R029866

PHASE II ENVIRONMENTAL SITE ASSESSMENT

SHELL OIL PRODUCTS US, SAP #135682

3750 EAST 14TH STREET/INTERNATIONAL BOULEVARD
OAKLAND, CALIFORNIA

DELTA PROJECT NO. CASHL-BADW-A-135682

Prepared for:

Shell Oil Products US
20945 S. Wilmington Ave.
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Prepared by:

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October 1, 2008

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

PHASE II ENVIRONMENTAL SITE ASSESSMENT

SHELL OIL PRODUCTS US, SAP #135682
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OAKLAND, CALIFORNIA
DELTA PROJECT NO. CASHL-BADW-A-135682

EXECUTIVE SUMMARY

Delta Consultants (Delta) on behalf of Shell Oil Products US has completed a Phase II Environmental Site Assessment (Phase II ESA) for Due Diligence at the Shell branded service station located at 3750 East 14th Street/International Boulevard, Oakland, Alameda County, California (Site).

- Prepared a site-specific Health & Safety Plan prior to the initiation of field activities.
- Notified USA-North to have public utilities in the area of the Site clearly marked.
- Contracted with a private underground utility locating firm (Cruz Brothers), in addition to the public locates, to clear each soil boring location.
- Cleared each soil boring location to 5-feet below ground surface (bgs) using air-knifing and vacuum truck equipment.
- Advanced five soil borings (B-1 through B-5) to maximum depths ranging from 15 to 20 feet bgs using direct push probe drilling methods and equipment on August 5 and 7, 2008.
- Collected representative soil samples from continuously cored boreholes for logging and characterization of soil types, field screening, and potential analytical laboratory testing.
- Conducted headspace screening of the soil samples for volatile organic compound (VOC) vapors using a portable photo-ionization detector (PID).
- Collected one soil sample from each soil boring, the location of which was selected by the following ordered criteria:
    - The sample interval exhibiting the highest PID reading, or
    - In the event that impacts are not observed, the sample interval directly above the soil/groundwater interface, or
    - In the event that groundwater is not encountered in the boring, the termination point of the boring.
- Collected a groundwater sample from each boring in which groundwater was encountered.
- Submitted all samples to CalScience Environmental Laboratories (CalScience) in Garden Grove, California to be analyzed for:
    - Total petroleum hydrocarbons as gasoline (TPH-G) using US Environmental Protection Agency (EPA) Method 8260B.

- Select VOCs by EPA Method 8260B, including benzene, toluene, ethylbenzene, total xylenes (BTEX), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), methyl tert-butyl ether (MTBE), tertiary butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether, (ETBE), tert amyl-butyl ether (TAME), and ethanol.

A summary of findings is as follows: All soil and groundwater analytical laboratory results were reviewed for detections of petroleum hydrocarbon constituents above the laboratory method reporting limits (MRLs) and compared to the California Regional Water Quality Control Board Environmental Screening Levels (ESLs)[1]. For comparison purposes the following assumptions were used in selecting the ESLs:

- Residential land use,
- Shallow soil (less than 3 meters) or Deep Soil (greater than 3 meters) as appropriate, and;
- Groundwater is a current or potential source of drinking water.

The appropriate ESLs were obtained from Summary Table A and Summary Table C in the document *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*[1]. Comparisons between the ESLs and laboratory results can be found in **Table 1** for soil samples and **Table 2** for groundwater samples.

- None of the soil samples collected and submitted for laboratory analysis during this investigation contained concentrations of any constituent in excess of the ESLs.
- None of the groundwater samples collected and submitted for laboratory analysis during this investigation contained concentrations of any constituent in excess of the ESLs with the following exceptions. TPH-G were detected in excess of the ESL (100 micrograms/liter [µg/L]) in the groundwater samples collected from borings B-1 (200 µ/L), B-2 (3,900 µg/L), and B-5 (180 µg/L). Benzene was detected in excess of the ESL (1 µg/L) in the groundwater sample collected from boring B-2 (17 µg/L). MTBE was detected in excess of the ESL (5 µg/L) in the groundwater sample collected from boring B-1 (5.8 µg/L).
- Based on Delta's evaluation of the analytical data, Delta notified the Alameda County Environmental Health Department that concentrations of TPH-G and MTBE in groundwater and TPH-G in soil exceeding ESLs were reported. Delta also submitted an *Underground Storage Tank Unauthorized Release/Contamination Site Report.*
- Water wells were not identified within 1,000 feet of the Site.

[1] California Regional Water Quality Board, San Francisco Bay Region. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final – November 2007, revised May 2008.

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3750 EAST 14TH STREET/INTERNATIONAL BOULEVARD
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DELTA PROJECT NO. CASHL-BADW-A-135682

1.0 INTRODUCTION

1.1 General

At the request of Shell Oil Products US (Shell), Delta Consultants (Delta) has conducted a Phase II Environmental Site Assessment (Phase II ESA) for Due Diligence at the Shell Retail Store located at 3750 East 14th Street/International Boulevard, Oakland, Alameda County, California (Site). This Site is an active Shell service station.

1.2 Purpose and Scope

In order to establish a baseline of environmental conditions, Delta conducted this Phase II ESA to assess subsurface conditions and potential hydrocarbon impacts through implementation of the following scope of work:

- Prepared a site-specific Health & Safety Plan prior to the initiation of field activities.
- Notified USA-North to have public utilities in the area of the Site clearly marked.
- Contracted with a private underground utility locating firm (Cruz Brothers), in addition to the public locates, to clear each soil boring location.
- Cleared each soil boring location to 5-feet bgs using air-knifing and vacuum truck equipment.
- Advanced five soil borings (B-1 through B-5) to maximum depths ranging from 15 to 20 feet bgs using direct push probe drilling methods and equipment on August 5 and 7, 2008. Borings were placed in the vicinity of the underground storage tank (UST) basin and in the vicinity of dispensers. The scope of work, as defined by Shell, limited drilling depth to 40 feet bgs around tank basins and 20 feet bgs near dispensers; or to the depth of first encountered groundwater or drilling refusal whichever was encountered first.
- Collected representative soil samples from continuously cored boreholes for logging and characterization of soil types, field screening, and potential laboratory analysis.
- Conducted headspace screening of the soil samples for volatile organic compound (VOC) vapors using a portable photo-ionization detector (PID).
- Collected one soil sample from each soil boring, the location of which was selected by the following ordered criteria:
    - The sample interval exhibiting the highest PID reading, or

  - In the event that impacts are not observed, the sample interval directly above the soil/groundwater interface, or
  - In the event that groundwater is not encountered in the boring, the termination point of the boring.
- Collected a groundwater sample from each boring in which groundwater was encountered.
- Submitted all samples to CalScience Environmental Laboratories (CalScience) in Garden Grove, California to be analyzed for:
  - Total petroleum hydrocarbons as gasoline (TPH-G) using US Environmental Protection Agency (EPA) Method 8260B.
  - Select VOCs by EPA Method 8260B, including benzene, toluene, ethylbenzene, total xylenes (BTEX), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), methyl tert-butyl ether (MTBE), tertiary butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether, (ETBE), tert amyl-butyl ether (TAME), and ethanol.
- Evaluated and compiled field observations and laboratory analytical data into this report, documenting boring installations, soil and groundwater sampling, and analytical data.

1.3 Deviations

The soil and groundwater samples were not analyzed for EDB or EDC.

1.4 Background

The Site is an active retail gasoline station located in California, in Alameda County at 3750 East 14th Street/International Boulevard in Oakland **(Figure 1)**. Above ground structures include a station building and dispenser islands located south of the station building (**Figure 2**). The Site is primarily covered with asphalt and concrete pavement. The USTs are located within a common excavation in the southeastern portion of the Site. Local access to the Site is gained from East 14th Street/International Boulevard to the southwest and 38th Avenue to the southeast.

Water wells were not located within 1,000 feet of the Site. The Environmental Data Resources (EDR) well survey report is included in **Appendix A**.

2.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT

2.1 Drilling and Soil Sampling

Soil borings were advanced using a direct-push hydraulic drive point system to depths ranging from 15 to 20 feet bgs. Soil samples were collected continuously using a 5-foot macrocore sampler with a 1.5-inch inside diameter driven into undisturbed formation materials utilizing a hydraulic piston mechanism. The

soils encountered were logged using the Unified Soil Classification System (USCS) and field screened using a PID by a Delta field technician working under the supervision of a California Professional Geologist. Field observations, including soil color, odor, and PID readings, were recorded on the soil boring logs, included as **Appendix B.**

One soil sample from the sample interval exhibiting the highest PID reading, or if no field indications of impacts were noted, the interval located directly above the soil/groundwater interface or at the termination point in each soil boring was submitted for laboratory analysis. Soil samples were either placed in laboratory prepared glass containers or the macrocore sample liner was cut into a 6-inch long section and sealed with Teflon tape and end caps. Soil samples were placed into ice-chilled coolers. Standard chain-of-custody (COC) protocol was followed for transporting soil samples to CalScience in Garden Grove, California. Soil analytical laboratory results are summarized in **Table 1** and shown spatially in **Figure 3.** The soil sample analytical laboratory report and COC records are included in **Appendix C.**

All soil borings were backfilled with bentonite grout and the ground surfaces were repaired to approximate original conditions.

2.2 Grab Groundwater Sampling

Following borehole advancement, groundwater samples were collected utilizing Hydropunch sampling techniques. Hyrdropunch sampling utilizes a probe rod with a retractable stainless steel screen with a steel drop-off tip. The probe rods are advanced a minimum of two feet into the water table, at which point the tip is released. The drill rods are then retracted to expose the disposable screen. Groundwater was collected from the screened interval using a peristaltic pump and disposable polyethylene tubing. Groundwater samples were decanted directly into laboratory prepared sample containers and placed in an iced cooler for transport to CalScience following standard COC protocols. Groundwater analytical laboratory results are summarized in **Table 2** and shown spatially in **Figure 4.** The analytical laboratory reports and COC records for the groundwater sampling event are included in **Appendix C.**

2.3 Investigation Derived Waste

All investigation derived waste generated during the investigation was stored in US Department of Transportation-approved 55-gallon drums for subsequent disposal following proper waste characterization. Decontamination wash water generated during the investigation was stored in a separate drum for subsequent recycling. Copies of waste disposal records are included as **Appendix D,** if they were available at the time this report was prepared.

2.4 Laboratory Analytical Results

All soil and groundwater analytical laboratory results were reviewed for detections of petroleum hydrocarbon constituents above the laboratory method reporting limits (MRLs) and compared to the California Regional Water Quality Control Board Environmental Screening Levels (ESLs)[1]. For comparison purposes the following assumptions were used in selecting the ESLs:

- Residential land use,
- Shallow soil (less than 3 meters) or Deep Soil (greater than 3 meters) as appropriate, and;
- Groundwater is a current or potential source of drinking water.

The appropriate ESLs were obtained from Summary Table A and Summary Table C in the document *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*[1]. Comparisons between the ESLs and lab results can be found in **Table 1** for soil samples and **Table 2** for groundwater samples.

Soil analytical laboratory results are summarized in **Table 1**. Within the table, samples with concentrations that exceed the ESLs are bolded. The soil sample analytical laboratory report and COC records are included in **Appendix C**.

Groundwater analytical laboratory results are summarized in **Table 2**. Within the table, samples with concentrations that exceed the ESLs are bolded. The analytical laboratory reports and COC records for the groundwater event are included **in Appendix C**.

2.5 Release Notification

Based on Delta's evaluation of the analytical data, Delta notified the Alameda County Environmental Health Department that concentrations of TPH-G and MTBE in groundwater and TPH-G in soil exceeding ESLs were reported. Delta also submitted an *Underground Storage Tank Unauthorized Release/Contamination Site Report.*

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1 California Regional Water Quality Board, San Francisco Bay Region. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final – November 2007, revised May 2008.

3.0 SUMMARY OF FINDINGS

Based on the scope of work performed, Delta presents the following summary of findings:

- Five soil exploration borings (B-1 through B-5) were advanced on August 5 and 7, 2008 to a maximum depth of 20 feet bgs.
- All soil and groundwater laboratory results were reviewed for detections of petroleum constituents above the laboratory MRLs and compared to the California Regional Water Quality Control Board ESLs. Comparisons between the ESLs and lab results can be found in **Tables 1 and 2**.
- None of the soil samples collected and submitted for laboratory analysis during this investigation contained concentrations of any constituent in excess of the ESLs.
- None of the groundwater samples collected and submitted for laboratory analysis during this investigation contained concentrations of any constituent in excess of the ESLs with the following exceptions. TPH-G were detected in excess of the ESL (100 micrograms/liter [µg/L]) in the groundwater samples collected from borings B-1 (200 µ/L), B-2 (3,900 µg/L), and B-5 (180 µg/L). Benzene was detected in excess of the ESL (1 µg/L) in the groundwater sample collected from boring B-2 (17 µg/L). MTBE was detected in excess of the ESL (5 µg/L) in the groundwater sample collected from boring B-1 (5.8 µg/L).
- Based on Delta's evaluation of the analytical data, Delta notified the Alameda County Environmental Health Department that concentrations of TPH-G and MTBE in groundwater and TPH-G in soil exceeding ESLs were reported. Delta also submitted an *Underground Storage Tank Unauthorized Release/Contamination Site Report*.
- Water wells were not identified within 1,000 feet of the Site.

4.0 REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report.

This report was prepared by **DELTA CONSULTANTS**

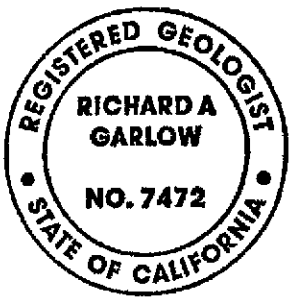
Kathryn McQuinn
Staff Scientist

Date: 10/01/2008

Reviewed by:

Rich Garlow, P.G.
California Professional Geologist

Date: 10/2/08



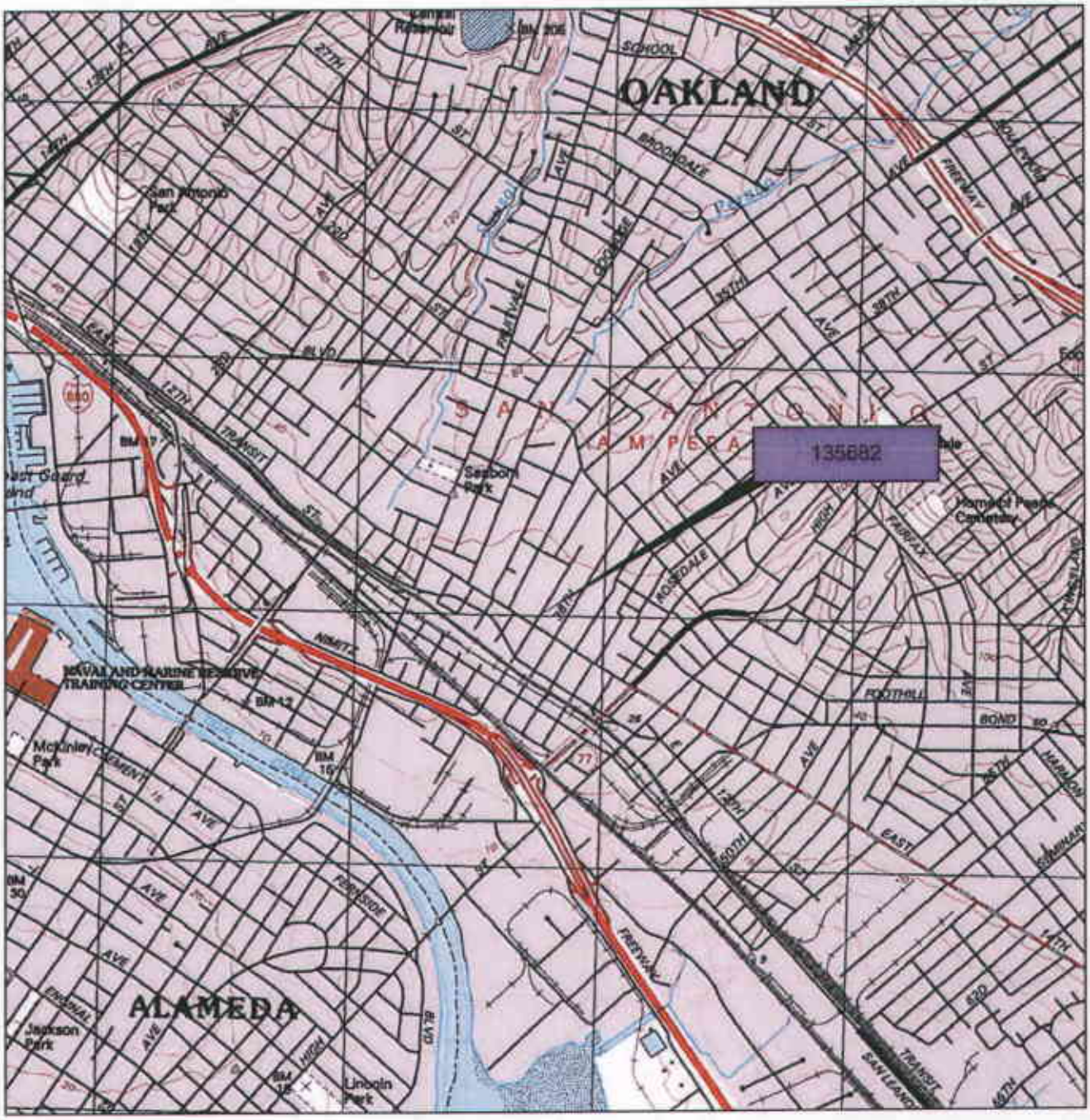


Figure 1

SITE LOCATION MAP

Shell SAP 135682
3750 E. 14th Street
Oakland, California

Project No.	Prepared by	Drawn by
CASHLBADWA	LNH	LNH
Date	Reviewed by	Filename
9/10/08		135682

DELTA

LEGEND

- ● UNDERGROUND STORAGE TANK (UST) AREA SOIL BORING
- ○ DISPENSER AREA SOIL BORING

N

0 15 30

Scale (feet)

Projection: California State Plane Coordinate System, Zone 3, NAD83, U.S. Survey foot

• BORING LOCATIONS ARE APPROXIMATE

Figure 2
SITE PLAN

Shell SAP 135682
3750 E. 14th Street
Oakland, California

Project No.	Prepared by	Drawn by	
CASHLBADWA	LHH	LHH	
Date	Reviewed by	Filename	
9/9/08		135682	DELTA

* BORING LOCATIONS ARE APPROXIMATE

LEGEND

- ● UNDERGROUND STORAGE TANK (UST) AREA SOIL BORING
- ○ DISPENSER AREA SOIL BORING

6'		SAMPLE DEPTH (bgs)
B	<0.0050	BENZENE (mg/kg)
T	<0.0050	TOLUENE (mg/kg)
E	<0.0050	ETHYL-BENZENE (mg/kg)
X	<0.010	TOTAL XYLENES (mg/kg)
M	<0.0050	MTBE (mg/kg)
TPH-G	<0.50	TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS (mg/kg)
TPH-D	NA	TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS (mg/kg)

NA	NOT ANALYZED
mg/kg	MILLIGRAMS PER KILOGRAM
<0.0050	LESS THAN METHOD REPORTING LIMIT (NOT DETECTED)
MTBE	METHYL TERT-BUTYL ETHER
bgs	BELOW GROUND SURFACE

N

0 15 30

Scale (feet)

Projection: California State Plane Coordinate System, Zone 3, NAD83, U.S. Survey foot

Figure 3
SOIL CONCENTRATION MAP
AUGUST 7, 2008
Shell SAP 135682
3750 E. 14th Street
Oakland, California

Project No.	Prepared by	Drawn by
CASHLBADWA	LNH	LNH/JH
Date	Reviewed by	Filename
9/23/08		135682

DELTA

* BORING LOCATIONS ARE APPROXIMATE

LEGEND

- ● UNDERGROUND STORAGE TANK (UST) AREA SOIL BORING
- ○ DISPENSER AREA SOIL BORING

B	<0.50	BENZENE (ug/L)
T	<1.0	TOLUENE (ug/L)
E	<1.0	ETHYL-BENZENE (ug/L)
X	<1.0	TOTAL XYLENES (ug/L)
M	5.8	MTBE (ug/L)
TPH-G	200	TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS (ug/L)
TPH-D	NA	TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS (ug/L)

NA	NOT ANALYZED
ug/L	MICROGRAMS PER LITER
<0.50	LESS THAN METHOD REPORTING LIMIT (NOT DETECTED)
MTBE	METHYL TERT-BUTYL ETHER

N

0 15 30

Scale (feet)

Projection: California State Plane Coordinate System, Zone 3, NAD83, U.S. Survey foot

Figure 4
GROUNDWATER CONCENTRATION MAP
AUGUST 7, 2008
Shell SAP 135682
3750 E. 14th Street
Oakland, California

Project No.	Prepared by	Drawn by	
CASHLBADWA	LNH	LNH/JH	DELTA
Date	Reviewed by	Filename	
9/10/08		135682	

Table 1
Summary of Soil Analytical Results - TPH & VOCs
SAP No.135682
3750 East 14th Street/International Boulevard
Oakland, California

Sample Identification	Sample Depth (feet)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Ethanol (mg/kg)
B-1 6'	6	08/07/08	<0.60	NA	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	<0.0050	0.05	<0.010	<0.010	<0.010	<0.50
B-2 11'	11	08/07/08	1.5	NA	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	<0.0050	0.05	<0.010	<0.010	<0.010	<0.50
B-3 8'	8	08/06/08	<0.50	NA	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	<0.0050	0.05	<0.010	<0.010	<0.010	<0.50
B-4 12'	12	08/06/08	<0.50	NA	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	<0.0050	0.05	<0.010	<0.010	<0.010	<0.50
B-5 12'	12	08/06/08	<0.50	NA	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	<0.0050	0.05	<0.010	<0.010	<0.010	<0.50
ESL[1]: Shallow Soils (<3m), Residential Land Use, Groundwater is Current or Potential Source of Drinking Water (Table A)			**83**	**83**	**0.044**	**2.9**	**2.3**	**2.3**	**0.00033**	**0.0045**	**0.023**	**0.075**	**NA**	**NA**	**NA**	**NA**
ESL[1]: Deep Soils (>3m), Residential Land Use, Groundwater is Current or Potential Source of Drinking Water (Table C)			**83**	**83**	**0.044**	**2.9**	**3.3**	**2.3**	**0.00033**	**0.0045**	**0.023**	**0.075**	**NA**	**NA**	**NA**	**NA**

Notes:
mg/kg = milligrams per kilogram
< = Not detected at concentration exceeding laboratory method reporting limit (MRL)
VOC = Volatile organic compound
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
MTBE = Methyl tert-Butyl Ether
TBA = Tertiary Butyl Alcohol
DIPE = Diisopropyl Ether
ETBE = Ethyl tert-Butyl Ether
TAME = Tert-Amyl Butyl Ether
NA = Not Analyzed, Not Available
VOC analysis by EPA Method 8260B
Gasoline-range hydrocarbons by EPA Method 8260B
Diesel-range hydrocarbons by EPA Method 8015B
[1] ESL = Environmental Screening Level. Screening criteria referenced are from the *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final, November 2007, revised May 2008.

Table 2
Summary of Groundwater Analytical Results - TPH & VOCs
SAP No.135682
3760 East 14th Street/International Boulevard
Oakland, California

Sample Identification	Sample Date	Depth to Water (feet)	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	EDC (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)
B-1	08/07/08	13.50	200	NA	<0.50	<1.0	<1.0	<2.0	NA	NA	5.8	<10	<2.0	<2.0	<2.0	<100
B-2	08/07/08	14.25	3,800	NA	17	<1.0	6.1	1.1	NA	NA	<1.0	<10	<2.0	<2.0	<2.0	<100
B-3	08/05/08	12.25	<50	NA	<0.50	<1.0	<1.0	<2.0	NA	NA	<1.0	<10	<2.0	<2.0	<2.0	<100
B-4	08/05/08	13	<50	NA	<0.50	<1.0	<1.0	<2.0	NA	NA	<1.0	<10	<2.0	<2.0	<2.0	<100
B-5	08/05/08	13.10	180	NA	<0.50	<1.0	<1.0	<2.0	NA	NA	<1.0	<10	<2.0	<2.0	<2.0	<100
Trip Blank	--	--	<50	NA	<0.50	<1.0	<1.0	<2.0	NA	NA	<1.0	<10	<2.0	<2.0	<2.0	<100
ESL[1]: Shallow Soils (<3m), Residential Land Use, Groundwater is a Current or Potential Source of Drinking Water (Table A)			100	100	1	40	30	20	0.05	0.5	5	12	NA	NA	NA	NA
ESL[1]: Deep Soils (>3m), Residential Land Use, Groundwater is a Current or Potential Source of Drinking Water ESLs (Table C)			100	100	1	40	30	20	0.05	0.5	5	12	NA	NA	NA	NA

Notes:
µg/L = micrograms per liter
< = Not detected at concentration exceeding laboratory method reporting limit (MRL)
VOC = Volatile organic compound
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
MTBE = Methyl tert-Butyl Ether
TBA = Tertiary Butyl Alcohol
DIPE = Diisopropyl Ether
ETBE = Ethyl tert-Butyl Ether
TAME = Tert-Amyl Butyl Ether
NA = Not Analyzed, Not Available
VOC analysis by EPA Method 8260B
Gasoline-range hydrocarbons by EPA Method 8260B
Diesel-range hydrocarbons by EPA Method 8015B
[1] ESL = Environmental Screening Level. Screening criteria referenced are from the *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final, November 2007, revised May 2008.

APPENDIX A

ENVIRONMENTAL DATA RESOURCES WELL SURVEY REPORT

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.189
Federal FRDS PWS	0.189
State Database	0.189

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

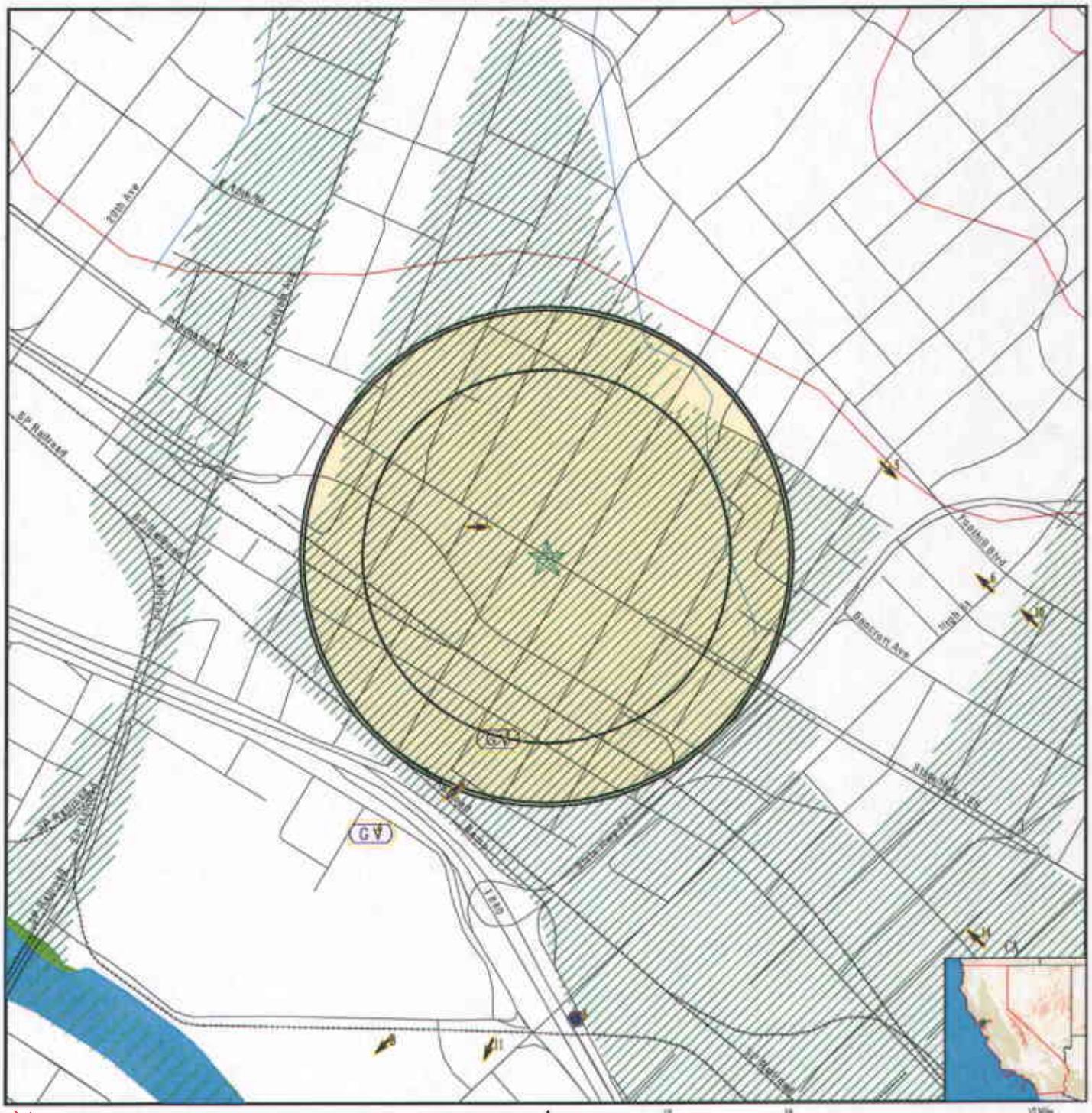
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 02271121.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

SITE NAME: 135682	CLIENT: Delta Consultants
ADDRESS: 3750 E 14TH STREET OAKLAND CA 94601	CONTACT: Gary E. Turgeon
LAT/LONG: 37.7750 / 122.2204	INQUIRY #: 02271121.2r DATE: July 17, 2008 9:39 am

Drilling Started: 08/07/2008
Drilling Completed: 08/07/2008
Drilling Method and Diameter: Direct Push – 2.5" Dia.
Drilling Company: Cascade Drilling
Drilled By:
Logged By: Marisol Ortiz
Boring: B-1

Depth (feet)	Samples	Recovery (%)	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	Graphic Log	Depth (feet)
				No Recovery – Air Knifed to 5 feet bgs.			
				5.00'			
		85	256	*Gravel with Clay and Sand: Light gray.*	GC		
				6.00'			
		100	278	*Silt and Clay: Light brown, dry, medium plasticity.*	CL		
				7.00'			
		100	266	*Clay: Light brown, dry, with high plasticity.*	CL		
		100	198				
		85	190				
				10.00'			
		75	242	*Gravelly Clay: Dry, medium plasticity.*	CL		
				11.00'			
		100	204	*Silt with Clay: Gray, dry, medium plasticity.*	CL		
				12.00'			
		100	110	*Clay: Gray, dry, little gravel, high plasticity.*	CL		
		100	159				
				▼ 14.00'			
		75	76.6	*Silty Sand with some Gravel: Gray, damp.*	SM		
				15.00'			
		25	265	*Silt with Gravel: Light gray, dry*	ML		
				16.00'			
		100	259	*Silty Sand with Gravel: Light brown, moist.*	SM		
				17.00'			
		60	58.5	*Coarse Sand and Gravel: Light brown, wet.*	SP		

▼ Water Level (13.50')

CONTINUOUS CORE
Sample Collected for Laboratory Analysis

DELTA

CASHL-BADW-A
09-19-2008 | 09-19-2008
CALIFORNIA | D.F. | J.K.
SH5682-B1

SHELL FACILITY No. 135682
3750 E. 14th Street
Oakland, California

Soil Boring Log
B-1

FIGURE

Drilling Started: 08/07/2008
Drilling Completed: 08/07/2008
Drilling Method and Diameter: Direct Push – 2.5" Dia.
Drilling Company: Cascade Drilling
Drilled By:
Logged By: Marisol Ortiz
Boring: B-2

Depth (feet)	Samples	Recovery (%)	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	Graphic Log	Depth (feet)
				No Recovery – Air Knifed to 5 feet bgs.			
				5.00'			
		0		*No Recovery*			
		0		7.00'			
		30	169	*Gravel: Light gray, with clay.*	GC		
				8.00'			
		100	58.8	*Clay: Gray, moist, high plasticity.*	CL		
				9.00'			
		75	125	*Clay with some Silt and Gravel: Dark gray, moist.*	CL		
				10.00'			
		85	247	*Clay: Black, moist, high plasticity, some gravel.*	CL		
		100	264				
				12.00'			
		50	71.0	*Clay: Black medium to high plasticity, little gravel, moist.*			
				13.00'			
		0		*No Recovery*			
		0		▼ 14.25'			
		60	208	*Silty Sand with Little Gravel: Gray, moist, odor.*	SM		
		100	99.5				
				17.00'			
		80	241	*Silty Sand with some Gravel: Light brown, wet.*	SM		

▼ Water Level (14.25')

CONTINUOUS CORE
Sample Collected for Laboratory Analysis

DELTA	CASHL-BADW-A 09-19-2008 09-19-2008 CALIFORNIA D.F. J.E. SH5682-B2	SHELL FACILITY No. 135682 3750 E. 14th Street Oakland, California	Soil Boring Log B-2	FIGURE

Drilling Started: 08/05/2008
Drilling Completed: 08/05/2008
Drilling Method and Diameter: Direct Push – 2.5" Dia.
Drilling Company: Cascade Drilling
Drilled By:
Logged By: Marisol Ortiz
Boring: B-3

Depth (feet)	Samples	Recovery (%)	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	Graphic Log	Depth (feet)
				No Recovery – Air Knifed to 5 feet bgs.			
							5.00'
		0	169	*Clay: Dark brown, high plasticity.*	CH		
		0	58.8				7.00'
		30	169	*Clay, some Sand and Gravel: Light brown.*	CH		8.00'
		100	58.8	*Clay: Some gravel, low plasticity.*	CL		
		75	125	*Clay: Light brown, medium plasticity.*			10.00'
		0		*No Recovery*			
		0					12.00' ▼
		50	71.0	*Sand: Light brown, some silt and gravel, moist.*	SP		13.00'
		0	264	*Silt: Light brown, with some sand and gravel, moist.*	SM		14.00'
		0	71.0	*Silt and Clay: Light brown, moist.*	SM		

▼ Water Level (12.25')

CONTINUOUS CORE
Sample Collected for Laboratory Analysis

DELTA	CASHL-BADW-A 09-19-2008 / 09-19-2008 CALIFORNIA / O.F. / J.E. SH5682-B3	SHELL FACILITY No. 135682 3750 E. 14th Street Oakland, California	Soil Boring Log B-3

FIGURE

Drilling Started: 08/05/2008
Drilling Completed: 08/05/2008
Drilling Method and Diameter: Direct Push -- 2.5" Dia.
Drilling Company: Cascade Drilling
Drilled By:
Logged By: Marisol Ortiz
Boring: B-4

Depth (feet)	Samples	Recovery (%)	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	Graphic Log	Depth (feet)
				No Recovery -- Air Knifed to 5 feet bgs. 5.00'			
		90	0.0	*Silty Clay: Dark brown, medium plasticity.* 6.00'	CL		
		100		*Clay: Dark brown, high plasticity, moist.* 7.00'	MH		
		100	0.0	*Clay: Some sand and gravel, light brown, medium plasticity.* 8.00'	CL		
		100		*Clay: Light brown, moist, some silt and gravel, medium plasticity.* 9.00'	CL		
		85	0.0	*Clay: Light brown, moist, some silt, high plasticity.* 10.00'	MH		
		80	0.0	*Clay: Light brown, dry, high plasticity.* 11.00'	MH		
		100		*Silty Clay: Light brown, dry, high plasticity.* 12.00'	CL		
		100	0.0	*Clay: Light brown, with some silt, medium plasticity, dry.* ▼ 13.00'	CL		
		100		*Sandy Silt with Grave: Light brown, moist.* 14.00'	SM		
		80	0.0	*Sandy Silt wit Gravel: Light brown, moist.*	SM		

▼ Water Level (13.00')

CONTINUOUS CORE Sample Collected for Laboratory Analysis

DELTA

CASHL-BADW-A
09-19-2008 09-19-2008
CALIFORNIA O.F. J.E.
SH5682-B4

SHELL FACILITY No. 135682
3750 E. 14th Street
Oakland, California

Soil Boring Log
B-4

FIGURE

Drilling Started: 08/05/2008
Drilling Completed: 08/05/2008
Drilling Method and Diameter: Direct Push – 2.5" Dia.
Drilling Company: Cascade Drilling
Drilled By:
Logged By: Marisol Ortiz
Boring: B-5

Depth (feet)	Samples	Recovery (%)	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	Graphic Log	Depth (feet)
				No Recovery – Air Knifed to 5 feet bgs.			
				5.00'			
		0		*No Recovery*			
		0					
		0					
		0					
				9.00'			
		75	0.0	*Clay: Black, moist, with some silt and gravel, medium plasticity.*	CL		
				10.00'			
		80	0.0	*Silt: Gray, moist, with little sand and gravel.*	ML		
				11.00'			
		100	0.0	*Clayey Silt: Gray, damp, some gravel.*	ML		
				12.00'			
		100	0.0	*Silty Clay: Gray, moist, medium plasticity.*	CL		
				▼ 13.00'			
		100	0.0	*Silty Clay: Gray, moist, some gravel, medium plasticity.*	CL		
				14.00'			
		75	0.0	*Silty Clay: Light brown, moist, low plasticity, some gravel.*	ML		

▼ Water Level (13.10')

CONTINUOUS CORE
Sample Collected for Laboratory Analysis

DELTA

CASHL-BADW-A
09-19-2008 | 09-19-2008
CALIFORNIA | O.F. | J.R.
SH5682-B5

SHELL FACILITY No. 135682
3750 E. 14th Street
Oakland, California

Soil Boring Log
B-5

FIGURE

APPENDIX C
LABORATORY REPORTS
AND CHAIN OF CUSTODY FORMS

Calscience
Environmental
Laboratories, Inc.

August 21, 2008

Kevin McCarthy
Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Subject: **Calscience Work Order No.:** **08-08-0913**
Client Reference: **3750 International Blvd, Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/9/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 3750 International Blvd, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1	**08-08-0913-6-D**	**08/07/08 10:38**	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08 10:07**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	200	50	1		Methyl-t-Butyl Ether (MTBE)	5.8	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	70-130			1,4-Bromofluorobenzene-TPPH	94	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2	**08-08-0913-7-C**	**08/07/08 08:44**	**Aqueous**	**GC/MS WW**	**08/19/08**	**08/20/08 08:07**	**080819L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	3900	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	17	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	6.1	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	1.1	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	108	70-130			1,4-Bromofluorobenzene-TPPH	109	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3	**08-08-0913-8-D**	**08/05/08 14:40**	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08 07:08**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	70-130			1,4-Bromofluorobenzene-TPPH	98	70-130		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 3750 International Blvd, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4	**08-08-0913-9-D**	**08/05/08 15:50**	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08 07:38**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	70-130			1,4-Bromofluorobenzene-TPPH	97	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5	**08-08-0913-10-D**	**08/05/08 17:10**	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08 08:08**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	180	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	70-130			1,4-Bromofluorobenzene-TPPH	92	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	**08-08-0913-11-D**	**08/07/08 00:00**	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08 08:38**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	70-130			1,4-Bromofluorobenzene-TPPH	96	70-130		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants	Date Received: 08/09/08
4640 SW Macadam Ave; Suite 110	Work Order No: 08-08-0913
Portland, OR 97239-4283	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B
	Units: ug/L

Project: 3750 International Blvd, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-715-772**	**N/A**	**Aqueous**	**GC/MS T**	**01/01/95**	**08/15/08 02:10**	**080814L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	70-130			1,4-Bromofluorobenzene-TPPH	93	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-715-786**	**N/A**	**Aqueous**	**GC/MS WW**	**08/19/08**	**08/20/08 03:03**	**080819L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	70-130			1,4-Bromofluorobenzene-TPPH	97	70-130		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

Project: 3750 International Blvd, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1 6'	**08-08-0913-1-A**	**08/07/08 10:18**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 02:23**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	100	70-130			1,4-Bromofluorobenzene-TPPH	100	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2 11'	**08-08-0913-2-A**	**08/07/08 09:05**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 03:35**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	1.5	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	105	70-130			1,4-Bromofluorobenzene-TPPH	104	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3 8'	**08-08-0913-3-A**	**08/05/08 14:50**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 03:59**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	70-130			1,4-Bromofluorobenzene-TPPH	99	70-130		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

Project: 3750 International Blvd, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4 12'	**08-08-0913-4-A**	**08/05/08 15:45**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 04:23**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	70-130			1,4-Bromofluorobenzene-TPPH	97	70-130		

B-5 12'	**08-08-0913-5-A**	**08/05/08 17:00**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 04:47**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	70-130			1,4-Bromofluorobenzene-TPPH	101	70-130		

Method Blank	**099-12-717-164**	**N/A**	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08 01:58**	**080812L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
o-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	70-130			1,4-Bromofluorobenzene-TPPH	99	70-130		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants	Date Received: 08/09/08
4640 SW Macadam Ave; Suite 110	Work Order No: 08-08-0913
Portland, OR 97239-4283	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-0537-2	**Aqueous**	**GC/MS T**	**08/14/08**	**08/15/08**	**080814S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	85	87	70-130	3	0-30	
Ethylbenzene	96	100	70-130	3	0-30	
Toluene	89	93	70-130	4	0-30	
p/m-Xylene	101	103	70-130	2	0-30	
o-Xylene	101	104	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	98	96	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	92	101	70-130	9	0-30	
Diisopropyl Ether (DIPE)	89	100	70-130	12	0-30	
Ethyl-t-Butyl Ether (ETBE)	95	99	70-130	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	93	99	70-130	6	0-30	
Ethanol	85	98	70-130	14	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-1214-4	**Aqueous**	**GC/MS WW**	**08/19/08**	**08/20/08**	**080819S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	84	86	70-130	3	0-30	
Ethylbenzene	83	87	70-130	5	0-30	
Toluene	82	85	70-130	3	0-30	
p/m-Xylene	85	88	70-130	4	0-30	
o-Xylene	85	88	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	104	108	70-130	3	0-30	
Tert-Butyl Alcohol (TBA)	92	88	70-130	5	0-30	
Diisopropyl Ether (DIPE)	91	97	70-130	7	0-30	
Ethyl-t-Butyl Ether (ETBE)	93	98	70-130	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	90	94	70-130	4	0-30	
Ethanol	98	98	70-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants
4640 SW Macadam Ave; Suite 110
Portland, OR 97239-4283

Date Received: 08/09/08
Work Order No: 08-08-0913
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-1 6'	**Solid**	**GC/MS LL**	**08/12/08**	**08/13/08**	**080812S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	87	83	70-130	5	0-30	
Ethylbenzene	99	96	70-130	3	0-30	
Toluene	96	92	70-130	4	0-30	
p/m-Xylene	105	102	70-130	4	0-30	
o-Xylene	106	104	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	90	92	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	83	89	70-130	7	0-30	
Diisopropyl Ether (DIPE)	71	70	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	83	85	70-130	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	83	85	70-130	3	0-30	
Ethanol	70	74	70-130	6	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants	Date Received:	N/A
4640 SW Macadam Ave; Suite 110	Work Order No:	08-08-0913
Portland, OR 97239-4283	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-715-772	Aqueous	GC/MS T	01/01/95	08/15/08	080814L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	86	85	65-135	2	0-30	
Benzene	92	90	70-130	3	0-30	
Ethylbenzene	104	104	70-130	1	0-30	
Toluene	97	94	70-130	3	0-30	
p/m-Xylene	109	106	70-130	2	0-30	
o-Xylene	107	106	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	105	100	70-130	5	0-30	
Tert-Butyl Alcohol (TBA)	106	111	70-130	4	0-30	
Diisopropyl Ether (DIPE)	86	98	70-130	13	0-30	
Ethyl-t-Butyl Ether (ETBE)	99	97	70-130	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	102	98	70-130	4	0-30	
Ethanol	96	100	70-130	4	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants	Date Received:	N/A
4640 SW Macadam Ave; Suite 110	Work Order No:	08-08-0913
Portland, OR 97239-4283	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-715-786	Aqueous	GC/MS WW	08/19/08	08/20/08	080819L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	75	79	65-135	5	0-30	
Benzene	88	100	70-130	13	0-30	
Ethylbenzene	89	99	70-130	10	0-30	
Toluene	89	99	70-130	10	0-30	
p/m-Xylene	90	100	70-130	11	0-30	
o-Xylene	89	100	70-130	12	0-30	
Methyl-t-Butyl Ether (MTBE)	104	112	70-130	7	0-30	
Tert-Butyl Alcohol (TBA)	83	109	70-130	28	0-30	
Diisopropyl Ether (DIPE)	88	101	70-130	14	0-30	
Ethyl-t-Butyl Ether (ETBE)	90	102	70-130	12	0-30	
Tert-Amyl-Methyl Ether (TAME)	93	101	70-130	9	0-30	
Ethanol	92	96	70-130	4	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants	Date Received: N/A
4640 SW Macadam Ave; Suite 110	Work Order No: 08-08-0913
Portland, OR 97239-4283	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 3750 International Blvd, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-717-164	**Solid**	**GC/MS LL**	**08/12/08**	**08/12/08**	**080812L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	91	102	65-135	11	0-30	
Benzene	94	99	70-130	5	0-30	
Ethylbenzene	110	115	70-130	4	0-30	
Toluene	106	110	70-130	4	0-30	
p/m-Xylene	117	122	70-130	4	0-30	
o-Xylene	117	121	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	100	102	70-130	1	0-30	
Tert-Butyl Alcohol (TBA)	114	111	70-130	2	0-30	
Diisopropyl Ether (DIPE)	77	79	70-130	2	0-30	
Ethyl-t-Butyl Ether (ETBE)	90	92	70-130	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	91	92	70-130	1	0-30	
Ethanol	98	99	70-130	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-08-0913

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

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:

INCIDENT # (ENV SERVICES): 9 7 7 6 7 7 8 8 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/7/08

PO #:

SAP #: 1 3 5 6 8 2

PAGE: _____ of _____

SAMPLING COMPANY: Delta Environmental Consultants

LOG CODE:

SITE ADDRESS: Street and City: 3750 International Blvd, Oakland

State: CA

GLOBAL ID NO.:

ADDRESS: 5910 Rice Creek Parkway, Suite 100 St. Paul MN 55126

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Gary Turgeon

TELEPHONE: 651-697-5159

FAX: 651-639-9473

E-MAIL: gturgeon@deltaenv.com

SAMPLER NAME(S) (Print): Marisol Ortiz

LAB USE ONLY: 0913

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

5 oxygenates are MTBE, ETBE, TBA, TAME, DIPE

☑ 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-G/BTEX/Shell Oxys and ethanol by EPA 8260	TPH-D by 8015M	Full list VOCs	Oil & Grease (1664)	CAM 17 Metals (6000/7000)	PNAs and creosote (8270C-sim)	1,2 DCA and EDB by EPA 260B	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
	B-1 6'	8/7/08	10:18	Soil				✓		1	✓							
	B-2 11'	8/7/08	9:05	Soil				✓		1	✓							
	B-3 8'	8/5/08	14:50	Soil				✓		1	✓							
	B-4 12'	8/5/08	15:45	Soil				✓		1	✓							
	B-5 12'	8/5/08	17:00	Soil				✓		1	✓							
	B-1	8/7/08	10:38	GW	✓					4	✓							
	B-2	8/7/08	8:44	GW	✓					4	✓							
	B-3	8/5/08	14:40	GW	✓					4	✓							
	B-4	8/5/08	15:50	GW	✓					4	✓							
	B-5	8/5/08	17:10	GW	✓					4	✓							

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	08/08/08	7:30 am
GSO	[signature] CEL	08/09/08	8:45

05/2/08 Revision

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:

INCIDENT # (ENV SERVICES): 97762788 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/7/08

PAGE: _____ of _____

PO #:

SAP #: 135682

SAMPLING COMPANY: Delta Environmental Consultants	LOG CODE:	SITE ADDRESS: Street and City: 3750 International Blvd, Oakland	State: CA / GLOBAL ID NO.:
ADDRESS: 5910 Rice Creek Parkway, Suite 100 St. Paul MN 55126		EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.: / E-MAIL: / CONSULTANT PROJECT NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): Gary Turgeon		SAMPLER NAME(S) (Print): Marisol Ortiz	LAB USE ONLY: 09913
TELEPHONE: 651-697-8159 / FAX: 651-639-8473 / E-MAIL: gturgeon@deltaenv.com			

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKE

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

5 oxygenates are MTBE, ETBE, TBA, TAME, DIPE

- ☑ 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-G/BTEX/Shell Oxys and ethanol by EPA 8260	TPH-D by 8015M	Full list VOCs	Oil & Grease (1664)	CAM 17 Metals (6000/7000)	PNAs and creosote (8270C-sim)	1,2 DCA and EDB by EPA 260B	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
	TRIP BLANK									4	✓								

Relinquished by: (Signature) Marisol Ortiz	Received by: (Signature)	Date: 08/08/08	Time: 1:30 pm
Relinquished by: (Signature) GSO	Received by: (Signature) Michael Yuan CEL	Date: 08/09/08	Time: 8:45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/05 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 08 - 0913

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Delta **DATE:** 08-09-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter only).

___.___ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.5 °C Temperature blank.
___.___ °C IR thermometer.
_____ Ambient temperature (For Air & Filter only).

Initial: MH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: MH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: MH

COMMENTS:

APPENDIX D

COPIES of WASTE DISPOSAL MANIFESTS

(as applicable and available)

THIS ATTACHMENT HAS BEEN LEFT BLANK INTENTIALLY. THE DOCUMENTS ASSOCIATED WITH THE DISPOSAL OF SOIL FOR THIS PHASE II ESA WERE NOT AVAILABLE AT THE TIME THE REPORT WAS WRITTEN.