April 10, 2001

Larry Seto Alameda Health Care Services Agency 1131 Harbor Bay Parkway, Room 250 Oakland, California 94502-6577

Re:

Site Investigation Report

Former Shell-branded Service Station 2160 Otis Drive Alameda, California Incident # 98995140 Cambria Project # 243-0627

APR 1 3 2007



Dear Mr. Seto:

Cambria Environmental (Cambria) has prepared this report on behalf of Equiva Services LLC. The work was performed in response to a February 10, 1998 Alameda County Health Care Service Agency (ACHCSA) letter requesting the installation of one groundwater monitoring well downgradient of the former onsite underground fuel storage tanks (USTs). The investigation was delayed due to construction of an OfficeMax onsite and access negotiations with the property owner. The investigation was performed in accordance with Cambria's March 25, 1998 work plan and included installation of one groundwater monitoring well in the downgradient direction from the former USTs and product dispensers. The site background and investigation results are presented below.

SITE BACKGROUND

This former Shell Service Station is located on Otis Drive, between Willow and Park Streets, in Alameda, California approximately 3,000 feet east of San Francisco Bay. Shell discontinued operation of the station in September 1997, demolished the aboveground facilities, and removed the USTs and piping.

Based on the results of more than five years of groundwater monitoring, the ACHCSA granted no further action status on November 14, 1995 for a waste-oil tank release. During the groundwater monitoring between 1989 and 1995, the depth to groundwater at this site varied between 3 and 5 feet with a flow direction of north-northeast. Groundwater samples

Oakland, CA San Ramon, CA Sonoma, CA

Cambria Environmental Technology, Inc.

1144 65th Street Suite B Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

collected from former wells MW-1 and MW-2 on October 11, 1994 contained over 6,500 milligrams per liter of total dissolved solids, which exceeds state guidelines for use as a drinking water source.

August 1997 Pre-Characterization Sampling: On August 1, 1997, soil samples were collected near the gasoline tanks to pre-characterize soils before the tanks were removed. Of the 40 samples analyzed, the maximum benzene concentration was 0.15 milligrams per kilogram (mg/kg). No benzene was detected in 35 of the samples. The maximum total petroleum hydrocarbons as gasoline (TPHg) detected in the samples was 46 mg/kg. No TPHg was detected in 30 of the samples.



September 1997 Tank Removal Sampling: On September 4, 1997, Paradiso Mechanical of San Leandro, California removed three 10,000-gallon fiberglass gasoline USTs and one 550-gallon fiberglass waste-oil tank, as well as associated gasoline product piping, vent piping, and dispensers. Cambria collected soil samples from near the ends of the former gasoline tanks and the waste-oil tank. Grab groundwater samples were collected from the gasoline tank and the waste-oil tank excavations. Cambria also collected six soil samples from beneath the former dispensers and product piping and one soil sample from beneath each of two former hoists and the former garage oil/water separator. The tank removal and sampling activities were documented in Cambria's October 3, 1997 Tank Removal and Sampling Report. Although petroleum hydrocarbons were detected in the grab groundwater samples from both tank pits, no petroleum hydrocarbons were detected in the soil sample from near the waste oil tank pit and only low petroleum hydrocarbons (no TPHg, maximum 0.11 mg/kg benzene, maximum 0.49 mg/kg methyl tert-butyl ether [MTBE]) were reported (by EPA Method 8020) in the soil samples collected around the gasoline tank pit. Maximum concentrations of 270 mg/kg TPHg, 1.7 mg/kg benzene, and 0.32 mg/kg MTBE were detected in shallow soil samples collected beneath the former dispensers.

December 1997 Geoprobe® Investigation: On December 17, 1997, Cambria collected soil and/or grab groundwater samples from Geoprobe® G-1 through G-5. The complete sampling activities and analytical results are documented in Cambria's January 28, 1998 Investigation Report. No TPHg, total extractable petroleum hydrocarbons as diesel (TPHd), or benzene, toluene, ethylbenzene or total xylenes (BTEX) were detected in any of the soil samples from near the former gasoline tanks, waste oil tank, or from the northern corner of the property. One soil sample collected near the gasoline tank pit contained 0.28 mg/kg of MTBE by (EPA Method 8020). No MTBE was detected in any other soil sample collected from any location onsite. Of the four soil samples collected from the former dispenser areas, only one contained detectable concentrations of TPHg (5.2 mg/kg) or benzene (0.0059 mg/kg).

No TPHg, BTEX, or MTBE were detected in the grab groundwater sample collected from the northern corner of the site. Maximum concentrations of 2,900 μ g/kg (parts per billion) TPHg, 240 μ g/kg benzene, and 920 μ g/kg MTBE (by EPA Method 8020) were detected in the two grab groundwater samples collected directly downgradient of the former dispensers and gasoline tanks.

INVESTIGATION PROCEDURES



Using a hollow-stem auger drill rig, Cambria installed one 2-inch diameter monitoring well onsite. The well location is shown on Figure 1. Cambria's *Standard Field Procedures for Monitoring Wells* are included as Attachment A.

Permit: Monitoring well installation permit # W00-576 was obtained from the City of Oakland. A copy of the permit is included as Attachment B.

Drilling Date: November 2, 2000.

Drilling Company: Gregg Drilling of Martinez, California (C-57 License #485165).

Personnel Present:	Title:	Company:
Shannon Couch	Staff Geologist	Cambria
Rich Nessinger	Driller	Gregg Drilling

Soil Lithology: The area is underlain primarily by sands and silty sands to a depth of approximately 19.5 feet below grade (fbg), the maximum explored depth onsite. The well log is included as Attachment C.

Soil Sampling: During well installation activities, Cambria collected soil samples at approximately five-foot intervals to the depth of first-encountered groundwater. Soil samples were collected using a split-spoon sampling device. All samples were submitted to Sequoia Analytical of Morgan Hill, California for chemical analyses. Analytical results for soil samples are summarized in Table 1. Laboratory analytical results are presented as Attachment D.

Groundwater: Groundwater was first observed in MW-3 at approximately 15.5 fbg. Groundwater stabilized at approximately 8.5 fbg during the well installation activities.

Laboratory Analyses: Soil samples from MW-3 were analyzed for:

- TPHg and TPHd by EPA Method 8015, and
- BTEX and MTBE by EPA Method 8020.

Analytical results for soil samples are summarized in Table 1. Laboratory analytical reports are presented as Attachment D.

Well Development and Sampling: The well was properly developed and sampled by Blaine Tech Services (Blaine) of San Jose, California in March 2001. The well will be sampled quarterly and groundwater monitoring results will be presented in forthcoming quarterly monitoring reports. During each sampling event, Blaine will gauge and collect samples from MW-3 and submit them to a State-certified laboratory for analyses. Groundwater samples from MW-3 will be analyzed using the same EPA methods used for soil samples during this investigation.

Soil Disposal: Drill cuttings from this project were stored onsite in a secure 55-gallon drum prior to subsequent characterization and disposal at Forward landfill in Manteca, California. The soil cuttings analytical data is presented as Attachment E.

FINDINGS

No TPHg, BTEX or MTBE were detected in any soil samples collected. TPHd was detected at 7.00 mg/kg in soil sample MW-3 at 6.5 fbg. Laboratory analytical results for soil samples are summarized in Table 1. Laboratory analytical reports are included in Attachment D.



CLOSING

We appreciate the opportunity to work with you on this project. Please call Stephan Bork at (510) 420-3344 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

3

Troy Buggle
Project Scientist

Stephan Bork, C.E.G., C.HG. Associate Hydrogeologist

STEPHAN A. BORK OF STEPHAN A. BORK OF CERTIFIED ENGINEERING GEOLOGIST OF CALL

Figure:

1 - Site Plan

Table:

1 - Soil Analytical Data

Attachments:

A - Standard Procedures for Monitoring Wells

B - Drilling Permit

C - Well Log

D - Laboratory Analytical Results for Soil and Groundwater Samples

E - Soil Cuttings Laboratory Analytical Results

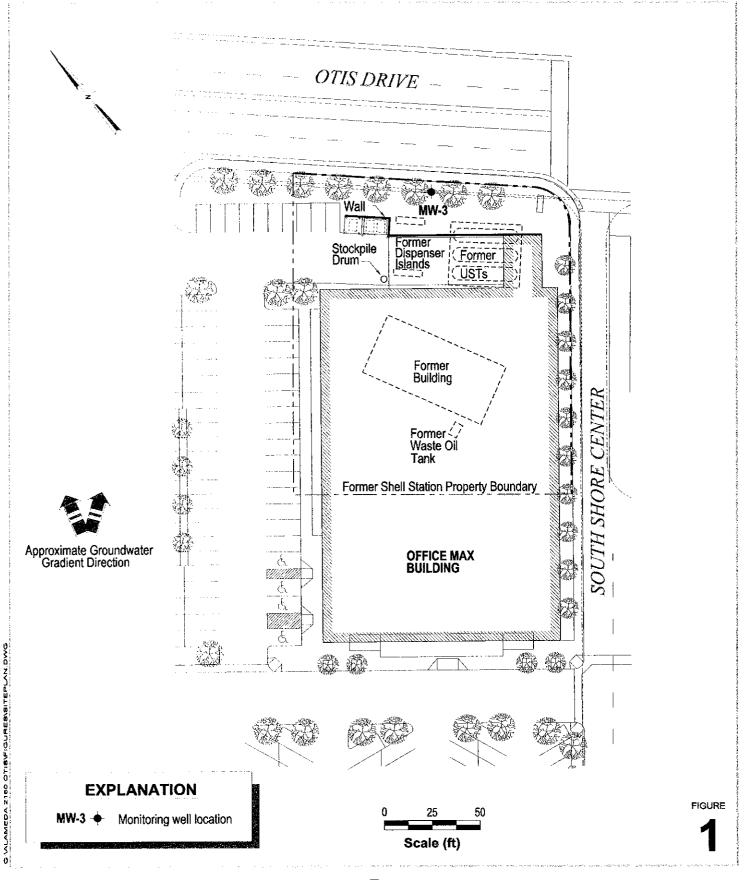
cc:

Ms. Karen Petryna, Equiva Service LLC, P.O. Box 7869, Burbank, CA 91510-

7869

Mr. Preston Niette, Harsch Investment Group, 523 W. Plaza, Alameda, CA 94501

g:\Alameda2160\InvReport3-2001.rtf



Former Shell Service Station

2160 Otis Street Alameda, California Incident #98995140



Site Plan

CAMBRIA

Table 1. Soil Analytical Data - Former Shell Service Station, Incident # 98995140, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg ←	TPHd Concer	MTBE	Benzene d in milligrams j	Toluene oer kilogram (m	Ethylbenzene g/kg or ppm)	Xylenes
MW-3-6.5	6.5	11/2/00	<1.00	7.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3-10.5	10.5	11/2/00	<1.00	<1.00	< 0.0500	< 0.00500	< 0.00500	< 0.00500	, <0.00500
MW-3-17.5	17.5	11/2/00	<1.00	<1.00	< 0.0500	< 0.00500	< 0.00500	< 0.00500	< 0.00500

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

All analyses performed by EPA Method 8260B

<n = Below detection limit of n mg/kg

NA = not analyzed

ATTACHMENT A

Standard Field Procedures for Monitoring Wells

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document describes Cambria Environmental Technology's standard field methods for drilling, installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Well Construction and Surveying

Groundwater monitoring wells are installed in soil borings to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security. The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

ATTACHMENT B

Drilling Permit



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST STR. HAYWARD, CM 94544
THONE (SIB) 670-5554
FAX (SIB) 782-1939

DRILLING PERM	AIT APPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT 2160 OTIS DEIVE ALAMERA CA (FORMER SHELL STATION)	FOR OFFICE USE FOR OFFICE APPLICATIONS Circled Permit Requirements Apply
CLIENT Name EQUIVA SERVICES LLC Address POARY TOLON Phone City DALVOOR Zip 0150 APPLICANT Name CAMBRIA ENVIONMENTAL TECHNOLOGY INC. Fix 510.420.9170 Address 1144 (05TM STREET SYTE Phone 510.420.0700 City DAVIAND, CL Zip DA (600) TYPE OF PROJECT Well Construction General Ocheral Cathodic Protection D Central Water Supply	Permit is void if project not begun within 90 days of approval date. Permit is void if project not begun within 90 days of approval date. E. WATER SUPPLY WELLS I. Minimum surface scal thickness is two inches of cement grout placed by tremis. Minimum scal depth is 50 feet for municipal and industrial wells or 20 feet for damestic and trigation.
Manitoring Well Destruction PROPOSED WATER SUPPLY WELL USE New Domestic D Replacement Domestic D Municipal II Irrigation D Industrial D Other D PRILLING METHOD: Mud Rotary D Air Rosary D Auger H Cable D Other D DRILLER'S LICENSE NO. 657 - 495-165 WELL PROJECTS Drill Hole Diameter T in. Maximum 5	wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS I. Minimum surface seal thickness is two inches of ecoment yout placed by tremie. 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. D. GEOTECHNICAL Backfill bore hale with compacted cultings or heavy bentonite and upper two feet with compacted material in areas of known or suspected contamination. Framish seement grout shall be used in place of compacted cultings. E. CATHODIC Fill hale above anode zone with concrete placed by tramie. F. WELL DESTRUCTION
Casing Diameter 11. Depth Number NW1 GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depth 11. ESTIMATED STARTING DATE OCT.100 ESTIMATED COMPLETION DATE OCT.100 I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	SCO BRECIAL CONDITIONS G. SPECIAL CONDITIONS APPROVEDDATE

ATTACHMENT C

Well Log

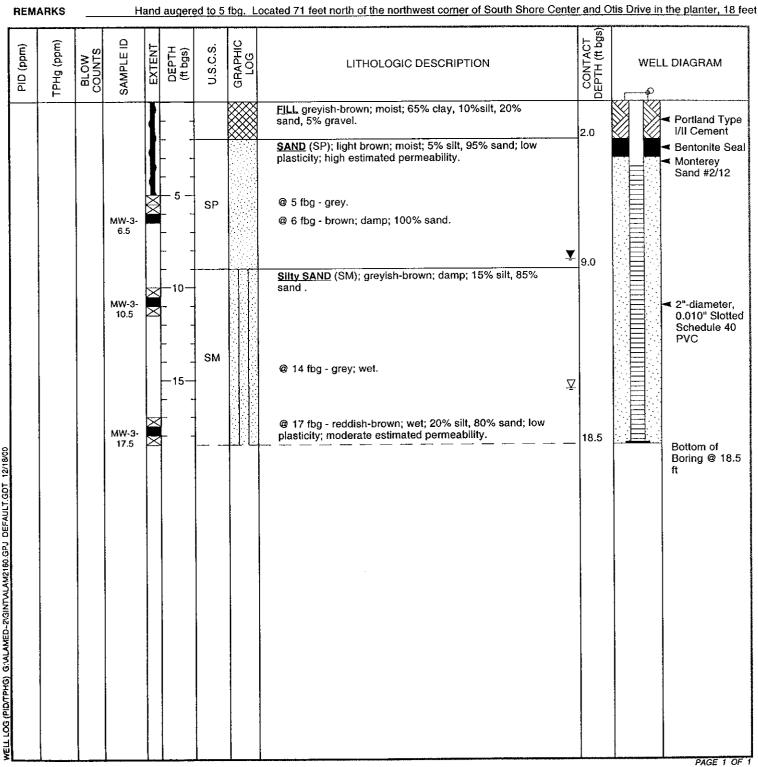


Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

BORING/WELL LOG

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

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME MW-3
JOB/SITE NAME	Office Max	DRILLING STARTED 02-Nov-00
LOCATION	2160 Otis Drive, Alameda, CA	DRILLING COMPLETED 02-Nov-00
PROJECT NUMBER _	242-0627	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER _	Gregg Drilling	GROUND SURFACE ELEVATION
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION NA
BORING DIAMETER	8"	SCREENED INTERVAL 3.5 to 18.5 ft bgs
LOGGED BY	S. Couch	DEPTH TO WATER (First Encountered) 15.5 ft (02-Nov-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static) 8.5 ft (02-Nov-00)
REMARKS	Hand augered to 5 fbg. Located 71 feet north of	the northwest corner of South Shore Center and Otis Drive in the planter, 18 f
(m)	G F 8 S F 8	S S S S S S S S S S S S S S S S S S S



ATTACHMENT D

Laboratory Analytical Reports for Soil and Groundwater Samples



November 17, 2000

Troy Buggle Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608

RE: Shell(1)/L011052

Dear Troy Buggle:

Enclosed are the results of analyses for sample(s) received by the laboratory on November 3, 2000. If you have any questions concerning this report, please feel free to contact me.

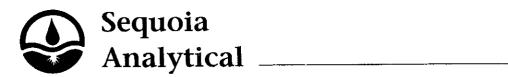
Sincerely,

Latonya Pelt Project Manager

CA ELAP Certificate Number I-2360

tonya K. Pelt





Cambria Environmental	Project: S	Shell(1)	Sampled:	11/2/00
1144 65th St., Suite C.	Project Number: 2	2160 Otis Drive, Alameda	Received:	11/3/00
Oakland, CA 94608	Project Manager: 1	roy Buggle	Reported:	11/17/00

ANALYTICAL REPORT FOR L011052

Sample Description	Laboratory Sample Number	Sample Matrix	i Date Sampled
MW-3-6.5	L011052-01	Soil	11/2/00
MW-3-10.5	L011052-02	Soil	11/2/00
MW-3-17.5	L011052-03	Soil	11/2/00



Cambria EnvironmentalProject:Shell(1)Sampled:11/2/001144 65th St., Suite C.Project Number:2160 Otis Drive, AlamedaReceived:11/3/00Oakland, CA 94608Project Manager:Troy BuggleReported:11/17/00

 ${\bf Sample\ Description:}$

Laboratory Sample Number:

MW-3-6.5 L011052-01

							r	
	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		<u>Sequa</u>	ia Analytica	<u>- San Carlos</u>				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	0110054	11/10/00	11/11/00		1.00	ND	mg/kg	
Benzene	II	IP.	11		0.00500	ND	a a	
Toluene	IF	It	11		0.00500	ND	11	
Ethylbenzene	IF	10	IP.		0.00500	ND	11	
Xylenes (total)	It	U	t)		0.00500	ND	17	
Methyl tert-butyl ether	10	н	n		0.0500	ND	19	
Surrogate: a,a,a-Trifluorotoluene	,,	<i>n</i>	"	60.0-140		84.0	%	
Diesel Hydrocarbons (C9-C24) by DH	S LUFT							
Diesel Range Hydrocarbons	0K13033	11/13/00	11/15/00	DHS LUFT	1.00	7.00	mg/kg	1
Surrogate: n-Pentacosane	и	"	п	50-150		126	%	





Cambria EnvironmentalProject:Shell(1)Sampled:11/2/001144 65th St., Suite C.Project Number:2160 Otis Drive, AlamedaReceived:11/3/00Oakland, CA 94608Project Manager:Troy BuggleReported:11/17/00

Sample Description: Laboratory Sample Number: MW-3-10.5 L011052-02

Laboratory Sample Number:	L011032-02						;		
Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*	
				9					
		Seque	ia Analytica	l - San Carlos					
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT						
Purgeable Hydrocarbons as Gasoline	0110054	11/10/00	11/11/00		1.00	ND	mg/kg		
Benzene	11	н	10		0.00500	ND	11		
Toluene	1 1	н			0.00500	ND	lt.		
Ethylbenzene	•1	н	II .		0.00500	ND	If		
Xylenes (total)	41	Ħ	10		0.00500	ND	II.		
Methyl tert-butyl ether	11	н	II		0.0500	ND	11		
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		93.0	%		
Diesel Hydrocarbons (C9-C24) by DH	IS LUFT								
Diesel Range Hydrocarbons	0K13033	11/13/00	11/15/00	DHS LUFT	1.00	ND	mg/kg		
Surrogate: n-Pentacosane	"	"	"	50-150		89.8	%		





Cambria Environmental 1144 65th St., Suite C.

Oakland, CA 94608

Project: Shell(1)

Project Number: 2160 Otis Drive, Alameda

Sampled: 11/2/00 Received: 11/3/00

Project Manager: Troy Buggle

Reported: 11/17/00

Sample Description:

MW-3-17.5

Laboratory Sample Number:

L011052-03

							\$	
	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		^						
				l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	<u>12), BTEX an</u>	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	0110054	11/10/00	11/11/00		1.00	ND	mg/kg	
Benzene	"	11	10		0.00500	ND	11	
Toluene	11	17	O		0.00500	ND	11	
Ethylbenzene	11	11	ti		0.00500	ND	It.	
Xylenes (total)	11	11	Ħ		0.00500	ND	19	
Methyl tert-butyl ether	II .	н	**		0.0500	ND	н	
Surrogate: a,a,a-Trifluorotoluene	11	"	"	60.0-140		85.0	%	
Diesel Hydrocarbons (C9-C24) by DH	S LUFT							
Diesel Range Hydrocarbons	0K13033	11/13/00	11/15/00	DHS LUFT	1.00	ND	mg/kg	
Surrogate: n-Pentacosane	11	"	"	50-150		89.8	%	



Cambria EnvironmentalProject:Shell(1)Sampled:11/2/001144 65th St., Suite C.Project Number:2160 Otis Drive, AlamedaReceived:11/3/00Oakland, CA 94608Project Manager:Troy BuggleReported:11/17/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequois Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% N	lotes*
					.		. 5030D (n/m		
Batch: 0110054	Date Prepa		<u>0</u>	Extraction Method: EPA 5030B [P/T]						
Blank	0110054-BI	<u>.K1</u>		***		1.00				
Purgeable Hydrocarbons as Gasoline	11/9/00			ND	mg/kg	1.00				
Benzene	11			ND	#1	0.00500				
Toluene	ft.			ND	11	0.00500				
Ethylbenzene	11			ND	111	0.00500				
Xylenes (total)	11			ND	11	0.00500				
Methyl tert-butyl ether	11			ND	11	0.0500				
Surrogate: a,a,a-Trifluorotoluene	n .	0.200		0.215	H	60.0-140	108			
Blank	<u>0110054-Bl</u>	L <u>K2</u>								
Purgeable Hydrocarbons as Gasoline	11/10/00			ND	mg/kg					
Benzene	11			ND	11	0.00500				
Toluene	19			ND	0	0.00500				
Ethylbenzene	III			ND	11	0.00500				
Xylenes (total)	н			ND	Ħ	0.00500				
Methyl tert-butyl ether	Ħ			ND	Ħ	0.0500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.245	H	60.0-140	123			
Blank	0110054-B	LK3								
Purgeable Hydrocarbons as Gasoline	11/13/00			ND	mg/kg	1.00				
Benzene	Ħ			· ND	H	0.00500				
Toluene	41			ND	11	0.00500				
Ethylbenzene	11			ND	1t	0.00500				
Xylenes (total)	11			ND	IF	0.00500				
Methyl tert-butyl ether	11:			ND	ii.	0.0500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.257	"	60.0-140	128			
LCS	0110054-B	<u>S1</u>								
Benzene	11/9/00	0.200		0.235	mg/kg	70.0-130	117			
Toluene	tr.	0.200		0.210	11	70.0-130	105			
Ethylbenzene	10	0.200		0.214	11	70.0-130	107			
Xylenes (total)	tt	0.600		0.605	н	70.0-130	101			
Surrogate: a,a,a-Trifluorotoluene	ff .	0.200		0.236	Ħ	60.0-140	118			
LCS	0110054-B	<u>S2</u>								
Purgeable Hydrocarbons as Gasoline	11/9/00	5.00		4.87	mg/kg	70.0-130	97.4			
Surrogate: a,a,a-Trifluorotoluene	H	0.200		0.225	"	60.0-140	112			
LCS	0110054-B	S3								
Benzene	11/10/00	0.200		0.242	mg/kg	70.0-130	121			
Toluene	11/10/00	0.200		0.224	11	70.0-130				

Sequoia Analytical - San Carlos

*Refer to end of report for text of notes and definitions.



Cambria Environmental	Project:	Shell(1)	Sampled: 11/2/00
1144 65th St., Suite C.	Project Number:	2160 Otis Drive, Alameda	Received: 11/3/00
Oakland, CA 94608	Project Manager:	Troy Buggle	Reported: 11/17/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
LCS (continued)	<u>0110054-BS</u>	•								
Ethylbenzene	11/10/00	0.200		0.230	mg/kg	70.0-130	115			
Xylenes (total)		0.600		0.662	11	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	n	0.200		0.242	n	60.0-140	121			÷
LCS	0110054-BS	<u>84</u>								
Purgeable Hydrocarbons as Gasoline	11/10/00	5.00		4.51	mg/kg		90.2			
Surrogate: a,a,a-Trifluorotoluene	tt	0.200		0.201	H	60.0-140	101			
LCS	0110054-B	<u>85</u>								
Benzene	11/13/00	0.200		0.235	mg/kg	70.0-130				
Toluene	11	0.200		0.217	н	70.0-130	108			
Ethylbenzene	11	0.200		0.225	Ħ	70.0-130	112			
Xylenes (total)	If .	0.600		0.634	11	70.0-130	106	···		
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.248	11	60.0-140	124			
LCS	0110054-B	<u>86</u>								
Purgeable Hydrocarbons as Gasoline	11/13/00	5.00		4.83	mg/kg	70.0-130				
Surrogate: a,a,a-Trifluorotoluene	H	0.200		0.211	11	60.0-140	105			
Matrix Spike	0110054-M	<u>sı 1</u>	<u>.011097-01</u>							
Purgeable Hydrocarbons as Gasoline	11/10/00	5.00	ND	5.93	mg/kg	60.0-140				
Surrogate: a,a,a-Trifluorotoluene	0	0.200		0.176	"	60.0-140	88.0			
Matrix Spike Dup	0110054-M	SD1 I	<u>.011097-01</u>							
Purgeable Hydrocarbons as Gasoline	11/10/00	5.00	ND	4.91	mg/kg			25.0	19.2	
Surrogate: a,a,a-Trifluorotoluene	H	0.200		0.166	"	60.0-140	83.0			



Cambria EnvironmentalProject:Shell(1)Sampled:11/2/001144 65th St., Suite C.Project Number:2160 Otis Drive, AlamedaReceived:11/3/00Oakland, CA 94608Project Manager:Troy BuggleReported:11/17/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control Sequola Analytical - Morgan Hill

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0K13033	Date Prepa	red: 11/13	<u>/00</u>		Extract	ion Method: EP.	A 3580A			
Blank	0K13033-B	LK1								
Diesel Range Hydrocarbons	11/15/00			ND	mg/kg	1.00				
Surrogate: n-Pentacosane	"	1.67	·	1.60	#	50-150	95.8			
LCS	<u>0K13033-B</u>	<u>S1</u>								
Diesel Range Hydrocarbons	11/15/00	16.7		18.6	mg/kg	60-140	111			
Surrogate: n-Pentacosane	"	1.67		1.80	"	50-150	108			
Matrix Spike	0K13033-M	<u>1S1 MJ</u>	(K0272-01							
Diesel Range Hydrocarbons	11/15/00	16.7	1.00	18.4	mg/kg	50-150	104			
Surrogate: n-Pentacosane	"	1.67		1.70	"	50-150	102			
Matrix Spike Dup	<u>0K13033-M</u>	<u>1SD1 MJ</u>	K0272-01							
Diesel Range Hydrocarbons	11/15/00	16.7	1.00	18.5	mg/kg	50-150		50	0.542	
Surrogate: n-Pentacosane	"	1.67		1.60	tt .	50-150	95.8	6.07		





Cambria EnvironmentalProject:Shell(1)1144 65th St., Suite C.Project Number:2160 Otis Drive, AlamedaOakland, CA 94608Project Manager:Troy Buggle

Sampled: 11/2/00 Received: 11/3/00 Reported: 11/17/00

Notes and Definitions

Note

1 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recovery

RPD Relative Percent Difference

Lab Name: Sequoia (Som Cortos)	EQ	UIVA	A Se	erv	/ic	es	LI	_C	,				С	HA	IN							ORD	
Lab Address:	Company Contact(s)									IN	CID	ENT	NUI	иве	R		DA	TE:	11/	02	2/0	0	
La Tonya (PM) TEL: (SO) Z32 9600 FAX: () EQUIVA PROJECT CONSULTANT (Name and Company): Toy B. CAMBRIA ENVIRONMENTAL T ADDRESS;	Tray Buga	1/e_	•					Ì	a	છ	a	G	5	1	1	Λ	PA	GE:					
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CAMBRA LNU FORMENTAL	ECHNO OCY	JNC				RESS:			_	T	~	, -			Δ.				_	7 .			
ADDRESS: 144 65TH STREET	<u> </u>	1.110	<u> </u>			ONTACT						√ ⊏	-		7,0	<u> </u>	CON	SULTA	NT PR	OECT	NO.:		
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10 DAYS 5 DAYS 72 HR 48 HR	24 HR] <24 HF	₹							F	REC	UES	STE	D AJ	NAL	.YSI	S						
☐ LA-RWQCB REPORT FORMAT UST AGENC	Y:		/					£ l														· · · · · ·	
MTBE CONFIRMATION: HIGHEST HIGHEST	per BORING	ALL_'V					Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)								(TO-15)			946)	^		L A	
SPECIAL INSTRUCTIONS OR NOTES: TEMPER	RATURE ON RECEIP	T (C)					8 (8 <u>′</u>	3) se	ote								(TO-15)		io l			Field PID/Reading or Laboratory Notes	
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JAB JUSE Field Sample Identification	SAMPLING	MAT-	NO. OF	H. P		BTEX / MTBE (8021B)	BTEX/MTBE	ន	MTBE Confirmation, See	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Methane (RSK-175)	Ferrous Iron +2	Sulfate, Nitrate (300.0)	Vapor VOCs	Vapor VOCs Full List	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-	Ogher:	3	İ
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ATTACHMENT E

Soil Cuttings Results

22 November, 2000

Troy Buggle Cambria - Oakland (Shell) 1144 65th St. Suite C Oakland, CA 94608

RE: Shell (8 or more day TAT) Sequoia Report: MJK0277

Enclosed are the results of analyses for samples received by the laboratory on 11/03/00 11:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson Client Services Manager

CA ELAP Certificate #1210



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequolalabs.com

Cambria - Oakland (Shell)

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received]
SP-1	MJK0277-01	Soil	11/02/00 00:00	11/03/00 11:20	_
SP-2	MJK0277-02	Soil	11/02/00 00:00	11/03/00 11:20	
SP-3	MJK0277-03	Soil	11/02/00 00:00	11/03/00 11:20	
SP-4	MJK0277-04	Soil	11/02/00 00:00	11/03/00 11:20	
SP-(1,2,3,4)	MJK0277-05	Soil	11/02/00 00:00	11/03/00 11:20	

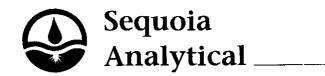
Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wayne Stevenson, Client Services Manager



Reported:



Cambria - Oakland (Shell)

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle 11/22/00 08:45

Diesel Hydrocarbons (C9-C24) by DHS LUFT

		-5 111-						
Analyte Result	Reporting Limit	Units D	ilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (MJK0277-01) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20						
Diesel Range Hydrocarbons 2.40	1.00	mg/kg	1	0K13033	11/13/00	11/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane	89.8 %	50-150		"	н	n	"	
SP-2 (MJK0277-02) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20						
Diesel Range Hydrocarbons 1.90	1.00	mg/kg	t	0K13033	11/13/00	11/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane	89.8 %	50-150		н	H	n	"	
SP-3 (MJK0277-03) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20						
Diesel Range Hydrocarbons 4.70	1.00	mg/kg	1	0K13033	11/13/00	11/15/00	DHS LUFT	D-15
Surrogate: n-Pentacosane	102 %	50-150		<i>n</i>	п	"	и	
SP-4 (MJK0277-04) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20						
Diesel Range Hydrocarbons 4.50	1.00	mg/kg	1	0K13033	11/13/00	11/15/00	DHS LUFT	D-15
Surrogate. n-Pentacosane	89.8 %	50-150		"	n	"	n	



Reported:

Cambria - Oakland (Shell)

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle 11/22/00 08:45

Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-(1,2,3,4) (MJK0277-05) Soil	Sampled: 11/02/00 00:00	Receive	ed: 11/03	/00 11:20					
l ead	ND	10.2	mø/kø	1	0K13012	11/13/00	11/14/00	EPA 6010A	





1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

STLC CAM Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Morgan Hill

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-(1,2,3,4) (MJK0277-05) Soil	Sampled: 11/02/00 00:00	Receive	d: 11/03	/00 11:20					
Lead	ND	0.200	mg/l	1	0K14020	11/13/00	11/14/00	EPA 6010A	







1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

Total Purgeable Hydrocarbons by DHS LUFT Sequoia Analytical - San Carlos

Analyte Result	Reporting Limit	Units Dilutio	n Batch	Prepared	Analyzed	Method	Notes
SP-1 (MJK0277-01) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20					
Purgeable Hydrocarbons as Gasoline ND	1.00	mg/kg 1	0110078	11/14/00	11/15/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene	91.5 %	60.0-140	"	"	"	n	
SP-2 (MJK0277-02) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20					
Purgeable Hydrocarbons as Gasoline ND	1.00	mg/kg 1	0110078	11/14/00	11/15/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene	82.5 %	60.0-140	"	"	"	"	
SP-3 (MJK0277-03) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20					
Purgeable Hydrocarbons as Gasoline ND	1.00	mg/kg 1	0110078	11/14/00	11/15/00	DHS LUFT	******
Surrogate: a,a,a-Trifluorotoluene	87.5 %	60.0-140	#	"	"	"	
SP-4 (MJK0277-04) Soil Sampled: 11/02/00 00:00	Received: 11/0	3/00 11:20					
Purgeable Hydrocarbons as Gasoline ND	1.00	mg/kg l	0110078	11/14/00	11/15/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene	80.0 %	60.0-140	"	"	"	"	





Project: Shell (8 or more day TAT)

1144 65th St. Suite C Oakland CA, 94608 Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

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BTEX by DHS LUFT

Sequoia Analytical - San Carlos

		_							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-(1,2,3,4) (MJK0277-05) Soil	Sampled: 11/02/00 0	0:00 Receive	ed: <u>11/03/00</u>	11:20_					
Benzene	ND	0.00500	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	
Toluene	ND	0.00500	п	41	41	11	Ħ	11	
Ethylbenzene	ND	0.00500	ш	п	п	II	**	п	
Xylenes (total)	ND	0.00500	it		lt		**		
Surrogate: a a a-Trifluorotoluene		90.0 %	60.0-1	40	"	"	#	"	





Surrogate: a,a,a-Trifluorotoluene

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported:

11/22/00 08:45

MTBE by DHS LUFT

Sequoia Analytical - San Carlos

									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	 Notes

60.0-140

SP-(1,2,3,4) (MJK0277-05) Soil Sampled: 11/02/00 00:00 Received: 11/03/00 11:20

Methyl tert-butyl ether ND 0.0500 mg/kg 1 0110078 11/14/00 11/15/00 DHS LUFT

90.0 %





1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Reported: 11/22/00 08:45

Project Manager: Troy Buggle

Organic Lead by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-(1,2,3,4) (MJK0277-05) Soil	Sampled: 11/02/00 00:00	Receive	ed: 11/03.	/00 11:20					
Organic Lead	ND	1.0	mg/kg	5	0K13019	11/13/00	11/14/00	DHS LUFT	

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K13033 - EPA 3580A									·	
Blank (0K13033-BLK1)				Prepared:	11/13/00	Analyzed:	11/15/00			
Diesel Range Hydrocarbons	ND	1.00	mg/kg							
Surrogate: n-Pentacosane	1.60			1.67		95.8	50-150			
LCS (0K13033-BS1)				Prepared:	11/13/00	Analyzed:	11/15/00			
Diesel Range Hydrocarbons	18.6	1.00	mg/kg	16.7		111	60-140			
Surrogate: n-Pentacosane	1.80		и	1.67		108	50-150			
Matrix Spike (0K13033-MS1)	So	urce: MJK02	272-01	Prepared:	11/13/00	Analyzed:	11/15/00			
Diesel Range Hydrocarbons	18.4	1.00	mg/kg	16.7	1.00	104	50-150			
Surrogate: n-Pentacosane	1.70		"	1.67		102	50-150			
Matrix Spike Dup (0K13033-MSD1)	So	urce: MJK0	272-01	Prepared:	11/13/00	Analyzed:	11/15/00			
Diesel Range Hydrocarbons	18.5	1.00	mg/kg	16.7	1.00	105	50-150	0.542	50	
Surrogate: n-Pentacosane	1.60		"	1.67		95.8	50-150			

1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported:

11/22/00 08:45

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K13012 - EPA 3050B										
Blank (0K13012-BLK1)				Prepared	: 11/13/00	Analyzed	: 11/14/00			
Lead	ND	10.0	mg/kg							
LCS (0K13012-BS1)				Prepared	: 11/13/00	Analyzed	: 11/14/00			
Lead	52.2	10.0	mg/kg	50.0		104	80-120			
Matrix Spike (0K13012-MS1)	Sou	rce: MJK0	372-01	Prepared	: 11/13/00	Analyzed	: 11/14/00			
Lead	128	10.2	mg/kg	51.0	19.6	213	80-120			Q-(
Matrix Spike Dup (0K13012-MSD1)	Sou	rce: MJK0	372-01	Prepared	: 11/13/00	Analyzed	: 11/14/00			
Lead	117	9.71	me/ke	48.5	19.6	201	80-120	8.98	20	Q-(





Project: Shell (8 or more day TAT)

1144 65th St. Suite C

Project Number: 2160 Otis Dr., Alameda CA

Reported:

Oakland CA, 94608

Project Manager: Troy Buggle

11/22/00 08:45

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K14020 - Title 22-STLC										
Blank (0K14020-BLK1)				Prepared	& Analyz	ed: 11/14/	00			
Lead	ND	0.200	mg/l							
Blank (0K14020-BLK2)				Prepared	& Analyz	ed: 11/14/	00			
Lead	ND	0.200	mg/l							
LCS (0K14020-BS1)				Prepared	& Analyz	ed: 11/14/	00		.,	
l ead	2.09	0.200	mg/l	2.00		104	80-120			
Matrix Spike (0K14020-MS1)	So	ource: MJK03	372-01	Prepared	& Analyz	ed: 11/14/	00			
Lead	3.33	0.200	mg/l	2.00	0.716	131	80-120		•	Q-02
Matrix Spike Dup (0K14020-MSD1)	So	ource: MJK0:	372-01	Prepared	& Analyz	ed: 11/14/	00			
Lead	3.36	0.200	mg/l	2.00	0.716	132	80-120	0.897	20	Q-02





1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported:

11/22/00 08:45

Total Purgeable Hydrocarbons by DHS LUFT - Quality Control Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110078 - EPA 5030B [P/T]								-		
Blank (0110078-BLK1)				Prepared	& Analyz	ed: 11/14/	00			
Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.231		#	0.200		116	60.0-140			
LCS (0110078-BS1)		. ,		Prepared	& Analyz	ed: 11/14/	00			
Surrogate: a,a,a-Trifluorotoluene	0.219		mg/kg	0.200		109	60.0-140			
LCS (0110078-BS2)				Prepared	& Analyz	ed: 11/14/	00			,
Purgeable Hydrocarbons as Gasoline	4.70	1.00	mg/kg	5.00		94.0	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.224		"	0.200		112	60.0-140			
Matrix Spike (0110078-MS1)	Sc	ource: MJK0	277-01	Prepared	& Analyz	ed: 11/14/	00			
Surrogate: a,a,a-Trifluorotoluene	0.202		mg/kg	0.200		101	60.0-140			
Matrix Spike Dup (0110078-MSD1)	Sc	ource: MJK0	277-01	Prepared	& Analyz	ed: 11/14/	00			
Surrogate: a,a,a-Trifluorotoluene	0.193		mg/kg	0.200		96.5	60.0-140			



1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

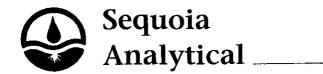
Reported: 11/22/00 08:45

BTEX by DHS LUFT - Quality Control

Sequoia Analytical - San Carlos

	Dagult	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Pimit	Onns	Level	Result	7010120	Limits	NID	1311111	110103
Batch 0110078 - EPA 5030B [P/T]										
Blank (0110078-BLK1)				Prepared	& Analyze	ed: 11/14/	00			
Benzene	ND	0.00500	mg/kg							
Coluenc	ND	0.00500	11							
thylbenzene	ND	0.00500	11							
(ylenes (total)	ND	0.00500	"							
urrogate: a,a,a-Trifluorotoluene	0.231		"	0.200		116	60.0-140			
.CS (0110078-BS1)				Prepared	& Analyze	ed: 11/14/	00			
Benzene	0.225	0.00500	mg/kg	0.200		112	70.0-130			
l'oluene	0.210	0.00500	11	0.200		105	70.0-130			
Ethylbenzene	0.212	0.00500	1¢	0.200		106	70.0-130			
(total)	0.612	0.00500	+*	0.600		102	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.219		"	0.200		109	60.0-140			
LCS (0110078-BS2)	. =			Prepared	& Analyz	ed: 11/14/	00			
Surrogate: a,a,u-Trifluorotoluene	0.224		mg/kg	0.200		112	60.0-140			
Matrix Spike (0110078-MS1)	S	ource: MJK0	277-01	Prepared	& Analyz	ed: 11/14/	' 00			
Benzene	0.209	0.00500	mg/kg	0.200	ND	105	60.0-140			
Foluene	0.192	0.00500	*11	0.200	ND	96.0	60.0-140			
Ethylbenzene	0.197	0.00500	10	0.200	ND	98.5	60.0-140			
Xylenes (total)	0.561	0.00500	**	0.600	ND	93.5	60.0-140			
Surrogate: a,a,a-Trifluorotoluene	0.202		"	0.200		101	60.0-140			
Matrix Spike Dup (0110078-MSD1)	s	ource: MJK0	277-01	Prepared	& Analyz	ed: 11/14	/00			,
Benzene	0.198	0.00500	mg/kg	0.200	ND	99.0	60.0-140	5.88	25.0	
Toluene	0.182	0.00500	41	0.200	ND	91.0	60.0-140	5.35	25.0	
Ethylbenzene	0.187	0.00500	**	0.200	ND	93.5	60.0-140	5.21	25.0	
Xylenes (total)	0.538	0.00500	*1	0.600	ND	89.7	60.0-140	4.15	25.0	
Surrogate: a,a,a-Trifluorotoluene	0.193		#	0.200		96.5	60.0-140			





Cambria - Oakland (Shell) 1144 65th St. Suite C

Oakland CA, 94608

Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported: 11/22/00 08:45

MTBE by DHS LUFT - Quality Control

Sequoia Analytical - San Carlos

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		Reporting		Spike	Source		%REC		RPD				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 0110078 - EPA 5030B [P/T]													
Blank (0110078-BLK1)		,		Prepared	& Analyze	ed: 11/14/	00						
Methyl tert-butyl ether	ND	0.0500	mg/kg										
Surrogate: a,a,a-Trifluorotoluene	0.231		"	0.200		116	60.0-140						
LCS (0110078-BS1)				Prepared	& Analyze	ed: 11/14/	00						
Methyl tert-butyl ether	1.11	0.0500	mg/kg				70.0-130						
Surrogate: a,a,a-Trifluorotoluene	0.219		H	0.200		109	60.0-140						
LCS (0110078-BS2)				Prepared	& Analyz	ed: 11/14/	00						
Surrogate: a,a,a-Trifluorotoluene	0.224		mg/kg	0.200		112	60.0-140						
Matrix Spike (0110078-MS1)	1.11 0.0500 mg/kg 0.219 " Pro 0.224 mg/kg Source: MJK0277-01 Pro 0.970 0.0500 mg/kg				& Analyza	ed: 11/14/	00						
Methyl tert-butyl ether	- 0.970	0.0500	mg/kg		ND		60.0-140						
Surrogate: a,a,a-Trifluorotoluene	0.202		н	0.200		101	60.0-140						
Matrix Spike Dup (0110078-MSD1)	Sc	ource: MJK0	277-01	Prepared	& Analyz	ed: 11/14/	/14/00 60.0-140 01 60.0-140 /14/00						
Methyl tert-butyl ether	0.929	0.0500	mg/kg		ND		60.0-140		25.0				
Surrogate: a,a,a-Trifluorotoluene	0.193		и	0.200		96.5	60.0-140						





1144 65th St. Suite C Oakland CA, 94608 Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported:

11/22/00 08:45

Organic Lead by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K13019 - LUFT-DHS										
Blank (0K13019-BLK1)				Prepared:	11/13/00	Analyzed:	11/14/00			
Organic Lead	ND	1.0	mg/kg							
LCS (0K13019-BS1)				Prepared:	11/13/00	Analyzed:	: 11/14/00			
Organic Lead	13.0	1.0	mg/kg	20.0		65.0	10-110			
LCS Dup (0K13019-BSD1)				Prepared:	11/13/00	Analyzed	: 11/14/00			
Organic Lead	12.7	1.0	mg/kg	20.0		63.5	10-110	2.33	20	
Matrix Spike (0K13019-MS1)	Se	ource: W0112	41-01	Prepared:	11/13/00	Analyzed:	: 11/14/00			
Organic Lead	4.45	1.0	mg/kg	20.0	ND	22.2	0-62			
Matrix Spike Dup (0K13019-MSD1)	Se	ource: W0112	41-01	Prepared:	11/13/00	Analyzed	: 11/14/00			
Organic Lead	4.85	1.0	mg/kg	20.0	ND	24.2	0-62	8.60	20	



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

Cambria - Oakland (Shell)

1144 65th St. Suite C

Oakland CA, 94608

D-15

Project: Shell (8 or more day TAT)

Project Number: 2160 Otis Dr., Alameda CA

Project Manager: Troy Buggle

Reported:

11/22/00 08:45

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Notes and Definitions

Chromatogram Pattern: Unidentified Hydrocarbons C9-C24

Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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ATBE CONFIRMATION: HIGHEST HIGHEST po								3260	(8260B)		Į,	β, 13 1, 1				(TO-15)	٠		946)			<u> </u>	
SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT (C)						ا ج			ates	Note	[ي					in in	5		20			ng o	ţ
TPHy test needs to be run on individual samples # on					(8015m)	(8015m)		tenat	geng	See	015B	沚			ا ۾ ا	MTB	ᄩ	16m)	(ASTM D1946)	1		Field PID Reading or Laboratory Notes	
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EF TTLC lend is ≥ 13 mg/kg than					able	ctab	E (8	<u>₩</u>	† ts	E	than	\$95°	SK-1	1+2	ate (E	<u>.</u>	AST	Gas	Disposal (4B		d Pi	
TTLC lend is \$ 50 mg/kg from 1	un STL	-c- lex	- <i>D</i>		urge	xtra	MTE	MTE		Conf	I, Me	S.7.14 8.7.18	e (R	s Iron	N. N.	ő	ő	F	Fixed Gases	SiG		즐겁	
Field Sample Identification	SAMPL DATE	LING TIME	MAT- RIX	NO. OF CONT.	TPHF	TPH - E	BTEX/MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates	MTBE Confirmation, See Note	Ethanol, Methanol (8015B)	Metals (Specify)	Methane (RSK-175)	Ferrous Iron +2	Sulfate, Nitrate (300.0)	Vapor VOCs BTEX/MTBE	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor	Test for	Other:		
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