

SEPTEMBER, 1993 QUARTERLY GROUND  
WATER SAMPLING REPORT  
FOR  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

**Geology / Engineering Geology / Environmental Studies**

**HOEXTER CONSULTING, INC.**

**734 Torrey Court  
Palo Alto, California 94303**

**(415) 494-2505 (ph/fax)**

**October 20, 1993  
E-19-2-064**

**Mr. James Stokley  
Stokley Construction  
P.O. Box 1008  
Tracy, California 95378-1008**

**Lorraine M. Berg  
Barbara J. Paxton  
5079 Seaview Drive  
Castro Valley, California 94546**

**RE: SEPTEMBER, 1993 QUARTERLY  
GROUND WATER SAMPLING REPORT  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA**

**Ladies and Gentlemen:**

Enclosed is our September, 1993 quarterly ground water sampling report for the property located at 15960 East 14th Street, San Leandro, California. This sampling round is the second quarterly sampling performed by Hoexter Consulting at the site. The results of the two previous sampling rounds by Hoexter Consulting, documented in our April 27, 1993 report following well installation, and our July 15, 1993 Quarterly Ground Water Sampling Report, are included in the analytical results summary table.

The results of this investigation indicate that the water sample from the on-site well contains 130 parts per billion (ppb) total petroleum hydrocarbons as gasoline (TPH-G). The aromatic compounds benzene, toluene, xylenes, and ethylbenzene (BTXE) were not detected. The test results for TPH-G and for BTXE are approximately the same as the March, 1993 sampling results, following installation of the well, and the June, 1993 quarterly sampling, although they do indicate a slight apparent increase in the gasoline component.

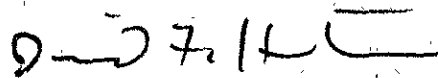
Mr. Tex Stokley; October 20, 1993

We recommend that copies of this report be submitted to the California Regional Water Quality Control Board and the Alameda County Department of Environmental Health. The next round of sampling is scheduled for the week of December 27, 1993.

We appreciate the opportunity to provide services to you on this project and trust this report meets your needs at this time. If you have any questions, or require additional information, please do not hesitate to call.

Very truly yours,

HOEXTER CONSULTING, INC.



David F. Hoexter, RG/CEG/REA  
Principal

Copies: Addressee (4)

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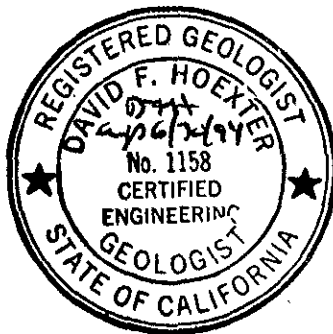
SEPTEMBER, 1993 QUARTERLY  
GROUND WATER SAMPLING REPORT

"ABC Mustang" Site  
STID #4394  
15960 East 14th Street  
San Leandro, California

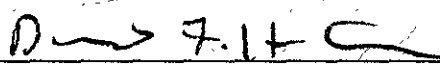
To

Mr. James Stokley  
Stokley Construction  
P.O. Box 1008  
Tracy, California 95378-1008

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Barbara J. Paxton  
5079 Seaview Drive  
Castro Valley, California 94546



October, 1993

  
\_\_\_\_\_  
David F. Hoexter, RG/CEG/REA  
Principal

**CHECK PAGINATION**

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SEPTEMBER, 1993 QUARTERLY GROUND WATER  
SAMPLING REPORT  
FOR  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

## I. INTRODUCTION

This report presents the results of the September, 1993 quarterly ground water sampling at 15960 East 14th Street, San Leandro, California. The project location is shown on the Location Map, Figure 1. The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from one on-site monitoring well. Ground water samples were analyzed for total petroleum hydrocarbons as gasoline and for purgeable aromatic compounds. The well location is shown on the Site Plan, Figure 2.

The results of the two previous sampling rounds by Hoexter Consulting are documented in our April 27, 1993 report of well installation and sampling, and our July 15, 1993 quarterly ground water sampling report.

## II. FIELD INVESTIGATION

The ground water monitoring well was sampled by a representative of Hoexter Consulting on September 29, 1993. The entire well purging and sampling procedure was conducted by David F. Hoexter, CEG/REA. Following an initial ground water level measurement (Table 1), approximately six well-casing volumes of water were purged from the well using a teflon bailer. Recovery of the well during purging was rapid. The initial depth to ground water, relative to the reference point, was 8.19 feet, 0.33 feet greater than the previous sampling, and continuing a relatively slight decline in ground water table elevation.

Following purging, samples were collected using a teflon bailer, placed in appropriate sample containers supplied by the analytical laboratory, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. All sampling equipment was thoroughly cleaned with trisodium phosphate detergent and rinsed with distilled water prior to sampling the well. Monitoring well sampling logs and the chain of custody are attached to this report as a part of Appendix I. The laboratory is California Department of Health Services approved for the requested analyses.

## III. ANALYTICAL RESULTS

### A. Laboratory Procedures

The ground water sample was analyzed by Sequoia Analytical of Redwood City, California. The sample was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015, and for the purgeable aromatic compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020.

B. Analytical Results

The results of the chemical analyses are presented on Table 2 and are attached to this report as a part of Appendix I. Analytical results of the previous testing, including the March, 1993 sampling following well installation and the June, 1993 quarterly ground water sampling, are also included. The current analytical results indicate that hydrocarbons as gasoline were detected in the monitoring well at a concentration of 130 ug/l, or parts per billion (ppb). Purgeable aromatic compounds were not detected.

The test results indicate a slight increase in detected concentrations of TPH-G, from 81 ppb in March, 1993 and 86 ppb in June, 1993, to the present level of 130 ppb. Purgeable aromatic compounds were not detected in the previous sampling events and in the current (September, 1993) sampling event.

IV. LIMITATIONS

This report has been prepared according to generally accepted geologic and environmental practices. No other warranty, either expressed or implied as to the methods, results, conclusions or professional advice provided is made. The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of our investigation; review of previous reports relevant to the site conditions; and laboratory results from an outside analytical laboratory.

Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review our report in light of those changes.

\*\*\*\*\*

TABLE 1

GROUND WATER ELEVATION DATA  
(All Measurements in Feet)

<u>Well Number and Date</u>	<u>Well Top Elevation</u>	<u>Depth to Water</u>	<u>Relative Ground Water Elevation</u>
MW-1 3/19/93	N/A	7.2	N/A
6/28/93	N/A	7.88	N/A
9/29/93	N/A	8.19	N/A

Notes:

(1) N/A = Not Applicable



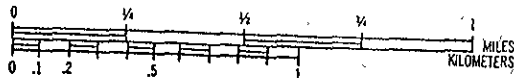
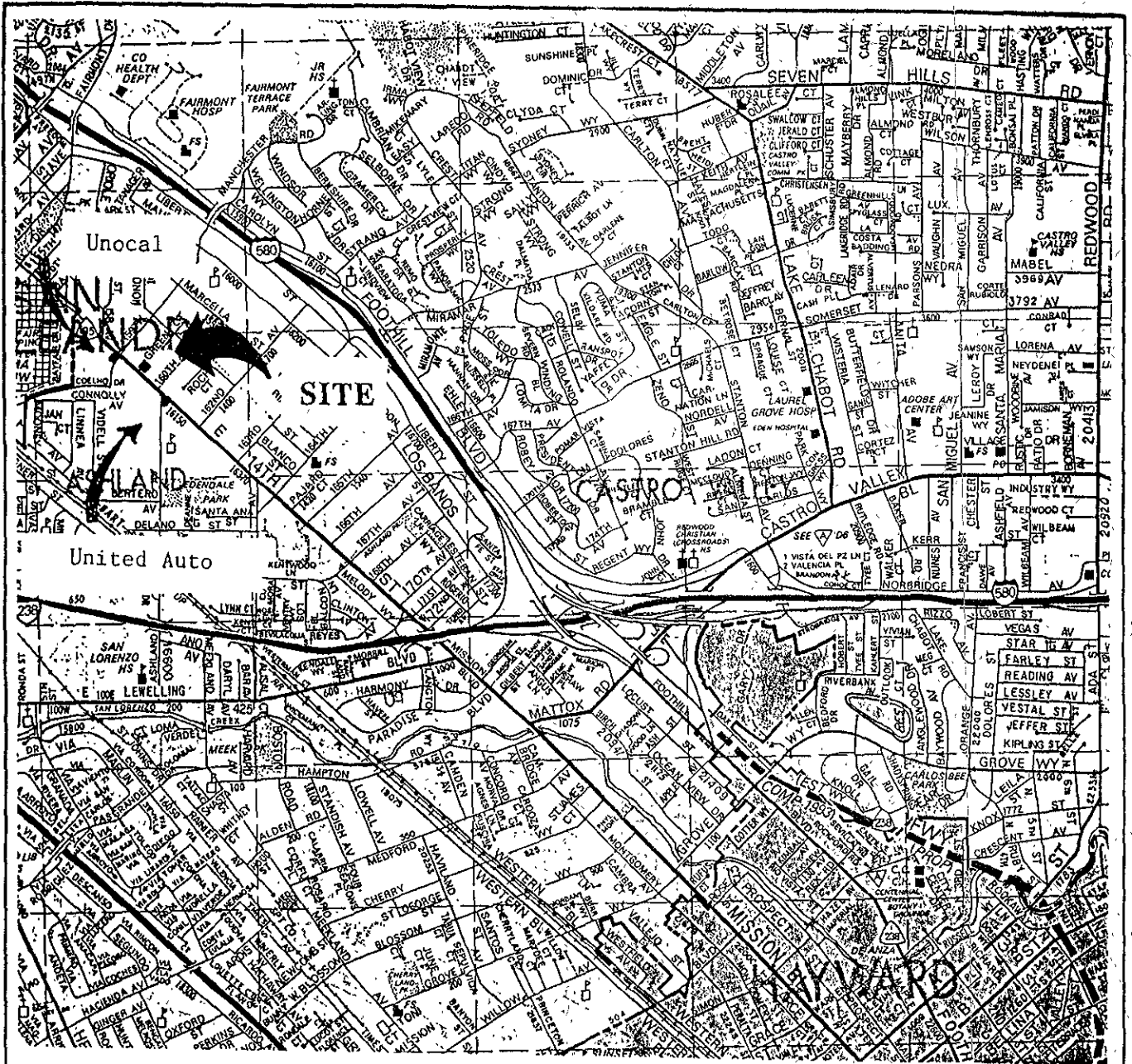
TABLE 2

SUMMARY OF GROUND WATER ANALYSES  
(Results reported in parts per billion, ug/l) (1)

<u>Well/Date</u>	<u>TPH Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
MW-1 3/19/93 (2)	81	ND	ND	ND	ND
6/28/93 (3)	86	ND	ND	ND	ND
9/29/93	130	ND	ND	ND	ND

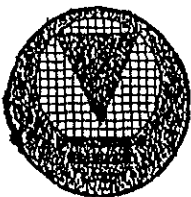
Notes:

- (1) ND - non-detect; N/A - not applicable
- (2) April 27, 1993 Hoexter Consulting report
- (3) July 15, 1993 Hoexter Consulting report



# ALAMEDA COUNTY

1991 *Thomas Guide*

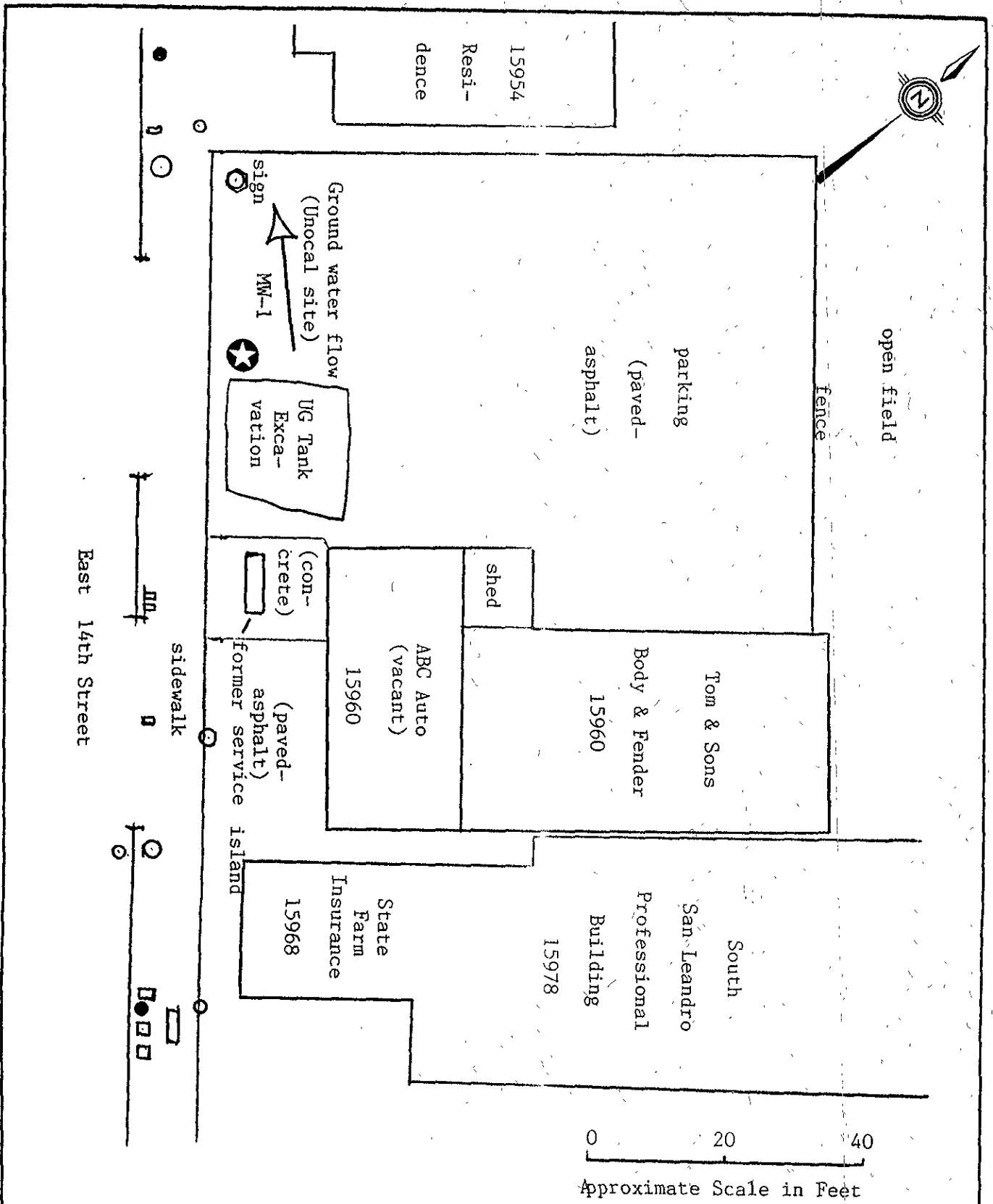


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LOCATION MAP

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.	DATE	Figure 1
E-19-2-064	October, 1993	



Base: Tape survey, D.F. Hoexter, 2/9/93



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**SITE PLAN**

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.	DATE	Figure 2
E-19-2-064	October, 1993	

**APPENDIX I**  
**WATER SAMPLE LOG**  
**CHAIN OF CUSTODY**  
**ANALYTICAL TEST RESULTS**

# HOEXTER CONSULTING

## Groundwater Sampling Field Log

Project Name/ No: ABC Mustang / E-19-2-064 Lab I.D.:             
 Client: Stokley Construction Date: 9/29/93  
 Project Manager: David F. Hoexter Sample Location/I.D.: MW-1  
 Sampler: David F. Hoexter Start Time:             
 Casing Diameter: 2 inch  3 inch  4 inch  6 inch  Other:

Depth of Well (feet): 25.0 Calculated Purged Volume: 15.6  
 Depth to Water (feet): 8.19 Actual Purged Volume: 16  
 Sample Depth (feet):           

### Field Measurements

#	Time	Volume Cum (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees $^{\circ}$ F	Color (visual)	Other
1		2.6	7.55	682	77	v. cloudy	
2		5.2	7.60	1065	71.8	cloudy	
3		7.8	7.51	1048	70.8		
4		10.4	7.51	1048	70.6		
5		13	-	-	-		
6		15.6	7.52	Purge Method 1045	70.4	sl. cloudy	

2" Bladder Pump  Bailer - to flow  Well Wizard  Dedicated  
 Submersible Pump  Centrifugal Pump  Dipper  Other  
 Pneumatic Displacement Pump

### Sample Method

2" Bladder Pump  Bailer (Teflon)  Well Wizard  Dedicated  
 Surface Sampler  Dipper  Fultz Pump  Other

Well Integrity: OK

Remarks: no show of adv

Signature: David F. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length			
	Gal/ft	Cubic Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

### Conversion Factors

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet	Gallons	7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

CHAIN-OF-CUSTODY RECORD

Project Number E-19-2-064			Project Name ABC Mustang			Number/Type of Containers	Analytical Tests TPH-G/BTEX*	Remarks						
Sampler's Name (printed) David F. Hoexter														
Boring Number	Date	Time	Soil	Water	Sample Location or Depth								Sample Number	
MW-1	9/29/93	16:02		X		MW-1-1,2,3 3-WAL	X	Preserved 9309.F43 01						

Relinquished by: (Signature) D. Hoexter	Date/Time 9/29/93/17 <sup>10</sup>	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) David Hoexter

Ship To: Sequoia Analytical  
680 Chesapeake Dr.  
Redwood City, CA 94063

Attention: Receiving  
 Phone No: 415-364-9600

Requested Turnaround Time: Normal - 2 wk. Contact: David F. Hoexter Phone: 415-494-2501

Remarks: \* Port Reg. with Qual. Control Board - S.F. Bay Region

Hoelder Consulting Engineering Geology  
 734 Torreya Court  
 Palo Alto, CA 94303

PH/Fax



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Hoexter Consulting Eng'g Geo  
734 Torreya Court  
Palo Alto CA 94303  
Attention: David F. Hoexter

Client Project ID: E-19-2-064 ABC Mustang  
Sample Matrix: Water  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 3IF4301

Sampled: Sep 29, 1993  
Received: Sep 29, 1993  
Reported: Oct 11, 1993

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 3IF4301 MW-1
Purgeable Hydrocarbons	50	130
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.

Chromatogram Pattern:

Discrete Peak

### Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	10/6/93
Instrument Identification:	GCHP-3
Surrogate Recovery, %: (QC Limits = 70-130%)	92

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

  
Peggy A. Renner  
Project Manager

3IF4301.HHH <1>



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Hoexter Consulting Eng'g Geo  
734 Torrey Court  
Palo Alto CA 94303  
Attention: David F. Hoexter

Client Project ID: E-19-2-064 ABC Mustang  
Matrix: Water

QC Sample Group: 3IF4301

Reported: Oct 11, 1993

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
<b>Method:</b>	EPA 8020	EPA 8020	EPA 8020	EPA 8020
<b>Analyst:</b>	M. Nipp	M. Nipp	M. Nipp	M. Nipp
<b>Conc. Spiked:</b>	10	10	10	30
<b>Units:</b>	µg/L	µg/L	µg/L	µg/L
<b>LCS Batch#:</b>	GBLK100693	GBLK100693	GBLK100693	GBLK100693
<b>Date Prepared:</b>	N/A	N/A	N/A	N/A
<b>Date Analyzed:</b>	10/6/93	10/6/93	10/6/93	10/6/93
<b>Instrument I.D.#:</b>	GCHP-3	GCHP-3	GCHP-3	GCHP-3
<b>LCS % Recovery:</b>	98	95	96	97
<b>Control Limits:</b>	80-120	80-120	80-120	80-120

<b>MS/MSD Batch #:</b>	G3J10903	G3J10903	G3J10903	G3J10903
<b>Date Prepared:</b>	N/A	N/A	N/A	N/A
<b>Date Analyzed:</b>	10/6/93	10/6/93	10/6/93	10/6/93
<b>Instrument I.D.#:</b>	GCHP-3	GCHP-3	GCHP-3	GCHP-3
<b>Matrix Spike % Recovery:</b>	100	98	98	100
<b>Matrix Spike Duplicate % Recovery:</b>	95	92	93	93
<b>Relative % Difference:</b>	5.1	6.3	5.2	7.3

SEQUOIA ANALYTICAL

Peggy A. Penner  
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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

3IF4301.HHH <2>