		*110*	*80-120*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1178 Extracted: 03/09/11										
Blank Analyzed: 03/09/2011 (11C1178-BLK1)										
Benzene	ND	0.0010	mg/kg							
Ethylbenzene	ND	0.0010	mg/kg							
Toluene	ND	0.0010	mg/kg							
m,p-Xylenes	ND	0.0020	mg/kg							
o-Xylene	ND	0.0010	mg/kg							
Xylenes, Total	ND	0.0020	mg/kg							
Surrogate: 4-Bromofluorobenzene	*0.0519*		*mg/kg*	*0.0500*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*0.0520*		*mg/kg*	*0.0500*		*104*	*80-125*			
Surrogate: Toluene-d8	*0.0549*		*mg/kg*	*0.0500*		*110*	*80-120*			
LCS Analyzed: 03/09/2011 (11C1178-BS1)										**MCP**
Benzene	0.0515	0.0010	mg/kg	0.0500		103	65-120			
Ethylbenzene	0.0576	0.0010	mg/kg	0.0500		115	70-125			
Toluene	0.0557	0.0010	mg/kg	0.0500		111	70-125			
m,p-Xylenes	0.119	0.0020	mg/kg	0.100		119	70-125			
o-Xylene	0.0575	0.0010	mg/kg	0.0500		115	70-125			
Xylenes, Total	0.177	0.0020	mg/kg	0.150		118	70-125			
Surrogate: 4-Bromofluorobenzene	*0.0546*		*mg/kg*	*0.0500*		*109*	*80-120*			
Surrogate: Dibromofluoromethane	*0.0524*		*mg/kg*	*0.0500*		*105*	*80-125*			
Surrogate: Toluene-d8	*0.0559*		*mg/kg*	*0.0500*		*112*	*80-120*			
Matrix Spike Analyzed: 03/09/2011 (11C1178-MS1)					**Source: IUC0447-01**					
Benzene	0.0503	0.00099	mg/kg	0.0495	ND	102	65-130			
Ethylbenzene	0.0533	0.00099	mg/kg	0.0495	ND	108	70-135			
Toluene	0.0547	0.00099	mg/kg	0.0495	ND	110	70-130			
m,p-Xylenes	0.112	0.0020	mg/kg	0.0990	ND	113	70-130			
o-Xylene	0.0565	0.00099	mg/kg	0.0495	ND	114	65-130			
Xylenes, Total	0.169	0.0020	mg/kg	0.149	ND	114	70-125			
Surrogate: 4-Bromofluorobenzene	*0.0545*		*mg/kg*	*0.0495*		*110*	*80-120*			
Surrogate: Dibromofluoromethane	*0.0601*		*mg/kg*	*0.0495*		*121*	*80-125*			
Surrogate: Toluene-d8	*0.0550*		*mg/kg*	*0.0495*		*111*	*80-120*			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1278 Extracted: 03/09/11										
Blank Analyzed: 03/11/2011 (11C1278-BLK1)										
Antimony	ND	9.8	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	0.98	mg/kg							
Beryllium	ND	0.49	mg/kg							
Cadmium	ND	0.49	mg/kg							
Chromium	ND	0.98	mg/kg							
Cobalt	ND	0.98	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	0.98	mg/kg							
Thallium	ND	9.8	mg/kg							
Vanadium	ND	0.98	mg/kg							
Zinc	ND	4.9	mg/kg							
LCS Analyzed: 03/11/2011 (11C1278-BS1)										
Antimony	40.5	9.9	mg/kg	49.3		82	80-120			
Arsenic	41.1	2.0	mg/kg	49.3		83	80-120			
Barium	41.1	0.99	mg/kg	49.3		83	80-120			
Beryllium	42.0	0.49	mg/kg	49.3		85	80-120			
Cadmium	40.2	0.49	mg/kg	49.3		82	80-120			
Chromium	39.4	0.99	mg/kg	49.3		80	80-120			
Cobalt	39.4	0.99	mg/kg	49.3		80	80-120			
Copper	49.3	2.0	mg/kg	49.3		100	80-120			
Lead	39.9	2.0	mg/kg	49.3		81	80-120			
Molybdenum	49.5	2.0	mg/kg	49.3		101	80-120			
Nickel	41.8	2.0	mg/kg	49.3		85	80-120			
Selenium	45.2	2.0	mg/kg	49.3		92	80-120			
Silver	20.7	0.99	mg/kg	24.6		84	80-120			
Thallium	40.8	9.9	mg/kg	49.3		83	80-120			
Vanadium	39.8	0.99	mg/kg	49.3		81	80-120			
Zinc	47.9	4.9	mg/kg	49.3		97	80-120			

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Conestoga-Rovers & Associates - Emeryville Shell
5900 Hollis St., Suite A
Emeryville, CA 94608
Attention: Aubrey Cool

Project ID: 2301-2307 Lincoln, Alameda, CA
Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1278 Extracted: 03/09/11										
Matrix Spike Analyzed: 03/11/2011 (11C1278-MS1)					**Source: IUC0993-01**					
Antimony	21.6	9.9	mg/kg	49.5	1.08	41	75-125			*M2*
Arsenic	44.7	2.0	mg/kg	49.5	3.15	84	75-125			
Barium	104	0.99	mg/kg	49.5	66.7	75	75-125			
Beryllium	43.1	0.50	mg/kg	49.5	0.235	87	75-125			
Cadmium	39.8	0.50	mg/kg	49.5	ND	80	75-125			
Chromium	53.8	0.99	mg/kg	49.5	14.5	79	75-125			
Cobalt	44.2	0.99	mg/kg	49.5	6.59	76	75-125			
Copper	63.3	2.0	mg/kg	49.5	30.5	66	75-125			*M2*
Lead	66.4	2.0	mg/kg	49.5	33.0	67	75-125			*M2*
Molybdenum	36.8	2.0	mg/kg	49.5	ND	74	75-125			*M2*
Nickel	52.0	2.0	mg/kg	49.5	12.3	80	75-125			
Selenium	38.9	2.0	mg/kg	49.5	ND	79	75-125			
Silver	20.2	0.99	mg/kg	24.8	ND	82	75-125			
Thallium	40.9	9.9	mg/kg	49.5	ND	83	75-125			
Vanadium	64.5	0.99	mg/kg	49.5	26.1	78	75-125			
Zinc	98.6	5.0	mg/kg	49.5	58.8	80	75-125			
Matrix Spike Dup Analyzed: 03/11/2011 (11C1278-MSD1)					**Source: IUC0993-01**					
Antimony	19.7	10	mg/kg	50.0	1.08	37	75-125	9	20	*M2*
Arsenic	47.4	2.0	mg/kg	50.0	3.15	88	75-125	6	20	
Barium	108	1.0	mg/kg	50.0	66.7	82	75-125	3	20	
Beryllium	45.0	0.50	mg/kg	50.0	0.235	89	75-125	4	20	
Cadmium	41.4	0.50	mg/kg	50.0	ND	83	75-125	4	20	
Chromium	54.0	1.0	mg/kg	50.0	14.5	79	75-125	0.3	20	
Cobalt	46.3	1.0	mg/kg	50.0	6.59	79	75-125	5	20	
Copper	62.1	2.0	mg/kg	50.0	30.5	63	75-125	2	20	*M2*
Lead	61.1	2.0	mg/kg	50.0	33.0	56	75-125	8	20	*M2*
Molybdenum	38.0	2.0	mg/kg	50.0	ND	76	75-125	3	20	
Nickel	53.6	2.0	mg/kg	50.0	12.3	83	75-125	3	20	
Selenium	41.6	2.0	mg/kg	50.0	ND	83	75-125	7	20	
Silver	20.9	1.0	mg/kg	25.0	ND	84	75-125	3	20	
Thallium	42.7	10	mg/kg	50.0	ND	85	75-125	4	20	
Vanadium	65.4	1.0	mg/kg	50.0	26.1	79	75-125	1	20	
Zinc	90.9	5.0	mg/kg	50.0	58.8	64	75-125	8	20	*M2*

TestAmerica Irvine

Philip Sanelle
Project Manager

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Conestoga-Rovers & Associates - Emeryville Shell
5900 Hollis St., Suite A
Emeryville, CA 94608
Attention: Aubrey Cool

Project ID: 2301-2307 Lincoln, Alameda, CA
Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1473 Extracted: 03/10/11										
Blank Analyzed: 03/10/2011 (11C1473-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 03/10/2011 (11C1473-BS1)										
Mercury	0.915	0.020	mg/kg	0.800		114	80-120			
Matrix Spike Analyzed: 03/10/2011 (11C1473-MS1)					**Source: IUC1045-01**					
Mercury	0.865	0.020	mg/kg	0.800	0.0157	106	70-130			
Matrix Spike Dup Analyzed: 03/10/2011 (11C1473-MSD1)					**Source: IUC1045-01**					
Mercury	0.907	0.020	mg/kg	0.800	0.0157	111	70-130	5	20	

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Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

METHOD BLANK/QC DATA

ORGANIC LEAD BY GFAA (HML 939-M)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1954 Extracted: 03/14/11										
Blank Analyzed: 03/15/2011 (11C1954-BLK1)										
Organic Lead	ND	0.025	mg/kg							
LCS Analyzed: 03/15/2011 (11C1954-BS1)										
Organic Lead	0.0862	0.025	mg/kg	0.100		86	80-120			
Matrix Spike Analyzed: 03/15/2011 (11C1954-MS1)					**Source: IUC0924-01**					
Organic Lead	0.155	0.050	mg/kg	0.100	0.0882	66	80-120			*M2*
Matrix Spike Dup Analyzed: 03/15/2011 (11C1954-MSD1)					**Source: IUC0924-01**					
Organic Lead	0.161	0.050	mg/kg	0.100	0.0882	73	80-120	4	20	*M2*

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Attention: Aubrey Cool

Project ID: 2301-2307 Lincoln, Alameda, CA
Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

DATA QUALIFIERS AND DEFINITIONS

M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MCP	No results were reported for the MS and/or MSD due to a clogged autosampler port. Batch was accepted based on Blank Spike (LCS) recoveries.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

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Project ID: 2301-2307 Lincoln, Alameda, CA
Report Number: IUC0924

Sampled: 03/07/11
Received: 03/08/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8015B	Soil	X	X
EPA 8260B	Soil	X	X
HML 939-M	Soil	N/A	X
TPH by GC/MS	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Philip Sanelle
Project Manager

~~EDA~~ IVC0924

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (Irvine)
- ☐ 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 060204
INCIDENT # (ENV SERVICES): 97706044
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 3/7/11
PO #:
SAP #: 165255
PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates
LOG CODE: CRAW
SITE ADDRESS: Street and City: 2301-2307 Lincoln, Alameda
State: CA
GLOBAL ID NO.: T0619714590
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.: 060204-2011-11.03
PROJECT CONTACT (Hardcopy or PDF Report to): Aubrey Cool
TELEPHONE: 510-420-3336
FAX: 510-420-9170
E-MAIL: acool@craworld.com
SAMPLER NAME(S) (Print): Oliver Yan
LAB USE ONLY

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:
cc: kdupler@craworld.com, pschaefer@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 IDs and field point names:Comp-1 and Comp-2

☑ 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	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)			Container PID Readings or Laboratory Notes
	Comp-1A	3/7/11	1256	SO						1	X	X	X											X	x						Please call
	Comp-1B		1304	SO						1	X	X	X											X	x						composite
	Comp-1C		1355	SO						1	X	X	X											X	x						sample
	Comp-1D	↓	1407	SO						1	X	X	X											X	x						Comp-1
																												SAT 3/8/11		
	Comp-2A	3/7/11	9:08	SO						1	X	X	X											X	x						Please call
	Comp-2B			SO						1	X	X	X											X	x			15:25			composite
	Comp-2C			SO						1	X	X	X											X	x						sample
	Comp-2D	↓	↓	SO						1	X	X	X											X	x						Comp-2

TEMPERATURE ON RECEIPT C°: (CS) 9.5

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
3/7/11		3/7/11	RELINQUISHED: 1523
3-7-11 18:20			RECEIVED: 16:27
	(CS) 9.5°	3/8/11	10:20

05/2/06 Revision

08/04

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

June 03, 2011

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

Subject: **Calscience Work Order No.: 11-03-2119**
Client Reference: 2301-2307 Lincoln Ave., Alameda, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/31/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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.
Xuan Dang
Project Manager

Case Narrative

Work Order # 11-03-2119

Modified EPA 8260 in Air

This method is used to determine the concentration of BTEX/Oxygenates/Naphthalene having a vapor pressure greater than 10^{-1} torr at 25°C at standard pressure in an air matrix. The method is similar to EPA TO-15 and uses air standards for calibration. Method specifics are listed in the table below. A known volume of sample is directed from the container (Summa® canister or Tedlar™ bag) through a solid multi-module (glass beads, tenex, cryofocuser) concentrator. Following concentration, the VOCs are thermally desorbed onto a gas chromatographic column for separation and then detected on a mass selective detector.

Comparison of CalscienceTO-15(Modified) versus EPA 8260 (Modified) in Air

Requirement	Calscience TO-15(M)	Calscience EPA 8260(M) in Air
BFB Acceptance Criteria	SW846 Protocol	SW846 Protocol
Initial Calibration	Allowable % RSD for each Target Analyte <= 30%, 10% of analytes allowed <=40%	Allowable % RSD for each Target Analyte <= 30%, 10% of analytes allowed <= 40%
Initial Calibration Verification (ICV) - Second Source Standard (LCS)	Analytes contained in the LCS standard evaluated against historical control limits for the LCS	BTEX and MTBE only - <= 30%D
Daily Calibration Verification (CCV)	**Full List Analysis:** Allowable % Difference for each CCC analyte is <= 30%	BTEX and MTBE only - <= 30%D
	Target List Analysis: Allowable % Difference for each target analytes is <= 30%	
Daily Calibration Verification (CCV) - Internal Standard Area Response	Allowable +/- 50% (Range: 50% to 150%)	Allowable +/- 50% (Range: 50% to 150%)
Method Blank, Laboratory Control Sample and Sample - Internal Standard Area Response	Allowable +/- 50% of the mean area response of most recent Calibration Verification (Range: 50% to 150%)	Allowable +/- 50% of the mean area response of the most recent Calibration Verification (Range: 50% to 150%)
Surrogates	1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S	1,4-Bromoflurobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	03/31/11
5900 Hollis Street, Suite A	Work Order No:	11-03-2119
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	ASTM D-1946
	Units:	%v

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-2'	11-03-2119-1-A	03/30/11 14:50	Air	GC 36	N/A	03/31/11 11:34	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	8.83	0.500	1	
Carbon Dioxide	5.90	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-4.5'	11-03-2119-2-A	03/30/11 14:30	Air	GC 36	N/A	03/31/11 11:53	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	8.68	0.500	1	
Carbon Dioxide	8.34	0.500	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-03-002-1,269	N/A	Air	GC 36	N/A	03/31/11 08:45	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1		Oxygen + Argon	ND	0.500	1	
Carbon Dioxide	ND	0.500	1						

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	03/31/11
5900 Hollis Street, Suite A		Work Order No:	11-03-2119
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-2'	11-03-2119-1-A	03/30/11 14:50	Air	GC 13	N/A	03/31/11 11:32	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-4.5'	11-03-2119-2-A	03/30/11 14:30	Air	GC 13	N/A	03/31/11 11:42	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	18000	7000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-3,030	N/A	Air	GC 13	N/A	03/31/11 08:43	110331L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1		ug/m3

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	03/31/11
5900 Hollis Street, Suite A		Work Order No:	11-03-2119
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-2'	11-03-2119-1-A	03/30/11 14:50	Air	GC 55	N/A	03/31/11 12:51	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-4.5'	11-03-2119-2-A	03/30/11 14:30	Air	GC 55	N/A	03/31/11 13:13	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-872-87	N/A	Air	GC 55	N/A	03/31/11 12:28	110331L01

Parameter	Result	RL	DF	Qual	Units
Helium	ND	0.0100	1		%v

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	03/31/11
5900 Hollis Street, Suite A	Work Order No:	11-03-2119
Emeryville, CA 94608-2008	Preparation:	N/A
	Method:	EPA 8260B (M)
	Units:	ug/m3

Project: 2301-2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-2'	11-03-2119-1-A	03/30/11 14:50	Air	GC/MS ZZ	N/A	03/31/11 14:47	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	47-156			1,2-Dichloroethane-d4	101	47-156		
Toluene-d8	102	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVP-9-4.5'	11-03-2119-2-A	03/30/11 14:30	Air	GC/MS ZZ	N/A	03/31/11 15:34	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	52	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	47-156			1,2-Dichloroethane-d4	99	47-156		
Toluene-d8	92	47-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-13-041-429	N/A	Air	GC/MS ZZ	N/A	03/31/11 13:35	110331L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	1		Xylenes (total)	ND	43	1	
Toluene	ND	19	1		Naphthalene	ND	52	1	
Ethylbenzene	ND	22	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	100	47-156			1,2-Dichloroethane-d4	99	47-156		
Toluene-d8	98	47-156							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received:	03/31/11
Work Order No:	11-03-2119
Preparation:	N/A
Method:	EPA TO-3M

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
11-03-2120-1	Air	GC 13	N/A	03/31/11	110331D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	25660000	24980000	3	0-20	

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: 11-03-2119
Emeryville, CA 94608-2008	Preparation: N/A
	Method: ASTM D-1946

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,269	Air	GC 36	N/A	03/31/11	110331L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	95	96	80-120	0	0-30	
Carbon Dioxide	106	106	80-120	0	0-30	
Carbon Monoxide	103	103	80-120	0	0-30	
Oxygen + Argon	92	93	80-120	0	0-30	
Nitrogen	98	99	80-120	1	0-30	

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:	11-03-2119
Emeryville, CA 94608-2008		Preparation:	N/A
		Method:	ASTM D-1946 (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-87	Air	GC 55	N/A	03/31/11	110331L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Helium	102	103	80-120	0	0-30	
Hydrogen	111	112	80-120	0	0-30	

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: 11-03-2119
Emeryville, CA 94608-2008	Preparation: N/A
	Method: EPA 8260B (M)

Project: 2301-2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-041-429	Air	GC/MS ZZ	N/A	03/31/11	110331L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	105	60-156	0	0-40	
Toluene	107	106	56-146	1	0-43	
Ethylbenzene	106	107	52-154	1	0-38	
Xylenes (total)	106	107	42-156	1	0-41	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 11-03-2119

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. 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.
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.
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. All QC results are reported on a wet weight basis.

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 060204

INCIDENT # (ENV SERVICES): 97706744 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 165255

DATE: 3/30/2011

PAGE: 1 of 1

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	CRAW
SITE ADDRESS: Street and City	2301-2307 Lincoln, Alameda
State	CA
GLOBAL ID NO	T0619714590
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.	060204-95
PROJECT CONTACT (Hardcopy or PDF Report to)	Aubrey Cool
TELEPHONE	510-420-3336
FAX	510-420-9170
E-MAIL	acool@craworld.com
SAMPLER NAME(S) (Print)	Erin Swan
LAB USE ONLY	03 – 2119

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 :

Must be analysis within 72 hours.

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

Please report results in µg/m3 for 8260, and report results in % by volume for ASTM D 1946(M).

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPHg, BTEX, & Naphthalene (8260B)	Oxygen plus argon, Carbon Dioxide, Methane, & Helium (ASTM D 1946 M)	Container PID Readings or Laboratory Notes
1	SVP-9-2'	3/30/2011	2:50	Vapor				X		1	X	X	
2	SVP-9-5'	3/30/2011	2:30	Vapor				X		1	X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) Erin Swan	Received by: (Signature) CEL	Date: 3/30/11	Time: 4:20
Relinquished by: (Signature) TO GSO 3/30/11 1730	Received by: (Signature) CEL	Date: 03/31/11	Time: 0800
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/31/11	Time:

05/2/06 Revision

(2119)

GSO

WebShip >>>>>

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
CRA

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 516261911

NPS

ORC

D

GARDEN GROVE

D92843A

89888912

Print Date : 03/30/11 16:26 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 11-03-2111 9

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: CRA

DATE: 03/31/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature ____.____ °C + 0.5 °C (CF) = ____.____ °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 Initial: WB

CUSTODY SEALS INTACT:

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

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

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.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours	☐	☐	☑
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:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** RS

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

Preservative: h: HCL n: HNO_3 **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:** RS

Xuan Dang

From: Schaefer, Peter [pschaefer@craworld.com]
Sent: Thursday, June 02, 2011 3:30 PM
To: Xuan Dang
Subject: RE: 2301-2307 Lincoln Ave., Alameda, CA / CEL 11-03-2119
Attachments: 11-03-2119 Revised COC.pdf

Xuan,

Please issue a revised lab report per the attached revised COC. SVP-9-5' should have been labeled SVP-9-4.5'. Thank you for your help.

Regards,

Peter Schaefer
Telephone: (510) 420-3319

From: Xuan Dang [mailto:xdang@calscience.com]
Sent: Wednesday, April 13, 2011 10:02 AM
To: Schaefer, Peter
Subject: FW: 2301-2307 Lincoln Ave., Alameda, CA / CEL 11-03-2119

Good morning Peter,
Please see attached the report you requested.
Let me know if there's anything else I can help with.

Have a nice day.

Best Regards,

Xuan Dang
Project Manager
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x229
Fax: 714-894-7501
xdang@calscience.com

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 060204

PO #:

INCIDENT # (ENV. SERVICES): 97767404 ☐ CHECK IF NO INCIDENT # APPLIES

SAP #: 165255

DATE: 3/30/2011

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates	LOG CODE: CRAW	SITE ADDRESS: Street and City: 2301-2307 Lincoln, Alameda	State: CA / GLOBAL ID NO.: T0619714590
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.: 060204-95
PROJECT CONTACT (Hardcopy or PDF Report to): Aubrey Cool		SAMPLER NAME(S) (Print): Erin Swan	LAB USE ONLY: 03-2119
TELEPHONE: 510-420-3336 / FAX: 510-420-9170 / E-MAIL: acool@craworld.com			

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:

Must be analysis within 72 hours.

Please report results in µg/m3 for 8260, and report results in % by volume for ASTM D 1946(M).

- ☑ 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	OTHER	NO. OF CONT.	TPHg, BTEX, & Naphthalene (8260B)	Oxygen plus argon, Carbon Dioxide, Methane, & Helium (ASTM D 1946 M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	SVP-9-2'	3/30/2011	2:50	Vapor				X		1	X	X	
2	SVP-9-4.5'	3/30/2011	2:30	Vapor				X		1	X	X	

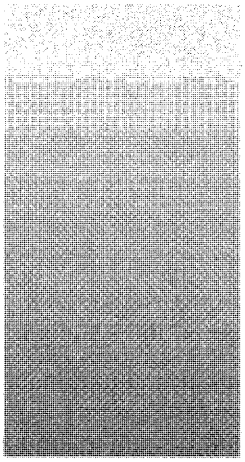
Relinquished by: (Signature) Erin Swan	Received by: (Signature) CEL	Date: 3/30/11	Time: 4:20
Relinquished by: (Signature) TO 3/30/11 1730	Received by: (Signature) CEL	Date: 03/31/11	Time: 0800
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/31/11	Time:

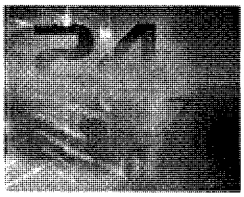
05/2/06 Revision

Page 1 of 16

Northern California
ACCUTEST
LABORATORIES

04/12/11





Technical Report for

Shell Oil Products

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA 60204

Accutest Job Number: C15499

Sampling Date: 04/11/11

Report to:

Conestoga-Rovers & Associates
5900 Hollis Street Suite A
Emeryville, CA 94608
pschaefer@craworld.com

ATTN: Peter Schaefer

Total number of pages in report: **29**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Sample Summary

Shell Oil Products

Job No: C15499

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA
Project No: 60204

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
C15499-1	04/11/11	15:01 MWSP	04/11/11	SO	Soil	PB-E-2
C15499-2	04/11/11	15:00 MWSP	04/11/11	SO	Soil	PB-W-2
C15499-3	04/11/11	15:00 MWSP	04/11/11	SO	Soil	PB-S-2
C15499-4	04/11/11	15:01 MWSP	04/11/11	SO	Soil	PB-N-2
C15499-5	04/11/11	15:02 MWSP	04/11/11	SO	Soil	PB-C-3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-E-2		
Lab Sample ID:	C15499-1	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22913.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight
Run #1	5.14 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
108-88-3	Toluene	ND	4.9	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	3.9	ug/kg	
	TPH-GRO (C6-C10)	ND	97	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	98%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-E-2		
Lab Sample ID:	C15499-1	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
		Percent Solids:	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	35.6	1.9	mg/kg	1	04/11/11	04/12/11	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA1821
(2) Prep QC Batch: MP3399

(a) All results reported on wet weight basis.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-W-2		
Lab Sample ID:	C15499-2	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22914.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight
Run #1	5.10 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
108-88-3	Toluene	ND	4.9	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	3.9	ug/kg	
	TPH-GRO (C6-C10)	ND	98	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		60-130%
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-W-2		
Lab Sample ID:	C15499-2	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
		Percent Solids:	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	19.2	1.8	mg/kg	1	04/11/11	04/12/11	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA1821
(2) Prep QC Batch: MP3399

(a) All results reported on wet weight basis.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-S-2		
Lab Sample ID:	C15499-3	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22915.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight
Run #1	5.04 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	99	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	100%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-S-2		
Lab Sample ID:	C15499-3	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
		Percent Solids:	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	15.0	1.8	mg/kg	1	04/11/11	04/12/11	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA1821
(2) Prep QC Batch: MP3399

(a) All results reported on wet weight basis.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-N-2		
Lab Sample ID:	C15499-4	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22916.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight
Run #1	5.03 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	99	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		60-130%
2037-26-5	Toluene-D8	101%		60-130%
460-00-4	4-Bromofluorobenzene	101%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-N-2		
Lab Sample ID:	C15499-4	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
		Percent Solids:	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	17.9	1.9	mg/kg	1	04/11/11	04/12/11	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA1821
(2) Prep QC Batch: MP3399

(a) All results reported on wet weight basis.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-C-3		
Lab Sample ID:	C15499-5	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22917.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight
Run #1	5.07 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
108-88-3	Toluene	ND	4.9	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	3.9	ug/kg	
	TPH-GRO (C6-C10)	ND	99	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		60-130%
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	100%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PB-C-3		
Lab Sample ID:	C15499-5	**Date Sampled:**	04/11/11
Matrix:	SO - Soil	**Date Received:**	04/11/11
		Percent Solids:	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	150	1.9	mg/kg	1	04/11/11	04/12/11	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA1821
(2) Prep QC Batch: MP3399

(a) All results reported on wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☑ OTHER (ACCUTEST Inc. 2105 Lundy ave, San Jose CA)

Shell Oil Products Chain Of Custody Record

SHELL-WIC3538

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

Print Bill To Contact Name:

INCIDENT # (ENV. SERVICES): 9 7 7 6 7 0 4 4 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 4/11/11

PAGE: 1 of 1

PO #:

SAP #: 1 6 5 2 5 5

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

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

SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave, Alameda

State: CA

GLOBAL ID NO: T0619714590

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

PHONE NO: 510-420-3343

E-MAIL: shell.gm.edf@craworld.com

CONSULTANT PROJECT NO.: 60204

SAMPLER NAME(S) (Print): Margarete Wolf, Sequoia Patterson

LAB USE ONLY: C15499

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:

Copy of final report to Shell Lab.Billing@craworld.com

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

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: 9.1+0.5=9.6°C (ON ICE)

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (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)	Lead (6010B)	Container PID Readings or Laboratory Notes
-1	PB-E-2	4/11/11	1501	Soil							X			X										X	2"x6" (SST)
-2	PB-W-2	4/11/11	1500	Soil							X			X										X	
-3	PB-S-2	4/11/11	1500	Soil							X			X										X	
-4	PB-N-2	4/11/11	1501	Soil							X			X										X	
-5	PB-C-3	4/11/11	1502	Soil							X			X										X	

1 DAY

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		4/11/11	15:10
		04/11/11	15:57

05/2/06 Revision

C15499: Chain of Custody
Page 1 of 2

Accutest Laboratories Northern California Sample Receiving Check List Job# : C15499 Initial: EK

Review Chain of Custody — Chain of Custody is to be complete and legible.

- Are these regulatory ~~(NPDES)~~ samples? ~~GWA~~ — (Yes) / No
- Is pH requested? — Yes / (No)
  - Was Client informed that hold time is 15 min? Yes / No — Continue Yes / No
  - Was ortho-Phosphate filtered with in 15 min? Yes / No — Continue Yes / No
- Are sample within hold time? — (Yes) / No
  - Are sample in danger of exceeding hold-time — Yes / (No)
- Existing Client? (Yes) / No — Existing Project? Yes / (No)
  - If No: Is Report to info complete and legible, including;
    - deliverable, Name, Address, phone, e-mail
    - Is Bill to info complete and legible, including;
    - PO#, Credit card, Contact address, phone, e-mail
    - Is Contact and/or Project Manager identified, including;
    - phone, e-mail
    - Project name / number
- Special requirements? — Yes / (No)
- Sample IDs / date & time of collection provided? — (Yes) / No
- Is Matrix listed and correct? — (Yes) / No
- Analyses listed, we do, or client has authorized a subcontract? — (Yes) / No
- Chain is signed and dated by both client and sample custodian? — (Yes) / No
- TAT requested available? (Yes) / No — Approved by PM

Review Coolers:

- Were all Coolers temperatures measured at ≤6°C? 9.6°C (ON ICE) — Yes / (No)
  - If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left
- Are samples on Ice? — (Yes) / No

Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

- Shipment Received Method AC
- Custody Seals: Present: Yes / (No) — If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- Chain matches bottle labels? (Yes) / No — Sample bottle intact? (Yes) / No
- Is there enough sample volume in proper bottle for requested analyses? — (Yes) / No
- Proper Preservatives? Yes / No
  - Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.
- Headspace-VOAs? Greater than 6mm in diameter — Yes / No
  - List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

\\Accunca.accutest.com\depts\qa\sops\sop_completelist_2010\current_active_sop_oct_2010\sc001f1_0_form1_samplecontrol_samplereceivingchecklist_2009-01-01.doc

3.1

3

C15499: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C15499
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM733-MB2	M22912.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	60-130%
2037-26-5	Toluene-D8	102%	60-130%
460-00-4	4-Bromofluorobenzene	99%	60-130%

Method Blank Summary

Job Number: C15499
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM733-MB	M22895.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples: **Method:** SW846 8260B

VM733-BSD, VM733-BS1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%

Blank Spike Summary

Job Number: C15499
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM733-BS1	M22898.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	243	97	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15499
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM733-BS	M22896.D	1	04/11/11	XB	n/a	n/a	VM733
VM733-BSD	M22897.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	43.4	109	42.6	107	2	60-130/30
100-41-4	Ethylbenzene	40	41.0	103	40.5	101	1	60-130/30
108-88-3	Toluene	40	40.7	102	40.3	101	1	60-130/30
1330-20-7	Xylene (total)	120	121	101	119	99	2	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	106%	60-130%
2037-26-5	Toluene-D8	95%	95%	60-130%
460-00-4	4-Bromofluorobenzene	97%	99%	60-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15499
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15499-5MS	M22918.D	1	04/11/11	XB	n/a	n/a	VM733
C15499-5MSD	M22919.D	1	04/11/11	XB	n/a	n/a	VM733
C15499-5	M22917.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

CAS No.	Compound	C15499-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		39.7	43.2	109	42.0	106	3	60-130/30
100-41-4	Ethylbenzene	ND		39.7	39.7	100	40.3	101	1	60-130/30
108-88-3	Toluene	ND		39.7	39.5	100	40.4	102	2	60-130/30
1330-20-7	Xylene (total)	ND		119	118	99	120	101	2	60-130/30

CAS No.	Surrogate Recoveries	MS	MSD	C15499-5	Limits
1868-53-7	Dibromofluoromethane	111%	110%	110%	60-130%
2037-26-5	Toluene-D8	96%	98%	102%	60-130%
460-00-4	4-Bromofluorobenzene	100%	104%	100%	60-130%

Northern California ACCUTEST LABORATORIES

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C15499
Account: SHELLWIC - Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

QC Batch ID: MP3399
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/11/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.3	2		
Antimony	2.0	.07	.087		
Arsenic	2.0	.07	.07		
Barium	1.0	.04	.035		
Beryllium	1.0	.02	.012		
Boron	10	.09	.2		
Cadmium	1.0	.02	.015		
Calcium	300	.71	7.6		
Chromium	1.0	.03	.054		
Cobalt	1.0	.02	.022		
Copper	1.0	.12	.19		
Iron	10	.64	1.6		
Lead	2.0	.07	.054	-0.020	<2.0
Magnesium	200	2.7	1.5		
Manganese	1.0	.01	.054		
Molybdenum	1.0	.02	.024		
Nickel	1.0	.02	.024		
Potassium	200	1.8	1.3		
Selenium	2.0	.18	.23		
Silicon	20	.12	.77		
Silver	1.0	.03	.044		
Sodium	300	1.5	4.8		
Strontium	1.0	.02	.017		
Thallium	2.0	.05	.073		
Tin	50	.02	.41		
Titanium	1.0	.04	.079		
Vanadium	1.0	.03	.025		
Zinc	2.0	.03	.098		

Associated samples MP3399: C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15499
Account: SHELLWIC - Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

QC Batch ID: MP3399
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/11/11

Metal	C15471-1 Original	MS	Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron					
Lead	5.5	46.9	46.7	88.6	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP3399: C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15499
Account: SHELLWIC - Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

QC Batch ID: MP3399
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/11/11

Metal	C15471-1 Original	MSD	Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	5.5	47.7	46.7	90.3	1.7	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP3399: C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15499
Account: SHELLWIC - Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

QC Batch ID: MP3399
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/11/11

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	44.6	50	89.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP3399: C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C15499
Account: SHELLWIC - Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

QC Batch ID: MP3399
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/11/11

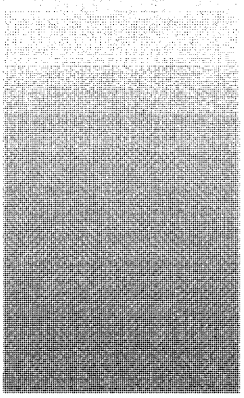
Metal	C15471-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	58.1	57.0	1.9	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

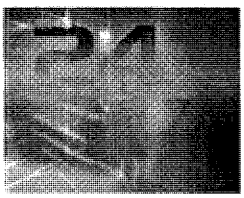
Associated samples MP3399: C15499-1, C15499-2, C15499-3, C15499-4, C15499-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Northern California
ACCUTEST
LABORATORIES

04/13/11





Technical Report for

Shell Oil Products

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA 60204

Accutest Job Number: C15515

Sampling Date: 04/12/11

Report to:

Conestoga-Rovers & Associates
5900 Hollis Street Suite A
Emeryville, CA 94608
pschaefer@craworld.com; shell.lab.billing@craworld.com

ATTN: Peter Schaefer

Total number of pages in report: **22**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

Test results relate only to samples analyzed.

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Sample Summary

Shell Oil Products

Job No: C15515

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA
Project No: 60204

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C15515-1	04/12/11	12:38	MWSP	04/12/11	SO	Soil	HC-CN-13.5
C15515-2	04/12/11	12:45	MWSP	04/12/11	SO	Soil	HC-CS-13
C15515-3	04/12/11	13:05	MWSP	04/12/11	SO	Soil	HC-E-6
C15515-4	04/12/11	13:07	MWSP	04/12/11	SO	Soil	HC-E-12
C15515-5	04/12/11	13:37	MWSP	04/12/11	SO	Soil	HC-W-6
C15515-7	04/12/11	13:47	MWSP	04/12/11	SO	Soil	HC-W-8
C15515-8	04/12/11	13:50	MWSP	04/12/11	SO	Soil	HC-N-6
C15515-9	04/12/11	13:55	MWSP	04/12/11	SO	Soil	HC-N-8
C15515-10	04/12/11	14:10	MWSP	04/12/11	SO	Soil	HC-S-3
C15515-11	04/12/11	14:13	MWSP	04/12/11	SO	Soil	HC-S-7.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-CN-13.5		
Lab Sample ID:	C15515-1	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22995.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight
Run #1	0.950 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	23.0	26	7.9	ug/kg	J
108-88-3	Toluene	ND	26	7.9	ug/kg	
100-41-4	Ethylbenzene	21.5	26	7.9	ug/kg	J
1330-20-7	Xylene (total)	ND	53	21	ug/kg	
	TPH-GRO (C6-C10)	2270	530	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		60-130%
2037-26-5	Toluene-D8	98%		60-130%
460-00-4	4-Bromofluorobenzene	101%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-CS-13		
Lab Sample ID:	C15515-2	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22996.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2	M23000.D	1	04/13/11	XB	n/a	n/a	VM735

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	1.08 g		
Run #2	5.03 g	5.0 ml	50.0 ul

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	53.5	23	6.9	ug/kg	
108-88-3	Toluene	ND	23	6.9	ug/kg	
100-41-4	Ethylbenzene	141	23	6.9	ug/kg	
1330-20-7	Xylene (total)	ND	46	19	ug/kg	
	TPH-GRO (C6-C10)	27100 [b]	9900	5000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	99%	60-130%
2037-26-5	Toluene-D8	97%	99%	60-130%
460-00-4	4-Bromofluorobenzene	106%	101%	60-130%

(a) All results reported on wet weight basis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-E-6		
Lab Sample ID:	C15515-3	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22990.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	75	ug/kg	
108-88-3	Toluene	ND	250	75	ug/kg	
100-41-4	Ethylbenzene	182	250	75	ug/kg	J
1330-20-7	Xylene (total)	ND	500	200	ug/kg	
	TPH-GRO (C6-C10)	20400	5000	2500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		60-130%
2037-26-5	Toluene-D8	100%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-E-12		
Lab Sample ID:	C15515-4	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22997.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight
Run #1	1.07 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	23	7.0	ug/kg	
108-88-3	Toluene	ND	23	7.0	ug/kg	
100-41-4	Ethylbenzene	ND	23	7.0	ug/kg	
1330-20-7	Xylene (total)	ND	47	19	ug/kg	
	TPH-GRO (C6-C10)	1310	470	230	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		60-130%
2037-26-5	Toluene-D8	98%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-W-6		
Lab Sample ID:	C15515-5	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22991.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	74	ug/kg	
108-88-3	Toluene	ND	250	74	ug/kg	
100-41-4	Ethylbenzene	966	250	74	ug/kg	
1330-20-7	Xylene (total)	ND	490	200	ug/kg	
	TPH-GRO (C6-C10)	25200	4900	2500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		60-130%
2037-26-5	Toluene-D8	99%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-W-8		
Lab Sample ID:	C15515-7	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22992.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	75	ug/kg	
108-88-3	Toluene	ND	250	75	ug/kg	
100-41-4	Ethylbenzene	173	250	75	ug/kg	J
1330-20-7	Xylene (total)	ND	500	200	ug/kg	
	TPH-GRO (C6-C10)	17000	5000	2500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		60-130%
2037-26-5	Toluene-D8	99%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-N-6		
Lab Sample ID:	C15515-8	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22998.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	30.2	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg	
	TPH-GRO (C6-C10)	951	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		60-130%
2037-26-5	Toluene-D8	98%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-N-8		
Lab Sample ID:	C15515-9	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22994.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.08 g	5.0 ml	20.0 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1200	370	ug/kg	
108-88-3	Toluene	ND	1200	370	ug/kg	
100-41-4	Ethylbenzene	2240	1200	370	ug/kg	
1330-20-7	Xylene (total)	ND	2500	980	ug/kg	
	TPH-GRO (C6-C10)	127000	25000	12000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		60-130%
2037-26-5	Toluene-D8	100%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-S-3		
Lab Sample ID:	C15515-10	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22993.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	75	ug/kg	
108-88-3	Toluene	ND	250	75	ug/kg	
100-41-4	Ethylbenzene	ND	250	75	ug/kg	
1330-20-7	Xylene (total)	ND	500	200	ug/kg	
	TPH-GRO (C6-C10)	15100	5000	2500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		60-130%
2037-26-5	Toluene-D8	98%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-S-7.5		
Lab Sample ID:	C15515-11	**Date Sampled:**	04/12/11
Matrix:	SO - Soil	**Date Received:**	04/12/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22999.D	1	04/13/11	XB	n/a	n/a	VM735
Run #2							

	Initial Weight
Run #1	2.35 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	15.0	11	3.2	ug/kg	
108-88-3	Toluene	ND	11	3.2	ug/kg	
100-41-4	Ethylbenzene	4.4	11	3.2	ug/kg	J
1330-20-7	Xylene (total)	ND	21	8.5	ug/kg	
	TPH-GRO (C6-C10)	1080	210	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		60-130%
2037-26-5	Toluene-D8	97%		60-130%
460-00-4	4-Bromofluorobenzene	101%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Shell Oil Products Chain Of Custody Record

SHELLW1C3538

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☑ OTHER (ACCUTEST Inc. 2105 Dundy ave, San Jose CA)

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

Print Bill To Contact Name:

INCIDENT # (ENV. SERVICES): 9 7 7 6 7 0 4 4

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 04/12/11

PAGE: 1 of 2

PO #:

SAP #: 1 6 5 2 5 5

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

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

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:

Copy of final report to Shell.Lab.Billing@craworld.com

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

SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave, Alameda | State: CA | GLOBAL ID NO.: T0819714590

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville | PHONE NO.: 510-420-3343 | EMAIL: shell.em.edf@craworld.com | CONSULTANT PROJECT NO.: 60204

SAMPLER NAME(S) (Print): Margareta Wolf, Sequoia Patterson | LAB USE ONLY: C15515

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: 5.2 to 5.7°C

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgable (8260B)	TPH -DRO, Extractable (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 Compounds: _____ (8260B)	1,2-DCA (8260B)	EDB (8260B)	Total (8260B)	Total (8015M)	Dissolved (8260B)	Dissolved (8015M)	Container PID Readings or Laboratory Notes
1	HC-CN-13.5	4/12/11	1238	S				ICE		1	X			X												1-2 65 Liner
2	HC-CS-13	4/12/11	1245	S						1	X			X												
3	HC-E-6	4/12/11	1305	S						1	X			X												
4	HC-E-12	4/12/11	1307	S						1	X			X												
5	HC-W-6	4/12/11	1337	S						1	X			X												
6	HC-W-9	4/12/11	1340	S						1																HOLD
7	HC-W-8	4/12/11	1347	S						1	X			X												
8	HC-N-6	4/12/11	1350	S						1	X			X												
9	HC-N-8	4/12/11	1355	S						1	X			X												
10	HC-S-3	4/12/11	1410	S						1	X			X												

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
1			04/12/11	14:30
2			4/12/11	15:25
3				

06/2006 Revision

C15515: Chain of Custody
Page 1 of 3

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☑ OTHER (ACCUTEST Inc. 2105 Lundy ave, San Jose CA)

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

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 04/12/11

PAGE: 2 of 2

PO #:

SAP #: 1 6 5 2 5 5

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

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

SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave, Alameda

State: CA

GLOBAL ID NO.: T0619714590

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.: 60204

SAMPLER NAME(S) (Print): Margareta Wolf, Sequoia Patterson

LAB USE ONLY: 615515

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 :

Copy of final report to Shell.Lab.Billing@craworld.com

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

REQUESTED ANALYSIS

LAB SAMPLE ID (LAB USE ONLY)	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (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)	Ethanol (8260B)	Methanol (8260B)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
01	HC-3-7.5	4/12/11	1413	S					ICE	1	X			X									5.2+0.5=5.7°C	1-2x6ss liner

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Mike Moorfield	04/12/11	14:30
Mike Moorfield		4/12/11	15:25

04/2/06 Revision

C15515: Chain of Custody
Page 2 of 3

Accutest Laboratories Northern California Sample Receiving Check List Job#: C15515 Initial: JM | EK

Review Chain of Custody — Chain of Custody is to be complete and legible.

- ☑ Are these regulatory ~~(NPDES)~~ samples? ~~CWA~~ — (Yes) No
- ☑ Is pH requested? — Yes / (No)
  - ☐ Was Client informed that hold time is 15 min? Yes / No — Continue Yes / No
  - ☐ Was ortho-Phosphate filtered with in 15 min? Yes / No — Continue Yes / No
- ☑ Are sample within hold time? — (Yes) / No
  - Are sample in danger of exceeding hold-time — Yes / (No)
- ☑ Existing Client? (Yes) / No — Existing Project? (Yes) / No
  - If No: Is Report to info complete and legible, including;
    - ☐ deliverable ☐ Name ☐ Address ☐ phone ☐ e-mail
  - Is Bill to info complete and legible, including;
    - ☐ PO# ☐ Credit card ☐ Contact ☐ address ☐ phone ☐ e-mail
  - Is Contact and/or Project Manager identified, including;
    - ☐ phone ☐ e-mail
    - ☐ Project name / number
- ☑ Special requirements? — Yes / (No)
- ☑ Sample IDs / date & time of collection provided? — (Yes) / No
- ☑ Is Matrix listed and correct? — (Yes) / No
- ☑ Analyses listed, we do, or client has authorized a subcontract? — (Yes) / No
- ☑ Chain is signed and dated by both client and sample custodian? — (Yes) / No
- ☑ TAT requested available? (Yes) / No — Approved by PM

Review Coolers:

- ☑ Were all Coolers temperatures measured at ≤6°C? 5.7°C — (Yes) / No
  - If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left
- ☑ Are samples on Ice? — (Yes) / No
- Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

- ☑ Shipment Received Method AC
- ☑ Custody Seals: Present: Yes / (No) — If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- ☑ Chain matches bottle labels? (Yes) / No — ☑ Sample bottle intact? (Yes) / No
- ☑ Is there enough sample volume in proper bottle for requested analyses? — (Yes) / No
- ☐ Proper Preservatives? Yes / No
  - Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.
- ☐ Headspace-VOAs? Greater than 6mm in diameter — Yes / No
  - List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

\\Accunca.accutest.com\depts\qa\sops\sop_completelist_2010\current_active_sop_oct_2010\sc001f1_0_form1_samplecontrol_samplereceivingchecklist_2009-01-01.doc

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C15515
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM735-MB	M22986.D	1	04/13/11	XB	n/a	n/a	VM735

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15515-1, C15515-2, C15515-3, C15515-4, C15515-5, C15515-7, C15515-8, C15515-9, C15515-10, C15515-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	60-130%
2037-26-5	Toluene-D8	100%	60-130%
460-00-4	4-Bromofluorobenzene	99%	60-130%

Blank Spike Summary

Job Number: C15515
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM735-BS1	M22989.D	1	04/13/11	XB	n/a	n/a	VM735

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15515-1, C15515-2, C15515-3, C15515-4, C15515-5, C15515-7, C15515-8, C15515-9, C15515-10, C15515-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	259	104	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	60-130%
2037-26-5	Toluene-D8	101%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15515
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM735-BS	M22987.D	1	04/13/11	XB	n/a	n/a	VM735
VM735-BSD	M22988.D	1	04/13/11	XB	n/a	n/a	VM735

The QC reported here applies to the following samples: **Method:** SW846 8260B

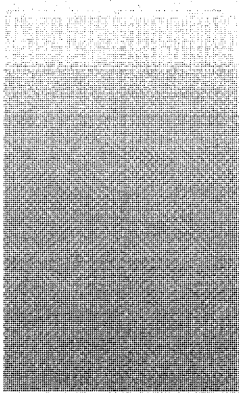
C15515-1, C15515-2, C15515-3, C15515-4, C15515-5, C15515-7, C15515-8, C15515-9, C15515-10, C15515-11

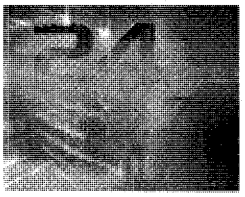
CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	44.1	110	43.1	108	2	60-130/30
100-41-4	Ethylbenzene	40	42.3	106	41.4	104	2	60-130/30
108-88-3	Toluene	40	41.5	104	40.7	102	2	60-130/30
1330-20-7	Xylene (total)	120	125	104	120	100	4	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	104%	60-130%
2037-26-5	Toluene-D8	95%	95%	60-130%
460-00-4	4-Bromofluorobenzene	100%	100%	60-130%

Northern California
ACCUTEST
LABORATORIES

04/27/11





Technical Report for

Shell Oil Products

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA 60204

Accutest Job Number: C15582

Sampling Date: 04/14/11

Report to:

Conestoga-Rovers & Associates
5900 Hollis Street Suite A
Emeryville, CA 94608
pschaefer@craworld.com; shell.lab.billing@craworld.com

ATTN: Peter Schaefer

Total number of pages in report: **15**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

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Sample Summary

Shell Oil Products

Job No: C15582

CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA
Project No: 60204

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C15582-1	04/14/11	12:43	GWSP	04/14/11	SO	Soil	HC-S-7
C15582-2	04/14/11	12:55	GWSP	04/14/11	SO	Soil	HC-SW-7
C15582-3	04/14/11	13:05	GWSP	04/14/11	SO	Soil	HC-W-7

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-S-7		
Lab Sample ID:	C15582-1	**Date Sampled:**	04/14/11
Matrix:	SO - Soil	**Date Received:**	04/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23185.D	1	04/20/11	XB	n/a	n/a	VM741
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	25.0 ul
Run #2			

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	980	290	ug/kg	
108-88-3	Toluene	ND	980	290	ug/kg	
100-41-4	Ethylbenzene	1540	980	290	ug/kg	
1330-20-7	Xylene (total)	ND	2000	780	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	980	200	ug/kg	
	TPH-GRO (C6-C10)	166000	20000	9800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		60-130%
2037-26-5	Toluene-D8	98%		60-130%
460-00-4	4-Bromofluorobenzene	99%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-SW-7		
Lab Sample ID:	C15582-2	**Date Sampled:**	04/14/11
Matrix:	SO - Soil	**Date Received:**	04/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23176.D	1	04/20/11	XB	n/a	n/a	VM741
Run #2							

	Initial Weight
Run #1	5.09 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2.0	4.9	1.5	ug/kg	J
108-88-3	Toluene	ND	4.9	1.5	ug/kg	
100-41-4	Ethylbenzene	31.5	4.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	3.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
	TPH-GRO (C6-C10)	399	98	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		60-130%
2037-26-5	Toluene-D8	99%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HC-W-7		
Lab Sample ID:	C15582-3	**Date Sampled:**	04/14/11
Matrix:	SO - Soil	**Date Received:**	04/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23186.D	1	04/20/11	XB	n/a	n/a	VM741
Run #2							

	Initial Weight
Run #1	1.16 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	22	6.5	ug/kg	
108-88-3	Toluene	ND	22	6.5	ug/kg	
100-41-4	Ethylbenzene	44.8	22	6.5	ug/kg	
1330-20-7	Xylene (total)	ND	43	17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	22	4.3	ug/kg	
	TPH-GRO (C6-C10)	912	430	220	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		60-130%
2037-26-5	Toluene-D8	100%		60-130%
460-00-4	4-Bromofluorobenzene	101%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Shell Oil Products Chain Of Custody Record

SHELLW1C3538

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

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

Print Bill To Contact Name: Peter Schaefer

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 ☐ CHECK IF NO INCIDENT # APPLIES

DATE 4/14/2011

PO #:

SAP #: 1 6 5 2 5 5

PAGE 1 of 1

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

TELEPHONE: 510-420-3319 FAX: 510-420-9170 EMAIL: pschaefer@craworld.com

SITE ADDRESS: Street and City: 2301-2307 Lincoln Ave, Alameda

State: CA

GLOBAL ID NO.: T0619714590

CONSULTANT'S PROJECT MANAGER: Brenda Carter, CRA, Emeryville

CONSULTANT'S PHONE NO.: 510-420-3343

E-MAIL: shell.em.edf@craworld.com

060204-95-11.06

SAMPLER NAME(S): Greb Wolf and Sequoia Peterson

LAB USE ONLY: C15582

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 :

Copy of final report to Shell.Lab.Billing@craworld.com

Please report results in mg/kg

- ☑ 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	PRESERVATIVE HNO3	PRESERVATIVE H2SO4	PRESERVATIVE NONE	PRESERVATIVE OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (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	HC-S-7	04/14/11	1243	S					ICE	1	X				X									2.6+0.5=3.1°C	2"x6" SST
-2	HC-SW-7	04/14/11	1255	S					↓	1	X				X										↓
-3	HC-W-7	04/14/11	1305	S						1	X				X										

Relinquished by: (Signature) | Received by: (Signature) | Date: 4/14/11 | Time: 15:13

Relinquished by: (Signature) | Received by: (Signature) | Date: 4/14/11 | Time: 17:05

Relinquished by: (Signature) | Received by: (Signature) | Date: | Time:

05/2005 Revision

C15582: Chain of Custody
Page 1 of 2

Accutest Laboratories Northern California Sample Receiving Check List Job#: C15582 Initial: EK

Review Chain of Custody Chain of Custody is to be complete and legible.

- ☑ Are these regulatory ~~(NPDES)~~ samples? ~~CWA~~ — (Yes) / No
- ☑ Is pH requested? — Yes / (No)
  - ☐ Was Client informed that hold time is 15 min? Yes / No — Continue Yes / No
  - ☐ Was ortho-Phosphate filtered with in 15 min? Yes / No — Continue Yes / No
- ☑ Are sample within hold time? — (Yes) / No
  - Are sample in danger of exceeding hold-time — Yes / (No)
- ☑ Existing Client? (Yes) / No — Existing Project? (Yes) / ~~No~~ EK
  - If No: Is Report to info complete and legible, including;
    - ☐ deliverable ☐ Name ☐ Address ☐ phone ☐ e-mail
    - Is Bill to info complete and legible, including;
    - ☐ PO# ☐ Credit card ☐ Contact ☐ address ☐ phone ☐ e-mail
    - Is Contact and/or Project Manager identified, including;
    - ☐ phone ☐ e-mail
    - ☐ Project name / number
- ☑ Special requirements? — Yes / (No)
- ☑ Sample IDs / date & time of collection provided? — (Yes) / No
- ☑ Is Matrix listed and correct? — (Yes) / No
- ☑ Analyses listed, we do, or client has authorized a subcontract? — (Yes) / No
- ☑ Chain is signed and dated by both client and sample custodian? — (Yes) / No
- ☑ TAT requested available? (Yes) / No — Approved by PM

Review Coolers:

- ☑ Were all Coolers temperatures measured at ≤6°C? 3.1 °C — (Yes) / No
  - If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left
- ☑ Are samples on ice? — (Yes) / No
- Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)
- ☑ Shipment Received Method AC
- ☑ Custody Seals: Present: Yes / (No) — If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- ☑ Chain matches bottle labels? (Yes) / No — ☑ Sample bottle intact? (Yes) / No
- ☑ Is there enough sample volume in proper bottle for requested analyses? — (Yes) / No
- ☐ Proper Preservatives? Yes / No
  - Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.
- ☐ Headspace-VOAs? Greater than 6mm in diameter — Yes / No
  - List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

\\Accunca.accutest.com\depts\qa\sops\sop_completelist_2010\current_active_sop_oct_2010\sc001f1_0_form1_samplecontrol_samplereceivingchecklist_2009-01-01.doc

C15582: Chain of Custody
Page 2 of 2

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C15582
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM741-MB	M23165.D	1	04/20/11	XB	n/a	n/a	VM741

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15582-1, C15582-2, C15582-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg	
	TPH-GRO (C6-C10)	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	60-130%
2037-26-5	Toluene-D8	100%	60-130%
460-00-4	4-Bromofluorobenzene	96%	60-130%

Blank Spike Summary

Job Number: C15582
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM741-BS1	M23168.D	1	04/20/11	XB	n/a	n/a	VM741

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15582-1, C15582-2, C15582-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	235	94	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	60-130%
2037-26-5	Toluene-D8	99%	60-130%
460-00-4	4-Bromofluorobenzene	97%	60-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15582
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM741-BS	M23166.D	1	04/20/11	XB	n/a	n/a	VM741
VM741-BSD	M23167.D	1	04/20/11	XB	n/a	n/a	VM741

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15582-1, C15582-2, C15582-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	40.6	102	42.3	106	4	60-130/30
100-41-4	Ethylbenzene	40	38.7	97	39.9	100	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	41.1	103	42.4	106	3	60-130/30
108-88-3	Toluene	40	38.5	96	39.6	99	3	60-130/30
1330-20-7	Xylene (total)	120	115	96	119	99	3	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	100%	60-130%
2037-26-5	Toluene-D8	95%	93%	60-130%
460-00-4	4-Bromofluorobenzene	98%	95%	60-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15582
Account: SHELLWIC Shell Oil Products
Project: CRAWCAE:T0619714590-INC#97767044, 2301-2307 Lincoln Ave,Alameda,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15633-8MS	M23179.D	1	04/20/11	XB	n/a	n/a	VM741
C15633-8MSD	M23180.D	1	04/20/11	XB	n/a	n/a	VM741
C15633-8	M23173.D	1	04/20/11	XB	n/a	n/a	VM741

The QC reported here applies to the following samples: **Method:** SW846 8260B

C15582-1, C15582-2, C15582-3

CAS No.	Compound	C15633-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		39.4	43.6	111	42.9	108	2	60-130/30
100-41-4	Ethylbenzene	ND		39.4	40.7	103	40.2	102	1	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		39.4	50.4	128	50.6	128	0	60-130/30
108-88-3	Toluene	ND		39.4	40.3	102	39.8	100	1	60-130/30
1330-20-7	Xylene (total)	ND		118	122	103	120	101	2	60-130/30

CAS No.	Surrogate Recoveries	MS	MSD	C15633-8	Limits
1868-53-7	Dibromofluoromethane	107%	107%	106%	60-130%
2037-26-5	Toluene-D8	94%	96%	102%	60-130%
460-00-4	4-Bromofluorobenzene	103%	103%	99%	60-130%

APPENDIX D

BORING LOGS

Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- First encountered groundwater
- Static groundwater
- Soils logged by hand-auger or air-knife cuttings
- Soils logged by drill cuttings or disturbed sample
- Undisturbed soil sample interval
- Soil sample retained for submittal to analytical laboratory
- No recovery within interval
- Hydropunch or vapor sample screen interval

PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)

fbg = Feet below grade

Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval

(10YR 4/4) = Soil color according to Munsell Soil Color Charts

msl = Mean sea level

Soils logged according to the USCS.

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions			Graphic	Group Symbol	Typical Description
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils	Clean Gravels (≤5% fines)		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		Gravels with Fines (≥15% fines)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and Sandy Soils	Clean Sands (≤5% fines)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sand, little or no fines
		Sands with Fines (≥15% fines)		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays			ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays			MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
				CH	Inorganic clays of high plasticity
				OH	Organic clays of medium to high plasticity, organic silts
Highly Organic Soils				PT	Peat, humus, swamp soils with high organic contents

M:\Templates & Forms\Boring Logs\Boring Log Legend

CONESTOGA-ROVERS & ASSOCIATES

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**	SVP-9
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	07-Mar-11
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	07-Mar-11
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	6"	**SCREENED INTERVALS**	NA
LOGGED BY	O. Yan	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer PG# 5612	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Concrete
							Silty SAND (SM): Dark grayish brown (10 YR 5/3); moist; 5% clay, 20% silt, 75% fine sand.		Bentonite Seal
									Monterey Sand #2/12 1"-diam., Stainless Steel Probe
					SM				Bentonite Seal
0.3							@ 4 fbg: Cobble approximately 5" diameter.		
				5				5.0	Monterey Sand #2/12 1"-diam., Stainless Steel Probe
									Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204~1\10648E9~1\060204~1.GPJ DEFAULT.GDT 6/2/11

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**	COMP-1
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	07-Mar-11
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	07-Mar-11
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	NA
LOGGED BY	O. Yan	**DEPTH TO WATER (First Encountered)**	7.00 fbg (07-Mar-11) ▽
REVIEWED BY	P. Schaefer PG# 5612	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
							Silty SAND (SM): Moderate dark brown (10 YR 4/3); dry; 5% clay, 15% silt, 75% fine sand, 5% fine gravel.		
		COMP- 1A					@ 4fbg: Cobbles approximately 5" diameter.		
0.4		COMP- 1B		5	SM		@ 6 fbg: 20% clay, 25% silt, 55% fine sand.		Portland Type I/II
							@ 7 fbg: Wet. ▽		
		COMP- 1C					@ 9 fbg: Greenish gray (5 GY 5/1).		
956		COMP- 1D		10				10.0	Bottom of Boring @ 10 fbg

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**	COMP-2
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	07-Mar-11
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	07-Mar-11
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vaport Tech Services	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Air-knife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3"	**SCREENED INTERVALS**	NA
LOGGED BY	O. Yan	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	P. Schaefer PG# 5612	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		COMP- 2A COMP- 2B COMP- 2C COMP- 2D			SM		**ASPHALT** **Silty SAND (SM):** Moderate dark brown (10 YR 4/3); dry; 5% clay, 25% silt, 70% fine sand. @ 2.5 fbg: Moist.	0.3 4.0	Portland Type I/II Bottom of Boring @ 4 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204~1\0648E9~1\060204~1.GPJ DEFAULT.GDT 6/2/11

APPENDIX E

WASTE MANIFESTS

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	215099

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #565, Houston, TX 77002

Generator's Site Address (if different than mailing address)
Shell 2301 - 2307 Lincoln Ave.
Alameda, CA. 94501

Generator's Phone

6. Transporter 1 Company Name
American Integrated Services, Inc.

U.S. EPA ID Number
CAR000146336

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Keller Canyon Landfill
901 Bailey Road
Pittsburg, CA 94565

U.S. EPA ID Number
Not Required

Facility's Phone: 925-458-9800

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 Solid (Soil)	1	DT	12 cu.yds.	Y	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

RIPR#: 87553
SAP#: 185255
Incident#: 97767044
Profile#: 4212113857
Project #: 71009-1-3

674754

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: AIS on behalf of SOPUS - J Sherman
Signature:
Month: 04 Day: 12 Year: 11

TRANSPORTER INT'L

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: Melvin Dixon
Signature:
Month: 4 Day: 13 Year: 11

Transporter 2 Printed/Typed Name: Destination Anywhere
Signature:
Month: Day: Year:

DESIGNATED FACILITY

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:

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

Printed/Typed Name:
Signature: Fehpr (Comp)
Month: 04 Day: 14 Year:

69-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NOT REQUIRED
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Waste Tracking Number: 215100

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #665, Houston, TX 77002
Generator's Phone:

Generator's Site Address (if different than mailing address)
Shell 2301 - 2307 Lincoln Ave.
Alameda, CA. 94501

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

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

8. Designated Facility Name and Site Address
Keller Canyon Landfill
901 Bailey Road
Pittsburg, CA 94565 925-458-9800
Facility's Phone:
U.S. EPA ID Number: Not Required

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 Solid (Soil)	1	DT	12	Y	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

RIPR#: 87553
SAP#: 165255
Incident#: 97767044
Profile#: 4212113857
Project #: 71009-1-3

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: AIS on behalf of SOPUS - J Sherman
Signature:
Month: 11 Day: 12 Year: 11

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgement of Receipt of Materials

Transporter 1 Printed/Typed Name: MELVIN DIXON
Signature:
Month: 11 Day: 12 Year: 11

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

17. Discrepancy

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

Manifest Refererice Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

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

DESIGNATED FACILITY

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

Printed/Typed Name: Ethel Conyou
Signature:
Month: 11 Day: 12 Year: 11

69-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

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	215101

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #855, Houston, TX 77002

Generator's Site Address (if different than mailing address)
Shell 2301 - 2307 Lincoln Ave.
Alameda, CA. 94501

Generator's Phone

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

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

8. Designated Facility Name and Site Address
Keller Canyon Landfill
901 Bailey Road
Pittsburg, CA 94565
U.S. EPA ID Number: Not Required

Facility's Phone: 925-458-8600

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 Solid (Soil)	1	DT	16	Y	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

RIPR#: 87553
SAP#: 185255
Incident#: 97767044
Profile#: 4212113857
Project #: 71009-1-3

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: AIS on behalf of SOPUS - J Sherman
Signature:
Month: 4 Day: 12 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgement of Receipt of Materials

Transporter 1 Printed/Typed Name: Destination Anywhere
Signature:
Month: 4 Day: 12 Year: 11

Transporter 2 Printed/Typed Name: 852706 - 007
Signature:
Month: Day: Year:

DESIGNATED FACILITY

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:

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

Printed/Typed Name: Felipe Cornejo
Signature:
Month: Day: Year:

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	215102

GENERATOR

5. Generator's Name and Mailing Address
Shell Oil Products US
One Shell Plaza, 910 Louisiana, Room #855, Houston, TX 77002

Generator's Site Address (if different than mailing address)
Shell 2301 - 2307 Lincoln Ave.
Alameda, CA. 94501

Generator's Phone

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

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

8. Designated Facility Name and Site Address
Keller Canyon Landfill
901 Bailey Road
Pittsburg, CA 94565
Facility's Phone: 925-458-9600
U.S. EPA ID Number: Not Required

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 Solid (Soil)	1	DT	20	Y	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

RIPR#: 87553
SAP#: 165255
Incident#: 97757044
Profile#: 4212113857
Project #: 71009-1-3

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: AIS on behalf of SOPUS - J Sherman
Signature
Month: 4 Day: 14 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgement of Receipt of Materials

Transporter 1 Printed/Typed Name: Destination Anywhere
Signature
Month: 4 Day: 14 Year: 11

Transporter 2 Printed/Typed Name: 852706
Signature
Month: Day: Year:

DESIGNED FACILITY

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:

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

Printed/Typed Name: Felipe Arriaga
Signature
Month: 04 Day: 15 Year: 11

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TRANSPORTER #1