

Ala. Co.

**NOVEMBER, 1995 "QUARTERLY" GROUND
WATER SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA**

November 17, 1995

Prepared by

**HOEXTER CONSULTING, INC.
734 Torreya Court
Palo Alto, California 94303**

415-494-2505 (ph. & fax)

ENVIRONMENTAL
PROTECTION
95 NOV 28 PM 12:08

HOEXTER CONSULTING, INC.

734 Torrey Court
Palo Alto, California 94303

(415) 494-2505 (phone & fax)

95 NOV 28 PM 12:08

ENVIRONMENTAL
PROTECTION

TRANSMITTAL

TO Alameda Co. Health Dept. - HazMat DATE 11/27/95
1131 Harbor Bay Parkway Second Floor VIA US Mail
Alameda CA 94502 FAX NO. _____

ATTENTION [REDACTED]

PROJECT 1970 Seminary JOB NO. E-10-1-019
Oakland CA

DESCRIPTION 11/17/95 "Quarterly" Report

Number of pages, including cover page, if FAX _____

COMMENTS _____

ACTION

- As requested
- For your use
- Please return when finished
- Please review and comment
- Other _____

COPY TO D. Grimit BY David F. Hoexter

If enclosures are not as noted, kindly notify us at once

Geology / Engineering Geology / Environmental Studies

**HOEXTER CONSULTING, INC.
DAVID F. HOEXTER, RG/CEG/REA**

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

(415) 494-2505 (ph. & fax)

November 17, 1995

E-10-1-019

HCQuartEnvrRpts:Seminary1970/7

Mr. Doyle Gritmit
14366 Lark Street
San Leandro, California 94578

RE: NOVEMBER, 1995 "QUARTERLY"
GROUND WATER SAMPLING REPORT
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

Dear Mr. Gritmit:

Enclosed is our November, 1995 ground water sampling report for the property located at 1970 Seminary Avenue, corner of Harmon, in Oakland, California. This sampling round is the eighth quarterly sampling performed by Hoexter Consulting at the site. The results of an initial sampling round by Kaldveer Associates, Inc, following well installation, and the previous Hoexter Consulting quarterly and sub-surface investigation sampling, are included in the analytical results summary table.

The results of this investigation indicate that the water samples from the three on-site wells range from very low to elevated levels of total petroleum hydrocarbons as gasoline (TPH-G), purgeable aromatic compounds (BTEX), and of oil (total recoverable petroleum hydrocarbons, TRPH). The analyses indicate that all analyzed compounds remain at levels of the same order-of-magnitude as the previous, April, 1995 results. TPH-G, BTEX and TRPH levels in the near-source well, MW-1, which contains the highest levels of petroleum hydrocarbons of the three existing wells, were essentially unchanged from the previous sampling event. The levels of petroleum hydrocarbons decreased in both down-gradient wells, MW-2 and MW-3.


Additional subsurface investigation of the site will be initiated during December, 1995.

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 to be conducted in conjunction with the planned installation of additional monitoring wells and additional site evaluation.

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 (2)
Alameda County Health Care Services Agency (1)
Attention: Mr. Dale Klettke, Hazardous Materials Specialist

NOVEMBER, 1995 "QUARTERLY"
GROUND WATER SAMPLING REPORT

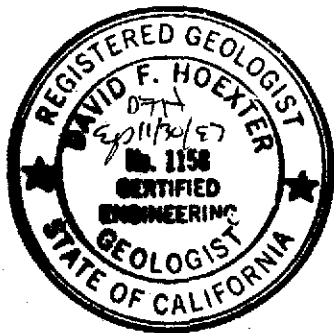
For

STID 553 - Gritmit Auto and Repair
1970 Seminary Avenue
Oakland, California

To

Mr. Doyle Gritmit
14366 Lark Street
San Leandro, California 94578

November 17, 1995



David F. Hoexter

David F. Hoexter, RG/CEG/REA
Principal Geologist

TABLE OF CONTENTS

	Page No.
Letter of Transmittal	
TITLE PAGE	
TABLE OF CONTENTS	
I. INTRODUCTION	1
II. FIELD INVESTIGATION	1
III. ANALYTICAL RESULTS	2
A. Laboratory Procedures	2
B. Analytical Results	2
IV. RECOMMENDATIONS.....	2
V. LIMITATIONS	2

TABLE 1 - Ground Water Elevation Data

TABLE 2 - Summary of Ground Water Analytical Data

FIGURE 1 - Site Location Map

FIGURE 2 - Well Location Map

APPENDIX I - Groundwater Sampling Field Log

Chain of Custody

Analytical Test Results

**NOVEMBER, 1995 QUARTERLY GROUND WATER
SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY
OAKLAND, CALIFORNIA**

I. INTRODUCTION

This report presents the results of the November, 1995 ground water sampling at 1970 Seminary, Oakland, California. The project location is shown on the Site Location Map, Figure 1. The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from three on-site monitoring wells. Ground water samples were analyzed for total petroleum hydrocarbons as gasoline, for purgeable aromatic compounds, and for oil and grease as total recoverable petroleum hydrocarbons (TRPH). Well locations are shown on the Well Location Map, Figure 2.

II. FIELD INVESTIGATION

The ground water monitoring wells were sampled by a representative of Hoexter Consulting, Inc. on November 1, 1995. Following an initial ground water level measurement (Table 1), each well was checked for free-product with the bailer, and then four well-casing volumes of water were purged from the well. A dedicated polyethylene bailer was employed for each well. Water levels were measured at least twice in each well; the final set of measurements was conducted at least 1.5 hours after the initial readings, and are thought to be essentially representative of stabilized ground water levels in the wells. The depth to ground water in well MW-1 was more than six feet lower than the previous, April, 1995 reading. Well MW-2 dropped approximately 1.3 feet; well MW-3 dropped approximately 0.2 feet. Note that wells MW-1 and MW-2 are identically completed; MW-3 is completed to a shallower depth. We have no explanation for the notable difference in ground water trends between MW-1 and MW-2.

Following purging, samples were collected using the polyethylene 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.

Although three wells are present on the site, one of the wells (MW-3) is completed at a shallower depth than the other two wells. Thus, although ground water elevation data were obtained for this investigation and are presented in Table 1, the data are not plotted, as a true ground water flow direction cannot be determined from wells not similarly completed.

III. ANALYTICAL RESULTS

A. Laboratory Procedures

The ground water samples were analyzed by Sequoia Analytical of Redwood City, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015; for purgeable aromatic compounds (BTEX) using EPA Method 8020; and for oil and grease (total recoverable petroleum, TRPH) using SM 5520B/F, gravimetric with cleanup. Note that some of the previous TRPH analyses were by the infrared method of analysis. According to the Sequoia Laboratory representative, the two analytical methods produce essentially the same results.

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 all previous testing, including the August, 1990 sampling by Kaldveer Associates, Inc. following installation of well MW-1, are also included. The current analytical results indicate that TRPH, TPH-G, and BTEX compounds are present at elevated levels which are on the same order of magnitude as the most recent, previous analyses (April, 1995).

TPH-G was present in MW-1 at 44 ppm, the lowest recorded level. The BTEX compounds and TRPH were present at essentially the same levels as most recently detected (April, 1995). TPH-G and BTEX generally declined in wells MW-2 and MW-3. Detected levels in these two wells are generally one to two orders of magnitude less than in MW-1. TRPH was not detected in wells MW-2 and MW-3.

Free product was not observed in the initial sounding of the wells, although as previously observed, a sheen (floating film) of oil was observed in well MW-1. The purge water from well MW-1 contained globules of "oil", which were observed in earlier sampling rounds.

IV. RECOMMENDATIONS

We recommend proceeding with the scheduled subsurface investigation.

V. 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</u>	<u>Well Top Elevation</u> (2)	<u>Depth to Water</u>	<u>Relative Ground</u> <u>Water Elevation (2)</u>
MW-1			
8/6/90	37.0	21.5	15.5
1/28/92		21.0	16.0
4/27/92		20.95	16.05
8/10/92		22.20	14.8
2/11/94		15.93 (3)	21.07
2/28/94		13.85 (4)	23.15
9/9/94		20.19	16.81
12/28/94		14.91	22.09
4/13/95		14.18	22.82
11/1/95		20.90	16.10
MW-2			
2/11/94	36.40	14.16 (3)	22.24
2/28/94		16.01 (4)	20.39
9/9/94		18.96	17.44
12/28/94		21.42	14.98
4/13/95		19.69	16.71
11/1/95		21.91	14.49
MW-3			
2/11/94	36.94	6.97 (3)	29.97
2/28/94		7.74 (4)	29.20
9/9/94		9.68	27.26
12/28/94		8.15	28.79
4/13/95		8.05	28.89
11/1/95		7.82	29.12

Notes:

- (1) N/A = Not applicable
- (2) City of Oakland datum
- (3) Well under pressure when locking cap removed; water level may not have been stabilized
- (4) Depth to water was measured over a 120 minute period; indicated depths are final, stabilized readings

TABLE 2

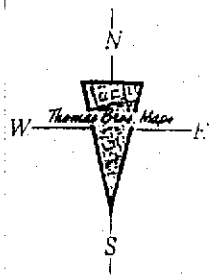
SUMMARY OF ANALYTICAL TEST RESULTS - GROUND WATER

(Results reported in parts per *million*, mg/l) (1)

<u>Well and Date</u>	<u>TPH Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>	<u>Oil & Grease</u>
<u>MW-1</u>						
8/6/90 (2)	54	3.5	3.2	9.4	1.9	7.6
1/28/92 (3)	2,000	7.4	17.0	120.0	28.0	75 (5)
4/27/92 (3)	500	3.4	6.4	45.0	10.0	440 (6)
4/27/92 (4)	175	4.2	4.4	14.6	3.2	N/A
8/10/92 (3)	170	4.2	4.2	15.0	3.3	120 (6)
2/11/94 (3)	1,800	ND	5.1	23.0	5.2	16 (6)
9/9/94 (3)	23,000	56	61	137	9.1	880 (6)
12/28/94 (3)	55	3.7	5.3	5.8	1.4	83 (6)
4/13/95 (3)	45	2.8	3.4	5.1	1.2	50 (5)
11/1/95 (3)	44	2.6	3.4	5.9	1.4	52 (5)
<u>MW-2</u>						
2/11/94 (3)	0.130	0.022	0.0011	0.0073	0.0052	ND (6)
9/9/94 (3)	1.0	0.089	ND	0.00069	ND	ND (6)
12/28/94 (3)	0.330	0.100	0.0038	0.0047	0.0054	5.1 (6)
4/13/95 (3)	1.3	0.28	0.0069	0.023	0.033	ND (5)
11/1/95	0.1	0.0099	ND	ND	ND	ND (5)
<u>MW-3</u>						
2/11/94 (3)	ND	ND	ND	ND	ND	ND (6)
9/9/94 (3)	0.710	0.010	ND	0.0035	ND	ND (6)
12/28/94 (3)	2.300	0.0078	ND	0.073	0.130	ND (6)
4/13/95 (3)	1.700	0.0029	ND	0.024	0.061	ND (5)
11/1/95	1.1	0.0044	ND	0.022	0.027	ND (5)

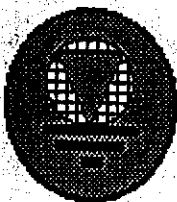
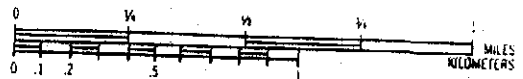
Notes:

- (1) ND - non-detect; N/A - not applicable
- (2) Kaldveer Associates report, September, 1990
- (3) Sequoia Analytical Laboratory
- (4) Applied Remediation Laboratory
- (5) Gravimetric Method
- (6) Infrared Method



ALAMEDA COUNTY

1991 *Thomas Guide*.



HOEXTER CONSULTING
Geology
Engineering Geology
Environmental Studies

LOCATION MAP

1970 Seminary Avenue
 Oakland, California

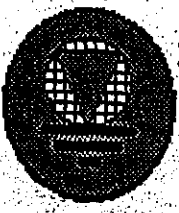
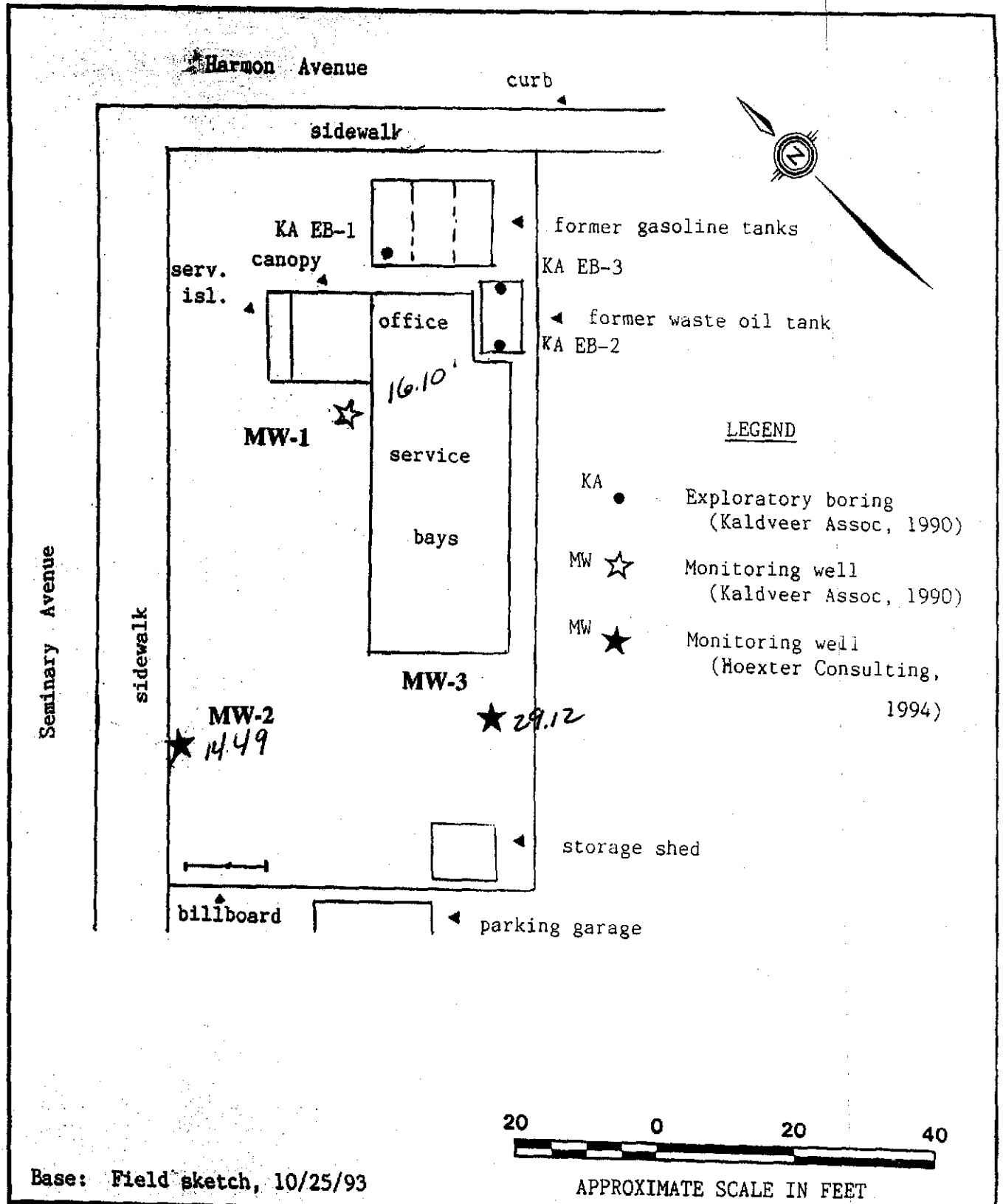
Project No.

Date

E-10-1-019

November, 1995

Figure 1



HOEXTER CONSULTING
Geology
Engineering Geology
Environmental Studies

SITE PLAN		
1970 Seminary Avenue Oakland, California		
Project No.	Date	Figure 2
E-10-1-019	November, 1995	

APPENDIX I
WATER SAMPLE LOG
CHAIN OF CUSTODY
ANALYTICAL TEST RESULTS

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/ No: E-10-1A-163A/1970 Sawney
 Client: D. Grunit
 Project Manager: D.F. Hoexter
 Sampler: J. Forsythe
 Casing Diameter: 2 inch 3 inch 4 inch 6 inch Other:

Lab I.D.: 9511273-01
 Date: 11/1/95
 Sample Location/I.D.: MW-1
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 20.90 (2 hr 40 min)
 Sample Depth (feet): _____

Calculated Purged Volume: 9.25 gal
 Actual Purged Volume 10 gal
 (14.1') (0.1632) = 2.30 gal/vol.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1242	0	0	5.55	850	65.9	clear	
1255	2.5	2.5	5.67	915	65.0	cloudy	
1303	5	↓	5.68	872	64.4	gray	
1311	7.5	↓	5.68	856	64.9	↓	
1325	10	↓	5.62	860	64.8	↓	

Purge Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump polyethylene

Sample Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other
 polyethylene

Well Integrity: OK

Remarks: No pressure on well cap removal, slight odor + sheen on initial bail; oil globules + incr. odor as well purged. Well sampled 15:35

Signature: D. Hoexter / J. Forsythe

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

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No.: E-10-1A-163A/1970 Seminary
 Client: D. G. Smith
 Project Manager: D. F. Hoexter
 Sampler: J. Forsythe
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 9511273-02
 Date: 11/1/95
 Sample Location/I.D.: MW-2
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 21.91 (1 hr 54 min)
 Sample Depth (feet): _____

Calculated Purged Volume: 8.5 gal
 Actual Purged Volume 10 gal
 $(35 - 21.91) / (0.1632) =$
2.14 gal/vol.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1130	0	0	5.59	605	67.3	clear	
1137	2.5	2.5	5.69	646	66.7	cloudy	
1145	5	↓	5.73	644	66.1	↓	
1153	7.5	↓	5.71	640	66.0	↓	
1207	10	↓	5.66	629	65.8	↓	

Purge Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Submersible Pump _____ Centrifugal Pump _____ Dipper _____ Other
 _____ Pneumatic Displacement Pump _____ polyethylene

Sample Method

_____ 2" Bladder Pump Bailer _____ Well Wizard Dedicated
 _____ Surface Sampler _____ Dipper _____ Fultz Pump _____ Other
 _____ polyethylene

Well Integrity: OK

Remarks: Moderate pressure release on well cap removal. No odor, show or production on initial bail. Very slow recovery following well purge; sampled 3 hrs. after purge with 3+ ft wtr. in well.

Signature: D. J. [unclear] / J. Forsythe

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

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/ No: E-10-1A-163A/1970 Seminary
 Client: D. Glimet
 Project Manager: J.F. Hoexter
 Sampler: J. Forsythe
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Lab I.D.: 9511273-03
 Date: 11/1/95
 Sample Location/I.D.: MW-3
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 7.82' (1 hr 25 min)
 Sample Depth (feet): _____

Calculated Purged Volume: 7.95 gal
 Actual Purged Volume 8 gal
 (20 - 7.82) (0.1632)
 = 1.99 gal./vol.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
1028	0	0	6.61	484	67.8	clear	
1035	2	2	6.27	535	66.0	sl. cloudy	
1041	4	2	6.05	555	65.4	cloudy	
1048	6	2	5.97	570	64.9	↓	
1056	8	2	5.92	577	64.4		

Purge Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump _____ polyethylene

Sample Method

2" Bladder Pump Bailer Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other
 _____ _____ polyethylene

Well Integrity: OK

Remarks: Slight pressure release on well cap removal. No odor, product, seen on initial bail; slight odor developed during well purge. Slow recovery following pump; sampled 3 1/2 hrs. after purge with Signature: D. J. Hoexter / J. Forsythe 6+ft wtr. in well.

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-10-1A-163A		Project Name 1970 Seminary, Oakland				Number / Type of Containers	Analytical Tests TPH - G / BTEX * TRPH 3M 5520 B/A *	Remarks			
Sampler's Name (printed) S. Forsythe											
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number					
MW-1	11/1/95	15:35				3-40ml	X				
						1-100ml	X				
MW-2		14:55				3-40ml	X				
						1-100ml	X				
MW-3		14:30				3-40ml	X				
						1-100ml	X				

Relinquished by: (Signature) <i>J. Forsythe</i>	Date/Time 11/1/95 17:00	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time 11-1-95 17:00	Received for Laboratory by: (Signature) <i>Tony McMahon</i>

Ship To: Sagevia Analytical
1680 Chase Park Dr
Redwood City CA

Attention: receiving
 Phone No: 415-364-9600

Requested Turnaround Time: NORMAL Contact: David F. Hoexter Phone: 415-494-2505
 Remarks: * Analyze per RWQCB LUFT Guidelines ph/fax

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

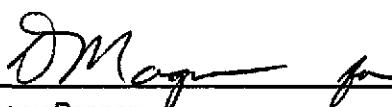
Hoexter Consulting Eng'g Geo 734 Torreya Court Palo Alto, CA 94303	Client Proj. ID: E-10-1A-163A/1970 Seminary Lab Proj. ID: 9511273	Sampled: 11/01/95 Received: 11/01/95 Analyzed: see below Reported: 11/15/95
Attention: David F. Hoexter		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9511273-01 Sample Desc: LIQUID,MW-1				
TRPH (SM 5520 B&F Mod)	mg/L	11/14/95	5.0	52
Lab No: 9511273-02 Sample Desc: LIQUID,MW-2				
TRPH (SM 5520 B&F Mod)	mg/L	11/14/95	5.0	N.D.
Lab No: 9511273-03 Sample Desc: LIQUID,MW-3				
TRPH (SM 5520 B&F Mod)	mg/L	11/14/95	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210



 Peggy Penner
 Project Manager





Hoexter Consulting Eng'g Geo 734 Torrey Court Palo Alto, CA 94303	Client Proj. ID: E-10-1A-163A/1970 Seminary Sample Descript: MW-1 Matrx: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511273-01	Sampled: 11/01/95 Received: 11/01/95 Analyzed: 11/07/95 Reported: 11/15/95
Attention: David F. Hoexter		

QC Batch Number: 5G110795BTEX03A
Instrument ID: GCHP03

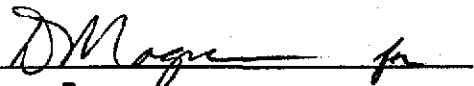
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	44000
Benzene	100	2600
Toluene	100	3400
Ethyl Benzene	100	1400
Xylenes (Total)	100	5900
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	120

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Hoexter Consulting Eng'g Geo 734 Torreya Court Palo Alto, CA 94303	Client Proj. ID: E-10-1A-163A/1970 Seminary Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511273-02	Sampled: 11/01/95 Received: 11/01/95 Analyzed: 11/07/95 Reported: 11/15/95
Attention: David F. Hoexter		

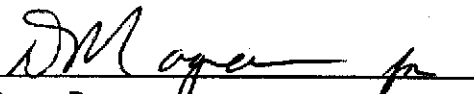
QC Batch Number: 5G110795BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	100
Benzene	0.50	9.9
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Unidentified HC		< C9
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210



 Peggy Penner
 Project Manager





Hoexter Consulting Eng'g Geo 734 Torrey Court Palo Alto, CA 94303 Attention: David F. Hoexter	Client Proj. ID: E-10-1A-163A/1970 Seminary Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511273-03	Sampled: 11/01/95 Received: 11/01/95 Analyzed: 11/07/95 Reported: 11/15/95
--	---	---

QC Batch Number: 5G110795BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	1100
Benzene	0.50	4.4
Toluene	0.50	N.D.
Ethyl Benzene	0.50	27
Xylenes (Total)	0.50	22
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	126

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Hoexter Consulting Engrg. Geol.
734 Torrey Court
Palo Alto, CA 94303
Attention: David F. Hoexter

Client Project ID: E-10-1A-163A/1970 Seminary
Matrix: Liquid

Work Order #: 9511273 -01-03

Reported: Nov 15, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Recoverable Petroleum Hydrocarb.
QC Batch#:	GC110795BTEX03A	GC110795BTEX03A	GC110795BTEX03A	GC110795BTEX03A	OP1110955520EXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	SM 5520 BF-MOD
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	SPE
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo	C. Garde
MS/MSD #:	9510L3207	9510L3207	9510L3207	9510L3207	BLK111095
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/7/95	11/7/95	11/7/95	11/7/95	11/10/95
Analyzed Date:	11/7/95	11/7/95	11/7/95	11/7/95	11/10/95
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	Manual
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	10 mg/L
Result:	9.7	9.7	9.6	29	7.4
MS % Recovery:	97	97	96	97	74
Dup. Result:	11	11	11	32	7.6
MSD % Recov.:	110	110	110	107	76
RPD:	13	13	14	9.8	2.7
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK102795	BLK102795	BLK102795	BLK102795	-
Prepared Date:	11/7/95	11/7/95	11/7/95	11/7/95	-
Analyzed Date:	11/7/95	11/7/95	11/7/95	11/7/95	-
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	-
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	-
LCS Result:	10	10	10	31	-
LCS % Recov.:	100	100	100	103	-

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	70-110
---------------------------	--------	--------	--------	--------	--------

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

Peggy Fenner
Peggy Fenner
Project Manager

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

9511273.HHH <1>



CHAIN-OF-CUSTODY RECORD

Project Number E-10-1A-163A		Project Name 1970 Seminary, Oakland				Number/Type of Containers	Analytical Tests TPH-G/BTEX* TRPH 5M 550 BIC*	Remarks
Sampler's Name (printed) J. Forsythe								
9511273								
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number		
MW-1	11/1/95	15:35		↓		01	3-40ml X 1-100ml X	
MW-2		14:55		↓		02	3-40ml X 1-100ml X	
MW-3		14:30		↓		03	3-40ml X 1-100ml X	

Relinquished by: (Signature) <i>J. Forsythe</i>	Date/Time 11/1/95 17:00	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time 11-1-95 17:00	Received for Laboratory by: (Signature) <i>Tony McMahon</i>

Ship To: Sagoria Analytical
1680 Chase Avenue Dr
Redwood City CA

Attention: receiving
 Phone No: 415-364-9600

Requested Turnaround Time: normal Contact: David F. Hoexter Phone: 415-494-2505

Remarks: * Analyze per RWQCB LUFT Guidelines

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