

November 30, 2004

Roseanna Garcia-LaGrille Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

Former Shell Service Station

2160 Otis Drive Alameda, California

Dear Ms. Garcia-LaGrille:

Attached for your review and comment is a copy of the *Site Investigation Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Sr. Environmental Engineer

Karen Petryna

November 30, 2004

Ms. Roseanna Garcia-LaGrille Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Site Investigation Report

Former Shell Service Station 2160 Otis Drive Alameda, California



Dear Ms. Garcia-LaGrille:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document site investigation activities performed last December at the above-referenced site. The purpose of the investigation was to further assess the lateral extent of impacted soil and groundwater beneath the site. Cambria followed the scope of work presented in our November 15, 2003 Groundwater Monitoring Report – Third Quarter 2003 which was approved by Alameda County Health Care Services Agency (ACHCSA) in electronic correspondence. The work was performed in accordance with Regional Water Quality Control Board (RWQCB) and Alameda County Public Works Agency (ACPWA) guidelines.

SITE BACKGROUND

The site is located on the west side of intersection of Otis Drive and South Shore Center in a commercial section of Alameda, California (Figure 1). The former station layout included three underground storage tanks (USTs), two fuel dispensers, and a station building (Figure 2). The current site configuration consists of an Office Max business and parking area.

PREVIOUS WORK

Shell discontinued operation of the service station, demolished the aboveground facilities, and removed the underground storage tanks (USTs) and piping in September 1997. 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 that occurred between 1989 and 1995, the depth to groundwater at this site varied between 3 and 5 feet with a flow direction of north-northeast. Based on groundwater samples collected from former wells MW-1 and MW-2 on October 11, 1994, the groundwater contained

Cambria Environmental Technology, Inc.

270 Perkins Street P.O. Box 259 Sonoma, CA 95476 Tel (707) 935-4850 Fax (707) 935-6649

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 (SB-A through SB-H) were collected near the gasoline tanks to pre-characterize soils before the tanks were removed. Of the 40 soil samples analyzed, the maximum benzene concentration was 0.15 parts per million (ppm). No benzene was detected in 35 of the soil samples. The maximum total petroleum hydrocarbon as gasoline (TPHg) detected in the soil samples was 46 ppm. No TPHg was detected in 30 of the soil 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, and the 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 concentrations of petroleum hydrocarbons (non-detected TPHg, maximum 0.11 ppm benzene, maximum 0.49 ppm methyl tertiary butyl ether [MTBE]) were reported (by EPA Method 8020) in the soil samples collected around the gasoline tank pit. Maximum concentrations of 270 ppm TPHg, 1.7 ppm benzene, and 0.32 ppm 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® borings G-1 through G-7. 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, 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 the northern corner of the property. MTBE was reported in one soil sample collected near the former gasoline tank pit at a concentration of 0.28 ppm 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 (G-6-3.5') contained detectable concentrations of TPHg (5.2 ppm) or benzene (0.0059 ppm).

No TPHg, BTEX, or MTBE was detected in the grab groundwater sample (G-5) collected from the northern corner of the site. Maximum concentrations of 2,900 parts per billion (ppb) TPHg, 240 ppb benzene, and 920 ppb MTBE (by EPA Method 8020) were detected in the two grab groundwater samples collected directly downgradient of the former dispensers and gasoline tanks.

November 2000 Well Installation: In November 2000, Cambria installed monitoring well MW-3 onsite (Figure 2). No TPHg, BTEX, or MTBE were detected in any of the soil samples collected from well MW-3.

Groundwater Monitoring: Following the installation of MW-3, groundwater monitoring was reinitiated. The monitoring program was suspended after the fourth quarter 2001 event, pending case closure review by the ACHCSA. The maximum detected TPHg, benzene, and MTBE concentrations in well MW-3 were 3,100 ppb, 250 ppb, and 180 ppb, respectively, during the four quarters of monitoring conducted. Depth to groundwater during this period ranged from 5.06 feet below grade (fbg) to 5.93 fbg.

Downgradient Assessment: Based on a series of e-mail correspondences between Cambria, Shell, and the ACHCSA between June and October, 2002, investigation activities were proposed to assist with the agency's evaluation of closure potential. The purpose of these borings was to assess the lateral extent of benzene impact between the site and the nearest receptor (a lagoon located approximately 300 feet northeast/downgradient of the site), and also to assess whether preferential migration of benzene is occurring via the subsurface utility conduits.

The results of this investigation are presented below.

INVESTIGATION RESULTS

Personnel Present: Cambria geologist Scott Lewis directed the field activities,

working under the supervision of California Registered

Geologist Ana Friel.

Permits: A boring permit was obtained from ACPWA and a Right of Way

permit was obtained from the City of Alameda (Appendix A).



Drilling Company: Gregg Drilling and Testing, Inc. of Martinez, California (C57)

License No. 485165).

Drilling Date: December 9, 2003.

Drilling Method: Air knife and hand-auger.

Number of Borings: Five soil borings (SB-1 through SB-5) were drilled. Boring

specifications are described in Table 1 and locations are shown

on Figure 2.

Borings SB-1 through SB-5 were extended to 7 fbg.

Soil Sampling Methods: Soil types were logged using the Unified Soil Classification

System and Munsell Soil Color Charts. Encountered soil is described on the exploratory boring logs presented in Appendix B. Soil samples were collected continuously for lithologic description. Soil samples were screened in the field for the presence of organic vapors using a photo-ionization detector (PID). PID readings are recorded on the boring logs. One soil sample was retained from above the soil-water interface for potential chemical analyses. Soil from the desired interval was collected in a brass sample tube and capped with Teflon

sheeting and tight-fitting plastic end caps. Each sample tube

was labeled, logged onto a chain-of-custody form and placed in a chilled ice chest until delivery to a state-certified laboratory for

analyses.

Groundwater Sampling: A grab groundwater sample was obtained from each boring by

means of a disposable bailer. Water was transferred from the bailer to laboratory supplied containers. The containers were labeled, logged onto a chain-of-custody form and placed in a chilled ice chest until delivery to a state-certified laboratory for

analyses.

Chemical Analyses: Soil and groundwater samples were analyzed for TPHg, BTEX,

and MTBE by EPA Method 8260B.

HYDROCARBON DISTRIBUTION IN SOIL

No TPHg, benzene, or MTBE were detected in soil samples from borings SB-1 through SB-5 at five fbg. Only one sample (SB-3 at 5 fbg) contained detectable concentrations of toluene, ethylbenzene, and xylenes at concentrations of 0.062, 0.014, and 0.063 ppm, respectively.

The soil chemical analytical data is summarized on Table 2, the TPHg, benzene, and MTBE concentrations are presented on Figure 2, and the laboratory analytical report is included in Appendix C.



HYDROCARBON DISTRIBUTION IN WATER

TPHg was detected in groundwater samples from borings SB-2 and SB-5 at concentrations of 62 and 57 ppb, respectively. The only other detection was 1.8 ppb xylenes at SB-5. No other constituents were present in any of the groundwater samples at laboratory reporting limits. Benzene and MTBE were not detected in any of the groundwater samples from borings SB-1 through SB-5.

The groundwater chemical analytical data is summarized on Table 3, the TPHg, benzene, and MTBE concentrations are presented on Figure 2, and the laboratory analytical report is included in Appendix C.

DISCUSSION

The purpose of these borings was to assess the lateral extent of benzene impact between the site and the nearest receptor (a lagoon located approximately 300 feet northeast/downgradient of the site), and also to assess whether preferential migration of benzene is occurring via the subsurface utility conduits.

Five soil borings were installed to a depth of 7 fbg for collection of soil and groundwater samples. No TPHg, benzene, or MTBE were detected in soil samples from borings SB-1 through SB-5.

No benzene or MTBE were detected in groundwater samples from borings SB-1 through SB-5. TPHg was detected in groundwater samples from borings SB-2 and SB-5 at low concentrations.

CONCLUSIONS

Based on the results of the investigation reported herein, and previous data for this site, Cambria concludes that the former release of petroleum constituents at the subject site has not migrated significantly downgradient. Further, preferential migration of constituents was not apparent based on the results of this investigation.

Given that the subject site has not been operated as a gasoline service station since 1997, and the documented attenuation of constituents at this site, it is likely that continued degradation of the plume will occur.

Thus, the release of petroleum from the former Shell station does not pose a threat to receptors currently, nor in the foreseeable future.

A final groundwater monitoring event will be performed in December 2004. If concentrations in well MW-3 are similar or lower than historical concentrations, recommendations for case closure and destruction of well MW-3 will be included in the fourth quarter monitoring report which will be submitted in February 2005.

3

CLOSING

If you have any questions regarding the contents of this document, please call Ana Friel at (707) 442-2700.

Sincerely,

Cambria Environmental Technology, Inc.

Scott Lewis

Senior Staff Geologist

Ana Friel, RG

Senior Project Geologist

RG 6452

Attachments:

Table 1. Well/Boring Data

Table 2. Soil Analytical Data

Table 3. Groundwater Analytical Data

Figure 1. Site Vicinity Map

Figure 2. Soil/Groundwater Chemical Concentration Map

Appendix A. Permits
Appendix B. Boring Logs

Appendix C. Certified Analytical Report

cc: Karen Petryna, Shell

Harsch Investment Group, 523 West Plaza, Alameda, CA 94501

Table 1. Well/Boring Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

		Date	TOC	Total	Soil Sa	mple (ft)	First Enco	untered GW	Screen	Screen	Depth (ft)	
Name	Туре	Installed	Elev (ft msl)	Depth (ft)	Incr. or	Depth(s)	Depth (ft)	Elev (ft msl)	Diam. (In)	Top	Bottom	Comments
MW-1	Well (HSA)	09-Jun-05	5.1	NA	5	-	NA	-	NA	NA	NA	Well destroyed 1995
MW-2	Well (HSA)	02-Apr-90	3.29	NA	5	•	NA	-	2.0	4	17	Well destroyed 1995
MW-3	Well (HSA)	02-Nov-00	9.22	18.5	5	-	15.5	-6.28	2	3.5	18.5	
SB-1	Boring (Hand auger)	9-Dec-03	-	7	C	-	5	-	-	-	-	
SB-2	Boring (Hand auger)	9-Dec-03	-	7	С	-	5	-	-	-	-	
SB-3	Boring (Hand auger)	9-Dec-03	-	7	C	-	5	-		_	-	•
SB-4	Boring (Hand auger)	9-Dec-03	•	7	С	_	5	-	-	_	_	
SB-5	Boring (Hand auger)	9-Dec-03	•	7	С	-	5	-	_	-	_	

Abbreviations:

C = Continuous

TOC = Top of Casing referenced to mean sea level

HSA = Hollow-stem auger

Table 2. Soil Analytical Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

Sample	Depth	Date	TPHg	Benzene	Toluene	Ethyl benzene	Total xylenes	МТВЕ
ID	(ft)	Sampled	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-1-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-3-5	5	09-Dec-03	<1.0	<0.0050	0.062	0.014	0.063	<0.0050
SB-4-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-5-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Abbreviations:

TPHg = Total petroleum hydrocarbon as gasoline by EPA Method 8260

Benzene, toluene, ethyl benzene, total xylenes by EPA Method 8260

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

ft = Feet

mg/kg = Milligrams per kilogram

< x = Not detected at detection limit x

Table 3. Groundwater Analytical Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

Sample ID	Date Sampled	TPHg μg/L	Benzene μg/L	Toluene µg/L	Ethyl benzene μg/L	Total xylenes μg/L	MTBE μg/L
SB-1-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-2-W	09-Dec-03	62	<0.50	<0.50	<0.50	<1.0	<0.50
SB-3-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-4-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-5-W	09-Dec-03	57	<0.50	<0.50	<0.50	1.8	<0.50

Abbreviations:

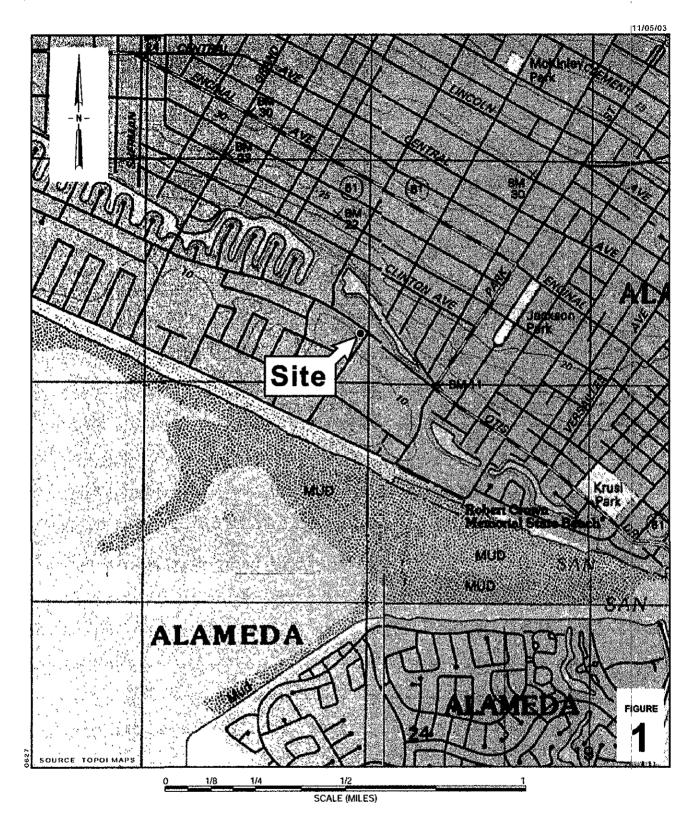
TPHg = Total petroleum hydrocarbon as gasoline by EPA Method 8260

Benzene, toluene, ethyl benzene, total xylenes by EPA Method 8260

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

 μ g/L = Micrograms per liter

< x =Not detected at detection limit x



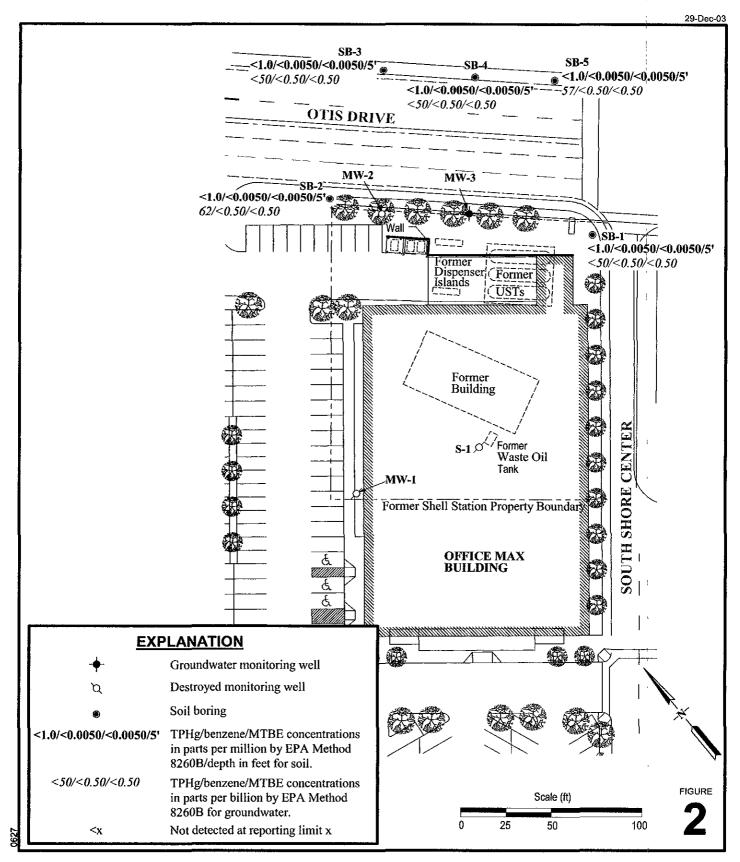
Former Shell Service Station

2160 Otis Drive Alameda, California



Site Vicinity Map

CAMBRIA



Former Shell Service Station 2160 Otis Drive

2160 Otis Drive Alameda, California



Soil/Groundwater Chemical Concentration Map

CAMBRIA

December 9, 2003

Appendix A Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 199 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 670-6633 James You FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERM	IIT APPLICATION
FOR APPLICANT TO COMPLETE OCATION OF PROJECT 2160 OTES Drive, Alexanda, CA	PERMIT NUMBER WELL NUMBER APN
	PERMIT CONDITIONS Circled Pormit Requirements Apply
THENT Same Solo 1 Product US Address P.D. 197 167 Phone 357-695.930 b Type Deck A Zip 9510-7869 Type Scott Levis - Carbia Environmental Same Scott Levis - Carbia Environmental Fax 7a7-735-6577 Phone 357-6577 Fax 7a7-735-6577 Phone 707-933-2369 Type of Project Well Construction General Water Supply D Contamination Monitoring D Well Destruction	A. GENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date. 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources—Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date B. WATER SUPPLY WELLS 1. Minimum surface seal thickness is two inches of cemest grout placed by tremic. 2. Minimum seaf depth is 50 feet for municipal and Industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic	1. Minimum surface seal thickness is two inches of centent grout placed by tremie. 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. D. GEOTECHNICAL
DRILLING METHOD: Mud Rotary Air Rotary Auger & Au	Backfill bore hole by tremic with coment grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cumings. E. CATHODIC Fill hole anode zone with concrete placed by tremic. F. WELL DESTRUCTION Send a map of work site. A reparate permit is required for wells deeper than 45 feet.
WELL PROJECTS Drill Hole Diameter in. Maximum Casing Diameter in. Depth ft. Surface Scal Dopth ft. Owner's Well Number	SPECIAL CONDITIONS A Hocked NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
GEOTECHNICAL PROJECTS Number of Borings 5 Maximum Hole Diameter 3-47 in. Depth 10 ft. STARTING DATE December 9, 2003	
COMPLETION DATE <u>December 9, 2003</u>	APPROVED AND DATE

Rcv.9-18-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE

PLEASE PRINT NAME Scott Levis



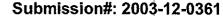
City of Alameda 2263 Santa Clara Avenue, Room 190 Alameda, CA 94501 (510) 748-4530

Th	plicate
Submit in Dijy	fere

RIGHT-OF-WAY PERMIT APPLICAT	ION	
SERVICE NUMBER	DATE 11-17 - 201	23 _
Application is hereby made to occupy or perform work in the public right-of-way on the	Northeast side	
OTIS Drive St. for 150' feet to the	west worthward	
of South Shore Center		
No. 2/60 07/5 Owner Owner		
Taking Soil and Ground et Samples in the planter area Name of C 11 1 Combine Environmental Tachnology Co.	located between the sides and Roxdian wing a handay	malk
Applicant Coll 161015 Address 270 Perki-s Street Ch	Istate Sonome, CA 95476	
Ucense No //0582 City Business Phone	MAG (722 2760	
INDICATE LOCATION BELOW OR ATTACH SEPARATE SHEETS See attached sateplan FA	HOWING LOCATION X: 707-935-6649	
PLEASE NOTE THE FOLLOWING: 1. Urban runoff program requires that no contaminants, including dirt, enter the storm drains in inlets. Failure to comply is subject to \$200/day fine.		
2. 48 hour advance notice is required for inspection. Contact Engineering Division		
inspection prior to work may result in spicotion, same processian denous, urban ru	non, final inspection. Failure to obta	<u>in</u>
permittee.	xcavation work must be restored by the	he
5. All work involved is to be done in accordance with standard City of Alameda specification of the City Engineer Standard details are officed the satisfaction of the City Engineer.	ons and City of Alameda practices, all	to ·
7. FAILURE TO OBTAIN INSPECTIONS PRIOR TO COMPLETION OF WORK IS SUP		1AF
occording to the state of the s	i	**
Acceptance of this permit constitutes acceptance of the con	nditions included.	
Sutt Lewis Date 11-17-	್	٠
APPLICANT SIGNATURE		
SPECIAL CONDITIONS In no open trench cutting		
O STATE PERMIT REQUIRED		
ADDITIONAL SETS OF PLANS AND SPECIFICATIONS TO THE ENGINEERING DIVISION	PRIOR TO CONSTRUCTION	
#OF SETS OTHER	. HOR TO COMSTRUCTION	
RECEIVED DATE 1/25/2003 SIGNED 1. SULGA FERMIT NO.	EX03-0239	
APPROVED DATE 12-4-03 SIGNED SURV	,	
ISSUED DATE SIGNED	10 m 1 m 2 m 2 m 2 m 1 m 2 m 1 m 2 m 2 m 2	

Appendix B Boring Logs

Appendix C Certified Analytical Report





Cambria Environmental Sonoma

December 26, 2003

270 Perkins Street Sonoma, CA 95476

Attn.:

Ana Friel

Project#: 245-0627

Project:

98995140

Site:

2160 Otis Drive, Alameda, CA

Attached is our report for your samples received on 12/10/2003 16:20 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/24/2004 unless you have requested otherwise.

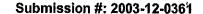
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil

Project Manager





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 245-0627

98995140

Received: 12/10/2003 16:20

Site: 2160 Otis Drive, Alameda, CA

Samples Reported

Sample/Name	, t-Date Sampled	Wighter St.	Lab#
SB-1-5	12/09/2003 09:38	Soil	1
SB-2-5	12/09/2003 09:05	Soil	2
SB-3-5	12/09/2003 10:05	Soil	3
SB-4-5	12/09/2003 10:16	Soil	4
SB-5-5	12/09/2003 10:25	Soil	5





Cambria Environmental Sonoma

Attn.: Ana Friel

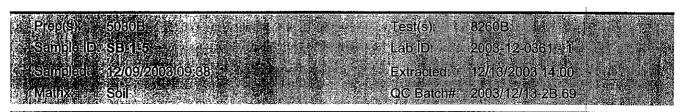
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

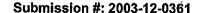
Project: 245-0627

98995140

Received: 12/10/2003 16:20



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/13/2003 14:00	
Benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:00	
Toluene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:00	:
Total xylenes	ND	0.0050	mg/Kg	1.00	12/13/2003 14:00	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	12/13/2003 14:00	
Surrogate(s)						
1,2-Dichloroethane-d4	97.7	70-121	%	1.00	12/13/2003 1/4:00	
Toluene-d8	83.0	81-117	%	1.00	12/13/2003 14:00	





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 245-0627

98995140

Received: 12/10/2003 16:20

(*************************************	TO THE REPORT OF THE PROPERTY
Sample ID SE256 Life Comments of the Comments	Situate II pura 2003-12-08618-23 (3818-15-48
Sampled 1/2/09/2008 09/05#	77 . Extraorisa (* 12/18/2008 14186 * 2021 * 1
TAMATINICAL Soil For the Control of	* # QC Batch#1 2003/12/13-28-69 **

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/13/2003 14:56	
Benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:56	
Toluene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 14:56	
Total xylenes	ND	0.0050	mg/Kg	1.00	12/13/2003 14:56	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	12/13/2003 14:56	
Surrogate(s)						
1,2-Dichloroethane-d4	96.1	70-121	%	1.00	12/13/2003 14:56	
Toluene-d8	90.2	81-117	%	1.00		





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 245-0627

98995140

Received: 12/10/2003 16:20

(Rico(s)): // Sesous	Test(s): 8260B
i Sandofello Se 45	(a) Lab (D) 2003-12-0361-23 (\$\frac{1}{2}\$)
Sampled 12/09/20 0 : 10/05	Extracted 14:12/13/2003 15/15
Marrix / Soil A	# QC Batch#: 2003/12/13-2B 69 N 27/

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/13/2003 15:15	
Benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 15:15	
Toluene	0.062	0.0050	mg/Kg	1.00	12/13/2003 15:15	
Ethyl benzene	0.014	0.0050	mg/Kg	1.00	12/13/2003 15:15	
Total xylenes	0.063	0.0050	mg/Kg	1.00	12/13/2003 15:15	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	12/13/2003 15:15	
Surrogate(s)						
1,2-Dichloroethane-d4	99.5	70-121	%	1.00	12/13/2003 15:15	
Toluene-d8	83.3	81-117	%	1.00	12/13/2003 15:15	





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

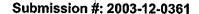
Project: 245-0627

98995140

Received: 12/10/2003 16:20

24 Prep(\$) 3 1 X5030 B 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2	JEESU(A) 77 - (824)018 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Sample ID: SBA/5 12 - 2 It MA 1 It was a 1	是Rabilible 2m 2003 ff2-036 ff 4
Sampledic 12/09/2003/10:16-23/1/17 27 37 37-37-4124	EXITEGICA 242/13/2005 15 842
Matrix: For Soils 1995 April 1995 April 1995	170G Batch#1 12003/12/13-28/69/13 18/14 No. 13

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/13/2003 15:34	
Benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 15:34	
Toluene	ND	0.0050	mg/Kg	1.00	12/13/2003 15:34	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/13/2003 15:34	
Total xylenes	ND	0.0050	mg/Kg	1.00	12/13/2003 15:34	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	12/13/2003 15:34	
Surrogate(s)						
1,2-Dichloroethane-d4	94.4	70-121	%	1.00	12/13/2003 15:34	
Toluene-d8	95.6	81-117	%	1.00	12/13/2003 15:34	





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 245-0627

98995140

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THE SHOPE THE STATE OF THE PROPERTY OF THE PRO	
Prep(s);;; 5030B;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	2 Test(s) 8260B
	72200
Cample DESPERMENT CREEKS OF	4 - LabilD. ** - 2003-12-03614.5* - 🙀 - 📜 🕻
en Sample IDN SB35-504-44 հայացական հետու և այն այն հայան	a Labilo (2000-12-000) a di
. Sampledi : 12/09/2005:10/25/35/35/35	Extracted:
Matrix: Soil Soil State Flags 15	QG Batch#: \$2003/12/16-01/69
是一种。在文件的工程,大型的工作,在工程的工程的工程的工程,但是一种工程的工程,但是一种工程的工程的工程,可以可以可以可以可以可以可以可以可以可以可以可以可以可	S. B.

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/16/2003 11:30	
Benzene	ND	0.0050	mg/Kg	1.00	12/16/2003 11:30	
Toluene	ND	0.0050	mg/Kg	1.00	12/16/2003 11:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/16/2003 11:30	
Total xylenes	ND	0.0050	mg/Kg	1.00	12/16/2003 11:30	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	12/16/2003 11:30	
Surrogate(s)						
1,2-Dichloroethane-d4	82.6	70-121	%	1.00	12/16/2003 11:30	
Toluene-d8	89.2	81-117	%	1.00	12/16/2003 11:30	





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	The state of the s	li (ele Rejetein)	ALLOCAL DESCRIPTION OF PROPERTY AND A STATE OF PROPERT				
Fire (s) 5030B3 Method Blank 23 14 14 14 14 14 14 14 14 14 14 14 14 14	Soil 2 2 200 Batch #2003/(2/ *Date Extracted: 12/13/20						
Compound	Conc.	RL	Unit	Analyzed	Flag		
Gasoline	ND	1.000	mg/Kg	12/13/2003 10:07			
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	12/13/2003 10:07			
Benzene	ND	0.0050	mg/Kg	12/13/2003 10:07			
Toluene	ND	0.0050	mg/Kg	12/13/2003 10:07			
Ethyl benzene	ND	0.0050	mg/Kg	12/13/2003 10:07			
Total xylenes	ND	0.0050	mg/Kg	12/13/2003 10:07			
Surrogates(s)	ł						
1,2-Dichloroethane-d4	89.8	70-121	%	12/13/2003 10:07			
Toluene-d8	89.8	81-117	%	12/13/2003 10:07			





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1,2-Dichloroethane-d4

Toluene-d8

Received: 12/10/2003 16:20

%

%

12/16/2003 10:16

12/16/2003 10:16

Site: 2160 Otis Drive, Alameda, CA

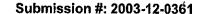
Prep(s): 5080B Method(Blanker, a. 1. 4. 1.4. TMB: 2003/1/2/16401.69-01644		e Soleta		Test(s QG Batch:# 2003/12/ le:Extracted: 12/16/20	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	12/16/2003 10:16	
Benzene	ND	0.0050	mg/Kg	12/16/2003 10:16	
Toluene	ND	0.0050	mg/Kg	12/16/2003 10:16	
Ethyl benzene	ND	0.0050	mg/Kg	12/16/2003 10:16	
Total xylenes	ND	0.0050	mg/Kg	12/16/2003 10:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	12/16/2003 10:16	
Surrogates(s)					

70-121

81-117

86.9

98.1





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An adversarial and the control of th	- Batchreje istopoji 246 - 467	
Prejo(e): 450s(dB)		Tes(t) 8260B
Laboratory Control Spike	Soil 4	QG Batch # 2003/42/13 2B 69
LGS 2003/12/13-2B 69-030	Extracted: 12/13/2003	Analyzed: 12/13/2003 09:30
LCSD: - 2003/12/13-2B 69-048	Extracted: 12/13/2003	Analyzed (12/13/2003 09:48/

Compound	Conc.	mg/Kg	Kg Exp.Conc.		Recovery %		Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0444	0.0512	0.05	88.8	102.4	14.2	65-165	20		
Benzene	0.0407	0.0463	0.05	81.4	92.6	12.9	69-129	20		
Toluene	0.0484	0.0564	0.05	96.8	112.8	15.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	428	441	500	85.6	88.2		70-121			
Toluene-d8	484	540	500	96.8	108.0		81-117			





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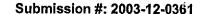
Project: 245-0627

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Received: 12/10/2003 16:20

	The state of the second
Wast 以 Batch QC Reports	
Prep(s): 5030B	Test(s): 8260B
	2003/12/46-01-69
LCS2003/12/16-01:69-0899 Extracted: 12/16/2003 Analyzed LCSD	12/16/2003 09:39 12/16/2003 09:57

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
'	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	43.4	39.8	50.0	86.8	79.6	8.7	69-129	20		
Toluene	54.8	49.6	50.0	109.6	99.2	10.0	70-130	20		
Methyl tert-butyl ether (MTBE)	41.3	43.5	50.0	82.6	87.0	5.2	65-165	20		
Surrogates(s) 1,2-Dichloroethane-d4	431	449	500	86.2	89.8		70-121		1	
Toluene-d8	536	483	500	107.2	96.6		81-117			





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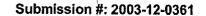
Project: 245-0627

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	Baica (Caropea		
: Prep(s)) = 5030E G			1 L. Tesi(s)(8260B)
Matrix Spike (เฟริ//ฟรีฮ์ก)	Soll .	QC Batch	# 2003/12/43-248.69
SB-1-5" >> M8 (A. 11 1) 47		, Lab lD: ∰ 1	2003-12/0361 - 001
MSI > 2003/12/13-2B 69 018	Extracted (12/13/2003) \$	Apalyzedi Dijution:	112/13/2003/14 18 11.00
MSD\ 1.2003/12/10-2B(69037.	E 1 Extracted 1246/2003	Analyzed W	12/13/2008 14:37
		Diution: 77	b 477 1.00

Compound	Conc.	Conc. mg/Kg		Spk.Level	Recovery %		Limits %		Flags		
	MS	MSD	Sample	mg/Kg	мѕ	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0466	0.0495	ND	0.044326	105.2	110.1	4.6	65-165	20		
Benzene	0.0401	0.0439	ND	0.044326	90.5	97.6	7.5	69-129	20		
Toluene	0.0429	0.0501	ND	0.044326	96.8	111.3	13.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	486	507		500	97.2	101.4	l	70-121			
Toluene-d8	443	510		500	88.6	102.1		81-117			





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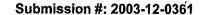
Project: 245-0627

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Received: 12/10/2003 16:20

	Batch QC Reports		
Preb(s) 5030H			Test(s): 8260B
Mathix Spike (MS//MSD)) ii	native Soil	OC Batch	# 2003/12/16:01.69
SB-5-5 >> MS - X		Lab ID:	2003-12-0361 - 005
MS 2003/12/16-01 69-006	Extracted: 12/16/2003	Analyzed	12/16/2003 12:06
MSDa 2003/(2/16-01-69-026a //)	### Extracted: 12/16/2003	Dilution:	1,00
	ATT LANGUEUN 12/10/2005	Analyzed: ** Dilútion:	12/16/2003 12/26 1.00

Compound	Conc.	mç	g/Kg	Spk.Level	R	Recovery	%	Limits	s %	FI	ags
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	37.1	37.6	0.153	50.0	73.9	76.1	2.9	69-129	20	i	
Toluene	40.4	42.0	0.299	50.0	80.2	85.0	5.8	70-130	20		
Methyl tert-butyl ether	33.4	38.4	ND	50.0	66.8	77.7	15.1	65-165	20		
Surrogate(s)	1										
1,2-Dichloroethane-d4	413	417]	500	82.6	83.4		70-121	ŀ		
Toluene-d8	479	466		500	95.8	93.2		81-117			





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Site: 2160 Otis Drive, Alameda, CA

Samples Reported

Sample Name:	Date Sampled	Matrix 1	Lab#
SB-1-W	12/09/2003 12:50	Water	6
SB-2-W	12/09/2003 13:00	Water	7
SB-3-W	12/09/2003 13:10	Water	8
SB-4-W	12/09/2003 13:15	Water	9
SB-5-W	12/09/2003 13:20	Water	10





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THE DECYMENT PROPERTY OF THE P	Test(s): 8260B	
A CLIANIS). A VOUGUES A SAME A SAME ASSESSMENT OF THE SAME ASSESSMEN	* Tesus): 0Z0UD : 特	
	The second secon	N. Vicini
Second of the second se	Lab ID: 2003-12-0361 - 6	有效的
	The State of the S	16 (2 0)
32 Sambled 212/09/2003 12:50	Extracted: 12/19/2003 14:44	
Matrix Water	QC Batch# 2003/12/19-10.66	
国人共享的共和党的政治企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/19/2003 14:44	
Benzene	ND	0.50	ug/L	1.00	12/19/2003 14:44	
Toluene	ND	0.50	ug/L	1.00	12/19/2003 14:44	
Ethylbenzene	ND	0.50	ug/L	1.00	12/19/2003 14:44	
Total xylenes	ND	1.0	ug/L	1.00	12/19/2003 14:44	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/19/2003 14:44	
Surrogate(s)						
1,2-Dichloroethane-d4	114.2	76-130	%	1.00	12/19/2003 14:44	
Toluene-d8	100.2	78-115	%	1.00	12/19/2003 14:44	





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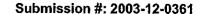
Project: 245-0627

98995140

Received: 12/10/2003 16:20

eta Prejota)/ 1, 3080B: 2 and and 2 and 2 and 3 rest(s): 18260B* 1.1.	
*** Sample IDE SIB 2:W/*** 4 1.3 1 1/2 1/2 1/2 Lab IDE 1 2003-12-03643	
Sampled: 12/09/2008 (5000 - 14 - 15) Extracted: 012/19/2003 16/	
Matrix, Water With Application 12/19/10	66+

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	62	50	ug/L	1.00	12/19/2003 15:08	g
Benzene	ND	0.50	ug/L	1.00	12/19/2003 15:08	
Toluene	ND	0.50	ug/L	1.00	12/19/2003 15:08	
Ethylbenzene	ND	0.50	ug/L	1.00	12/19/2003 15:08	
Total xylenes	ND	1.0	ug/L	1.00	12/19/2003 15:08	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/19/2003 15:08	
Surrogate(s)	J	}			j	
1,2-Dichloroethane-d4	109.7	76-130	%	1.00	12/19/2003 15:08	
Toluene-d8	102.3	78-115	%	1.00	12/19/2003 15:08	





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Francisco Control of the Control of	
ENGERATION AND AND AND AND AND AND AND AND AND AN	Test(s): 8260B / 1
Samble Dissession in the second secon	Lab ID: 47 2003-12-036138
## Sampled ### 2/09/2000 13:10 - H. # 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	Extracted 12/18/2003 19:03
Matrixe of Waters	QC Batch## 2003/12/18-1A.65
到14年,在《西西斯》的主,第二十年日的1964年,《西西斯斯·伊尔斯·伊尔斯斯·伊尔斯斯·伊斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/18/2003 19:03	
Benzene	ND	0.50	ug/L	1.00	12/18/2003 19:03	
Toluene	ND	0.50	ug/L	1.00	12/18/2003 19:03	
Ethylbenzene	ND	0.50	ug/L	1.00	12/18/2003 19:03	
Total xylenes	ND	1.0	ug/L	1.00	12/18/2003 19:03	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/18/2003 19:03	
Surrogate(s)						
1,2-Dichloroethane-d4	91.1	76-130	%	1.00	12/18/2003 19:03	
Toluene-d8	92.4	78-115	%	1.00	12/18/2003 19:03	



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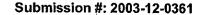
Project: 245-0627

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(#. (R)(a)(4.5)((c. (Tést(s)), a. (8200B)
P. Sample (D), Star4-W	Lab libut 1 - 2003 12-0361- 9 1 tr
Sampled 12/09/2003 134/5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 3- 12 Extracted - 12/18/2003 19:25 : 1 1 1:
Matrix Waler Waler A State State A State	希 (QeiBatch# 2003/12/18-1A.65 (*) にない

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/18/2003 19:25	
Benzene	ND	0.50	ug/L	1.00	12/18/2003 19:25	
Toluene	ND.	0.50	ug/L	1.00	12/18/2003 19:25	
Ethylbenzene	ND	0.50	ug/L	1.00	12/18/2003 19:25	
Total xylenes	ND	1.0	ug/L	1.00	12/18/2003 19:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/18/2003 19:25	
Surrogate(s)						
1,2-Dichloroethane-d4	88.8	76-130	%	1.00	12/18/2003 19:25	į
Toluene-d8	102.6	78-115	%	1.00	12/18/2003 19:25	





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(\$\text{P(\text{e}\text{p}(\text{s}))} = \text{5030B} \text{302}	Yaran (Test(s); a la	8260B	
and ampleted SB-5-W/14 - Care and the same	€ Lab ID: 4	2003-12-0361 - 10	1984
្រ Sanglad (រប់/09/2003 16)20 :		12/19/2003 15:32	10.00
1 Matrix Water Hotel Big Street	OC Batch#:	2003/12/19-10.66	

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	12/19/2003 15:32	
Benzene	ND	0.50	ug/L	1.00	12/19/2003 15:32	
Toluene	ND	0.50	ug/L	1.00	12/19/2003 15:32	
Ethylbenzene	ND	0.50	ug/L	1.00	12/19/2003 15:32	
Total xylenes	1.8	1.0	ug/L	1.00	12/19/2003 15:32	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/19/2003 15:32	
Surrogate(s)						
1,2-Dichloroethane-d4	107.5	76-130	%	1.00	12/19/2003 15:32	
Toluene-d8	97.1	78-115	%	1.00	12/19/2003 15:32	





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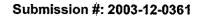
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Griddi(eleikejgon												
Presi(s): 5030B Mathod Ellank MB: 2003/42/18-1/A-66-051		γλ/ajei		QC Batch # 2003/12/1	8-1A/65							
Compound	Conc.	RL	Unit	Analyzed	Flag							
Gasoline	ND	50	ug/L	12/18/2003 11:51								
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/18/2003 11:51								
Benzene	ND	0.5	ug/L	12/18/2003 11:51								
Toluene	ND	0.5	ug/L	12/18/2003 11:51								
Ethylbenzene	ND	0.5	ug/L	12/18/2003 11:51								
Total xylenes	ND	1.0	ug/L	12/18/2003 11:51								
Surrogates(s)												
1,2-Dichloroethane-d4	92.2	76-130	%	12/18/2003 11:51								
Toluene-d8	100.0	78-115	%	12/18/2003 11:51								





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#1,717A	Baid	h (e)C Report			i,
r (Rrep(s)) Sucula				Tesi(s): 8260B
/(Metho: Jalank		Water		QC Batch # 2003/12/1	9-1C.66
MB 2008/12/19:10:66:028			Da	ate Extracted: 12/19/20	03 10 28
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/19/2003 10:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/19/2003 10:28	
Benzene	ND	0.5	ug/L	12/19/2003 10:28	
Toluene	ND	0.5	ug/L	12/19/2003 10:28	
Ethylbenzene	ND	0.5	ug/L	12/19/2003 10:28	
Total xylenes	ND	1.0	ug/L	12/19/2003 10:28	
Surrogates(s)					_
1,2-Dichloroethane-d4	94.8	76-130	%	12/19/2003 10:28	
Toluene-d8	104.2	78-115	%	12/19/2003 10:28	





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270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

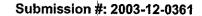
Project: 245-0627

98995140

Received: 12/10/2003 16:20

	કાર્યાના રેમેલ્સ સ્થાપના કર્યાના કર્યાના કર્યાના કર્યાના કર્યા છે.	
Freig(\$)) (5006002		704 10 Tes(s): 8260B
Labelatory Control Spiles (1991)	Water	QC Barch# 2003/12/18-1A:65
Les 2003/12//82/PA(65-004)	Extracted: 12/18/2008	#
::Losb::2003/12/18-1/165-029	# Extracted 1/12/18/2003	- Analyzedi 12/18/2003 13:29/

Compound	Conc.	ug/L	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
,	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.5	21.0	25	98.0	84.0	15.4	65-165	20		·
Benzene	22.7	20.8	25	90.8	83.2	8.7	69-129	20		
Toluene	27.3	23.2	25	109.2	92.8	16.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4 Toluene-d8	462 560	427 519	500 500	92.4 112.0	85.4 103.8		76-130 78-115			





Cambria Environmental Sonoma

Attn.: Ana Friel

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Project: 245-0627

98995140

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NECS 2003/12/19 16/6 NECSD 2003/12/19516/6			1000			Zulaiyzc	-U. (A)	10/2000	,,,,,,,,
	GLOXIO.	xtracted:	2/19/20	กล		Δnolvze	. ()	alonn.	3 09:40
্রাইচলস্থাল্ড (contension)		Water			Q	Batch	# 200	3/12 <i>[</i> 49	-1C.66
/ (위(ab(e)) 25050E								Test(s);	8260B

Compound	Conc.	ug/L	Exp.Conc.	Recov	ery %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	21.8 21.2 24.2	20.0 22.2 23.8	25 25 25	87.2 84.8 96.8	80.0 88.8 95.2	8.6 4.6 1.7	65-165 69-129 70-130	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	513 518	482 505	500 500	102.6 103.6	96.4 101.0		76-130 78-115			





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Received: 12/10/2003 16:20

Site: 2160 Otis Drive, Alameda, CA

Lesson Film (1) Lesson Canding Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.



2160 Otis Drive Alameda, California



Soil Chemical Concentration Map

December 9, 2003

STE-San Francisco	(0.5.6)	SHELL	hein Of Custo	dy Record	જીાળ કર્યા
	oject Manager to be i	involced cer Petcs.			
Pleasanton, CA 94566 Discuss	er entraces as				DATE #2=7=03
(925) 484-1919 (925) 484-1096 (ax Cicentary	The state of the s	PARCHESS (Stout and CID):			
Constitution Constitution CETS			Dive Alexand	A 10600)	
SRIGHT CONTACT PRINCIPLE RESIDENCE ASSOCIATION AND ASSOCIATION ASSOCIATION AND ASSOCIATION ASSOCIATION AND ASSOCIATION ASS	15476	Am Frel	707-442-2		7.5
707 412 2100 701482 2100 W	and the property of the same and the same an				
TO THE TO THE TOTAL THE AFTER	Candollo-env.	<u> </u>	2637/60U/4	TED ANALYSIS	
TO EA RINGER SPORT RESINATE OF UST AGRICT	TUSS MANZA HOURS			i powawi sas	
GCAMB MTRE CONFIDMATION HIGHEST HIGHEST PREBORID	Western Co.				FIELD NOTES - 3
SPECIAL INSTRUCTIONS OF NOTES: CHECK BOX # EDD R	Marketoer (a	(E) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A		3	Container/Present put ps. pe 2/D Beadings
					or Laboratory Notes.
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Field Sample Identification SAMPLING					TEMESATURE ON RECEIPT O
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		- A A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	The second of th			The state of the s	
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SB-4-W 7 7/3 6		K X			
5B-5-W 17, 132	Liv T				
Philosophy (Spylate)	Received by (Signature)			## (1 cc	The 7600 State of the 1600 Sta
February September	Gazaret Dy Sagastro			Teliolo3	(Ring)
2/800_10/15/60 16 CO	(Ricented by: (Signatura)			12-10-03	1620
OSTREOTICAL Make with Small report, Oreas to File Teleperand Post to Claim.				1120-10-01 S	101000Resion

-19,88 (1) F





Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850

JOB/SI' LOCAT PROJE DRILLE DRILLE BORING LOGGE	ECT NUM ER ING METI IG DIAME ED BY WED BY	MBER 00 G THOD H ETER 3	orm 2160 0627 Greg land 3"	ner Shel 0 Otls Di 7 gg Drillin d auger ewis	ell Statio Drive, Al ng	lon Nameda	dba Shell Oil Products Us	GROUND SURFACE ELEVATIO TOP OF CASING ELEVATION N SCREENED INTERVAL N DEPTH TO WATER (First Encou		ec-03) <u>\tilde{\</u>		
PiD (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHC	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WE	LL DIAGRAM
WELL LOG (PID) I:NLAMED-2/GINTUG27.GPJ DEFAULT.GDT 1223003		SB-1- 5		5	SP		10% fine sand. Gravelly SAND (SP) 85% fine sand 15%	h brown (10YR 5/4); dry; 90% silt,); yellowish brown (10YR 5/4); dry; fine gravel. light brownish gray (10YR 6/2); dry; (10Y 5/1); moist.	₽	7.0		Portland Type I/II Bottom of Boring @ 7 ft



WELL LOG (PID) I:VALAMED-ZIGINTY0627.GPJ DEFAULT.GDT 12/30/03

BORING/WELL LOG

Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850 Fax: (707) 935-6649

PROJECT DRILLER DRILLER BORING LOGGE	TE NAMI ON CT NUM R IG METI DIAME DIBY VED BY	E F 2 BER 0 6 HOD	160 627 Greg land	ner She Otis D g Drilli d auger	ell Statio Orive, A	on lameda	a, California	SBORING/WELL NAME SB-2 DRILLING STARTED 09-De DRILLING COMPLETED 09-De WELL DEVELOPMENT DATE (Y GROUND SURFACE ELEVATION N SCREENED INTERVAL N DEPTH TO WATER (First Encounded) DEPTH TO WATER (Static)	ec-03) <u>\(\frac{\text{\texts}}{\text{\texts}}\)</u>			
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	ЦТНО	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	W	LL DIAGRAM
0		SB-2- 5			SP		\10% fine sand.	e brown (2.5Y 5/4); dry; 90% silt, ve brown (2.5Y 5/4); dry; 100% (10Y 6/1); moist.	Ā	7.0		Portland Type I/II Bottom of Boring @ 7 ft



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BORING/WELL LOG

PAGE 1 OF 1

		T NAME ITE NAMI IION	IE <u>F</u>	orm	ner She	ell Statio	ion	dba Shell Oil Products US						
		CT NUM		627		1140,		a, California			NA			
	DRILLE								GROUND SURFACE ELI			Surveyed		
		NG MET			d auger	<u>r</u>			TOP OF CASING ELEVA					
		IG DIAME							SCREENED INTERVAL				77	
	LOGGE	ED BY WED BY			ewis riel, RG	6452			DEPTH TO WATER (Firs				ec-03) <u>\rightarrow</u>	
	REMAR		£ 3	•••	101, 130	UTUL.			DEFINIO WATER (Stat	.10)	N	<u> </u>		
ſ	********							7						
	PID (ppm)	BLOW	SAMPLEID	EXTENT	ОЕРТН (fbg)		GRAPHIC LOG		PLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WE	ELL DIAGRAM	
Well Log (PID) I:MLAMED-2(GINT)0627.GPJ DEFAULT.GDT 12/30/03	OId O		SB-3- 5		5 - 5 - 7	SP SP	GR GR	SILT (ML); yellowish	n brown (10YR 5/4); dry; 90 ay (2.5Y 7/2); dry; 100% fine (10Y 5/1); moist.	9% silt, e sand. - ↓	0.5 7.0		Portland Type I/II Bottom of Boring @ 7 ft	
WELL LOG (PID)											:			



BORING/WELL LOG

PAGE 1 OF 1

Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850 Fax: (707) 935-6649

JO	IENT NAI B/SITE N CATION		F	orm	ner She	Il Statio	ion		ING/WELL NAME LING STARTED LING COMPLETED	09-Dec-03			
PR	OJECT N	IUMBE	R 0	627	<i></i>			WEL	L DEVELOPMENT	DATE (YIELD)			
	ILLER ILLING N	AETHO!			ig Drillir d auger				UND SURFACE EL OF CASING ELEVA			Surveyed	
	RING DI		R 3	н					EENED INTERVAL		Voyeu		
	GGED B				ewis	0.450			TH TO WATER (Firs				ec-03) <u>\frac{\triangle}{\triangle}}</u>
	VIEWED MARKS	D1	<u>A</u>	<u>. FU</u>	iel, RG	0432		UEP	TH TO WATER (Sta	tic)	N	<u> </u>	
													
(mon) Clo	PILD (ppm)	COUNTS	SAMPLEID	EXTENT	DEPTH (fbg)		GRAPHIC LOG	<u> </u>	DESCRIPTION		CONTACT DEPTH (fbg)	W	ELL DIAGRAM
		į			 - - - -	ML		SILT (ML); yellowlsh brown 10% fine sand. SAND (SP); light gray (2.5' @ 3' - greenish gray (10Y 5.	Y 7/2); dry; 100% fin	· /	0.5		✓ Soil
0		Si	B-4- 5		 - 5 -	SP		@ 5' - wet	1), moist.	Δ	7.0		Portland Type
					-		123.5				7.0	77.77.77	Bottom of Boring @ 7 ft
	ļ					, i				!			
					:								
12/30/03	Į.		,										
DEFAULT.GDT													
INTOGZ7.GPJ													
:VALAMED-21G	71-51-2					1				:	X		
WELL LOG (PID) I:VALAMED-2/GINT/0627.GPJ DEFAULT.GDT 12/30/03				:									



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BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC dba Shell Oil Produc	ts US BORING/WELL NAME SB-5
JOB/SITE NAME _	Former Shell Station	DRILLING STARTED 09-Dec-03
LOCATION	2160 Otis Drive, Alameda, California	DRILLING COMPLETED 09-Dec-03
PROJECT NUMBER_	0627	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Hand auger	TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER_	3"	SCREENED INTERVAL NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered) 5.0 ft (09-Dec-03)
REVIEWED BY	A. Friel, RG 6452	DEPTH TO WATER (Static) NA

REMARKS											
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	₩	LL DIAGRAM
0		SB-5- 5		5 -	SP		SILT (ML); yellowish brown (10YR 5/4); dry; 90% silt, 10% fine sand. SAND (SP); light gray (2.5Y 7/2); dry; 100% fine sand. © 3' - greenish gray (10Y 5/1); moist. © 5' - wet	·Δ	7.0		Portland Type I/II Bottom of Boring @ 7 ft
							v				
								:			