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MARCH, 1994 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)

April 12, 1994  
E-19-2-064  
HCEntRpts:ABCMustang/4

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: MARCH, 1994 QUARTERLY  
GROUND WATER SAMPLING REPORT  
"ABC MUSTANG" SITE  
STID #4394  
15960 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA

Ladies and Gentlemen:

Enclosed is our March, 1994 quarterly ground water sampling report for the property located at 15960 East 14th Street, San Leandro, California. This sampling round is the fourth quarterly and fifth overall sampling performed by Hoexter Consulting at the site. The results of the four previous sampling rounds by Hoexter Consulting, documented in our April 27, 1993 report following well installation, and our July 15 and October 20, 1993, and January 19, 1994 quarterly ground water sampling reports, are included in the analytical results summary table.

The results of this investigation indicate that the water sample from the on-site well contains 87 parts per billion (ppb) total petroleum hydrocarbons as gasoline (TPH-G). The aromatic compounds benzene, toluene, xylenes, and ethylbenzene (BTXE) are not detected. The test results for TPH-G and for BTXE indicate a slight decrease in gasoline compared to the previous quarterly sampling round, and are on the same order of magnitude as the initial two quarterly sampling rounds.

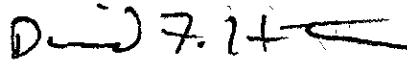
Mr. Tex Stokley; April 12, 1994; E-19-2-064

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. At this time, continued quarterly sampling is not anticipated. *Based on the relatively low levels of petroleum hydrocarbons present at the site, we recommend the preparation and submittal of a site closure report.*

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.

A handwritten signature in black ink, appearing to read "D. F. Hoexter", with a stylized flourish at the end.

David F. Hoexter, RG/CEG/REA  
Principal

Copies: Addressee (4)

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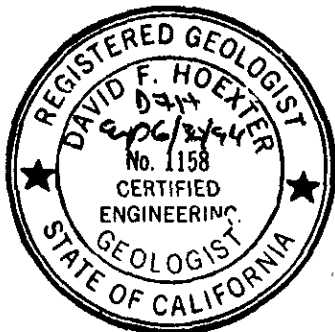
MARCH, 1994 QUARTERLY  
GROUND WATER SAMPLING REPORT

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

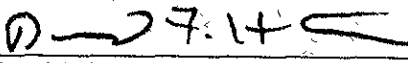
To

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

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



April, 1994

  
David F. Hoexter, RG/CEG/REA  
Principal

## TABLE OF CONTENTS

	Page No.
Letter of Transmittal	
TITLE PAGE	
TABLE OF CONTENTS	
I. INTRODUCTION .....	1
II. FIELD INVESTIGATION .....	1
III. ANALYTICAL RESULTS .....	1
A. Laboratory Procedures .....	1
B. Analytical Results .....	2
IV. LIMITATIONS .....	2
TABLE 1 - Ground Water Elevation Data .....	3
TABLE 2 - Summary of Ground Water Analytical Data .....	4
FIGURE 1 - Location Map	
FIGURE 2 - Site Plan	
APPENDIX I - Water Sample Log	
Chain of Custody	
Analytical Test Results	

MARCH, 1994 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 March, 1994 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 three previous sampling rounds by Hoexter Consulting are documented in our April 27, 1993 report of well installation and sampling, and our July 15 and October 20, 1993 and January 19, 1994 quarterly ground water sampling reports.

## II. FIELD INVESTIGATION

The ground water monitoring well was sampled by a representative of Hoexter Consulting on March 24, 1994. The entire well purging and sampling procedure was conducted by David F. Hoexter, RG/CEG/REA. Following an initial ground water level measurement (Table 1), in excess of five 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 7.75 feet, 0.05 feet higher than the previous sampling, and continuing the previous rise 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, September and December, 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 87 ug/l, or parts per billion (ppb). Purgeable aromatic compounds were not detected.

The test results indicate a continued decline in detected concentrations of TPH-G, from 110 ppb in December, 1993 to the present level of 87 ppb. The maximum previously detected TPH-G was 130 ppb in September, 1993. The current level is approximately the same as the March and June, 1993 concentrations, 81 and 86 ppb, respectively. Purgeable aromatic compounds were not detected in the previous sampling events and in the current (March, 1994) 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.

This report is prepared for the exclusive use of Lorraine M. Berg and Barbara J. Paxton, and their consultants. The conclusions and recommendations herein may not be valid for other (third) parties unless reviewed and verified in writing by Hoexter Consulting, Inc.

\*\*\*\*\*

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
12/28/93	N/A	7.83	N/A
3/24/94	N/A	7.75	N/A

Notes:

(1) N/A = Not Applicable



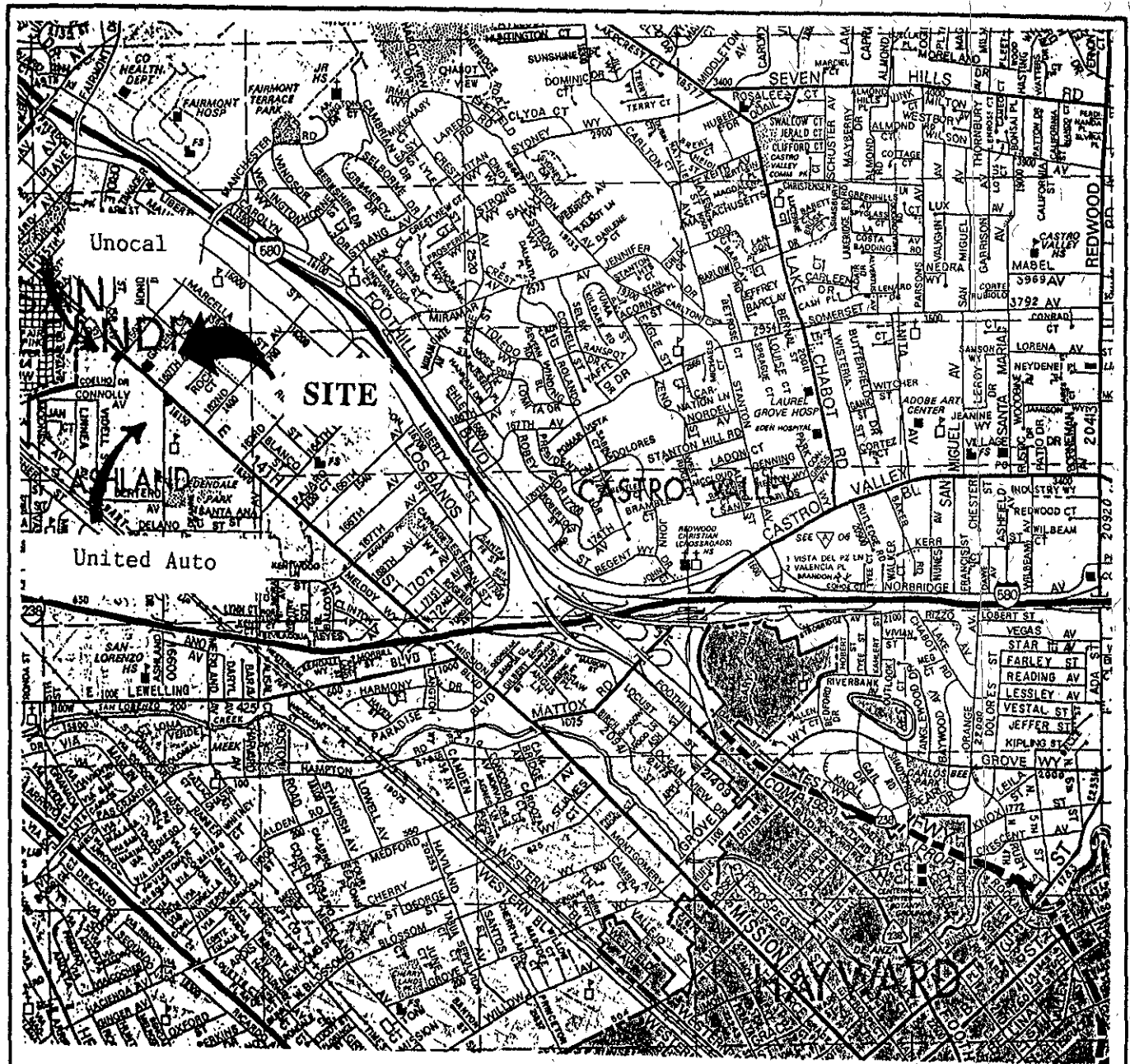
TABLE 2

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 (4)	130	ND	ND	ND	ND
12/28/93 (5)	110	ND	ND	ND	ND
3/24/94	87	ND	ND	ND	ND

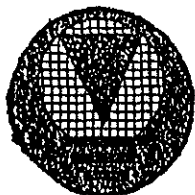
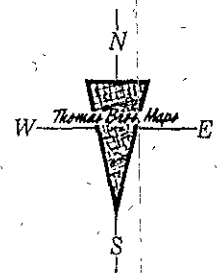
Notes:

- (1) ND - non-detect; N/A - not applicable
- (2) April 27, 1993 Hoexter Consulting report
- (3) July 15, 1993 Hoexter Consulting report
- (4) October 20, 1993 Hoexter Consulting report
- (5) January 19, 1994 Hoexter Consulting report



# ALAMEDA COUNTY

1991 *Thomas Guide*.

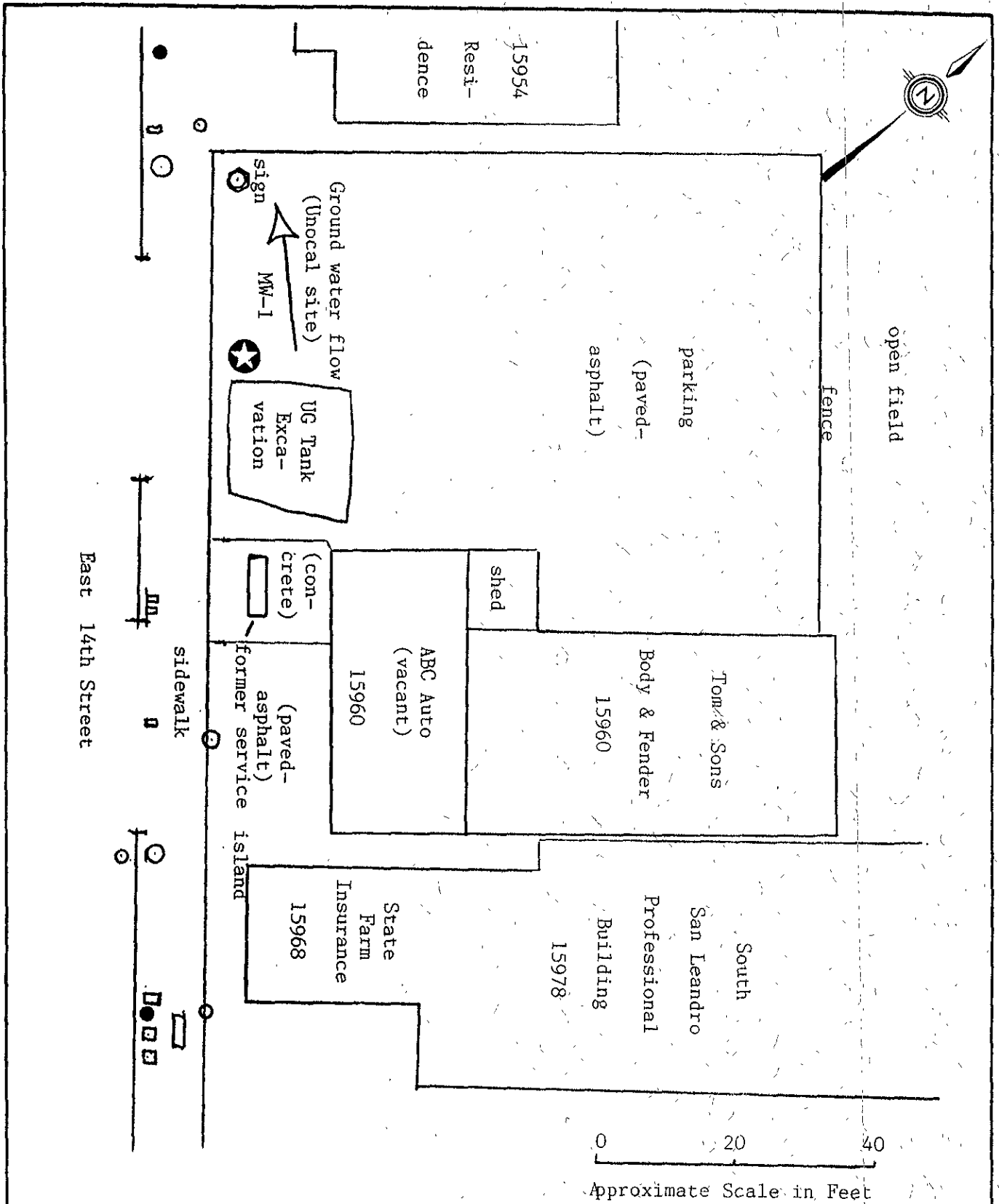


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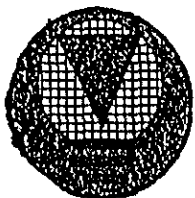
LOCATION MAP

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.	DATE	Figure
E-19-2-064	April, 1994	1



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



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**SITE PLAN**

15960 EAST 14 TH STREET  
 SAN LEANDRO, CALIFORNIA

<b>PROJECT NO.</b>	<b>DATE</b>	<b>Figure</b> 2
E-19-2-064	April, 1994	

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

# HOEXTER CONSULTING

## Groundwater Sampling Field Log

Project Name/ No.: ABC Mustang / E-19-2064 Lab I.D.: \_\_\_\_\_  
 Client: Stolley Construction Date: 3/24/94  
 Project Manager: D.F. Hoexter Sample Location/I.D.: MW-1  
 Sampler: D.F. Hoexter Start Time: 12:05  
 Casing Diameter: 2 inch  3 inch \_\_\_\_\_ 4 inch \_\_\_\_\_ 6 inch \_\_\_\_\_ Other: \_\_\_\_\_

Depth of Well (feet): 25 Calculated Purged Volume: 15  
 Depth to Water (feet): 7.75 Actual Purged Volume: ± 15  
 Sample Depth (feet): \_\_\_\_\_

17.25' wtr → 2.82 gal/vol.

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>12:05</u>	<u>3.0</u>	<u>3.0</u>	<u>7.63</u>	<u>1103</u>	<u>63.4</u>	<u>cloudy</u>	
	<u>6.0</u>	<u>3.0</u>	<u>7.54</u>	<u>1120</u>	<u>63.7</u>		
	<u>9.0</u>	<u>3.0</u>	<u>7.57</u>	<u>1143</u>	<u>64.1</u>		
	<u>12.0</u>	<u>3.0</u>	<u>7.55</u>	<u>1123</u>	<u>63.9</u>		
<u>12:45</u>	<u>15.0</u>	<u>3.0</u>	<u>7.57</u>	<u>1128</u>	<u>63.8</u>	<u>sl. cloudy</u>	

### Purge Method

\_\_\_\_\_ 2" Bladder Pump  Bailer (teflon) \_\_\_\_\_ 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: sampled 12:50 ; purged 5.26 well volume

Signature: D. Hoexter

Volumes Per Unit Length Selected Well Casing Diameters  
 Volume Per Unit Length

Well Casing I.D. (inches)	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

9403655

Project Number <b>E-19-2-064</b>		Project Name <b>ABC Mustang</b>				Number / Type of Containers	Analytical Tests <b>TPH-G / BTEX</b>	Remarks
Sampler's Name (printed) <b>David F. Hoexter</b>								
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number		
MW-1	3/24/94	12:50		X		MW-1, 2, 3 3-40ml (VOA)	X Preserved NCL OIA-C	

Relinquished by: (Signature) <b>D. F. Hoexter</b>	Date/Time 3/24/94 1:14 <sup>15</sup>	Received by: (Signature)	Ship To: <u>Sequoia Analytical</u> <u>680 Chesapeake Dr</u> <u>Redwood City CA 94063</u> Attention: <u>Receiving</u> Phone No: <u>415-364-9600</u>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time 3/24/94 1:15	Received for Laboratory by: (Signature) <b>W. H. Haller</b>	

Requested Turnaround Time: Normal - 1 day Contact: David F. Hoexter Phone: 415-494-2505  
 Remarks: Analyze per RWQC3 / SF Bay Region Guidelines ph + fax

**Hoexter Consulting Engineering Geology**  
 734 Torrey Court  
 Palo Alto, CA 94303



Hoexter Consulting Engrg Geol. 734 Torreya Court PaloAlto, CA 94303 Attention: David F. Hoexter	Client Project ID: E-19-2-064, ABC Mustang Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 4CG5501	Sampled: Mar 24, 1994 Received: Mar 24, 1994 Reported: Apr 1, 1994
--	---	--

**TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION**

Analyte	Reporting Limit µg/L	Sample I.D. 4CG5501 MW-1
Purgeable Hydrocarbons	50	87
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:	3/31/94
Instrument Identification:	GCHP-3
Surrogate Recovery, %: (QC Limits = 70-130%)	99

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

**SEQUOIA ANALYTICAL**

Suzanne Chin  
Project Manager





Hoexter Consulting Engrg Geol.  
734 Torreya Court  
PaloAlto, CA 94303  
Attention: David F. Hoexter

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

QC Sample Group: 4CG5501

Reported: Apr 1, 1994

**QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel

MS/MSD Batch#:	4CG8902	4CG8902	4CG8902	4CG8902
Date Prepared:	-	-	-	-
Date Analyzed:	3/30/94	3/30/94	3/30/94	3/30/94
Instrument I.D.#:	GCHP-3	GCHP-3	GCHP-3	GCHP-3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	96	96	96	97
Matrix Spike Duplicate % Recovery:	100	100	100	100
Relative % Difference:	4.1	4.1	4.1	3.0

LCS Batch#:	-	-	-	-
Date Prepared:	-	-	-	-
Date Analyzed:	-	-	-	-
Instrument I.D.#:	-	-	-	-
LCS % Recovery:	-	-	-	-

% Recovery Control Limits:	71-133	72-128	72-130	71-120
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**SEQUOIA ANALYTICAL**

Suzanne Chin  
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.

