

Site: Oakland 8930  
Proj.  Rem.  Apt.  Bill   
1  2  3  4  5  6

**COPY**  
FILE COPY

December 23, 1998

Ms. Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, California 90749-6249

Re: **Site Summary**  
Shell-branded Service Station  
8930 Bancroft Avenue  
Oakland, C-alifornia  
WIC #204-5508-1305

Dear Ms. Petryna:

At your request, Cambria Environmental Technology, Inc. (Cambria) has prepared a site summary for the above referenced site.

### **Site Background**

**Site Description:** The site is currently an operating Shell-branded Service Station located on the northeast corner of the intersection of Bancroft Avenue and 90th Avenue in Oakland, California (Site Plan). The site layout consists of a service station building, two dispenser islands, and a UST complex.

**Previous Investigation:** In May of 1983 Gettler/Ryan Inc. (GRI) installed six observation wells. The investigation was in response to reported gasoline saturated soils as discovered by an independent drilling contractor completing a test bore used for directional verification of a horizontal boring tunnel for electrical service conduit.

The wells were completed between 18-19 feet below ground surface (ft bgs) and were constructed of 3 inch schedule 40 PVC. No analytical samples were collected during the GRI investigation. The soil was generally described as silty to sandy clay with gravel. Boring logs from the GRI investigation are included in Attachment A.

### **Ground Water Conditions**

Field reconnaissance conducted by Cambria on December 15, 1998 confirmed the six site wells installed in 1983 still existed. Blaine Tech Services of San Jose, California developed and

sampled all six site wells on December 17, 1998. Depth to ground water was between 10.80 and 11.87 ft bgs. Ground water gradient and flow direction have not been determined. Concentrations of TPPH ranged from non detect (ND) to 940 ppb, benzene from ND to 27 ppb, and MTBE from ND to 21,000 ppb. Analytical data is included in Attachment B.

### **Pending Work**

Cambria will submit an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report (Form 5) to the Alameda County Health Care Services Agency.

### **Closing**

If you have any questions regarding this document, please call Darryk Ataide at (510) 420-3339.

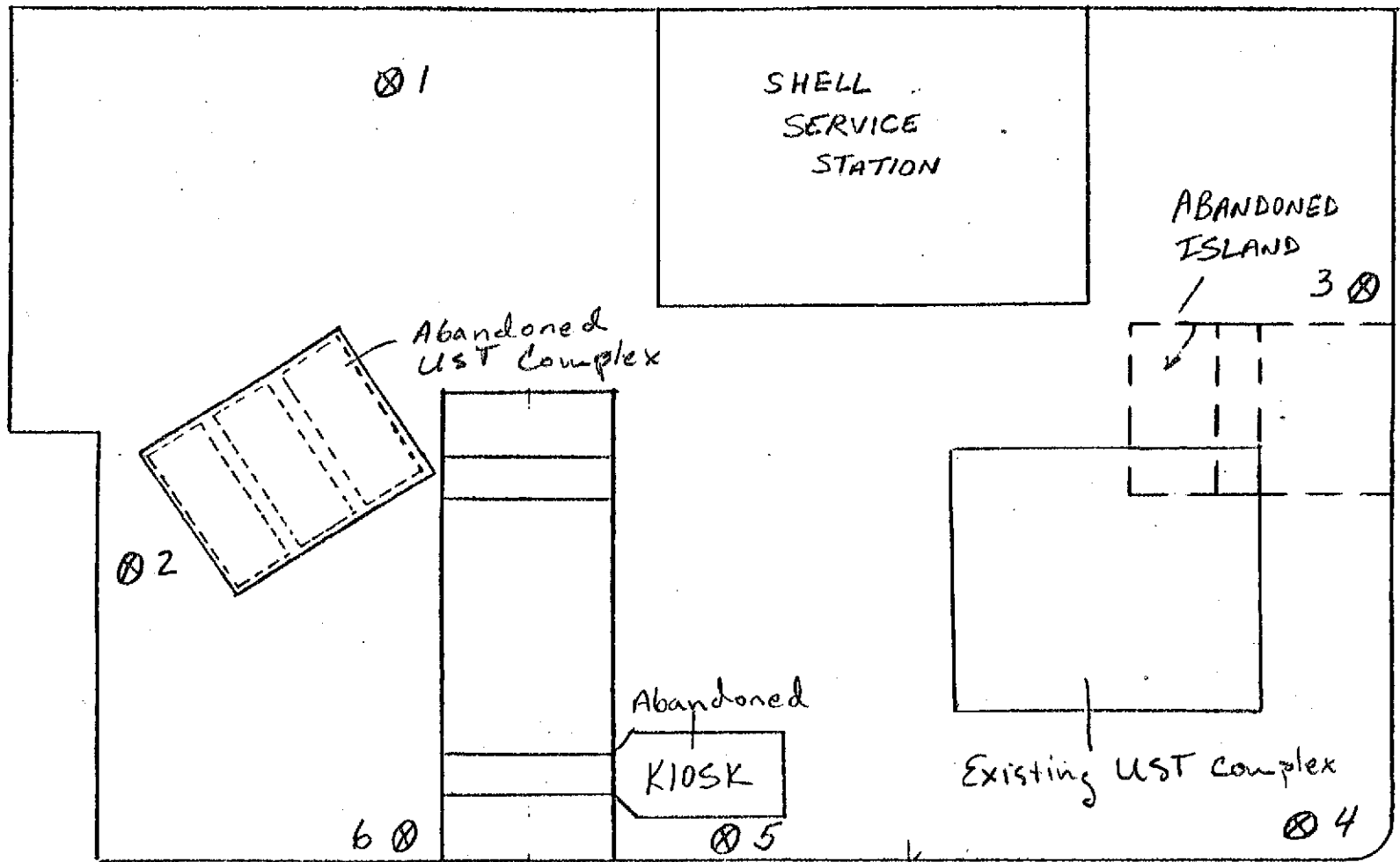
Sincerely,  
**Cambria Environmental Technology, Inc.**

Darryk Ataide  
Environmental Scientist

Diane M. Lundquist, P.E.  
Principal Engineer  
C46725

Attachments: A – Boring Logs  
B – Ground Water Analytical Data

\\PROXY\SHELL\Oak8930\Corespond98\Summary.doc



⊗ 1

SHELL SERVICE STATION

ABANDONED ISLAND

⊗ 3

Abandoned UST Complex

⊗ 2

Abandoned

KIOSK

Existing UST Complex

⊗ 6

⊗ 5

⊗ 4

90th AVE.

BANCROFT AVE.

30' ±

← NORTH

○

STREET DIVIDER

○

TEST BORINGS FOR  
OTHER UTILITIES

○

SHELL OIL CO.  
 8930 BANCROFT AVE.  
 OAKLAND, CA N.T.S.  
 SITE PLAN

COMPANY: SHELL OIL Co.  
LOCATION: 90th + Bancroft  
CITY: OAKLAND

JOB #: CR - 5050  
DATE: 5-31-83  
WELL #: 1

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		A.C. PAVING
2"		AGGREGATE
6"		DARK BROWN SILTY CLAY
2 1/2'		BROWN SILTY CLAY
4'		GRAVEL w/CLAY
10'		LIGHT BROWN SILTY CLAY - DRY
14'		LIGHT BROWN SILTY CLAY - WET
16'		GRAVEL w/CLAY - WET

FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

COMPANY: SHELL OIL Co.  
 LOCATION: 90<sup>th</sup> & BANCROFT  
 CITY: OAKLAND

JOB #: DR - 5050  
 DATE: 5-31-83  
 WELL #: 2

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
2"		A.C. PAVING
6"		AGGREGATE
2'		DARK BROWN SILTY CLAY
10'		BROWN CLAY w/GRAVEL
14'		DARK GRAY SILTY CLAY w/SAND - WET - VAPOR
19'		BROWN SILTY CLAY w/GRAVEL - WET
		LIGHT BROWN SILTY CLAY - WET

FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

COMPANY: SHELL OIL Co.  
LOCATION: 90th + Bancroft  
CITY: OAKLAND

JOB #: DR - 5050  
DATE: 5.31.83  
WELL #: 3

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
2"		A.C. PAVING
6"		AGGREGATE
3'		DARK BROWN SILTY CLAY
5'		DARK BROWN CLAY w/SILT
8'		LIGHT BROWN CLAY w/SILT
10'		BROWN CLAY w/SILT
13'		LIGHT BROWN CLAY w/GRAVEL - DAMP
		LIGHT BROWN CLAY w/GRAVEL - WET

FOREMAN: DAVID BYRON

SHEET: 1 OF 1

0120001 00012007300

COMPANY: SHELL OIL Co  
 LOCATION: 90 TH + BANCROFT  
 CITY: OAKLAND

JOB #: OR - 5050  
 DATE: 5-31-83  
 WELL #: 4

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		A.C. PAVING
2"		AGGREGATE
6"		DARK BROWN SILTY CLAY
2 1/2'		BROWN SANDY CLAY
11'		GRAVEL
13'		LIGHT BROWN SILTY CLAY - WET

FOREMAN: DAVID BYRON

SHEET: 1 OF 1

COMPANY: SHELL OIL Co.  
LOCATION: 90TH & BANCROFT  
CITY: OAKLAND

JOB #: DR - 5050  
DATE: 5-31-83  
WELL #: 5

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		A.C. PAVING
4"		AGGREGATE
8"		DARK BROWN SILTY CLAY
2'		BROWN SANDY CLAY
3'		BROWN SANDY CLAY w/ GRAVEL
6'		GRAVEL w/ SILT
7'		BROWN CLAY
10'		BROWN SILTY CLAY
17'		BROWN SILTY CLAY w/ GRAVEL WET

FOREMAN: David Byron

SHEET: 1 OF: 1



COMPANY:

SHELL OIL CO.

JOB #: CA - 5050

LOCATION:

90TH + BANCROFT

DATE: 5.31.83

CITY:

OAKLAND

WELL #: 6

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		A.C. PAVING
3"		AGGREGATE
7"		DARK BROWN SILTY CLAY
3'		DARK BROWN SILTY CLAY w/ GRAVEL
5 1/2'		BROWN CLAY
9'		BROWN SILTY CLAY w/ GRAVEL
12'		BROWN CLAY
14'		BROWN SILTY CLAY w/ GRAVEL - WET - VAPOR

FOREMAN:

DAVID BYRON

SHEET:

1 OF 1

COMPANY: SHELL OIL COMPANY  
 LOCATION: 8930 PANCREAT AVE  
 CITY: OAKLAND

WELL: OR 5050  
 DATE: 6/1/83  
 TIME: 900 AM

WELL	LIQUID DEPTH	HYDROCARBON THICKNESS	AMOUNT PUMPED
1	<u>134"</u>	/	
2	<u>145"</u>	/	
3	<u>124"</u>	/	
4	<u>128"</u>	<u>0</u>	
5	<u>132"</u>	/	
6	<u>138"</u>	/	
7			
8			
9			
10			
11			
12			
13			
14			
15			

PRODUCT TANK: TOTAL LIQUID: \_\_\_\_\_ IN. WATER: \_\_\_\_\_ IN.  
 AMOUNT PUMPED OUT: \_\_\_\_\_ GALLONS

FLOWMETER: \_\_\_\_\_ READING: \_\_\_\_\_

WATER TABLE DEPRESSION PUMP: \_\_\_\_\_ DISCHARGE \_\_\_\_\_

SCAVENGER OPERATION: \_\_\_\_\_ CLEANED: \_\_\_\_\_

PROBE OPERATION: \_\_\_\_\_ CLEANED: \_\_\_\_\_

OTHER COMMENTS: \_\_\_\_\_

FOREMAN: Rick Lukiguz ASSISTANTS: \_\_\_\_\_

**Attachment B**  
Ground Water Analytical Data



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 1  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9812849-01

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/17/98  
Reported: 12/21/98

Attention: -

QC Batch Number: GC121798BTEX30A  
Instrument ID: GCHP30

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	101

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite B  
1439 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaling, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9912B49-02

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/18/98  
Reported: 12/21/98

Attention: -

QC Batch Number: GC121898BTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	8900
Methyl t-Butyl Ether	25	48
Benzene	5.0	N.D
Toluene	5.0	37
Ethyl Benzene	5.0	22
Xylenes (Total)	5.0	47
Chromatogram Pattern: Gas & Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130 254 Q

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342


Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Bancroft Sample Descript: 2 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812B49-02	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
Attention: -		
QC Batch Number: MS121898MTBEH6A		
Instrument ID: H8		

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	20	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
1,2-Dichloroethane-d4	78                      114	95

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wigel Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd. North. Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9573  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 8  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9812B49-03

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/18/98  
Reported: 12/21/98

Attention: -

QC Batch Number: GC12189BBTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	10
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	103

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager

Page: 4



**Sequoia Analytical**

680 Chesapeake Drive  
408 N. Wiget Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(850) 364-9600  
(925) 988-9500  
(916) 921-9000  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0547

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 3  
Matrix: LIQUID  
Analysis Method: EPA 8260  
Lab Number: 9812B49-03

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/18/98  
Reported: 12/21/98

Attention: -

QC Batch Number: MS121898MTBEH6A  
Instrument ID: H6

### Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	11
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76                      114	100

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9000 FAX (650) 364-9233  
(925) 988-9600 FAX (925) 988-9673  
(916) 921-9800 FAX (916) 921-0100  
(707) 792-1863 FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 4  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9812849-04

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/17/98  
Reported: 12/21/98

Attention: -

QC Batch Number: GC121798BTEX30A  
Instrument ID: GCHP30

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	700
Methyl t-Butyl Ether	280	21000
Benzene	0.50	4.3
Toluene	0.80	0.88
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.60	N.D.
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	109

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1433 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blain Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Bancroft Sample Descript: 4 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812B49-04	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
Attention: -		
QC Batch Number: MS121898MTBEH6A		
Instrument ID: H6		

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	400	26000
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	103

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North Ste D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(530) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (530) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Shell 8930 Bancroft  
Sample Descript: 5  
Matrix: LIQUID  
Analysis Method: 8015Mod/B020  
Lab Number: 9912B49-05

Sampled: 12/17/98  
Received: 12/17/98  
Analyzed: 12/17/98  
Reported: 12/21/98

Attention: -


QC Batch Number: GC121798BTEX30A  
Instrument ID: GCHP3D

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	750
Methyl t-Butyl Ether	2.5	33
Benzene	0.50	N.D.
Toluene	0.50	17
Ethyl Benzene	0.50	1.8
Xylenes (Total)	0.50	3.5
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	157 Q

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Benner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94934

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Bancroft Sample Descript: 5 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812B49-05	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
Attention: -		
GC Batch Number: MS121898MTBEH6A		
Instrument ID: H6		

### Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	32
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
1,2-Dichloroethane-d4	76	114
		101

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite B  
1459 McDowell Blvd. North. Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(850) 364-9600 FAX (650) 364-9233  
(925) 988-9600 FAX (925) 988-9673  
(916) 921-9600 FAX (916) 921-0100  
(707) 792-1865 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Bancroft Sample Descript: 6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9812B49-06	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
--	---	---

QC Batch Number: GC121896BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	80	940
Methyl t-Butyl Ether	2.8	3.0
Benzene	0.50	27
Toluene	0.80	0.32
Ethyl Benzene	0.50	2.4
Xylenes (Total)	0.50	2.3
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130 Q

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Weyer Lane  
819 Striker Avenue, Suite B  
1655 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-9100  
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Banoroft Sample Descript: 6 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812849-08	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
--	---	---

Attention: -  
QC Batch Number: MS121898MTBEH5A  
Instrument ID: H6

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	3.2
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	78                      114	101

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services 1880 Rogers Avenue San Jose, CA 95112 Attention:	Client Proj. ID: Shell 8930 Bancroft Lab Proj. ID: 9812B49	Received: 12/17/98 Reported: 12/21/98
--	---	--

**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.).

**EPA 8260:**

A high purity mtbe spectral match was not possible for sample 9812B49-05 because of 3-methyl pentane interference. However, the mtbe quantitation was not affected.

**SEQUOIA ANALYTICAL**

Peggy Penber  
Project Manager