

CAMBRIA

COPY

Site: Oakland 8930 16-404
Proj. Rem. Rep. Bill
1 2 3 4 5 6

December 23, 1998

Mr. Leroy Griffin
City of Oakland, Fire Department
505 14th Street Suite 702
Oakland, California 94612

Re: **Underground Storage Tank Unauthorized Release (Leak)/Contamination
Site Report (Form 5)**

Shell-branded Service Station
8930 Bancroft Avenue
Oakland, C-alifornia
WIC #204-5508-1305



Dear Mr. Griffin:

Cambria Environmental Technology, Inc. (Cambria) on behalf of Equilon Enterprises LLC (Equilon) has prepared the attached Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report (Form 5) for the above referenced site. This Form 5 is being submitted as a result of recent ground water analytical sample results. As a result of a real estate transaction, Cambria reviewed archive files for the referenced site. It was determined that six observation wells were installed on site in 1983. Cambria coordinated ground water sampling of the six site wells in December 1998. Concentrations of petroleum hydrocarbons and methyl tert-butyl ether (MTBE) were detected in the ground water samples. Following are a site background summary and ground water conditions.

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. The drilling contractor was completing a test bore used for

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

C A M B R I A

directional verification of a horizontal boring tunnel for electrical service conduit when the discovery was made.

The wells were completed between 18-19 feet below ground surface (ft bgs) and were constructed of 3 inch schedule 40 PVC. No soil or ground water 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 TPH ranged from non detect (ND) to 940 ppb, and benzene concentrations ranged from ND to 27 ppb by EPA Method 8015/8020. MTBE concentrations ranged from ND to 26,000 ppb by EPA Method 8260. Analytical data is included in Attachment B.

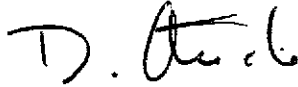
C A M B R I A

Closing

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

Sincerely,

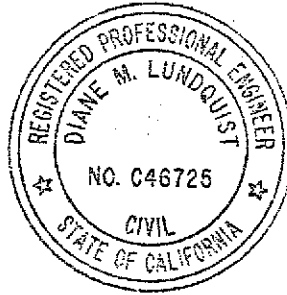
Cambria Environmental Technology, Inc.



Darryk Ataide
Environmental Scientist

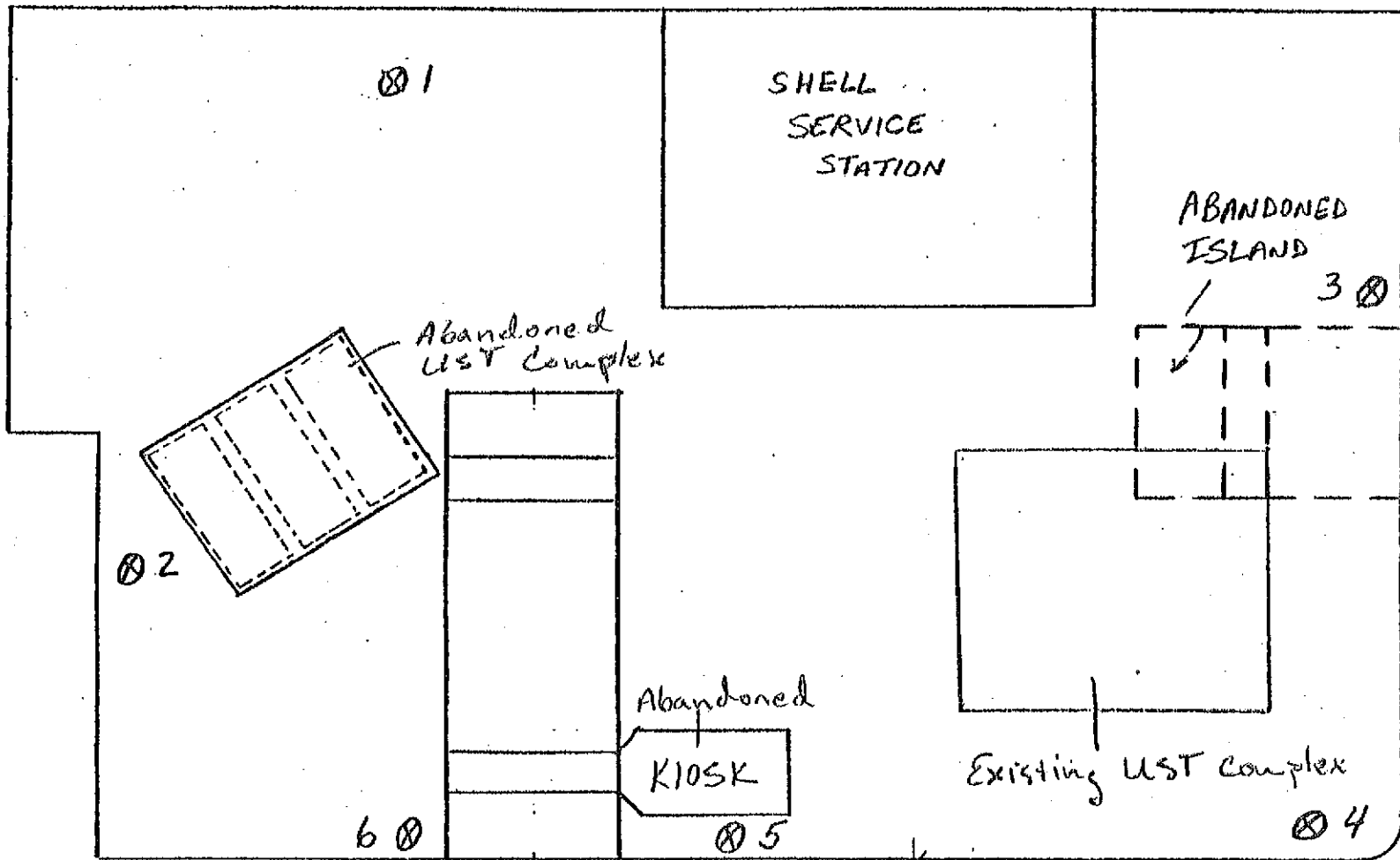


Diane M. Lundquist, P.E.
Principal Engineer
C46725



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

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



← NORTH

BANCROFT AVE.

90th AVE.



STEEL P. DIVIDER



TEST BORINGS FOR
STEEL PILES



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

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 1 _M 2 _M 2 _D 3 _D 9 _V 8 _Y		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Darryk Ataide		PHONE (510) 420-3339	SIGNATURE D. Ataide	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME EQUILON ENTERPRISES LLC		
	ADDRESS P.O. Box 6249 STREET CAPSON CITY CA STATE 90749-6249 ZIP				
RESPONSIBLE PARTY	NAME Equilon Enterprises LLC <input type="checkbox"/> UNKNOWN		CONTACT PERSON Karen Petryna		PHONE (559) 645-9306
	ADDRESS P.O. Box 6249 STREET CAPSON CITY CA STATE 90749-6249 ZIP				
SITE LOCATION	FACILITY NAME (IF APPLICABLE)		OPERATOR		PHONE ()
	ADDRESS 8950 Bancroft Ave. STREET Oakland CITY Alameda COUNTY 94605 ZIP				
	CROSS STREET 90th Avenue				
IMPLEMENTING AGENCIES	LOCAL AGENCY CITY OF OAKLAND, FIRE DPT.		CONTACT PERSON LEROY GRIFFIN		PHONE (510) 238-7759
	REGIONAL BOARD San Francisco Bay RWQCR		CONTACT PERSON Stephen Hill		PHONE (510) 622-2300
SUBSTANCES INVOLVED	(1) NAME Gasoline				QUANTITY LOST (GALLONS) _____ <input type="checkbox"/> UNKNOWN
	(2)				_____ <input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 1 _M 2 _M 2 _D 1 _D 9 _V 8 _Y		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN ____/____/____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input checked="" type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0 _M 5 _M 2 _D 6 _D 8 _V 8 _Y				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER Defective Valve		
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HJ) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)				
COMMENTS	Max TPHg conc. = 8900 µg/l in well 2 Max benzene conc. = 27 µg/l in well 6 Wells were sampled for real estate transfer.				

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

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

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

FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

COMPANY: SHELL OIL CO.

JOB #: OR - 5050

LOCATION: 90TH & BANCROFT

DATE: 5.31.83

CITY: OAKLAND

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

WELL NO: 02 - 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

COMPANY:

SHELL OIL Co

JOB # : 02 - 5050

LOCATION:

90th + BANCROFT

DATE: 5-31-83

CITY:

OAKLAND

WELL #: 4

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
2"		A.C. PAUMS6
6"		AGGREGATE
2 1/2'		DARK BROWN SILTY CLAY
11"		BROWN SANDY CLAY
13'		GRAVEL
		LIGHT BROWN SILTY CLAY - WET

FOREMAN: DAVID BYRON

SHEET: 1 OF 1

COMPANY: SHELL OIL CO.
LOCATION: 90TH + BANCROFT
CITY: OAKLAND

JOB #: BA - 5050
DATE: 5.31.83
WELL #: 5

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

FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

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

JOB #: OR - 5050DATE: 5.31.83WELL #: 6

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

FOREMAN: DAVID BYRON.SHEET: 1 OF: 1

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

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

WELL	LIQUID DEPTH	HYDROCARBON THICKNESS	AMOUNT PUMPED
1	134"	/	
2	145"	/	
3	124"	/	
4	128"	0	
5	132"	/	
6	138"	/	
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 Rodriguez ASSISTANTS: _____

Attachment C

Ground Water Analytical Results



Sequoia Analytical

680 Chesapeake Drive
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(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: 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: GC121796BTEX30A Instrument ID: GCHP30		

Total Purgable 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.
Surrogates	Control Limits %	% Recovery
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

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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: 9812849-02

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	Detector 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
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 100	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

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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: 9812849-02	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
Attention: - QC Batch Number: MS121898MT5EH6A Instrument ID: H8		

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	20	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	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

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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: 3 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
--	---	---

QC Batch Number: GC121898BTEX02A
Instrument ID: GCHF02

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:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Panner
Project Manager

Page: 4



Sequoia Analytical

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FAX (707) 792-0547

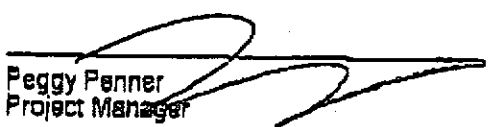
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Bancroft Sample Descript: 3 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812B49-03	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
Attention: -		
QC Batch Number: MS121898MTBEH6A		
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

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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
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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	0.50	0.88
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		GAS

Surrogates	Control Limits %	% Recovery
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

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Blaine 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: 9812849-04	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	25000
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	75	114
		103

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Fenner
Project Manager



Sequoia Analytical

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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/8020
Lab Number: 9912949-05

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	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
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	157.0

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Benner
Project Manager



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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: -

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	32
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	75 114	101

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

SEQUOIA ANALYTICAL - ELAP #1210


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1680 Rogers Avenue
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Client Proj. ID: Shell 8930 Bancroft
Sample Descript: 8
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

Attention: -
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	50	940
Methyl t-Butyl Ether	2.5	3.0
Benzene	0.50	27
Toluene	0.50	0.32
Ethyl Benzene	0.50	2.4
Xylenes (Total)	0.50	2.3
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	133 Q

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 8930 Banoroff Sample Descript: 6 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9812B49-08	Sampled: 12/17/98 Received: 12/17/98 Analyzed: 12/18/98 Reported: 12/21/98
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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	3.2
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	78	114

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



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Blaine Tech Services 1690 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
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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 Penner
Project Manager