CAMBRIA

August 5, 1999

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway #250
Alameda, California 94502

Re: **Site Investigation Report**
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident #97109122

Dear Mr. Chan:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equiva Services LLC (Equiva) to document site investigation activities at the above referenced site. The purpose of the investigation was to define the extent of hydrocarbons in soil and groundwater on the property. The scope of work followed during this investigation was presented in Cambria's October 27, 1998 *Investigation Work Plan* and was approved with additional requirements by Alameda County Health Care Services Agency (ACHCSA) November 6, 1998 correspondence. The work was performed in accordance with ACHCSA and San Francisco Bay Regional Water Quality Control Board (RWQCB) guidelines.

SITE BACKGROUND

Site Description: The site is currently a vacant lot located on the northern corner of Foothill Boulevard and Fruitvale Avenue in Oakland, California (Plate 1). It is a former Shell Service station and all underground storage tanks (USTs) are believed to have been removed (Plate 2).

Previous Investigation: On January 3, 1996, AllCal Property Services, Inc. (AllCal) of Hayward, California drilled five soil borings onsite and collected soil and groundwater samples. Soil samples collected at 21 feet below grade (fbg) beneath the former UST complex contained 830 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg) and 410 ppm total petroleum hydrocarbons as diesel (TPHd), and groundwater samples contained 3,400 parts per billion (ppb) TPHg, 40,000 ppb TPHd, and 9.6 ppb benzene. The laboratory described the TPHg and TPHd chromatographs as not matching the gasoline and diesel standards and suggested they may be a result of strongly aged gasoline and/or Stoddard solvent. Groundwater was encountered at depths ranging from 21.5 to 23 fbg during the investigation. These activities are summarized in AllCal's January 18, 1996 report entitled *Soil and Groundwater Investigation.*

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

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

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As a result of this investigation, AllCal filed an Unauthorized Release Report on February 1, 1996.

INVESTIGATION RESULTS

Personnel Present: Senior staff scientist Troy Buggle directed the field sampling, working under the supervision of California Professional Engineer Diane Lundquist.

Permit: Cambria obtained drilling permit #49WR123 from the Alameda County Public Works Agency (Appendix A).

Drilling Company: Gregg Drilling of Martinez, California (C57 License #485165)

Drilling Date: March 31, 1999.

Drilling Method: GeoProbe®.

Sampling Methods: Soil lithology was logged using the Unified Soil Classification System. Encountered lithology is described on the exploratory boring logs presented in Appendix B. Soil samples were collected at 5-foot intervals from the borings for lithologic description, potential chemical analysis, and headspace analysis. Soil samples were screened for the presence of organic vapors using a photo-ionization detector (PID). PID readings are recorded on the boring logs.

Number of Borings: Three borings (SBA through SBC). Boring specifications are described on Table 1 and locations are shown on Plate 2.

Boring Depths: 25.0 fbg.

Groundwater Depths: Groundwater was encountered at depths ranging from 16.47 to 17.20 fbg during drilling activities. Groundwater stabilized at depths ranging from 16.42 to 17.17 fbg.

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Sediment Lithology: Lithology encountered while drilling the borings consisted primarily of clayey sand (SC) and clay (CL) to depths of approximately 21.5 to 25 fbg, underlain by sand (SP) to the total explored depth of 25 fbg (Appendix B).

Soil Chemical Analyses: Selected soil samples from Borings SBA through SBC were analyzed for total purgeable petroleum hydrocarbons as gasoline (TPPH) and total extractable petroleum hydrocarbons as ~~gasoline~~ diesel (TEPH) by EPA Method 8015 and benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8020. Selected soil samples from Boring SBA were also analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1, cadmium, chromium, lead, nickel, and zinc by EPA Method 6010A, halogenated volatile organics (HVOCs) by EPA Method 8010, and semivolatile organics (SVOCs) by EPA Method 8270.

Soil Physical Analyses: Selected soil samples were analyzed for fraction of organic carbon, percent moisture content, dry bulk density, and porosity.

Temporary Well Construction

Well Materials: Slotted Schedule 40 PVC casing was installed into Borings SBA through SBC temporarily.

Well Elevation Survey: Cambria surveyed well elevations relative to site datum on March 31, 1999.

Groundwater Elevations: Groundwater elevations ranged from 78.48 to 78.61 feet relative to site datum. Groundwater flows southeast at the site at an approximate hydraulic gradient of 0.001 (Plate 3).

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Groundwater Analyses: After groundwater stabilized, Cambria collected samples. All groundwater samples were analyzed for TPPH, TEPH, BTEX, and MTBE by EPA Methods 8020 and 8260. Groundwater samples from Boring SBA were also analyzed for TRPH, cadmium, chromium, lead, nickel, and zinc, HVOCs, and SVOCs.

Backfill Method: The well casings were removed and Borings SBA through SBC were backfilled with neat cement grout to grade.

CONSTITUENTS OF CONCERN IN SOIL

Boring SBA contained TPPH concentrations ranging from 13 to 61 ppm, TEPH ranging from 510 to 1,500 ppm, TRPH ranging from 6,840 to 11,100 ppm, benzene ranging from not detected (ND) to 0.057 ppm, and MTBE ranging from ND to 0.26 ppm. Boring SBB contained TEPH concentrations ranging from 1.1 to 2.4 ppm and MTBE concentrations ranging from ND to 0.042 ppm. No TPPH or benzene was detected in Boring SBB. Boring SBC contained TEPH concentrations ranging from 2.0 to 4.0 ppm. No TPPH, benzene, or MTBE was detected in Boring SBC.

Chromium was detected in Boring SBA ranging from 17 to 49 ppm, lead ranging from 14 to 410 ppm, nickel ranging from 34 to 82 ppm, and zinc ranging from 29 to 87 ppm.

Boring SBA contained tetrachloroethene (PCE) at 0.046 ppm and phenol at 3.6 ppm in the soil sample collected at 10.0 fbg.

The soil chemical analytical data are summarized in Table 2 and presented on Plate 2. Laboratory analytical reports are presented in Appendix C.

CONSTITUENTS OF CONCERN IN GROUNDWATER

The water samples collected from Borings SBA through SBC contained TPPH concentrations ranging from 1,100 to 5,100 ppb, TEPH ranging from 890 to 28,000 ppb, and benzene ranging from 1.3 to 13 ppb. Analyses by EPA Method 8260 confirmed the absence of MTBE in groundwater. Boring SBA also contained 23,000 ppb TRPH.

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Groundwater from Boring SBA contained chromium at 35 ppb, lead at 710 ppb, nickel at 250 ppb, and zinc at 170 ppb.

Groundwater from Boring SBA also contained cis-1,2-dichloroethene at 4.1 ppb, PCE at 15 ppb, trichlrorethene at 4.7 ppb, bis(2-ethylhexyl)phthalate at 35 ppb, butyl benzyl phthalate at 13 ppb, 2-methylnaphthalene at 46 ppb, naphthalene at 68 ppb, and pyrene at 14 ppb.

Groundwater chemical analytical data are summarized in Table 3 and presented on Plate 3. Laboratory analytical data are presented in Appendix C.

need former TDS.

CONCLUSIONS

Soil and groundwater collected in the former waste oil tank area and near the property boundaries have been impacted by petroleum hydrocarbons.

Boring SBA, located in the former waste oil tank area, contained the highest concentrations of petroleum hydrocarbons in soil with maximum concentrations of 61 ppm TPPH, 1,500 ppm TEPH, and 11,100 ppm TRPH. Benzene was only detected at 0.57 ppm in soil from Boring SBA at a depth below groundwater. MTBE was detected at low concentrations by EPA Method 8020 in soil from Borings SBA and SBB at depths near the capillary fringe and below groundwater. However, as the more reliable EPA Method 8260 did not detect MTBE in groundwater samples, it is likely that these soil results are false positives. (maybe / maybe not) should confirm with Soil data by 8260

Boring SBB contained the maximum TPPH concentration of 5,100 ppb. Boring SBA contained the maximum TEPH and benzene concentrations of 28,000 and 13 ppb, respectively. MTBE was not detected in groundwater by EPA Method 8260. The concentrations of lead, PCE, and bis(2-ethylhexyl)phthalate detected in groundwater from Boring SBA exceed the California primary maximum contaminant levels for drinking water; however, groundwater from this site is not likely a drinking water source. (Confirm with Kuo)

Further review of the data will be performed to evaluate whether a risk-based corrective action (RBCA) analysis is appropriate at this time.

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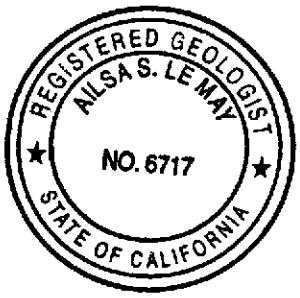
If you have any questions regarding the contents of this document, please call Joe Neely at (707) 935-4854.

Sincerely,
Cambria Environmental Technology, Inc.

for Aubrey K. Cool
Staff Geologist

Ailsa S. Le May
Senior Geologist
RG # 6717



Attachments:

Table 1. Boring Data
Table 2. Soil Analytical Data
Table 3. Groundwater Analytical Data

Plate 1. Site Vicinity Map
Plate 2. Soil Boring Locations/Soil Chemical Analytical Map
Plate 3. Groundwater Contour/Chemical Analytical Map

Appendix A. Drilling Permit
Appendix B. Exploratory Boring Logs
Appendix C. Certified Analytical Reports

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249 Carson, CA 90749-6249
Mr. Tom Maher, Shell Oil Products Company, P.O. Box 2099, Houston, TX 77252
Mr. David Harris, Trump, Alioto, Trump & Prescott LLP, 2280 Union Street, San Francisco, CA 94123
Mr. Jose Dorado, 3808 International Blvd., Suite A, Oakland, CA 94601

TABLE 1

BORING DATA
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident #97109122

Name	Type	Date Installed	Surface Elev (ft)*	Total Depth (ft)	Soil Sample (ft)		First Encountered GW		Screen Diam. (In)	Screen Depth (ft)		Comments
					Incr. or	Depth(s)	Depth (ft)	Elev (ft)		Top	Bottom	
SBA	Boring (GeoProbe)	31-Mar-99	95.43	25.0	5	-	16.82	78.61	-	-	-	
SBB	Boring (GeoProbe)	31-Mar-99	95.65	25.0	5	-	17.17	78.48	-	-	-	
SBC	Boring (GeoProbe)	31-Mar-99	94.95	25.0	5	-	16.42	78.53	-	-	-	

Notes:

*Elevation relative to site datum

TABLE 2

SOIL ANALYTICAL DATA
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident #97109122

Sample Depth (ft)	Date Sampled	TPPH (mg/kg)	TEPH (mg/kg)	TRPH (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	Primary Soil Type (Unified Soil Class)	Comments
SBA											
10.0	31-Mar-99	61	1500	11100	<0.050	<0.050	<0.050	0.21	<0.25	CL	Chromium-49 ppm, Lead-370 ppm, Nickel-82 ppm, Zinc-87 ppm. HVOCs ND except Tetrachloroethene-0.046 ppm. SVOCs ND except Phenol-3.6 ppm.
15.5	31-Mar-99	13	1100	10100	<0.0050	<0.0050	0.019	0.19	<0.025	CL	Chromium-37 ppm, Lead-410 ppm, Nickel-55 ppm, Zinc-70 ppm. HVOCs and SVOCs ND.
22.5	31-Mar-99	34	510	6840	0.057	0.41	0.16	0.45	0.26	SP	Chromium-17 ppm, Lead-14 ppm, Nickel-34 ppm, Zinc-29 ppm. HVOCs and SVOCs ND.
SBB											
6.0	31-Mar-99	<1.0	2.4	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	SC	
16.0	31-Mar-99	<1.0	1.2	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.042	SC	
20.5	31-Mar-99	<1.0	1.1	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.026	CL	
SBC											
5.5	31-Mar-99	<1.0	4.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	CL	
15.5	31-Mar-99	<1.0	2.1	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	CL	
20.5	31-Mar-99	<1.0	2.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	CL	

TABLE 2

SOIL ANALYTICAL DATA
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident #97109122

Sample Depth (ft)	Date Sampled	TPPH (mg/kg)	TEPH (mg/kg)	TRPH (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	Primary Soil Type (Unified Soil Class)	Comments

Abbreviations and Notes:

NA = Not analyzed.

<x = Not detected at method detection limit of x.

TPPH = Total purgeable petroleum hydrocarbons carbon range C6 to C12 by EPA Method 8015 (Modified).

TEPH = Total extractable petroleum hydrocarbons by EPA Method 8015 (Modified).

TRPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1.

BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020.

MTBE = Methyl tertiary butyl ether by EPA Method 8020.

Cadmium, chromium, lead, nickel, and zinc by EPA Method 6010A.

HVOCs = Halogenated volatile organics by EPA Method 8010.

SVOCs = Semivolatile organics by EPA Method 8270.

Should filter / Silicagel cleanup

gas TOG diesel

TABLE 3

GROUNDWATER ANALYTICAL DATA
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident #97109122

Sample	Date Sampled	TPPH (ug/L)	TRPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE by 8020 (ug/L)	MTBE by 8260A (ug/L)	Comments
SBA-W											
	31-Mar-99	1100	23000	28000	13	<2.5	5.1	52	<12	<2.00	Chromium-35 ppb, Lead-710 ppb, Nickel-250 ppb, Zinc-170 ppb. HVOCs ND except cis-1,2-Dichloroethene-4.1 ppb, Tetrachloroethene-15 ppb, Trichloroethene-4.7 ppb. SVOCs ND except Bis(2-ethylhexyl)phthalate-35 ppb, Butyl benzyl phthalate-13 ppb, 2-Methylnaphthalene-46 ppb, Naphthalene-68 ppb, Pyrene-14 ppb.
SBB-W											
	31-Mar-99	5100	NA	3300	8.8	15	25	24	<25	<2.00	
SBC-W											
	31-Mar-99	2500	NA	890	1.3	25	5.8	19	8.5	<2.00	

Abbreviations:

NA = Not analyzed.

<x = Not detected at method detection limit of x.

TPPH = Total purgeable petroleum hydrocarbons carbon range C6 to C12 by EPA Method 8015 (Modified).

TPPH = Total extractable petroleum hydrocarbons by EPA Method 8015 (Modified).

TPPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1.

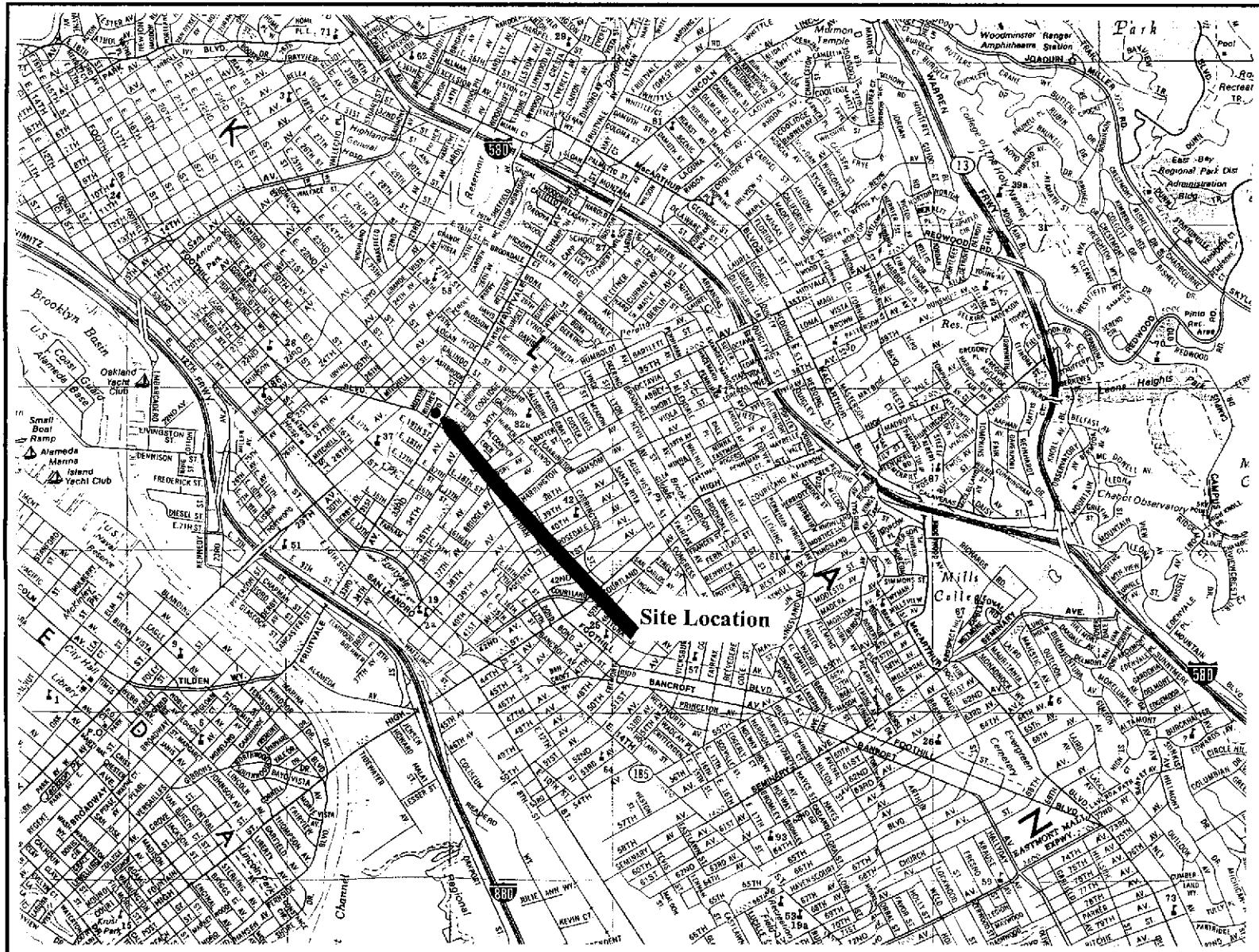
BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020.

MTBE = Methyl tertiary butyl ether.

Cadmium, chromium, lead, nickel, and zinc by EPA Method 200.7.

HVOCS = Halogenated volatile organics by EPA Method 8010.

SVOCS = Semivolatile organics by EPA Method 8270.



Note: Vicinity Map taken from Rand McNally & Company Map

PLATE
1

SITE VICINITY MAP
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California

CAMBRIA
241-1296

Drawn By: MEH

Date: 14-June-99

Approved By: _____ Date: _____

EXPLANATION

⊙ SBA — Soil Boring

61/1500/<0.050/<0.25/10.0' — TPPH/TEPH/Benzene/MTBE/Depth in feet
Concentrations in soil in ppm
ND = Not Detected
< x = Below elevated detection limit x

Note: Samples collected on 31-Mar-99

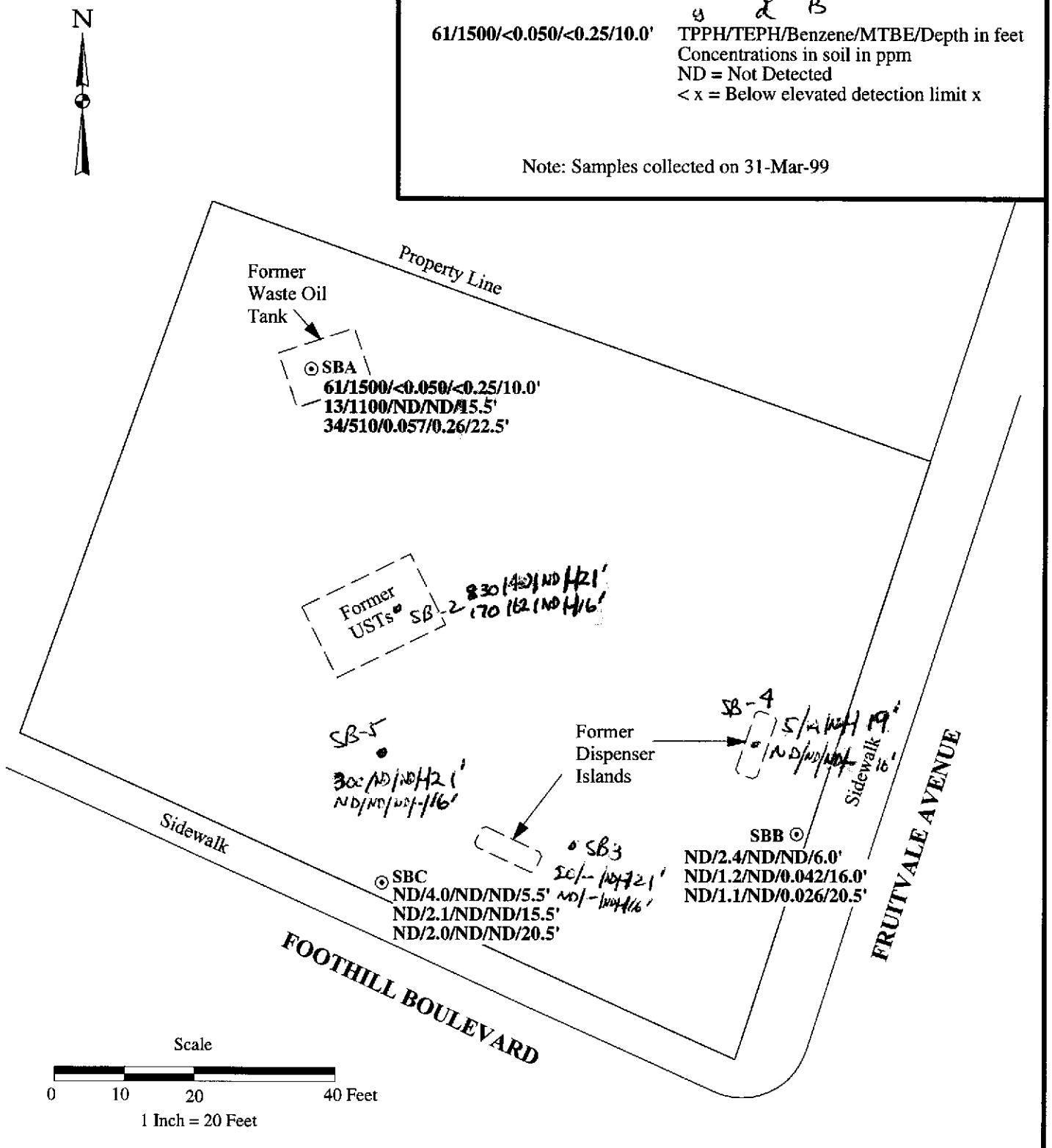


PLATE 2

SOIL BORING LOCATIONS/SOIL CHEMICAL ANALYTICAL MAP
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California

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241-1296

Drawn By: AKC Date: 03-Jun-99 | Approved By:_____ Date:_____

EXPLANATION

⊙ SBA	Soil Boring
78.61	Groundwater elevation relative to site datum.
(1000/28000/13/ND)	T d b TPPH/TEPH/Benzene/MTBE Concentrations in groundwater in ppb ND = Not Detected
	Groundwater elevation contour. Arrows indicate approximate ground water flow direction.

Note: Water depths and samples collected on 31-Mar-99
Approximate hydraulic gradient = 0.001

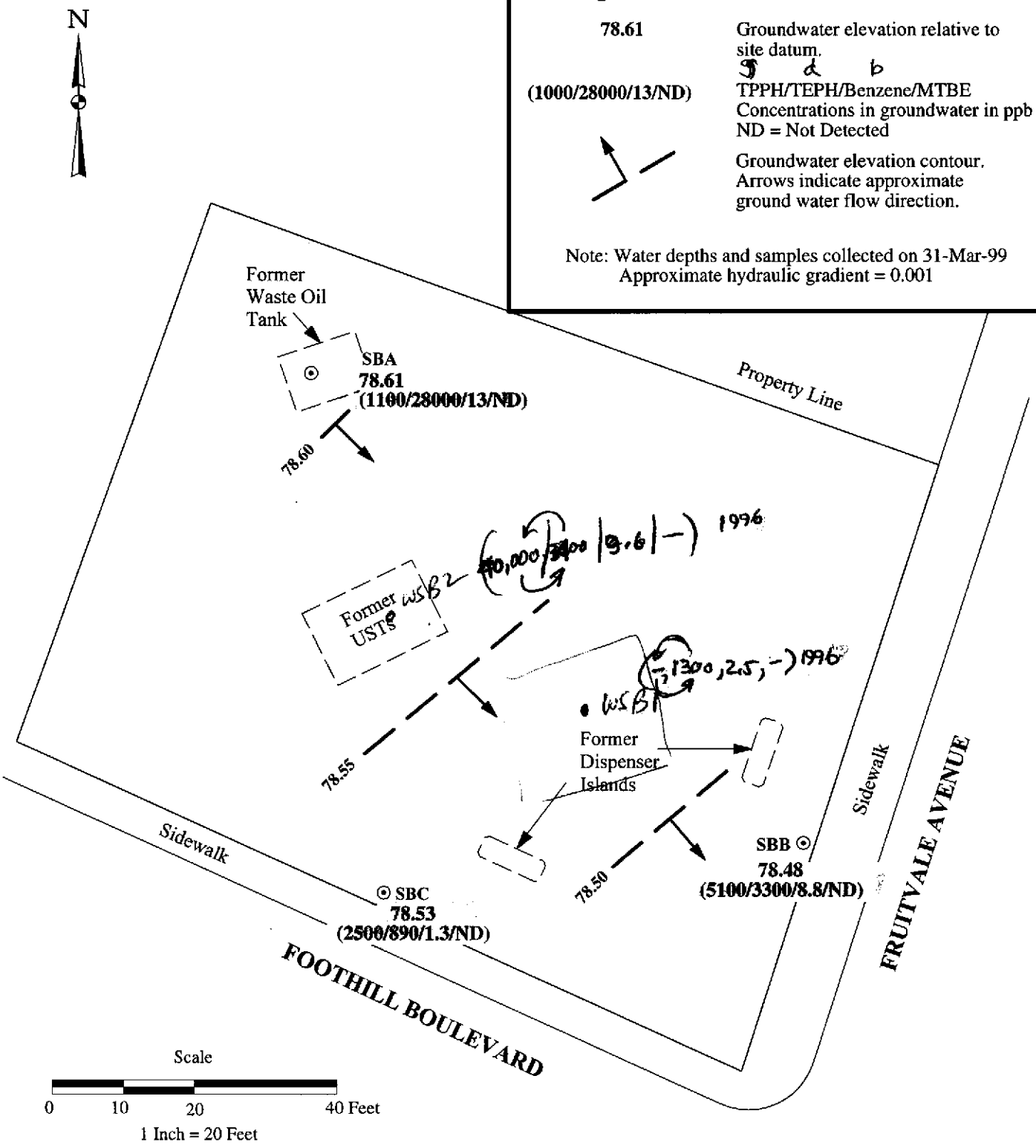

PLATE 3

GROUNDWATER CONTOUR/CHEMICAL ANALYTICAL MAP
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California

CAMBRIA
241-1296

Drawn By: AKC Date: 03-Jun-99 | Approved By:_____ Date:_____

Appendix A

Drilling Permit

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

COPY

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2001 FRUITVALE AVE., OAKLAND

California Coordinates Source ____ % Accuracy ± ____ ft.
CCN ____ / ____ / ____ ft. CE ____ / ____ / ____
APN ____ / ____ / ____

CLIENT
Name EQUILON ENTERPRISES LLC
Address P.O. Box 6249 Phone (562) 496-2806
City CARSON, CA Zip 90749-6249

APPLICANT
Name CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC. Fax (707) 935-6649
Address P.O. Box 259 Phone (707) 935-4850
City SONOMA, CA Zip 95476

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☑
Monitoring	☐	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other ____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	Other	☑	Geo Probe	

DRILLER'S LICENSE NO. C57 485165

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Number ____

GEOTECHNICAL PROJECTS
Number of Borings 3 Maximum
Hole Diameter 2 in Depth 35 ft.

ESTIMATED STARTING DATE 3-30-99
ESTIMATED COMPLETION DATE 3-31-99

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

APPLICANT'S SIGNATURE Aubrey K. Cool DATE 2-24-99

FOR OFFICE USE

PERMIT NUMBER 99WR123
WELL NUMBER ____
APN ____

PERMIT CONDITIONS

Circled Permit Requirements Apply

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 work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
(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 cement grout placed by tremie.
2. Minimum seal 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
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED Andreas Godfrey DATE 3/26/99

** TOTAL PAGE.02 **

Appendix B

Exploratory Boring Logs

Field Exploratory Boring Log SBA

PID (ppm)	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
	Sampled using pneumatic hammer; blow counts not available.					Clayey Sand (SC) Brown; loose; damp; 15% clay, 5% silt, 65% sand, 15% gravel.
83.5		SBA 5.5 SBA 6.0		5		Clay (CL) Grayish brown; stiff; dry; 55% clay, 20% silt, 25% sand; low plasticity.
		SBA 10.0 SBA 10.5		10		@ 10': as above, dry.
96.8						
305		SBA 15.5 SBA 16.0		15		@ 15': as above, dry; 40% clay, 5% silt, 30% sand, 25% gravel.
				▼		
387		SBA 20.5 SBA 21.0		20		@ 20': as above, very stiff; dry; 40% clay, 15% silt, 30% sand, 15% gravel.
		SBA 22.5 SBA 23.0				Sand (SP) Gray; loose; wet; 5% clay, 80% sand, 15% gravel.
1999+		SBA 24.5 SBA 25.0		25		Total Depth of Boring = 25.0 feet
				30		

BORING
SBA

Former Shell Service Station
2001 Fruitvale
Oakland, California

Borehole Diameter:	2 inches
Logged by:	T. Buggle
Driller:	Gregg
Date Started:	31-Mar-99
Date Completed:	31-Mar-99

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241-1296

Field Exploratory Boring Log SBB

PID (ppm)	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
	Sampled using pneumatic hammer; blow counts not available.					Clayey Sand (SC) Brown; loose; dry; 15% clay, 80% sand, 5% gravel.
18		SBB 5.5 SBB 6.0		5		@ 5': as above, medium dense; dry; 25% clay, 60% sand, 15% gravel.
12.3		SBB 10.5 SBB 11.0		10		Clay (CL) Brown; stiff; dry; 55% clay, 5% silt, 20% sand, 20% gravel; low plasticity.
17.4		SBB 15.5 SBB 16.0		15		Clayey Sand (SC) Brown; medium dense; dry; 35% clay, 10% silt, 55% sand.
						@ 19': as above, grayish brown; damp; 40% clay, 35% sand, 25% gravel.
21.2		SBB 20.5 SBB 21.0		20		@ 22': as above, gray; loose; wet; 25% clay, 75% sand.
		SBB 23.5				
1675		SBB 24.5 SBB 25.0		25		@ 24': as above, medium dense; wet; 20% clay, 60% sand, 20% gravel. Total Depth of Boring = 25.0 feet
				30		

BORING
SBB

Former Shell Service Station
2001 Fruitvale
Oakland, California

Borehole Diameter:	2 inches
Logged by:	T. Buggle
Driller:	Gregg
Date Started:	31-Mar-99
Date Completed:	31-Mar-99

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Field Exploratory Boring Log SBC

PID (ppm)	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
	Sampled using pneumatic hammer; blow counts not available.					Clay (CL) Brown; soft; damp; 50% clay, 5% silt, 40% sand, 5% gravel; low plasticity.
39		SBC 5.5 SBC 6.0		5		@ 5': as above, stiff; dry; 65% clay, 30% silt, 5% sand.
43		SBC 10.5 SBC 11.0		10		@ 10': as above, dark brown; dry; 60% clay, 20% silt, 15% sand, 5% gravel.
33		SBC 15.5 SBC 16.0		15		@ 15': as above, brown; soft; dry; 60% clay, 5% silt, 35% sand.
16		SBC 20.5 SBC 21.0 SBC 22.5		20		@ 20': as above, grayish brown; medium stiff; damp; 50% clay, 35% sand, 15% gravel.
160		SBC 24.5 SBC 25.0		25		Sand (SP) Light gray; loose; wet; 10% clay, 90% sand. Total Depth of Boring = 25.0 feet
				30		

BORING
SBC

Former Shell Service Station
2001 Fruitvale
Oakland, California

Borehole Diameter:	2 inches
Logged by:	T. Buggle
Driller:	Gregg
Date Started:	31-Mar-99
Date Completed:	31-Mar-99

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Appendix C

Certified Analytical Reports

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Project: Shell 2001 Fruitvale Ave,Oakl

Enclosed are the results from samples received at Sequoia Analytical on April 1, 1999. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9904172 -01	SOIL, SBA 6.0'	03/31/99	Fraction Organic Carbon
9904172 -01	SOIL, SBA 6.0'	03/31/99	Moisture, Percent
9904172 -02	SOIL, SBA 10.0'	03/31/99	C8010S Halogenated Volatil
9904172 -02	SOIL, SBA 10.0'	03/31/99	8270 SemiVolatile Organi
9904172 -02	SOIL, SBA 10.0'	03/31/99	Cadmium by ICP
9904172 -02	SOIL, SBA 10.0'	03/31/99	Chromium by ICP
9904172 -02	SOIL, SBA 10.0'	03/31/99	Nickel by ICP
9904172 -02	SOIL, SBA 10.0'	03/31/99	Lead by ICP
9904172 -02	SOIL, SBA 10.0'	03/31/99	Zinc by ICP
9904172 -02	SOIL, SBA 10.0'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -02	SOIL, SBA 10.0'	03/31/99	TPHD_S Extractable TPH
9904172 -03	SOIL, SBA 15.5'	03/31/99	C8010S Halogenated Volatil
9904172 -03	SOIL, SBA 15.5'	03/31/99	8270 SemiVolatile Organi
9904172 -03	SOIL, SBA 15.5'	03/31/99	Cadmium by ICP
9904172 -03	SOIL, SBA 15.5'	03/31/99	Chromium by ICP
9904172 -03	SOIL, SBA 15.5'	03/31/99	Nickel by ICP
9904172 -03	SOIL, SBA 15.5'	03/31/99	Lead by ICP
9904172 -03	SOIL, SBA 15.5'	03/31/99	Zinc by ICP
9904172 -03	SOIL, SBA 15.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -03	SOIL, SBA 15.5'	03/31/99	TPHD_S Extractable TPH
9904172 -04	SOIL, SBA 22.5'	03/31/99	C8010S Halogenated Volatil

SEQUOIA ANALYTICAL

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9904172 -04	SOIL, SBA 22.5'	03/31/99	8270 SemiVolatile Organi
9904172 -04	SOIL, SBA 22.5'	03/31/99	Cadmium by ICP
9904172 -04	SOIL, SBA 22.5'	03/31/99	Chromium by ICP
9904172 -04	SOIL, SBA 22.5'	03/31/99	Nickel by ICP
9904172 -04	SOIL, SBA 22.5'	03/31/99	Lead by ICP
9904172 -04	SOIL, SBA 22.5'	03/31/99	Zinc by ICP
9904172 -04	SOIL, SBA 22.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -04	SOIL, SBA 22.5'	03/31/99	TPHD_S Extractable TPH
9904172 -05	SOIL, SBB-5.5'	03/31/99	Fraction Organic Carbon
9904172 -05	SOIL, SBB-5.5'	03/31/99	Moisture, Percent
9904172 -06	SOIL, SBB-6.0'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -06	SOIL, SBB-6.0'	03/31/99	TPHD_S Extractable TPH
9904172 -07	SOIL, SBB-16.0'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -07	SOIL, SBB-16.0'	03/31/99	TPHD_S Extractable TPH
9904172 -08	SOIL, SBB-20.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -08	SOIL, SBB-20.5'	03/31/99	TPHD_S Extractable TPH
9904172 -09	SOIL, SBC-5.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -09	SOIL, SBC-5.5'	03/31/99	TPHD_S Extractable TPH
9904172 -10	SOIL, SBC-6.0'	03/31/99	Fraction Organic Carbon
9904172 -10	SOIL, SBC-6.0'	03/31/99	Moisture, Percent
9904172 -11	SOIL, SBC-15.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -11	SOIL, SBC-15.5'	03/31/99	TPHD_S Extractable TPH
9904172 -12	SOIL, SBC-20.5'	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -12	SOIL, SBC-20.5'	03/31/99	TPHD_S Extractable TPH
9904172 -13	SOIL, SBC-22.5'	03/31/99	Fraction Organic Carbon

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9904172 -13	SOIL, SBC-22.5'	03/31/99	Moisture, Percent
9904172 -14	LIQUID, SBA-W	03/31/99	Halogen. Volatiles, Water
9904172 -14	LIQUID, SBA-W	03/31/99	8270 SemiVolatile Organi
9904172 -14	LIQUID, SBA-W	03/31/99	TPHD_W Extractable TPH
9904172 -14	LIQUID, SBA-W	03/31/99	Cadmium by ICP
9904172 -14	LIQUID, SBA-W	03/31/99	Chromium by ICP
9904172 -14	LIQUID, SBA-W	03/31/99	Nickel by ICP
9904172 -14	LIQUID, SBA-W	03/31/99	Lead by ICP
9904172 -14	LIQUID, SBA-W	03/31/99	Zinc by ICP
9904172 -14	LIQUID, SBA-W	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -15	LIQUID, SBB-W	03/31/99	TPHD_W Extractable TPH
9904172 -15	LIQUID, SBB-W	03/31/99	Purgeable TPH/BTEX/MTBE
9904172 -16	LIQUID, SBC-W	03/31/99	TPHD_W Extractable TPH
9904172 -16	LIQUID, SBC-W	03/31/99	Purgeable TPH/BTEX/MTBE

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-01
Sample Descript: SOIL,SBA 6.0'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Fraction Organic Carbon		0.020	WalkleyBlack	KC	04/13/99	0.39
Moisture, Percent	%	1.0	EPA 160.3	KC	04/13/99	14

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-02
Sample Descript: SOIL,SBA 10.0'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Cadmium by ICP	mg/Kg	0.50	EPA 6010A	MV	04/14/99	N.D.
Chromium by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/14/99**	**49**
Lead by ICP	**mg/Kg**	**5.0**	**EPA 6010A**	**MV**	**04/14/99**	**370**
Nickel by ICP	**mg/Kg**	**2.5**	**EPA 6010A**	**MV**	**04/14/99**	**82**
Zinc by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/14/99**	**87**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
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Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-03
Sample Descript: SOIL,SBA 15.5'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Cadmium by ICP	mg/Kg	0.50	EPA 6010A	MV	04/09/99	N.D.
Chromium by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/09/99**	**37**
Lead by ICP	**mg/Kg**	**5.0**	**EPA 6010A**	**MV**	**04/09/99**	**410**
Nickel by ICP	**mg/Kg**	**2.5**	**EPA 6010A**	**MV**	**04/09/99**	**55**
Zinc by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/09/99**	**70**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-04
Sample Descript: SOIL,SBA 22.5'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Cadmium by ICP	mg/Kg	0.50	EPA 6010A	MV	04/09/99	N.D.
Chromium by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/09/99**	**17**
Lead by ICP	**mg/Kg**	**5.0**	**EPA 6010A**	**MV**	**04/09/99**	**14**
Nickel by ICP	**mg/Kg**	**2.5**	**EPA 6010A**	**MV**	**04/09/99**	**34**
Zinc by ICP	**mg/Kg**	**0.50**	**EPA 6010A**	**MV**	**04/09/99**	**29**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-05
Sample Descript: SOIL,SBB-5.5'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Fraction Organic Carbon		0.020	WalkleyBlack	KC	04/13/99	0.37
Moisture, Percent	%	1.0	EPA 160.3	KC	04/13/99	14

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl
Lab Proj. ID: 9904172-10
Sample Descript: SOIL,SBC-6.0'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below
Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Fraction Organic Carbon		0.020	WalkleyBlack	KC	04/13/99	0.32
Moisture, Percent	%	1.0	EPA 160.3	KC	04/13/99	15

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-13
Sample Descript: SOIL,SBC-22.5'

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Fraction Organic Carbon		0.020	WalkleyBlack	KC	04/13/99	0.084
Moisture, Percent	%	1.0	EPA 160.3	KC	04/13/99	11

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Project Manager

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl

Lab Proj. ID: 9904172-14

Sample Descript: LIQUID,SB4-W

Sampled: 03/31/99
Received: 04/01/99
Analyzed: see below

Reported: 04/24/99

LABORATORY ANALYSIS

Analyte	Units	Detection Limit	Method	Analyst	Date Analyzed	Sample Results
Cadmium by ICP	mg/L	0.010	EPA 200.7	MV	04/09/99	
Chromium by ICP	**mg/L**	**0.010**	**EPA 200.7**	**MV**	**04/09/99**	
Lead by ICP	**mg/L**	**0.10**	**EPA 200.7**	**MV**	**04/09/99**	
Nickel by ICP	**mg/L**	**0.050**	**EPA 200.7**	**MV**	**04/09/99**	
Zinc by ICP	**mg/L**	**0.010**	**EPA 200.7**	**MV**	**04/09/99**	

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Please Note:
This sample was preserved in accordance with EPA approved preservation methods.

Sequoia Analytical

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl
Sample Descript: SBA 10.0'
Matrix: SOIL
Analysis Method: EPA 8010
Lab Number: 9904172-02

Sampled: 03/31/99
Received: 04/01/99

Analyzed: 04/13/99
Reported: 04/24/99

QC Batch Number: SP0413998010EXA
Instrument ID: HP-7

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	**25**	**46**
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limits %		% Recovery
Dibromodifluoromethane	50	150	81
4-Bromofluorobenzene	50	150	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 10.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-02	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	2500	N.D.
Acenaphthylene	2500	N.D.
Anthracene	2500	N.D.
Benzoic Acid	5000	N.D.
Benzo(a)anthracene	2500	N.D.
Benzo(b)fluoranthene	2500	N.D.
Benzo(k)fluoranthene	2500	N.D.
Benzo(g,h,i)perylene	2500	N.D.
Benzo(a)pyrene	2500	N.D.
Benzyl alcohol	2500	N.D.
Bis(2-chloroethoxy)methane	2500	N.D.
Bis(2-chloroethyl)ether	2500	N.D.
Bis(2-chloroisopropyl)ether	2500	N.D.
Bis(2-ethylhexyl)phthalate	5000	N.D.
4-Bromophenyl phenyl ether	2500	N.D.
Butyl benzyl phthalate	2500	N.D.
4-Chloroaniline	5000	N.D.
2-Chloronaphthalene	2500	N.D.
4-Chloro-3-methylphenol	2500	N.D.
2-Chlorophenol	2500	N.D.
4-Chlorophenyl phenyl ether	2500	N.D.
Chrysene	2500	N.D.
Dibenzo(a,h)anthracene	2500	N.D.
Dibenzofuran	2500	N.D.
Di-n-butyl phthalate	5000	N.D.
1,2-Dichlorobenzene	2500	N.D.
1,3-Dichlorobenzene	2500	N.D.
1,4-Dichlorobenzene	2500	N.D.
3,3'-Dichlorobenzidine	5000	N.D.
2,4-Dichlorophenol	2500	N.D.
Diethyl phthalate	2500	N.D.
2,4-Dimethylphenol	2500	N.D.
Dimethyl phthalate	2500	N.D.
4,6-Dinitro-2-methylphenol	5000	N.D.
2,4-Dinitrophenol	5000	N.D.
2,4-Dinitrotoluene	2500	N.D.
2,6-Dinitrotoluene	2500	N.D.
Di-n-octyl phthalate	2500	N.D.
Fluoranthene	2500	N.D.

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 10.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-02	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	2500	N.D.
Hexachlorobenzene	2500	N.D.
Hexachlorobutadiene	2500	N.D.
Hexachlorocyclopentadiene	5000	N.D.
Hexachloroethane	2500	N.D.
Indeno(1,2,3-cd)pyrene	2500	N.D.
Isophorone	2500	N.D.
2-Methylnaphthalene	2500	N.D.
2-Methylphenol	2500	N.D.
4-Methylphenol	2500	N.D.
Naphthalene	2500	N.D.
2-Nitroaniline	5000	N.D.
3-Nitroaniline	5000	N.D.
4-Nitroaniline	5000	N.D.
Nitrobenzene	2500	N.D.
2-Nitrophenol	2500	N.D.
4-Nitrophenol	5000	N.D.
N-Nitrosodiphenylamine	2500	N.D.
N-Nitroso-di-n-propylamine	2500	N.D.
Pentachlorophenol	5000	N.D.
Phenanthrene	2500	N.D.
Phenol	**2500**	**3600**
Pyrene	2500	N.D.
1,2,4-Trichlorobenzene	2500	N.D.
2,4,5-Trichlorophenol	5000	N.D.
2,4,6-Trichlorophenol	2500	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	54
Phenol-d5	24	113	70
Nitrobenzene-d5	23	120	95
2-Fluorobiphenyl	30	115	97
2,4,6-Tribromophenol	19	122	68
p-Terphenyl-d14	18	137	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 10.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-02	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**61**
Methyl t-Butyl Ether	0.25	N.D.
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	0.050	N.D.
Xylenes (Total)	**0.050**	**0.21**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76
4-Bromofluorobenzene	60	140	9 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 10.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-02	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**200**	**1500**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	
	Analysis Method: EPA 8010	Analyzed: 04/13/99
Attention: Aubrey Cool	Lab Number: 9904172-03	Reported: 04/24/99

QC Batch Number: SP0413998010EXA
Instrument ID: HP-7

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limits %		% Recovery
Dibromodifluoromethane	50	150	81
4-Bromofluorobenzene	50	150	74

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-03	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	2500	N.D.
Acenaphthylene	2500	N.D.
Anthracene	2500	N.D.
Benzoic Acid	5000	N.D.
Benzo(a)anthracene	2500	N.D.
Benzo(b)fluoranthene	2500	N.D.
Benzo(k)fluoranthene	2500	N.D.
Benzo(g,h,i)perylene	2500	N.D.
Benzo(a)pyrene	2500	N.D.
Benzyl alcohol	2500	N.D.
Bis(2-chloroethoxy)methane	2500	N.D.
Bis(2-chloroethyl)ether	2500	N.D.
Bis(2-chloroisopropyl)ether	2500	N.D.
Bis(2-ethylhexyl)phthalate	5000	N.D.
4-Bromophenyl phenyl ether	2500	N.D.
Butyl benzyl phthalate	2500	N.D.
4-Chloroaniline	5000	N.D.
2-Chloronaphthalene	2500	N.D.
4-Chloro-3-methylphenol	2500	N.D.
2-Chlorophenol	2500	N.D.
4-Chlorophenyl phenyl ether	2500	N.D.
Chrysene	2500	N.D.
Dibenzo(a,h)anthracene	2500	N.D.
Dibenzofuran	2500	N.D.
Di-n-butyl phthalate	5000	N.D.
1,2-Dichlorobenzene	2500	N.D.
1,3-Dichlorobenzene	2500	N.D.
1,4-Dichlorobenzene	2500	N.D.
3,3'-Dichlorobenzidine	5000	N.D.
2,4-Dichlorophenol	2500	N.D.
Diethyl phthalate	2500	N.D.
2,4-Dimethylphenol	2500	N.D.
Dimethyl phthalate	2500	N.D.
4,6-Dinitro-2-methylphenol	5000	N.D.
2,4-Dinitrophenol	5000	N.D.
2,4-Dinitrotoluene	2500	N.D.
2,6-Dinitrotoluene	2500	N.D.
Di-n-octyl phthalate	2500	N.D.
Fluoranthene	2500	N.D.

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-03	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	2500	N.D.
Hexachlorobenzene	2500	N.D.
Hexachlorobutadiene	2500	N.D.
Hexachlorocyclopentadiene	5000	N.D.
Hexachloroethane	2500	N.D.
Indeno(1,2,3-cd)pyrene	2500	N.D.
Isophorone	2500	N.D.
2-Methylnaphthalene	2500	N.D.
2-Methylphenol	2500	N.D.
4-Methylphenol	2500	N.D.
Naphthalene	2500	N.D.
2-Nitroaniline	5000	N.D.
3-Nitroaniline	5000	N.D.
4-Nitroaniline	5000	N.D.
Nitrobenzene	2500	N.D.
2-Nitrophenol	2500	N.D.
4-Nitrophenol	5000	N.D.
N-Nitrosodiphenylamine	2500	N.D.
N-Nitroso-di-n-propylamine	2500	N.D.
Pentachlorophenol	5000	N.D.
Phenanthrene	2500	N.D.
Phenol	2500	N.D.
Pyrene	2500	N.D.
1,2,4-Trichlorobenzene	2500	N.D.
2,4,5-Trichlorophenol	5000	N.D.
2,4,6-Trichlorophenol	2500	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	68
Phenol-d5	24	113	73
Nitrobenzene-d5	23	120	91
2-Fluorobiphenyl	30	115	89
2,4,6-Tribromophenol	19	122	87
p-Terphenyl-d14	18	137	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-03	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**13**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.019**
Xylenes (Total)	**0.0050**	**0.19**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82
4-Bromofluorobenzene	60	140	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/17/99
Attention: Aubrey Cool	Lab Number: 9904172-03	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	100	1100
Chromatogram Pattern:		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 22.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	
	Analysis Method: EPA 8010	Analyzed: 04/13/99
Attention: Aubrey Cool	Lab Number: 9904172-04	Reported: 04/24/99

QC Batch Number: SP0413998010EXA
Instrument ID: HP-7

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limits %		% Recovery
Dibromodifluoromethane	50	150	81
4-Bromofluorobenzene	50	150	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 22.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-04	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	500	N.D.
Acenaphthylene	500	N.D.
Anthracene	500	N.D.
Benzoic Acid	1000	N.D.
Benzo(a)anthracene	500	N.D.
Benzo(b)fluoranthene	500	N.D.
Benzo(k)fluoranthene	500	N.D.
Benzo(g,h,i)perylene	500	N.D.
Benzo(a)pyrene	500	N.D.
Benzyl alcohol	500	N.D.
Bis(2-chloroethoxy)methane	500	N.D.
Bis(2-chloroethyl)ether	500	N.D.
Bis(2-chloroisopropyl)ether	500	N.D.
Bis(2-ethylhexyl)phthalate	1000	N.D.
4-Bromophenyl phenyl ether	500	N.D.
Butyl benzyl phthalate	500	N.D.
4-Chloroaniline	1000	N.D.
2-Chloronaphthalene	500	N.D.
4-Chloro-3-methylphenol	500	N.D.
2-Chlorophenol	500	N.D.
4-Chlorophenyl phenyl ether	500	N.D.
Chrysene	500	N.D.
Dibenzo(a,h)anthracene	500	N.D.
Dibenzofuran	500	N.D.
Di-n-butyl phthalate	1000	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
3,3'-Dichlorobenzidine	1000	N.D.
2,4-Dichlorophenol	500	N.D.
Diethyl phthalate	500	N.D.
2,4-Dimethylphenol	500	N.D.
Dimethyl phthalate	500	N.D.
4,6-Dinitro-2-methylphenol	1000	N.D.
2,4-Dinitrophenol	1000	N.D.
2,4-Dinitrotoluene	500	N.D.
2,6-Dinitrotoluene	500	N.D.
Di-n-octyl phthalate	500	N.D.
Fluoranthene	500	N.D.

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 22.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/12/99
	Analysis Method: EPA 8270	Analyzed: 04/19/99
Attention: Aubrey Cool	Lab Number: 9904172-04	Reported: 04/24/99

QC Batch Number: MS0412998270EXA
Instrument ID: H7

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	500	N.D.
Hexachlorobenzene	500	N.D.
Hexachlorobutadiene	500	N.D.
Hexachlorocyclopentadiene	1000	N.D.
Hexachloroethane	500	N.D.
Indeno(1,2,3-cd)pyrene	500	N.D.
Isophorone	500	N.D.
2-Methylnaphthalene	500	N.D.
2-Methylphenol	500	N.D.
4-Methylphenol	500	N.D.
Naphthalene	500	N.D.
2-Nitroaniline	1000	N.D.
3-Nitroaniline	1000	N.D.
4-Nitroaniline	1000	N.D.
Nitrobenzene	500	N.D.
2-Nitrophenol	500	N.D.
4-Nitrophenol	1000	N.D.
N-Nitrosodiphenylamine	500	N.D.
N-Nitroso-di-n-propylamine	500	N.D.
Pentachlorophenol	1000	N.D.
Phenanthrene	500	N.D.
Phenol	500	N.D.
Pyrene	500	N.D.
1,2,4-Trichlorobenzene	500	N.D.
2,4,5-Trichlorophenol	1000	N.D.
2,4,6-Trichlorophenol	500	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	73
Phenol-d5	24	113	80
Nitrobenzene-d5	23	120	93
2-Fluorobiphenyl	30	115	92
2,4,6-Tribromophenol	19	122	85
p-Terphenyl-d14	18	137	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 22.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-04	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	34
Methyl t-Butyl Ether	0.25	0.26
Benzene	0.050	0.057
Toluene	0.050	0.41
Ethyl Benzene	0.050	0.16
Xylenes (Total)	0.050	0.45
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109
4-Bromofluorobenzene	60	140	13 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA 22.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/20/99
Attention: Aubrey Cool	Lab Number: 9904172-04	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**100**	**510**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-6.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-06	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80
4-Bromofluorobenzene	60	140	71

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-6.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-06	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**2.4**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-16.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/12/99
Attention: Aubrey Cool	Lab Number: 9904172-07	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.042**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92
4-Bromofluorobenzene	60	140	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-16.0'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-07	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.2
Chromatogram Pattern:		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	103

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-20.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-08	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.026**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104
4-Bromofluorobenzene	60	140	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-20.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-08	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.1
Chromatogram Pattern:		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-5.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-09	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	81
4-Bromofluorobenzene	60	140	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-5.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-09	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	4.0
Chromatogram Pattern:		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	119

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-11	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102
4-Bromofluorobenzene	60	140	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-15.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-11	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**2.1**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	124

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-2.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/09/99
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-12	Reported: 04/24/99

QC Batch Number: GC040999BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104
4-Bromofluorobenzene	60	140	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-2.5'	Received: 04/01/99
Oakland, CA 94608	Matrix: SOIL	Extracted: 04/15/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/16/99
Attention: Aubrey Cool	Lab Number: 9904172-12	Reported: 04/24/99

QC Batch Number: GC0415990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**2.0**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 04/12/99
Attention: Aubrey Cool	Lab Number: 9904172-14	Reported: 04/24/99

QC Batch Number: GC041299OVOA32A
Instrument ID: GCHP32

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	**0.50**	**4.1**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**15**
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**4.7**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	Extracted: 04/09/99
	Analysis Method: EPA 8270	Analyzed: 04/14/99
Attention: Aubrey Cool	Lab Number: 9904172-14	Reported: 04/24/99

QC Batch Number: MS0409998270EXA
Instrument ID: H7

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	**10**	**35**
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	**5.0**	**13**
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	Extracted: 04/09/99
	Analysis Method: EPA 8270	Analyzed: 04/14/99
Attention: Aubrey Cool	Lab Number: 9904172-14	Reported: 04/24/99

QC Batch Number: MS0409998270EXA
Instrument ID: H7

Analyte	Detection Limit ug/L	Sample Results ug/L
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	**5.0**	**46**
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	**5.0**	**68**
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	**5.0**	**14**
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	28
Phenol-d5	10	110	20
Nitrobenzene-d5	35	114	75
2-Fluorobiphenyl	43	116	78
2,4,6-Tribromophenol	10	123	86
p-Terphenyl-d14	33	141	59

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	Extracted: 04/09/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/12/99
Attention: Aubrey Cool	Lab Number: 9904172-14	Reported: 04/24/99

QC Batch Number: GC0409990HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**2000**	**28000**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	3984 Q

Analytes reported as N.D. were not present above the stated limit of detection.

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBA-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-14	Reported: 04/24/99

QC Batch Number: GC040999BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**250**	**1100**
Methyl t-Butyl Ether	12	N.D.
Benzene	**2.5**	**13**
Toluene	2.5	N.D.
Ethyl Benzene	**2.5**	**5.1**
Xylenes (Total)	**2.5**	**52**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	Extracted: 04/09/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/12/99
Attention: Aubrey Cool	Lab Number: 9904172-15	Reported: 04/24/99

QC Batch Number: GC0409990HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**100**	**3300**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBB-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-15	Reported: 04/24/99

QC Batch Number: GC040999BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**5100**
Methyl t-Butyl Ether	25	N.D.
Benzene	**5.0**	**8.8**
Toluene	**5.0**	**15**
Ethyl Benzene	**5.0**	**25**
Xylenes (Total)	**5.0**	**24**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	159 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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

Attention: Aubrey Cool

Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl
Sample Descript: SBC-W
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9904172-16

Sampled: 03/31/99
Received: 04/01/99
Extracted: 04/09/99
Analyzed: 04/12/99
Reported: 04/24/99

QC Batch Number: GC0409990HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**890**
Chromatogram Pattern:		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Sampled: 03/31/99
1144 65th St. Suite C	Sample Descript: SBC-W	Received: 04/01/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/99
Attention: Aubrey Cool	Lab Number: 9904172-16	Reported: 04/24/99

QC Batch Number: GC040999BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	2500
Methyl t-Butyl Ether	6.2	8.5
Benzene	1.2	1.3
Toluene	1.2	25
Ethyl Benzene	1.2	5.8
Xylenes (Total)	1.2	19
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	356 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Solid
Work Order #: 9904172 -02-04
Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0408996010MDE	ME0408996010MDE	ME0408996010MDE	ME0408996010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	M. Vu	M. Vu	M. Vu	M. Vu
MS/MSD #:	990417202	990417202	990417202	990417202
Sample Conc.:	N.D.	N.D.	49	82
Prepared Date:	4/8/99	4/8/99	4/8/99	4/8/99
Analyzed Date:	4/14/99	4/14/99	4/14/99	4/14/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	2.5 mg/Kg	2.5 mg/Kg	2.5 mg/Kg	2.5 mg/Kg
Result:	2.2	2.1	48	87
MS % Recovery:	88	84	0.0	200
Dup. Result:	2.1	2.0	47	80
MSD % Recov.:	84	80	0.0	0.0
RPD:	4.7	4.9	2.1	8.4
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	LCS040899	LCS040899	LCS040899	LCS040899
Prepared Date:	4/8/99	4/8/99	4/8/99	4/8/99
Analyzed Date:	4/14/99	4/14/99	4/14/99	4/14/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	46	44	47	47
LCS % Recov.:	92	88	94	94
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Liquid
Work Order #: 9904172-14
Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0408992007MDA	ME0408992007MDA	ME0408992007MDA	ME0408992007MDA
Analy. Method:	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Prep. Method:	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	M. Vu	M. Vu	M. Vu	M. Vu
MS/MSD #:	990396801	990396801	990396801	990396801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/8/99	4/8/99	4/8/99	4/8/99
Analyzed Date:	4/12/99	4/12/99	4/12/99	4/12/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.1	1.0	1.0
MS % Recovery:	100	110	100	100
Dup. Result:	1.0	1.1	1.1	1.1
MSD % Recov.:	100	110	110	110
RPD:	0.0	0.0	9.5	9.5
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	LCS040899	LCS040899	LCS040899	LCS040899
Prepared Date:	4/8/99	4/8/99	4/8/99	4/8/99
Analyzed Date:	4/12/99	4/12/99	4/12/99	4/12/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.1	1.0	1.1
LCS % Recov.:	100	110	100	110
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
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Sequoia Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Solid
Work Order #: 9904172-01, 05, 10, 13

Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	% Moisture	% Solid	Fractional Organic Carbon
QC Batch:	IN041299160300A	IN041299160300A	IN041399WALK00A
Analy. Method:	EPA 160.3	EPA 160.3	WALKLEY-BLACK
Prep Method:	N.A.	N.A.	N.A.
Analyst:	K. Cesar	K. Cesar	K. Cesar
Duplicate Sample #:	940417213	940417213	990417201
Prepared Date:	4/12/99	4/12/99	4/13/99
Analyzed Date:	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	MANUAL	MANUAL	MANUAL
Sample Concentration:	10	90	0.39
Dup. Sample Concentration:	10	90	0.39
RPD:	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

** RPD = Relative % Difference

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Cambria Environmental Tech.	Client Project ID:	Shell 2001 Fruitvale Ave., Oakland	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Aubrey Cool	Work Order #:	9904172-02, 03, 04	Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	SP041399801007A	SP041399801007A	SP041399801007A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	P. Kosovskaya	P. Kosovskaya	P. Kosovskaya
MS/MSD #:	9040872	9040872	9040872
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/13/99	4/13/99	4/13/99
Analyzed Date:	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	HP7	HP7	HP7
Conc. Spiked:	1000 µg/Kg	1000 µg/Kg	1000 µg/Kg
Result:	1100	1000	1100
MS % Recovery:	110	100	110
Dup. Result:	1100	1100	1100
MSD % Recov.:	110	110	110
RPD:	0.0	9.5	0.0
RPD Limit:	0-25	0-25	0-25
LCS #:	LCS041399	LCS041399	LCS041399
Prepared Date:	4/13/99	4/13/99	4/13/99
Analyzed Date:	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	HP7	HP7	HP7
Conc. Spiked:	1000 µg/Kg	1000 µg/Kg	1000 µg/Kg
LCS Result:	800	880	880
LCS % Recov.:	80	88	88
MS/MSD LCS Control Limits	65-135	70-130	70-130

SEQUOIA ANALYTICAL
Elap #1271

Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Liquid
Work Order #: 9904172-14
Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0409998270EXA	MS0409998270EXA	MS0409998270EXA	MS0409998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3520	EPA 3520	EPA 3520	EPA 3520
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK040599	BLK040599	BLK040599	BLK040599
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/5/99	4/5/99	4/5/99	4/5/99
Analyzed Date:	4/13/99	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	79	186	127	201
BS % Recovery:	40	93	64	101
Dup. Result:	75	172	114	191
BSD % Recov.:	38	86	57	96
RPD:	5.2	7.8	11	5.1
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	LCS040999	LCS040999	LCS040999	LCS040999
Prepared Date:	4/9/99	4/9/99	4/9/99	4/9/99
Analyzed Date:	4/14/99	4/14/99	4/14/99	4/14/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	55	128	122	179
LCS % Recov.:	28	64	61	90

MS/MSD LCS Control Limits	14-55	53-109	52-102	53-146

SEQUOIA ANALYTICAL

for Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Liquid
Work Order #: 9904172-14
Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0409998270EXA	MS0409998270EXA	MS0409998270EXA	MS0409998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3520	EPA 3520	EPA 3520	EPA 3520
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK040599	BLK040599	BLK040599	BLK040599
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/5/99	4/5/99	4/5/99	4/5/99
Analyzed Date:	4/13/99	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	146	195	194	74
BS % Recovery:	73	98	97	37
Dup. Result:	130	187	179	71
BSD % Recov.:	65	94	90	36
RPD:	12	4.2	8.0	4.1
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	LCS040999	LCS040999	LCS040999	LCS040999
Prepared Date:	4/9/99	4/9/99	4/9/99	4/9/99
Analyzed Date:	4/14/99	4/14/99	4/14/99	4/14/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	142	140	183	45
LCS % Recov.:	71	70	92	23
MS/MSD LCS Control Limits	50-128	55-121	59-112	9-56

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.	Client Project ID:	Shell 2001 Fruitvale Ave., Oakland	
1144 65th St., Ste. C	Matrix:	Liquid	
Oakland, CA 94608			
Attention: Aubrey Cool	Work Order #:	9904172-14	Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0409998270EXA	MS0409998270EXA	MS0409998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3520	EPA 3520	EPA 3520
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK040599	BLK040599	BLK040599
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/5/99	4/5/99	4/5/99
Analyzed Date:	4/13/99	4/13/99	4/13/99
Instrument I.D.#:	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L
Result:	182	141	223
BS % Recovery:	91	71	112
Dup. Result:	184	141	213
BSD % Recov.:	92	71	107
RPD:	1.1	0.0	4.6
RPD Limit:	0-30	0-30	0-30
LCS #:	LCS040999	LCS040999	LCS040999
Prepared Date:	4/9/99	4/9/99	4/9/99
Analyzed Date:	4/14/99	4/14/99	4/14/99
Instrument I.D.#:	H7	H7	H7
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L
LCS Result:	167	144	216
LCS % Recov.:	84	72	108
MS/MSD LCS Control Limits	55-117	57-119	35-130

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Solid
Work Order #: 9904172-02, 03, 04
Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0412998270EXA	MS0412998270EXA	MS0412998270EXA	MS0412998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK041299	BLK041299	BLK041299	BLK041299
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/12/99	4/12/99	4/12/99	4/12/99
Analyzed Date:	4/19/99	4/19/99	4/19/99	4/19/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2875	2876	2839	3016
BS % Recovery:	87	87	86	91
Dup. Result:	2109	2120	2047	2272
BSD % Recov.:	64	64	62	69
RPD:	31	30	32	28
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				
MS/MSD LCS Control Limits	23-133	35-119	14-126	36-132

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Solid
Work Order #: 9904172-02, 03, 04

Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0412998270EXA	MS0412998270EXA	MS0412998270EXA	MS0412998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK041299	BLK041299	BLK041299	BLK041299
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/12/99	4/12/99	4/12/99	4/12/99
Analyzed Date:	4/19/99	4/19/99	4/19/99	4/19/99
Instrument I.D.#:	H7	H7	H7	H7
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2800	2733	2989	2180
BS % Recovery:	85	83	91	66
Dup. Result:	2033	1992	2179	1843
BSD % Recov.:	62	60	66	56
RPD:	32	31	31	17
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	23-134	30-123	23-120	0-136

SEQUOIA ANALYTICAL

for Kayvan Kimyai
Project Manager

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave., Oakland
Matrix: Solid
Work Order #: 9904172-02, 03, 04

Reported: Apr 29, 1999

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0412998270EXA	MS0412998270EXA	MS0412998270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan
BS/BSD #:	BLK041299	BLK041299	BLK041299
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/12/99	4/12/99	4/12/99
Analyzed Date:	4/19/99	4/19/99	4/19/99
Instrument I.D.#:	H7	H7	H7
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2741	2553	3506
BS % Recovery:	83	77	106
Dup. Result:	2278	1405	3019
BSD % Recov.:	69	43	91
RPD:	18	58	15
RPD Limit:	0-30	0-30	0-30

LCS #:			
Prepared Date:			
Analyzed Date:			
Instrument I.D.#:			
Conc. Spiked:			
LCS Result:			
LCS % Recov.:			

MS/MSD LCS Control Limits	19-131	0-149	0-138

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-02-04,06-09,11-1 Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Solid
Method:	EPA 8015
Analyst:	R.GECKLER
ANALYTE	Gasoline

QC Batch #: GC040999BTEXEXA

Sample No.:	9904172-2
Date Prepared:	4/9/99
Date Analyzed:	4/9/99
Instrument I.D.#:	GCHP18
ample Conc., mg/Kg:	N.D.
Conc. Spiked, mg/Kg:	5.0
Matrix Spike, mg/Kg:	3.0
% Recovery:	60
Matrix ike Duplicate, mg/Kg:	9.0
% Recovery:	180
elative % Difference:	100.0
RPD Control Limits:	0-25

LCS Batch#: GC040999BTEXEXA

Date Prepared:	4/9/99
Date Analyzed:	4/9/99
Instrument I.D.#:	GCHP18
Conc. Spiked, mg/Kg:	5.0
Recovery, mg/Kg:	5.3
LCS % Recovery:	106

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-02-04,06-09,11-1 Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015M
Analyst: J.BONNVILLE

ANALYTE Diesel

QC Batch #: GC0415990HBPEXC

Sample No.: 9904172-2
Date Prepared: 4/15/99
Date Analyzed: 4/16/99
Instrument I.D.#: GCHP5A

ample Conc., mg/Kg: 1500 mg/Kg
Conc. Spiked, mg/Kg: 17

Matrix Spike, mg/Kg: 1700
% Recovery: 1180

Matrix
ike Duplicate, mg/Kg: 1800
% Recovery: 1760

elative % Difference: 39

RPD Control Limits: 0-50

LCS Batch#: BLK041599CS

Date Prepared: 4/15/99
Date Analyzed: 4/16/99
Instrument I.D.#: GCHP5A

Conc. Spiked, mg/Kg: 17

Recovery, mg/Kg: 17
LCS % Recovery: 100.0

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kaywan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-14

Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: R KAWAS

ANALYTE	1,1-DCE	TCE	hlorobenzene	Benzene	Toluene	hlorobenzene
QC Batch #:	GC0412990VOA32A					
Sample No.:	990412701					
Date Prepared:	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99
Date Analyzed:	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99
Instrument I.D.#:						
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25	25	25	25
Matrix Spike, ug/L:	22	24	26	25	24	24
% Recovery:	88	96	104	100.0	96	96
Matrix pike Duplicate, ug/L:	25	25	28	26	26	27
% Recovery:	100.0	100.0	112	104	104	108
elative % Difference:	13	4.1	7.4	3.9	8.0	12
RPD Control Limits:	0-50	0-50	0-50	0-50	0-50	0-50

LCS Batch#:	VWLCS041299A					
Date Prepared:	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
Date Analyzed:	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
Instrument I.D.#:						
Conc. Spiked, ug/L:	25	25	25	25	25	25
Recovery, ug/L:	24	24	25	24	23	23
LCS % Recovery:	96	96	100.0	96	92	92

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-14

Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: R KAWAS

ANALYTE	1,1-DCE	TCE	hlorobenzene	Benzene	Toluene	hlorobenzene
QC Batch #:	GC0412990VOA32A					
Sample No.:	990412701					
Date Prepared:	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99
Date Analyzed:	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99	4/8/99
Instrument I.D.#:						
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25	25	25	25
Matrix Spike, ug/L:	22	24	26	25	24	24
% Recovery:	88	96	104	100.0	96	96
Matrix pike Duplicate, ug/L:	25	25	28	26	26	27
% Recovery:	100.0	100.0	112	104	104	108
elative % Difference:	13	4.1	7.4	3.9	8.0	12
RPD Control Limits:	0-50	0-50	0-50	0-50	0-50	0-50

LCS Batch#: VWLCS041299A

Date Prepared:	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
Date Analyzed:	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99	4/12/99
Instrument I.D.#:						
Conc. Spiked, ug/L:	25	25	25	25	25	25
Recovery, ug/L:	24	24	25	24	23	23
LCS % Recovery:	96	96	100.0	96	92	92

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-14-16

Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: J.BONNVILLE

ANALYTE Diesel

QC Batch #: GC0409990HBPEXC

Sample No.: 9904172-16
Date Prepared: 4/9/99
Date Analyzed: 4/12/99
Instrument I.D.#: GCHP5A

Sample Conc., ug/L: 890
Conc. Spiked, ug/L: 1000

Matrix Spike, ug/L: 1200
% Recovery: 31

Matrix pike Duplicate, ug/L: 1200
% Recovery: 31

elative % Difference: 0.0

RPD Control Limits: 0-50

LCS Batch#: BLK040999CS

Date Prepared: 4/9/99
Date Analyzed: 4/12/99
Instrument I.D.#: GCHP5A

Conc. Spiked, ug/L: 1000

Recovery, ug/L: 1200
LCS % Recovery: 120

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2001 Fruitvale Ave, Oakl

QC Sample Group: 9904172-14-16

Reported: Apr 27, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	MM
ANALYTE	Gasoline

QC Batch #: GC040999BTEX30A

Sample No.:	9904202-01
Date Prepared:	4/9/99
Date Analyzed:	4/9/99
Instrument I.D.#:	GCHP30
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	230
% Recovery:	92
Matrix pike Duplicate, ug/L:	210
% Recovery:	84
elative % Difference:	9.1
RPD Control Limits:	0-25

LCS Batch#: GC040999BTEX30A

Date Prepared:	4/9/99
Date Analyzed:	4/9/99
Instrument I.D.#:	GCHP30
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	200
LCS % Recovery:	80

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

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The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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April 21, 1999

Kayvan Kimyai
Sequoia - RC (Subbed In)
680 Chesapeake Dr.
Redwood City, CA 94063

RE: Kayvon Kimyai/P904296

Dear Kayvan Kimyai

Enclosed are the results of analyses for sample(s) received by the laboratory on April 12, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia - RC (Subbed In)	Project:	Kayvon Kimyai	Sampled: 3/31/99
680 Chesapeake Dr.	Project Number:	9904172	Received: 4/12/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/21/99

ANALYTICAL REPORT FOR P904296

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SBA. 10.0'	P904296-01	Soil	3/31/99
SBA. 15.5'	P904296-02	Soil	3/31/99
SBA. 22.5'	P904296-03	Soil	3/31/99
SBA. W	P904296-04	Water	3/31/99

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia - RC (Subbed In)	Project:	Kayvon Kimyai	Sampled: 3/31/99
680 Chesapeake Dr.	Project Number:	9904172	Received: 4/12/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/21/99

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
SBA. 10.0'			**P904296-01**				**Soil**	
TRPH	9040274	4/12/99	4/15/99	EPA 418.1	333	**11100**	mg/kg	
SBA. 15.5'			**P904296-02**				**Soil**	
TRPH	9040274	4/12/99	4/15/99	EPA 418.1	333	**10100**	mg/kg	
SBA. 22.5'			**P904296-03**				**Soil**	
TRPH	9040274	4/12/99	4/15/99	EPA 418.1	333	**6840**	mg/kg	
SBA. W			**P904296-04**				**Water**	
TRPH	9040319	4/14/99	4/21/99	EPA 418.1	10.0	**23.0**	mg/l	

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
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FAX (707) 792-0342

Sequoia - RC (Subbed In)	Project:	Kayvon Kimyai	Sampled: 3/31/99
680 Chesapeake Dr.	Project Number:	9904172	Received: 4/12/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/21/99

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040274	**Date Prepared: 4/12/99**					**Extraction Method: 418.1 / 5520C&F Mod.**				
Blank	**9040274-BLK1**									
TRPH	4/15/99			**ND**	mg/kg	**33.3**				
LCS	**9040274-BS1**									
TRPH	4/15/99	667		717	mg/kg	80.0-120	107			
LCS Dup	**9040274-BSD1**									
TRPH	4/15/99	667		695	mg/kg	80.0-120	104	20.0	2.84	
Duplicate	**9040274-DUP1**		**P904248-16**							
TRPH	4/15/99		51.5	ND	mg/kg			20.0		
Matrix Spike	**9040274-MS1**		**P904248-16**							
TRPH	4/15/99	667	51.5	695	mg/kg	75.0-125	**96.5**			
Batch: 9040319	**Date Prepared: 4/14/99**					**Extraction Method: 418.1 / 5520C&F Mod.**				
Blank	**9040319-BLK1**									
TRPH	4/21/99			**ND**	mg/l	**1.00**				
LCS	**9040319-BS1**									
TRPH	4/21/99	20.0		19.1	mg/l	80.0-120	95.5			
LCS Dup	**9040319-BSD1**									
TRPH	4/21/99	20.0		20.5	mg/l	80.0-120	103	20.0	7.56	

Sequoia Analytical

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Sequoia - RC (Subbed In)	Project:	Kayvon Kimyai	Sampled: 3/31/99
680 Chesapeake Dr.	Project Number:	9904172	Received: 4/12/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/21/99

Notes and Definitions

#	Note
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
Recov.	Recovery
RPD	Relative Percent Difference

CORELAB

CORE LABORATORIES

April 16, 1999

K. Kimyai
Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063

Subject : Transmittal of Geotechnical Analysis Data
SA Work order # 9904172
Core Lab File No. 57111-99074

Dear Ms Kimyai:

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density and total porosity were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities and total porosity measurements and calculations were performed as described in **API RP-40**, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeffry L. Smith nw

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report, 1 cc report: Addressee

CORELAB

Sequoia Analytical

(Redwood City)

Cambria - 9904172

CL File No.: 57111-99074

Sample Fraction	Sample Desc.	Sample Date	Sample Density			Total Porosity %	Description
			Dry Bulk g/cc	Natural Bulk g/cc	Matrix g/cc		
01	SBA - 6.0'	31-Mar-99	1.85	2.14	2.60	28.8	Gray clayey silt
05	SBB - 5.5'	31-Mar-99	1.87	2.16	2.64	29.1	Gray clayey silt w/ gravel
10	SBC - 6.0'	31-Mar-99	1.76	2.08	2.61	32.7	Gray clayey silt
13	SBC - 22.5'	31-Mar-99	1.96	2.22	2.67	26.7	Gray v silty vf-vcgr sand w/ clay

Grain and pore volumes were determined by Boyle's Law methods as per API RP-40.
Sample densities and total porosity were calculated as per API RP-40.

Sequoia Analytical

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April 15, 1999

Kayvan Kimyai
Sequoia - Redwood City
680 Chesapeake Drive
Redwood City, CA 94063

RE: Kayvan Kimyai/L904102

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on April 9, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received: 4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/15/99

ANALYTICAL REPORT FOR L904102

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9904172-14/SBA-W	L904102-01	Water	3/31/99
9904172-15/SBB-W	L904102-02	Water	3/31/99
9904172-16/SBC-W	L904102-03	Water	3/31/99

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received: 4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/15/99

Sample Description: **9904172-14/SBA-W**
Laboratory Sample Number: **L904102-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9040059	4/13/99	4/13/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	*%*	

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received: 4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/15/99

Sample Description: **9904172-15/SBB-W**
Laboratory Sample Number: **L904102-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9040059	4/13/99	4/13/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*109*	*%*	

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received:	4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/15/99

Sample Description: **9904172-16/SBC-W**
Laboratory Sample Number: **L904102-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9040059	4/13/99	4/13/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received: 4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/15/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040059	**Date Prepared: 4/12/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9040059-BLK1**									
Methyl tert-butyl ether	4/12/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*55.9*	"	*76.0-114*	*112*			
Blank	**9040059-BLK2**									
Methyl tert-butyl ether	4/12/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*53.7*	"	*76.0-114*	*107*			
Blank	**9040059-BLK3**									
Methyl tert-butyl ether	4/13/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.8*	"	*76.0-114*	*106*			
LCS	**9040059-BS1**									
Methyl tert-butyl ether	4/12/99	50.0		51.4	ug/l	70.0-130	103			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*55.7*	"	*76.0-114*	*111*			
LCS	**9040059-BS2**									
Methyl tert-butyl ether	4/12/99	50.0		45.9	ug/l	70.0-130	91.8			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.5*	"	*76.0-114*	*103*			
LCS	**9040059-BS3**									
Methyl tert-butyl ether	4/13/99	50.0		46.1	ug/l	70.0-130	92.2			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.9*	"	*76.0-114*	*104*			
Matrix Spike	**9040059-MS1**		**L904094-01**							
Methyl tert-butyl ether	4/12/99	50.0	ND	52.1	ug/l	60.0-140	**104**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*53.4*	"	*76.0-114*	*107*			
Matrix Spike Dup	**9040059-MSD1**		**L904094-01**							
Methyl tert-butyl ether	4/12/99	50.0	ND	51.0	ug/l	60.0-140	**102**	25.0	**1.94**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.9*	"	*76.0-114*	*106*			

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/31/99
680 Chesapeake Drive	Project Number:	9904172(Cambria)	Received:	4/9/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/15/99

Notes and Definitions

#	Note
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
Recov.	Recovery
RPD	Relative Percent Difference

SUB-CHAIN OF CUSTODY

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

PROJECT SUBBED TO: Petaluma

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 4/13/99

REPORT TO: K. Kimyai

WORKORDER # 904172

PROJECT NAME: Cambria

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	418.1	REMARKS
02	SBA-10.0'	S	1		3/31/99	X	904296-01
03	SBA 15.5'	"	"		"	"	2
04	SBA-22.5'	"	"		"	"	3
14	SBA-W	L	1		"	"	4

ANALYSIS REQUESTED

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A

COOLER TEMPERATURE 5 °C

RELINQUISHED FROM SEQUOIA BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Noelle Lane	4/8/99			4/9	1500
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

SAMPLE CONDITION?

TEMP?

SUB-CHAIN OF CUSTODY

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

PROJECT SUBBED TO: CORE LAB

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 4/13/99

REPORT TO: K. Kimyai

WORKORDER # 9904172

PROJECT NAME: Cambria

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	ANALYSIS REQUESTED: Dry Bulk Density	ANALYSIS REQUESTED: Porosity	REMARKS
01	SBA 6.0'	S	1		3/31/99	X	X	CL 99074
05	SBB - 5.5'	"	"		"	"	"	
10	SBC - 6.0'	"	"		"	"	"	
13	SBC - 22.5'	"	"		"	"	"	

RELINQUISHED FROM SEQUOIA BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	SAMPLE CONDITION?
Noelle Lane	4/8/99		J Smith	4/13/99	11:00	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TEMP?
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	

L904102

SUB-CHAIN OF CUSTODY

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

PROJECT SUBBED TO: San Carlos

TAT REQUESTED: [ ] 24H [ ] 48H [ ] 72H [ ] 5D [ ] 10D

DUE DATE: 4/13/99

REPORT TO: K Kimyai

WORKORDER # 9904172

PROJECT NAME: Cambria

ANALYSIS REQUESTED

	FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	Confirm MTBE by 8260							REMARKS
01	14	SBA-W	L	1	VoA	3/31/99	X							
02	15	SBB-W	↓	↓	↓	↓	↓							Samples already
03	16	SBC-W	↓	↓	↓	↓	↓							in San Carlos

RELINQUISHED FROM SEQUOIA BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	SAMPLE CONDITION?
[signature]	4/9/99		[signature]	040999	1745	GOOD
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TEMP?
						6°C
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ______

Date: 3/31/99
Page 1 of 6

Site Address: 2001 Fruitvale Ave, Oakland

WIC#: 204 5508 2105

Shell Engineer:

Phone No.:

Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool - 707-935-4859

Phone No.: 510 420-0700

Fax #: 420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name: [signature]

LAB: Sequoia - Redwood City

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring [ ]	4461	24 hours [ ]
Site Investigation [ ]	4441	48 hours [ ]
Soil Classify/Disposal [ ]	4442	16 days [✓] (Normal)
Water Classify/Disposal [ ]	4443	Other [ ] ______
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	4453	
Other [ ]		

UST AGENCY: ______

Analysis Required

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	[redacted] Oil+Grease EPA 418.1	TPH (EPA 8015 Mod. Diesel)	[redacted] EPA 8270	[redacted] EPA 8010	Test for Disposal	Combination: TPH 8015 & BTEX 8020 +MTBE	Cadmium, Chromium, Lead, Nickel+Zinc	Dry Bulk density, moisture content, porosity, organic carbon fraction	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
-	SBA 5.5'	3/31		X			1														HOLD
01	SBA 6.0'	3/31		X			1								X					9904172	
02	SBA 10.0'	3/31		X			1	X	X	X	X		X	X							
-	SBA 10.5'	3/31		X			1														HOLD R 1 3 13
03	SBA 15.5'	3/31		X			1	X	X	X	X		X	X							
-	SBA 16.0	3/31		X			1														HOLD
-	SBA 20.5'	3/31		X			1														HOLD
-	SBA 21.0'	3/31		X			1														HOLD

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	TROY BUGGLE	Date: 4-1-99 Time: 10:30	[signature]	C. ANDREWS	Date: 4-1 Time: 12:50
[signature]		Date: Time:			Date: Time:
		Date: Time:	[signature]	S. HORN	Date: 4/1 Time: 15:13

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ____________

Date: 3/31/99
Page 2 of 6

Site Address: 2001 Fruitvale Ave, Oakland

WIC#: 204 5508 2105

Shell Engineer: | Phone No.: | Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool 707-935-4859 | Phone No.: 510 420-0700 | Fax #: 420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name: [signature]

LAB: Sequoia - Redwood City

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring [ ]	4441
Site Investigation [ ]	4441
Soil Classify/Disposal [ ]	4442
Water Classify/Disposal [ ]	4443
Soil/Air Rem. or Sys. O & M [ ]	4452
Water Rem. or Sys. O & M [ ]	4453
Other [ ]	

TURN AROUND TIME: 24 hours [ ] 48 hours [ ] 16 days [X] (Normal) Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ____________

Analysis Required

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	[redacted] Oil + Grease EPA 418.1	TPH (EPA 8015 Mod. Diesel)	[redacted] EPA 8270	[redacted] EPA 8010	Test for Disposal	Combination TPH 8015 & BTEX 8020 +MTBE	Cadmium, Chromium, Lead, Nickel + Zinc	dry bulk density, moisture content, porosity, fraction organic carbon	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
04	SBA - 22.5'	3/31		X			1	X	X	X	X		X	X							
	SBA - 23.0'	3/31		X			1													990[illegible]172	HOLD + 3/14
	SBA - 24.5'	3/31		X			1														HOLD
	SBA - 25.0'	3/31		X			1														HOLD
05	SBB - 5.5'	3/31		X			1								X						
06	SBB - 6.0'	3/31		X			1		X				X								
	SBB - 10.5'	3/31		X			1														HOLD
	SBB - 11.0'	3/31		X			1														HOLD

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	TROY BUGGLE	Date: 4/1/99 Time: 10:30	[signature]	ANDRUS	Date: 4/1 Time: 1250
[signature]		Date: Time:			Date: Time:
		Date: Time:	[signature]	J HORN	Date: 4/1 Time: 1314

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 3/31/99

Site Address: 2001 Fruitvale Ave, Oakland

WIC#: 204 5508 2105

Shell Engineer: | Phone No.: | Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool - 707-935-4859 | Phone No.: 510 420-0700 | Fax #: 420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name: Troy Bugle

LAB: Sequoia - Redwood City

CHECK ONE (1) BOX ONLY | C/D1

- G.W. Monitoring [ ] 4481
- Site Investigation [ ] 4441
- Soil Classify/Disposal [ ] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4452
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

TURN AROUND TIME

- 24 hours [ ]
- 48 hours [ ]
- 10 days [✓] (Normal)
- Other [ ] _____

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 (+ MTBE)	Asbestos	Container Size	Preservation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SBB - 15.5'	3/31		X			1												HOLD 1 3 14
SBB - 16.0'	3/31		X			1		X				X					9904172	
SBB - 19.5	3/31		X			1												HOLD
SBB - 20.5'	3/31		X			1		X				X						
SBB - 21.0'	3/31		X			1												HOLD
SBB - 23.5'	3/31		X			1												HOLD
SBB - 24.5'	3/31		X			1												HOLD
SBB - 25.0'	3/31		X			1												HOLD

Relinquished By (signature):	Printed Name: TROY BUGGLE	Date: 4/1/99 Time: 10:30	Received (signature):	Printed Name:	Date: 4/1 Time: 1255
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: J. Horan	Date: 4/1 Time: 1534

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 3/31/99

Site Address: 2001 Fruitvale Ave, Oakland

WIC#: 204 5508 2105

Shell Engineer: _____ Phone No.: _____ Fax #: _____

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool - 707 935-4859 Phone No.: 510 420-0700 Fax #: 420-9170

Comments: _____

Sampled by: TROY BUGGLE

Printed Name: Troy Buggle

LAB: Sequoia, Redwood City

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 +MTBE	dry bulk density, moisture content, porosity, fraction organic carbon	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
09 SBC - 5.5'	3/31		X			1		X				X						9904172	
10 SBC - 6.0'	3/31		X			1							X						
- SBC - 10.5'	3/31		X			1													HOLD
- SBC - 11.0'	3/31		X			1													HOLD
11 SBC - 15.5'	3/31		X			1		X				X							
- SBC - 16.0'	3/31		X			1													HOLD
12 SBC - 20.5'	3/31		X			1		X				X							
- SBC - 21.0'	3/31		X			1													HOLD

CHECK ONE (1) BOX ONLY — C1/D1

- G.W. Monitoring ☐ 4461
- Site Investigation ☐ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 10 days ☑ (Normal)
- Other ☐ _____

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Relinquished by (signature):	Printed Name:	Date: 4-1-99 Time: 10:30	Received (signature):	Printed Name:	Date: 4-1 Time: 1255
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: J HOAN	Date: 4/1 Time: 1514

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 3/31/99

Site Address: 2001 Fruitvale Ave, Oakland

WIC#: 204 5508 2105

Shell Engineer: | Phone No.: | Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool - 707-935-4859 | Phone No.: 510-420-0700 | Fax #: 510-420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name: Troy Bugle

LAB: Sequoia, Redwood City

CHECK ONE (1) BOX ONLY | C1/01

- R.W. Monitoring [ ] 4401
- Site Investigation [ ] 4441
- Soil Classify/Disposal [ ] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4452
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

TURN AROUND TIME

- 24 hours [ ]
- 48 hours [ ]
- 96 days [✓] (Normal)
- Other [ ] _____

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 624)	Test for Disposal	Combination TPH 8015 & BTEX 8020	dry bulk density & moisture content & fraction organic carbon Porosity	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SBC-22.5'	3/31		X			1							X					9904172	
SBC-24.5'	3/31		X			1													HOLD
SBC-25.0	3/31		X			1													HOLD

Relinquished By (signature):	Printed Name:	Date: 4.1.99	Received (signature):	Printed Name:	Date:
	TROY BUGGLE	Time: 10:30		VINDRASH	Time:
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:
		Time:			Time:
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name: J. HORN	Date: 4/1
		Time:			Time: 1514

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Seal No: _____

Date: 3/31/99
Page 6 of 6

Site Address: 2001 Fruitvale Ave, Oakland
WIC#: 204 5508 2105
Shell Engineer: Phone No.: Fax #:
Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Aubrey Cool - 707-935-4859 Phone No.: 510-420-0700 Fax #: 510-420-9170
Comments:
Sampled by: TROY BUGGLE
Printed Name: Troy Bugle

LAB: Segunia, Redwood City

CHECK OFF (1) BOX ONLY	C/D#
G.W. Monitoring	4441
Site Investigation	4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Remed. or Sys. O & M	4452
Water Remed. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours [ ] 48 hours [ ] 5 days [X] (Normal) Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Analysis Required: Oil + Grease EPA 418.1; TPH (EPA 8015 Mod. Diesel); [redacted] EPA 8270; [redacted] EPA 8010; Test for Disposal; Combination TPH 8015 & BTEX 8020 + MTBE; Cadmium, Chromium, Lead, Nickel + Zinc; Asbestos; Container Size; Preservation Used; Composite Y/N

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	Material Description	Sample Condition/ Comments
14	SBA-W	3/31			X		6	Confirm ANY MTBE hits with	EPA 8260
15	SBB-W	3/31			X		6		
16	SBC-W	3/31			X		6		
		3/31						990472	
		3/31							
		3/31							
		3/31							
		3/31							
		3/31							

Relinquished By (signature): John A Burk
Printed Name: TROY BUGGLE
Date: 4-1-99 Time: 10:30
Received (signature):
Printed Name:
Date: 4-1-99 Time: 12:45

Relinquished By (signature):
Printed Name:
Date: Time:
Received (signature):
Printed Name: J HORN
Date: 4/1 Time: 1510

Relinquished By (signature):
Printed Name:
Date: Time:
Received (signature):
Printed Name:
Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN OF CUSTODY WITH INVOICE AND RESULTS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 2001 Fruitvale Ave,Oakl	Received: 04/01/99
1144 65th St. Suite C		
Oakland, CA 94608	Lab Proj. ID: 9904172	Reported: 04/24/99
Attention: Aubrey Cool		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of_____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGM2W Note:
Samples 9904172-15,16 had high surrogate recovery, due to matrix effect.

TPGM2S Note:
All MTBE hits were confirmed on an opposite column.

EPA Method 8260A Notes:
The analysis for MTBE Confirmation was subcontracted to Sequoia Analytical-San Carlos.

Geotechnical Analysis Note:
Geotechnical Analysis was analyzed by Core Laboratories.

418.1 Note:
418.1 was analyzed at Sequoia Analytical -Petaluma.

SEQUOIA ANALYTICAL

Project Manager