

Alameda County

AUG 27 2003

Environmental Health

August 22, 2003

20413

Mr. Amir Gholami
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Property on 1970 Seminary Ave, Oakland CA

Dear Mr. Gholami:

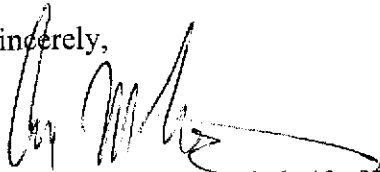
Enclosed please find a copy of the July 2003 Ground Water Sampling Report dated August 17, 2003, prepared by Hoexter Consulting, Inc.

As you are already aware, the latest Workplan for the property, prepared by Erler & Kalinowski, Inc. (EKI), dated 19 August 2002, which was approved by your predecessor, Eva Chu, has been delayed due to legal proceedings with the existing tenant on the property. Implementation of EKI's Workplan required that the existing tenant be removed from the property and that the existing buildings be demolished. The financial impact on my great grandfather would be too great to pursue legal eviction of the tenant solely for the purpose of an extremely aggressive remediation, which the EKI Workplan proposed.

It is for this reason that I respectfully request an extension in order for my current consultant, Hoexter Consulting, Inc., to prepare a revised Workplan for remediation on the property that does not require tenant eviction or demolition of site buildings.

It is anticipated that a revised Workplan can be provided to Alameda County within 60 days of this letter. If this request is acceptable to you, please respond to me in writing. Otherwise, please contact me with any questions or concerns.

Sincerely,



Angel LaMarca, (on behalf of Doyle, E. Gruit)
945 S. Lehigh Dr.
Anaheim Hills, CA 92807
714-282-7475 home
714-493-0121 cell phone, voicemail

encl

Alameda County

AUG 27 2003

Environmental Health

**JULY 2003
GROUND WATER SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA**

August 17, 2003

Prepared by

HOEXTER CONSULTING, INC.

734 Torrey Court

Palo Alto, California 94303-4160

650-494-2505 (ph) (650) 494-2515 (fax)

Alameda County

Geology / Engineering Geology / Environmental Studies

AUG 27 2003

HOEXTER CONSULTING, INC.
David F. Hoexter, RG-3536/CEG-1158/REA1-762

Environmental Health

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650-494-2505 (ph) (650) 494-2515 (fax)

August 17, 2003

E-10-1E-391E
HCQuartEnvrRpts:Sem.1970/19(7/03)

Mr. Doyle Gritmit
c/o Angel La Marca
945 S. Lehigh St.
Anaheim Hills, California 92807

RE: **JULY, 2003**
GROUND WATER SAMPLING REPORT
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

Dear Mr. Gritmit:

Enclosed is our July, 2003 ground water sampling report for the property located at 1970 Seminary Avenue, corner of Harmon Avenue, in Oakland, California. Sampling at the site dates from August, 1990. The results of previous sampling events are included in the analytical results summary tables.

The results of this investigation indicate that the water samples from the nine wells continue to range from relatively low to elevated levels of total petroleum hydrocarbons as gasoline (TPH-G); purgeable aromatic compounds (BTEX) and MTBE; oil (total recoverable petroleum hydrocarbons, TRPH); and halogenated volatile compounds (HVOC). The analyses indicate that all analyzed compounds remain at levels of the same order-of-magnitude as previous results, with an overall although highly variable average decrease in petroleum hydrocarbon contaminant concentrations and variably increases and decreases in HVOC concentrations since initiation of sampling.

Ground water elevations declined from the previous January 2003 sampling event. Ground water gradient directions, which differ between the "shallow" and "deep" wells, were consistent with previous sampling events.

We recommend that copies of the enclosed report be submitted to the Alameda County Health Care Services Agency. The next round of sampling is currently scheduled to be conducted during January, 2004. We understand that a corrective action work plan to conduct site remediation is currently being prepared by others.

JULY 2003
GROUND WATER SAMPLING REPORT

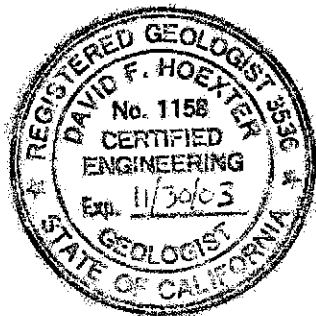
For

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

To

Mr. Doyle Gritit
c/o Angel La Marca
945 S. Lehigh St.
Anaheim Hills, California 92807

August 17, 2003



David F. Hoexter

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

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**JULY 2003
GROUND WATER SAMPLING REPORT
FOR
STID 553 - GRIMIT AUTO AND REPAIR
1970 SEMINARY
OAKLAND, CALIFORNIA**

1.0 INTRODUCTION

This report presents the results of the July 2003 ground water sampling at 1970 Seminary Avenue, Oakland, California. The project location is shown on the Location Map, Figure 1. The scope of services provided during this investigation consisted primarily of collecting and analyzing ground water samples from each of the nine monitoring wells installed at the site. Ground water samples were analyzed for petroleum hydrocarbons and halogenated volatile organic compounds. Well and other previous sampling locations are shown on Figure 2, Site Plan.

2.0 FIELD INVESTIGATION

The ground water monitoring wells were sampled by representatives of Hoexter Consulting, Inc. Due to past, very slow equilibration of ground water levels, the well caps were loosened on July 24, 2003 (approximately six days prior to the planned water level measurement, purging and sampling). The wells were then secured with the caps sufficiently loose to allow venting, and left to equilibrate until they were sampled. The wells were purged and sampled following water level measurements on July 30, 2003.

As noted, the well caps were loosened prior to the water level measurement, to allow the water level in the wells to equilibrate. Following ground water level measurement (Table 1) at the time of purging, each well was checked for free-product with the bailer, and then three to four well-casing volumes of water were purged from the well. A dedicated polyethylene bailer was employed for each well. Ground water parameters, including temperature, pH and specific conductivity, were measured prior to and following each purge volume removal.

The samples were collected using the dedicated 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 "Alconox" 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 A.

Prior to purging, ground water levels were measured in each well using the top of 2-inch PVC casing (generally the north side) as reference point. The average ground water elevation declined in all wells compared to the prior (January 2003) sampling event. The "deeper" wells averaged an elevation decrease of 3.78 feet, with each of the five wells declining in elevation; the "shallow" wells declined an average of 2.62 feet, with all four measured wells declining in elevation.

Well-top elevations, depth to water, and calculated water-surface elevations are presented in Table 1. These data have been used to generate the Ground Water Contour and Gradient Direction Maps, Figures 3A ("shallow wells") and 3B ("deep wells").

Table 1B summarizes the ground water gradient direction and inclination data for the site, including previous measurements. The ground water gradient direction and inclination are essentially consistent with the previous data. The data for the four "shallow" wells indicate a gradient direction towards Seminary Avenue. The apparent gradient varies across the site, but averages 0.23 foot per foot in the source area. The approximate gradient direction is N 62° W. The data for the five "deeper" wells indicate an opposing gradient direction away from Seminary Avenue towards the east and southeast. The apparent gradient varies across the site, but averages 0.10 foot per foot near the source area. The approximate gradient direction is S 66° E.

The data appear to indicate a downward gradient from a relatively shallow (perched ?) zone represented by the "shallow" wells to the deeper zone represented by the "deeper" wells, particularly in the source area. Based on the slow equilibration and recovery time following purging, we infer a relatively slow ground water flow rate, despite the unusually steep gradient.

3.0 ANALYTICAL RESULTS

3.1 Laboratory Procedures

The ground water samples were analyzed by McCampbell Analytical, Inc. of Pacheco, California. McCampbell Analytical is certified by the State of California EPA/DTSC for the conducted analyses. The samples were analyzed as follows:

- Total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015.
- Purgeable aromatic compounds (BTEX) and MTBE using EPA Method 8020.
- Oil and grease (total recoverable petroleum, TRPH) using SM 5520B/F, gravimetric with cleanup.
- Halogenated volatile organic compounds (HVOC) by EPA Method 8010.

3.2 Observations and Analytical Results

Approximately 1/4 inch of free-phase product (visually appearing as oil) was observed in well MW-1 following the initial sounding. This occurrence is typical of MW-1. Wells MW-4, -5 and -8 exhibited visual sheen following the initial purge volume. A sheen is common for well MW-4, although less common for MW-5 and -8. Several wells dewatered (i.e. contained less than 3 feet of standing water) prior to completion of a complete four-volume purge. These wells included MW-3, 5, 6, 7, and -9. Wells 3, 4, and 9 dewatered during the previous, January 2003 sampling event. In most cases, these wells recovered to near 80 per cent of initial water level prior to being sampled. Exceptions were wells MW-3 and MW-9, which had recovered to 37 and 52 percent, respectively, prior to the necessity of sampling.

The results of the chemical analyses are summarized on Tables 2 through 6 and are attached to this report as a part of Appendix A. Analytical results of all previous testing are also included in the tables. The results in Tables 4 and 5 are of parameters not currently tested for; the results in Table 6 are from a one-time sampling event during February, 2002. The current analytical results indicate that TRPH, TPH-G, and BTEX compounds, as well as HVOCs, are present at elevated levels which are generally on the same order of magnitude as the most recent, previous analyses.

TPH-G and BTEX levels generally decreased, continuing the generally downward trend over the life of the wells. Detected levels in wells MW-2 through 9, as during previous sampling events, are generally one to two orders of magnitude less than in MW-1. Oil/grease were detected in well MW-1 only. Various HVOCs were detected in each well, with the exception of wells MW-1, -3 and -9. The detection limits in MW-1, however, were elevated to 20 ppb, and thus HVOC may be present in this well (as during previous sampling events), at lesser concentrations than 20 ppb. HVOC variously declined and increased in the remaining six wells. Most notable was an increase in vinyl chloride, from 84 ppb to a concentration of 290 ppb.

4.0 CONCLUSIONS AND RECOMMENDATIONS

All nine wells were available for sampling.

Overall contaminant levels remain elevated, with moderate average decreases of TPH-G and BTEX from the previous sampling event. Concentrations of the HVOC compounds varied, with wells exhibiting both decreases and increases in concentrations of various individual compounds. Over the life of the wells, concentrations of petroleum hydrocarbon compounds have declined. Concentrations of HVOCs have variably increased and declined.

The Alameda County Health Care Services Agency previously concurred with our recommendation that a corrective action plan (CAP) be prepared to address the site conditions. We understand that a CAP is currently being prepared by others.

5.0 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. It should be recognized that certain limitations are inherent in the evaluation of subsurface conditions, and that certain conditions may not be detected during an investigation of this type. If you wish to reduce the level of uncertainty associated with this study, we should be contacted for additional consultation.

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 1A
GROUND WATER ELEVATION DATA
 (All Measurements in Feet)

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
MW-1 ("deep")			
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 (3)
2/28/94		13.85 (4)	23.15 (4)
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
3/8/96		11.82	25.18
3/25-26/96	36.97	13.54	23.43
10/7/96		21.41	15.59
1/15/97		13.34	23.63
6/23/97	36.99	19.91	17.08
10/6/97		21.55	15.44
12/12/98		16.24	20.75
4/24/99		14.21	22.78
12/18/99		19.28	17.71
7/22/00		21.93	15.93
1/29/01		19.49	17.50
7/28/01		19.84	17.15
2/3/02		16.03	20.96
7/23/02		20.45	16.54
1/20/03		15.08	21.91
7/30/03		19.06	17.93
MW-2 ("deep")			
2/11/94	36.40	14.16 (3)	22.24 (3)
2/28/94		16.01 (4)	20.39 (4)
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
3/8/96		14.56 (6)	21.84 (6)
3/25-26/96	36.39	10.84	25.55
10/7/96		18.41	17.98
1/15/97		10.07	26.32
6/23/97	36.40	13.73	22.67
10/6/97		17.03	19.37
12/12/98		11.39	25.01
4/24/99		10.45	25.95

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
MW-2 ("deep") cont'			
12/18/99		13.22	23.18
7/22/00		13.73	22.67
1/29/01		12.25	24.15
7/28/01		16.73 (6)	19.67 (6)
2/3/02		11.40	25.00
7/23/02		13.42	22.98
1/20/03		10.49	25.91
7/30/03		13.47	22.93
MW-3 ("shallow")			
2/11/94	36.94	6.97 (3)	29.97 (3)
2/28/94		7.74 (4)	29.20 (4)
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
3/8/96		5.69	31.25
3/25-26/96	36.94	6.91	30.03
10/7/96		9.51	27.43
1/15/97		6.23	30.71
6/23/97	36.94	9.65	27.29
10/6/97		10.53	26.41
12/12/98		7.12	29.82
4/24/99		7.17	29.77
12/18/99		8.51	28.43
7/22/00		9.41	27.53
1/29/01		7.23	29.71
7/28/01		8.63	28.31
2/3/02		7.99	28.95
7/23/02		10.17	26.77
1/20/03		6.76	30.18
7/30/03		10.13	26.81
MW-4 ("deep")			
3/25-26/96	36.46	14.14	22.32
10/7/96		22.31	14.15
1/15/97		13.78	22.68
6/23/97	36.47	20.90	15.57
10/6/97		22.77	13.60
12/12/98		17.16	19.31
4/24/99		14.55	21.92
12/18/99		20.46	16.01
7/22/00		20.67	15.80
1/29/01		18.06	18.41
7/28/01		20.80	15.67
2/3/02		15.53	20.94

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
MW-4 ("deep") cont'			
7/23/02		20.26	16.21
1/20/03		15.26	21.21
7/30/03		20.23	16.24
MW-5 ("deep")			
10/7/96		22.86	13.91
1/15/97		17.33	19.44
6/23/97	36.77	21.91	14.86
10/6/97		24.26	12.51
12/12/98		20.66	16.11
4/24/99		17.19	19.58
12/18/99		22.71	14.06
7/22/00		21.42	15.35
1/29/01		20.79	15.98
7/28/01		21.07	15.70
2/3/02		17.67	19.10
7/23/02		20.16	16.61
1/20/03		17.21	19.56
7/30/03		20.32	16.45
MW-6 ("shallow")			
3/25-26/96	36.42	8.52	27.90
10/7/96		12.82	23.60
1/15/97		7.72	28.70
6/23/97	36.42	11.42	25.00
10/6/97		12.67	23.75
12/12/98		9.15	27.27
4/24/99		8.56	27.86
12/18/99		10.53	25.89
7/22/00		11.50	24.92
1/29/01		9.34	27.08
7/28/01		N/A	N/A
2/3/02		9.32	27.10
7/23/02		11.33	25.09
1/20/03		8.49	27.93
7/30/03		11.35	25.07
MW-7 ("deep")			
6/23/97	36.83	19.93	16.90
10/6/97		21.43	15.40
12/12/98		16.56	20.27
4/24/99		14.48	22.35
12/18/99		19.40	17.43
7/22/00		19.85	16.98
1/29/01		17.59	19.24

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
MW-7 ("deep") cont'			
7/28/01		20.05	16.78
2/3/02		15.89	20.94
7/23/02		19.57	17.26
1/20/03		15.36	21.47
7/30/03		19.21	17.62
MW-8 ("shallow")			
6/23/97	36.55	5.74	30.81
10/6/97		5.69	30.86
12/12/98		4.01	32.54
4/24/99		4.40	32.15
12/18/99		4.91	31.64
7/22/00		5.47	31.08
1/29/01		3.01	33.54
7/28/01		4.92	31.63
2/3/02		3.82	32.73
7/23/02		5.11	31.44
1/20/03		3.57	32.98
7/30/03		5.23	31.32
MW-9 ("shallow")			
6/23/97	36.70	17.04	19.66
10/6/97		19.17	20.53
12/12/98		14.18	22.52
4/24/99		12.33	24.37
12/18/99		16.14	20.56
7/22/00		15.78	20.92
1/29/01		14.65	22.05
7/28/01		15.33	21.37
2/3/02		12.59	24.11
7/23/02		15.27	21.43
1/20/03		12.27	24.43
7/30/03		14.85	21.85

Notes to Table 1A

- (1) N/A = not applicable.
- (2) Elevations from a survey conducted by Andreas Deak, California Licensed Land Surveyor, March 21, 1996, 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 appear to be stabilized readings.
- (5) Surveyed elevations of wells MW 1 and MW-2 varied to 0.02 foot on March 21, 1996 survey as compared to February 11, 1994 survey; previously calculated measurements of elevation have not been modified to reflect the new survey data. Similar slight survey differences on June 20, 1997 have not been corrected.
- (6) Well not stabilized (water level rising).

TABLE 1B
SUMMARY OF GROUND WATER GRADIENT INFORMATION

Date	Shallow Wells		Deep Wells	
	Direction	Inclination	Direction	Inclination
8/6/90	N/A	N/A	N/A	N/A
1/28/92	N/A	N/A	N/A	N/A
4/27/92	N/A	N/A	N/A	N/A
8/10/92	N/A	N/A	N/A	N/A
2/11/94	N/A	N/A	N/A	N/A
2/28/94	N/A	N/A	N/A	N/A
9/9/94	N/A	N/A	N/A	N/A
12/28/94	N/A	N/A	N/A	N/A
4/13/95	N/A	N/A	N/A	N/A
11/1/95	N/A	N/A	N/A	N/A
3/8/96	N/A	N/A	N/A	N/A
3/25-26/96 (2)	N/A	N/A	N/A	0.01
10/7/96 (2)	N/A	N/A	N/A	0.02
1/15/97 (2)	N/A	N/A	S 33 E	0.13
6/23/97 (3)	N 44 W	0.24	S 68 E	0.07
10/6/97 (3)	N 47 W	0.29	S 55 E	0.11
12/12/98 (3)	N 33 W	0.32	S 47 E	0.05
4/24/99 (3)	N 59 W	0.17	S 44 E	0.07
12/18/99 (3)	N 55 W	0.26	S 44 E	0.07
7/22/00 (3)	N 56 W	0.24	S 65 E	0.19
1/29/01 (3)	N 47 W	0.30	S 65 E	0.20
7/28/01 (3)	N 51 W	0.24	S 65 E	0.05
2/3/02 (3)	N 50 W	0.23	S 65 E	0.05
7/23/02 (3)	N 51 W	0.24	S 85 E	0.11
1/20/03 (3)	N 50 W	0.22	S 50 E	0.19
7/30/03 (3)	N 62 W	0.23	S 66 E	0.10

Notes to Table 1B

- (1) N/A = not applicable.
- (2) Six wells.
- (3) Nine wells.

TABLE 2

GROUND WATER

SUMMARY OF ANALYTICAL TEST RESULTS -
PETROLEUM HYDROCARBONS

(Results reported in parts per billion, ppb/ug/l) (1)

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-1 ("deep")							
8/6/90 (2)	54,000	NA	3,500	3,200	1,900	9,400	7,600
1/28/92	2,000,000	NA	7,400	17,000	28,000	120,000	7,500 (5)
4/27/92 (3)	500,000	NA	3,400	6,400	10,000	45,000	440,000 (6)
4/27/92 (4)	175,000	NA	4,200	4,400	3,200	14,600	N/A
8/10/92	170,000	NA	4,200	4,200	3,300	15,900	120,000 (6)
2/11/94	1,800,000	NA	ND	5,100	5,200	23,900	16,000 (6)
9/9/94	23,000,000	NA	56,000	61,000	9,100	137,000	880,000 (6)
12/28/94	55,000	NA	3,700	5,300	1,400	5,800	83,000 (6)
4/13/95	45,000	NA	2,800	3,400	1,200	5,100	50,000 (5)
11/1/95	44,000	NA	2,600	3,400	1,400	5,900	52,000 (5)
3/25/96	45,000	NA	3,000	4,100	1,600	6,800	46,000 (5) (7)
10/8/96	55,000	490	3,300	4,500	1,700	7,100	11,000 (5) (7)
1/16/97	48,000	310	2,600	3,200	1,300	5,300	110,000 (5) (7)
6/23/97	40,000	ND<100	2,300	3,500	1,500	6,300	190,000 (5) (7)
10/7/97	45,000	ND<680	2,500	3,600	1,700	6,800	150,000 (5) (7)
12/12/98	39,000	ND<1,500	3,000	100	1,400	5,800	67,000 (5) (7)
4/24/99	33,000	ND<200	2,300	3,300	1,100	4,100	140,000 (5) (7)
4/24/99 (8)	41,000	1,100	2,500	3,700	1,500	5,700	N/A
12/18/99	43,000	ND<200	2,600	3,800	1,400	5,800	110,000 (5) (7)
7/22/00	37,000	ND<200	2,200	2,600	1,300	5,200	320,000 (5) (7)
1/29/01	36,000	ND<200	2,100	2,300	1,200	4,500	76,000 (5) (7)
7/28/01	99,000	ND<250	1,500	2,300	1,700	6,600	86,000 (5) (7)
2/3/02	42,000	ND<500	1,200	1,300	1,100	3,900	42,000 (5) (7)
7/23/02	53,000	ND<1000	1,700	2,800	1,500	5,100	170,000 (5) (7)
1/20/03	33,000	ND<2000	2,100	2,500	1,300	4,400	65,000 (5) (7)
7/30/03	24,000	ND<500	1,300	1,500	760	2,700	55,000 (5)
MW-2 ("deep")							
2/11/94	130	NA	22	1.1	5.2	7.3	ND (6)
9/9/94	1,000	NA	89	ND	ND	6.9	ND (6)
12/28/94	330	NA	100	3.8	5.4	4.7	5100 (6)
4/13/95	1,300	NA	280	6.9	33	23	ND (5)
11/1/95	100	NA	9.9	ND	ND	ND	ND (5)
3/25/96	4,500	NA	470	57	220	280	ND (5) (7)
10/8/96	710	41	1.9	0.54	1.0	1.0	ND (5) (7)
1/16/97	330	12	41	2.4	1.3	9.9	ND (5) (7)
6/23/97	280	10	12	0.69	ND	13	NA (7)
10/7/97	320	ND<35	4.5	ND	ND	ND	NA (7)
12/12/98	290	ND<11	21	0.76	10	19	ND (5) (7)
4/24/99	360	21	36	1.3	9.2	19	ND<5000 (5) (7)
12/18/99	210	ND<200	13	ND	2.9	7.7	ND<5000 (5) (7)
7/22/00	180	ND<5	10	ND	4.5	6.0	ND<5000 (5) (7)
1/29/01	130	ND<5	16	ND	1.9	3.8	ND<5000 (5) (7)
7/28/01	ND<50	ND<5	2.7	ND	0.64	0.69	ND<5000 (5) (7)
2/3/02	140	ND<5	5.5	ND	9.0	12	ND<5000 (5) (7)
7/23/02	780	ND<15	52	2.0	44	6.2	ND<5000 (5) (7)
1/20/03	1,900	ND<50	120	10	120	94	ND<5000 (5) (7)
7/30/03	710	ND<20	43	1.8	24	5.9	ND<5000 (5) (7)

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-3 ("shallow")							
2/11/94	ND	NA	ND	ND	ND	ND	ND (6)
9/9/94	710	NA	10	ND	ND	3.5	ND (6)
12/28/94	2,300	NA	7.8	ND	130	73	ND (6)
4/13/95	1,700	NA	2.9	ND	61	24	ND (5)
11/1/95	1,100	NA	4.4	ND	27	22	ND (5)
3/25/96	2,300	NA	4.0	0.96	120	65	ND (5) (7)
10/8/96	160	ND	ND	0.5	1.2	0.77	ND (5) (7)
1/16/97	1,800	7.1	2.8	0.68	48	66	ND<5000 (5) (7)
6/23/97	ND	ND	ND	ND	ND	ND	NA (7)
10/7/97	ND	ND	ND	ND	ND	ND	NA (7)
12/12/98	1,900	ND	1.8	0.78	78	42	ND (5) (7)
4/24/99	2,100	ND	1.5	0.85	79	43	ND<5000 (5) (7)
12/18/99	330	ND	0.51	ND	ND	ND	ND<5000 (5) (7)
7/22/00	230	ND	0.89	2.4	ND	ND	ND<5000 (5) (7)
1/29/01	450	ND<5	1.1	1.6	11	3.6	ND<5000 (5)
7/28/01	ND<50	ND<5	ND<0.5	ND	ND	ND	ND<5000 (5)
2/3/02	98	ND<5	ND<0.5	ND	ND	ND	ND<5000 (5)
7/23/02	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
1/20/03	700	ND<5.0	1.6	0.56	41	21	ND<5000 (5)
7/30/03	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
MW-4 ("deep")							
3/26/96	9,900	NA	4,000	40	71	100	ND (5) (7)
10/8/96	7,800	140	3,900	33	31	40	ND (5) (7)
1/16/97	4,800	84	1,900	21	2.5	27	5,200 (5) (7)
6/23/97	6,200	160	2,800	20	20	23	ND (5) (7)
10/7/97	4,400	85	1,800	14	18	14	ND (5) (7)
12/12/98	3,500	110	1,500	13	39	14	ND (5) (7)
4/24/99	3,100	ND<10	1,700	22	67	21	7,500 (5) (7)
12/18/99	2,600	33	1,000	12	32	10	ND<5000 (5) (7)
7/22/00	2,700	60	940	14	31	12	7,000 (5) (7)
1/29/01	2,500	ND<5	980	11	35	5	ND<5000 (5) (7)
7/28/01	1,100	27	250	6.3	19	4.8	90,000 (5) (7)
2/3/02	2,100	ND<25	890	23	41	20	7,400 (5) (7)
7/23/02	1,200	ND<17	490	11	22	8.8	ND<5000 (5) (7)
1/20/03	1,900	ND<80	740	11	32	12	ND<5000 (5) (7)
7/30/03	1,700	ND<150	440	8.9	18	6.1	ND<5000 (5) (7)
MW-5 ("deep")							
3/26/96	1,200	NA	43	8.2	83	95	ND (5) (7)
10/8/96	6,700	190	260	92	410	370	ND (5) (7)
1/16/97	3,000	90	150	68	190	180	ND (5) (7)
6/23/97	12,000	150	410	170	920	800	NA (7)
10/7/97	10,000	ND<480	310	62	530	500	NA (7)
12/12/98	11,000	ND<660	400	120	740	480	ND (5) (7)
4/24/99	9,300	ND<100	390	290	820	770	ND<5000 (5) (7)
12/18/99	7,000	ND<100	250	52	500	300	ND<5000 (5) (7)
7/22/00	14,000	ND<100	290	140	770	630	12,000 (5) (7)
1/29/01	8,200	ND<5	180	42	420	250	11,000 (5) (7)
7/28/01	9,100	ND<70	190	67	540	430	ND<5000 (5) (7)
2/3/02	11,000	ND<100	250	160	730	540	ND<5000 (5)
7/23/02	6,400	ND<110	160	67	540	390	ND<5000 (5)
1/20/03	7,300	ND<170	190	80	480	310	ND<5000 (5) (7)
7/30/03	8,700	ND<300	170	35	470	300	ND<5000 (5) (7)
MW-6 ("shallow")							
3/26/96	9,900	NA	1,000	150	470	720	ND (5) (7)
10/8/96	1,300	57	120	2.3	1.4	4.0	ND (5) (7)
1/15/97	6,500	220	570	65	170	630	ND (5) (7)
6/23/97	3,100	100	410	16	110	140	NA (7)
10/7/97	960	ND<74	78	3.4	1.8	5.8	NA (7)
12/12/98	2,500	ND<160	230	10	92	110	ND (5) (7)
4/24/99	2,900	ND<10	430	33	160	200	ND<5000 (5) (7)

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
MW-6 ("shallow") (continued)							
12/18/99	2,300	ND<200	170	6.6	56	63	ND<5000 (5) (7)
7/22/00	2,200	ND<10	290	9.6	80	43	ND<5000 (5) (7)
1/29/01	2,500	ND<10	220	11	150	230	ND<5000 (5) (7)
7/28/01	NA	NA	NA	NA	NA	NA	NA
2/3/02	2,500	ND<50	290	18	88	330	ND<5000 (5) (7)
7/23/02	1,100	ND<20	160	6.5	54	35	ND<5000 (5) (7)
1/20/03	3,800	ND<80	370	33	220	300	ND<5000 (5) (7)
7/30/03	2,000	ND<70	250	4.8	50	24	ND<5000 (5) (7)
MW-7 (deep")							
6/23/97	8,700	ND<20	950	260	520	380	ND (5) (7)
10/7/97	7,500	ND<310	1,100	86	280	150	ND (5) (7)
12/12/98	5,000	ND<190	640	43	200	55	ND (5) (7)
4/24/99	5,500	ND<10	640	180	290	210	ND<5000 (5) (7)
12/18/99	5,500	ND<10	570	27	91	31	ND<5000 (5) (7)
7/22/00	7,400	ND<80	620	180	240	180	10,000 (5) (7)
1/29/01	4,000	ND<10	410	21	22	21	7,000 (5) (7)
7/28/01	4,200	ND<70	540	120	110	110	ND<5000 (5) (7)
2/3/02	6,300	ND<25	560	110	190	140	ND<5000 (5) (7)
7/23/02	3,400	ND<50	440	6.3	87	61	ND<5000 (5) (7)
1/20/03	4,500	ND<170	380	32	30	36	ND<5000 (5) (7)
7/30/03	5,300	ND<400	460	34	43	52	ND<5000 (5) (7)
MW-8 ("shallow")							
6/23/97	610	5.9	25	1.4	4.3	2.4	ND (5) (7)
10/7/97	120	ND	6.9	ND	ND	ND	ND (5) (7)
12/12/98	ND	ND	ND	ND	ND	ND	ND (5) (7)
4/24/99	ND	ND	ND	ND	ND	ND	ND<5000 (5) (7)
12/18/99	ND	ND	ND	ND	ND	ND	ND<5000 (5) (7)
7/22/00	ND	ND	ND	ND	ND	ND	ND<5000 (5) (7)
1/29/01	ND	ND<5	0.87	ND	ND	ND	ND<5000 (5) (7)
7/28/01	ND	ND<5	ND	ND	ND	ND	ND<5000 (5) (7)
2/3/02	ND	16	ND	ND	ND	ND	ND<5000 (5) (7)
7/23/02	ND<50	ND<5	0.87	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
1/20/03	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/30/03	ND<50	ND<5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
MW-9 ("shallow")							
6/23/97	32,000	250	340	280	1,500	4,300	ND (5) (7)
10/7/97	33,000	ND<690	880	350	1,900	4,700	ND (5) (7)
12/12/98	3,400	ND<78	160	14	220	210	ND (5) (7)
4/24/99	3,100	22	130	18	220	190	ND (5) (7)
12/18/99	7,500	100	220	44	440	650	ND<5000 (5) (7)
7/22/00	4,900	ND<10	93	15	240	250	71,000 (5) (7)
1/29/01	3,800	ND<10	160	35	260	310	5,000
7/28/01	5,700	ND<20	43	27	210	420	ND<5000 (5) (7)
2/3/02	7,800	ND<50	98	51	450	640	ND<5000 (5) (7)
7/23/02	2,300	ND<50	29	14	120	96	ND<5000 (5) (7)
1/20/03	5,000	ND<80	76	25	350	340	ND<5000 (5)
7/30/03	570	ND<5	7.2	1.2	14	4.8	ND<5000 (5) (7)
EB-4 ("grab" gw sample)							
3/8/96	15,000	NA	780	840	1,300	590	7,500 (5) (7)
MCL	NA	13/5 (9)	1	150	700	1,750	NA

Notes on following page

Notes to Table 2

- (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
- (7) HVOC detected: see Table 3
- (8) Free-phase product observed in bailer (additional sample)
- (9) Primary and secondary MCL, respectively.

Well and Date	CA	1,2 DCB	1,2 DCA	cls 1,2 DCE	trns 1,2 DCE	1,2 DCP	PCE	TCE	VCL
MW-4 ("deep")									
3/26/96	ND<8	22	ND<8	300	9.2	ND<8	38	150	44
10/8/96	ND<15	22	4.9	320	ND<15	ND<15	52	130	60
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97 (5)	3.6	21	5.3	340	10	ND<3	11	110	83
10/7/97	ND<8	20	ND<8	380	9.9	ND<8	ND<12	56	56
12/12/98 (7)	ND<3.5	18	ND<3.5	150	12	ND<8	ND<4.5	12	57
4/24/99	ND<8.5	20	ND<8.5	390	12	ND<8.5	33	240	43
12/18/99	ND<10.0	27	ND<10.0	390	13	ND<10.0	ND<10.0	39	ND<10.0
7/22/00	ND<10.0	38	ND<10.0	620	ND<10.0	ND<10.0	ND<10.0	19	97
1/29/01	ND<5.0	35	ND<5.0	380	15	ND<5.0	ND<5.0	19	97
7/28/01	ND<7.5	29	ND<5.0	310	18	ND<5.0	ND<5.0	8.4	150
2/3/02 (13)	ND<7.0	22	ND<7.0	310	16	ND<7.0	ND<7.0	20	120
7/23/02	ND<0.5	30	ND<0.5	240	17	ND<0.5	ND<0.5	ND<0.5	230
1/20/03	ND<10.0	28	ND<10.0	200	16	ND<10.0	ND<10.0	69	84
7/30/03	ND<10.0	32	ND<10.0	230	13	ND<10.0	ND<10.0	13	290

MW-5 ("deep")									
3/26/96	1.4	ND<0.5	2.1	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10
10/8/96	ND<2.5	ND<2.5	4.9	4.4	ND<2.5	ND<2.5	ND<2.5	ND<2.5	9.4
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97 (5)	2.0	2.1	2.0	7.2	0.71	ND<0.5	ND<0.5	ND<0.5	13
10/7/97	1.9	1.4	2.8	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10
12/12/98	1.4	2.0	1.1	3.7	ND<1	ND<1	ND<1.5	ND<1	5.8
4/24/99	ND<1	1.9	1.9	4.8	ND<1	ND<1	ND<1	ND<1	6.3
12/18/99	1.6	1.7	1.8	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.9
7/22/00	1.8	2.4	1.4	2.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.0
1/29/01	ND<1.0	2.2	2.6	2.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.2
7/28/01	1.4	1.3	1.7	1.4	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.6
2/3/02 (13)	1.8	2.0	2.1	3.9	0.95	ND<0.5	ND<0.5	ND<0.5	4.6
7/23/02	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
1/20/03	ND<1.0	1.4	1.4	1.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.3
7/30/03	ND<1.0	1.2	1.1	1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.0

MW-6 ("shallow")									
3/26/96	ND<0.5	ND<0.5	3.9	15	ND<0.5	1.9	0.77	2	ND<0.5
10/8/96	ND<0.5	ND<0.5	2.3	9.9	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5
1/16/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/23/97	ND<0.5	ND<0.5	1.6	10	ND<0.5	ND<0.5	ND<0.5	0.63	0.50
10/7/97	ND<0.5	ND<0.5	3.4	7.9	ND<0.5	ND<0.5	ND<0.5	0.82	ND<0.5
12/12/98 (7)	ND<0.5	ND<0.5	1.5	8.4	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5
4/24/99	ND<0.5	ND<0.5	2.3	17	ND<0.5	0.89	ND<1	0.73	0.59
12/18/99	ND<0.5	ND<0.5	2.2	8.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.62
7/22/00	ND<0.5	ND<0.5	1.2	9.3	ND<0.5	ND<0.5	ND<1.0	ND<0.5	0.97
1/29/01	ND<0.5	ND<0.5	1.1	11	ND<0.5	ND<0.5	ND<5.0	ND<0.5	0.77
7/28/01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/3/02	ND<0.5	ND<0.5	1.5	13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
7/23/02	ND<1.0	ND<1.0	ND<1.0	9.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1/20/03	ND<1.0	ND<1.0	1.8	14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
7/30/03	ND<1.0	ND<0.5	1.3	7.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.7

MW-7 ("deep")									
6/23/97	0.93	1.6	ND<0.5	2.4	1.2	ND<0.5	9.8	17	1.5
10/7/97	ND<2	ND<2	ND<2	8.5	2.4	ND<2	38	110	ND<2
12/12/98	ND<2	2.2	ND<2	97	ND<2	ND<2	ND<3.5	ND<2	ND<2
4/24/99	ND<2	2.4	ND<2	31	ND<2	ND<2	9.3	82	ND<2
12/18/99 (9)	ND<3	5.7	ND<3	120	ND<3	ND<3	ND<3	12	ND<3
7/22/00 (10)	ND<5	18	ND<5	170	ND<5	ND<5	ND<5	8	ND<5
1/29/01 (11)	ND<5	18	ND<5	170	ND<5	ND<5	ND<5	8	ND<5
7/28/01 (12)	ND<5	11	ND<5	170	ND<5	ND<5	ND<5	6.9	6.1
2/3/02	ND<5.0	ND<5.0	ND<5.0	94	ND<5.0	ND<5.0	ND<5.0	30	ND<5.0
7/23/02	ND<10.0	12.0	ND<10.0	180	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0
1/20/03	ND<2.5	ND<2.5	ND<2.5	50	ND<2.5	ND<2.5	11	ND<2.5	ND<2.5
7/30/03	ND<2.5	ND<2.5	ND<2.5	130	ND<2.5	ND<2.5	ND<2.5	ND<2.5	9.5

Well and Date	CA	1,2 DCB	1,2 DCA	cis 1,2 DCE	trans 1,2 DCE	1,2 DCP	PCE	TCE	VCL
MW-8 ("shallow")									
6/23/97	ND<1	5.4	ND<1	64	ND<1	ND<1	97	100	ND<1
10/7/97	ND<0.5	1.1	ND<0.5	16	ND<0.5	ND<0.5	30	27	ND<0.5
12/12/98	ND<0.5	ND<0.5	ND<0.5	3.4	ND<0.5	ND<0.5	4.8	4.7	ND<0.5
4/24/99	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	3.4	3.4	ND<0.5
12/18/99	ND<0.5	ND<0.5	ND<0.5	5.3	ND<0.5	ND<0.5	5.9	6.4	ND<0.5
7/22/00	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	2.4	1.6	ND<0.5
1/29/01	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	ND<0.5	ND<5.0	8.8	ND<0.5
7/28/01	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<1.5	2.1	ND<0.5
2/3/02	ND<0.5	ND<0.5	ND<0.5	6.6	ND<0.5	ND<0.5	3.3	4.6	ND<0.5
7/23/02	ND<0.5	ND<0.5	ND<0.5	8.4	ND<0.5	ND<0.5	3.5	5.2	ND<0.5
1/20/03	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	6	6.7	ND<0.5
7/30/03	ND<0.5	ND<0.5	ND<0.5	25	ND<0.5	ND<0.5	15	14	ND<0.5

MW-9 (shallow")

6/23/97 (5)	ND<1	2.1	ND<1	7.4	ND<1	ND<1	3.5	1.4	ND<1
10/7/97 (6)	ND<0.5	1.6	2.1	21	ND<0.5	0.7	ND<2	0.53	2.7
12/12/98	ND<0.5	0.7	0.53	1.9	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5
4/24/99	ND<0.5	0.81	0.52	3.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
12/18/99	ND<0.5	1.1	0.67	3.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.63
7/22/00	ND<1	1.4	ND<1	1.6	ND<1	ND<1	ND<1	ND<1	ND<1
1/29/01	ND<0.5	1.2	0.71	ND<0.5	8.2	ND<0.5	ND<5.0	ND<0.5	0.53
7/28/01	ND<0.5	0.87	ND<0.5	0.92	ND<0.5	ND<0.5	ND<5.0	2.5	ND<0.5
2/3/02	ND<0.5	1.2	ND<0.5	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
7/23/02	ND<2.5	3.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
1/20/03	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
7/30/03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

EB-4 (grab)

3/8/96	ND	ND	ND	42	ND	ND	130	340	ND
MCL	NA	600	0.5	6	10	5	7	5	0.5

Notes to Table 3

(1) ND = non-detect; reporting limit 0.5 ug/l (ppb) unless otherwise stated

(2) N/A = not applicable

(3) Composite

(4) Abbreviations as follows:

CA	Chloroethane	1,2 DCP	1,2 Dichloropropane
1,2 DCB	1,2 Dichlorobenzene	PCE	Tetrachloroethene (perchloroethen
1,2 DCA	1,2 Dichloroethane	TCE	trichloroethene
cis 1,2 DCE	cis 1,2 Dichloroethene	VCL	vinyl chloride
trans 1,2 DCE	trans 1,2 Dichloroethene		

(5) 6/23/97 additional detections:

MW-4: 4.8 ppb 1,4-Dichlorobenzene

MW-5: 0.53 ppb 1,4-Dichlorobenzene

MW-9: 2.1 ppb chloroform (tetrachloromethane)

(6) 10/7/97 additional detections:

MW-9: 0.65 chloroform (tetrachloromethane)

(7) 12/12/98 additional detections:

MW-4: 6.2 ppb 1,3-Dichlorobenzene

MW-4: 4.8 ppb 1,4-Dichlorobenzene

MW-6: 8.9 ppb 1,1,1-Trichloroethane

(8) 4/24/99 additional detections:

MW-1: 1.6 ppb Chloroform

MW-1: 2.5 ppb 1,4-Dichlorobenzene

Notes to Table 3 continued

- (9) 12/18/99 additional detections:
 - MW-1: 1.3 ppb Dibromochloromethane
 - MW-1: 1.2 ppb 1,3-Dichlorobenzene
 - MW-1: 2.2 ppb 1,4-Dichlorobenzene
 - MW-1: 9.9 ppb 1,4-Dichlorobenzene
- (10) 7/22/00 additional detections:
 - MW-1: 5.0 ppb 1,4 Dichlorobenzene
 - MW-7: 6.1 ppb 1,4 Dichlorobenzene
- (11) 1/29/01 additional detections:
 - MW-1: 23.0 ppb 1,3 Dichlorobenzene
 - MW-4: 6.3 ppb 1,3 Dichlorobenzene
 - MW-4: 9.0 ppb 1,4 Dichlorobenzene
- (12) 7/28/01 additional detections:
 - MW-1: 0.60 ppb 2-Chloroethyl Vinyl Ether
 - MW-1: 1.2 ppb 1,3 Dichlorobenzene
 - MW-1: 3.0 ppb 1,4 Dichlorobenzene
 - MW-4: 26 ppb 1,4 Dichlorobenzene
 - MW-7: 5.9 ppb 1,4 Dichlorobenzene
- (13) 2/3/02 additional detections:
 - MW-1: 0.73 ppb 2-Chloroethyl Vinyl Ether
 - MW-1: 1.8 ppb 1,3 Dichlorobenzene
 - MW-1: 3.8 ppb 1,4 Dichlorobenzene
 - MW-4: 9.8 ppb 1,4 Dichlorobenzene
 - MW-5: 0.59 ppb 1,4 Dichlorobenzene
- (14) 7/23/02 additional detections:
 - MW-1: 112 ppb 1,3 Dichlorobenzene
- (15) 1/20/03 additional detections:
 - None
- (16) 7/30/03 additional detections:
 - None

TABLE 4

GROUND WATER

**SUMMARY OF ANALYTICAL TEST RESULTS -
POLYNUCLEAR AROMATIC HYDROCARBONS (PNA, PAH)**

(Results reported in parts per billion, ppb/ug/l) (1) (2) (3)

Well and Date	Phenanthrene	Naphthalene
MW-1 ("deep")		
6/23/97	12	2200
10/7/97	ND<100	810
MCL	N/A	N/A

Notes to Table 4

- (1) ND = non-detect
- (2) N/A = not applicable
- (3) Detected compounds only

TABLE 5

GROUND WATER

**SUMMARY OF ANALYTICAL TEST RESULTS -
ADDITIONAL CHEMICAL PARAMETERS**
(Results reported in parts per million, mg/l) (1)

Well and Date	Dissolved Oxygen	Ferrous Iron	Nitrate	Sulfate
MW-1 ("deep")				
10/8/96	1.5	ND	ND	ND
1/16/97	1.4	3.6	ND	ND
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-2 ("deep")				
10/8/96	3.7	ND	3	25
1/16/97	5.4	0.28	3	25
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-3 ("shallow")				
10/8/96	3.8	ND	ND	5
1/16/97	5.2	ND	ND	5
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-4 ("deep")				
10/8/96	3.0	ND	ND	ND
1/16/97	4.7	0.75	ND	5
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A

Well and Date	Dissolved Oxygen	Ferrous Iron	Nitrate	Sulfate
MW-4 ("deep") continued				
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-5 ("deep")				
10/8/96	2.8	ND	ND	8
1/16/97	3.4	0.38	ND	9
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-6 ("shallow")				
10/8/96	2.7	ND	ND	6
1/16/97	2.7	0.28	ND	8
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-7 ("deep")				
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-8 ("shallow")				
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A

Well and Date	Dissolved Oxygen	Ferrous Iron	Nitrate	Sulfate
MW-8 ("shallow") continued				
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A
MW-9 ("shallow")				
6/23/97	N/A	N/A	N/A	N/A
10/7/97	N/A	N/A	N/A	N/A
12/12/98	N/A	N/A	N/A	N/A
4/24/99	N/A	N/A	N/A	N/A
12/18/99	N/A	N/A	N/A	N/A
7/22/00	N/A	N/A	N/A	N/A
1/29/01	N/A	N/A	N/A	N/A
7/28/01	N/A	N/A	N/A	N/A
2/3/02	N/A	N/A	N/A	N/A
7/23/02	N/A	N/A	N/A	N/A
1/20/03	N/A	N/A	N/A	N/A
7/30/03	N/A	N/A	N/A	N/A

Notes to Table 5

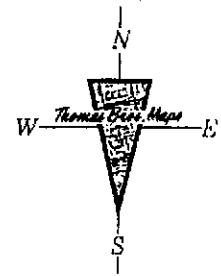
- (1) ND = non-detect
- (2) N/A = not applicable

TABLE 6
GROUND WATER
SUMMARY OF ANALYTICAL TEST RESULTS -
FUEL FINGERPRINT WITH SILICA GEL CLEAN UP

Well and Date	Fuel Fingerprint (2)
MW-1 ("deep")	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles gasoline. Also shows a hydrocarbon pattern between C18 and C30 that resembles oil.
MW-2 ("deep")	
2/3/02	ND < 50 ug/L.
MW-3 ("shallow")	
2/3/02	ND < 50 ug/L.
MW-4 ("deep")	
2/3/02	Significant hydrocarbon pattern between C9 and C12 that resembles stoddard solvent. Also shows a hydrocarbon pattern between C18 and C30 that resembles oil.
MW-5 ("deep")	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
MW-6 ("shallow")	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
MW-7 ("deep")	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
MW-8 ("shallow")	
2/3/02	ND < 50 ug/L.
MW-9 ("shallow")	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.

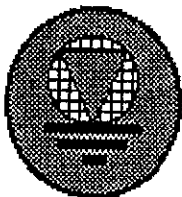
Notes to Table 6

- (1) ND = non-detect
- (2) See laboratory report for chromatograms.



ALAMEDA COUNTY

1991 *Thomas Guide*.

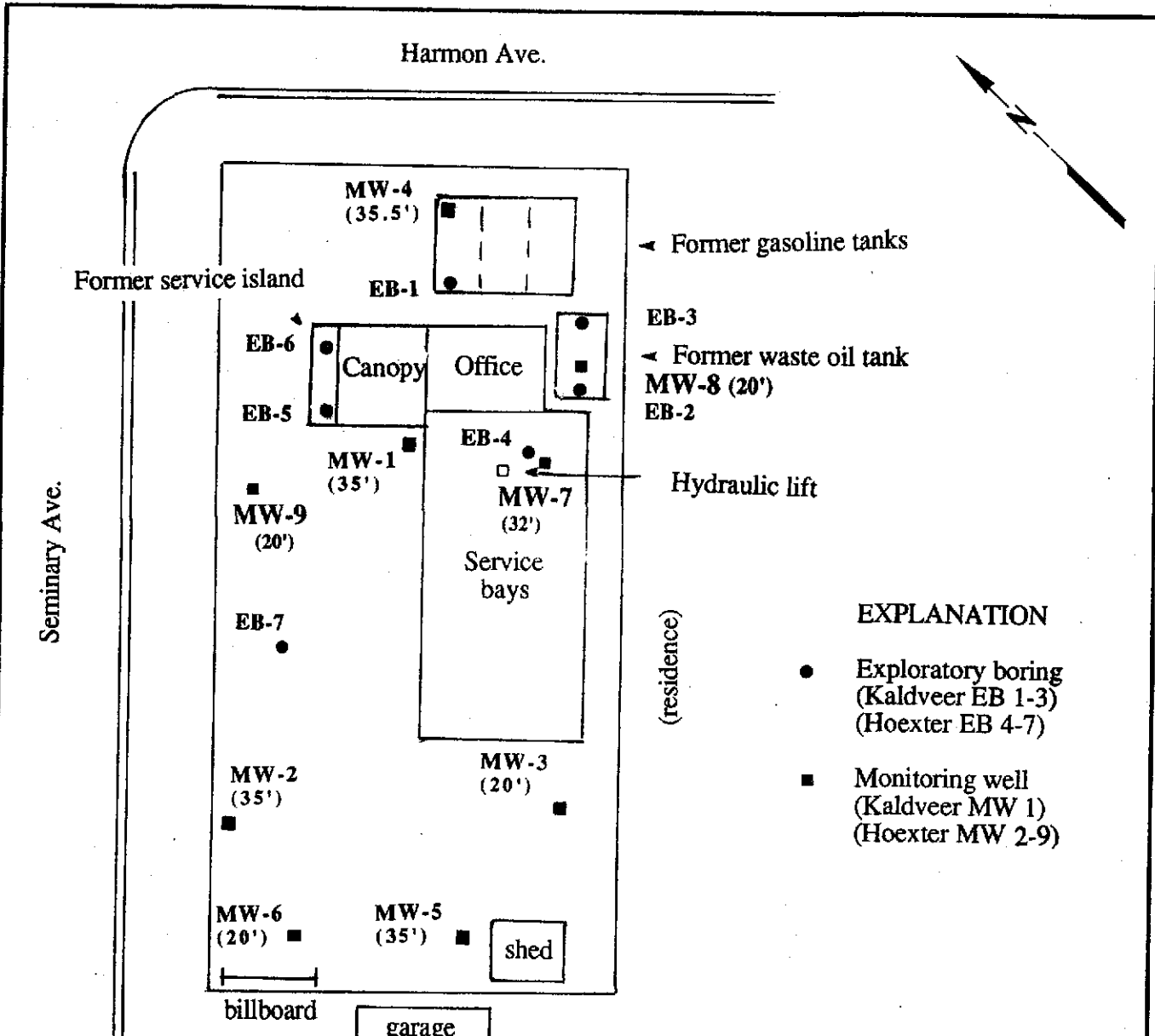


HOEXTER CONSULTING
Geology
Engineering Geology
Environmental Studies

LOCATION MAP

1970 Seminary Ave.
 Oakland, California

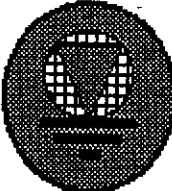
Project No.	Date	Figure 1
E-10-1E-391E	August, 2003	

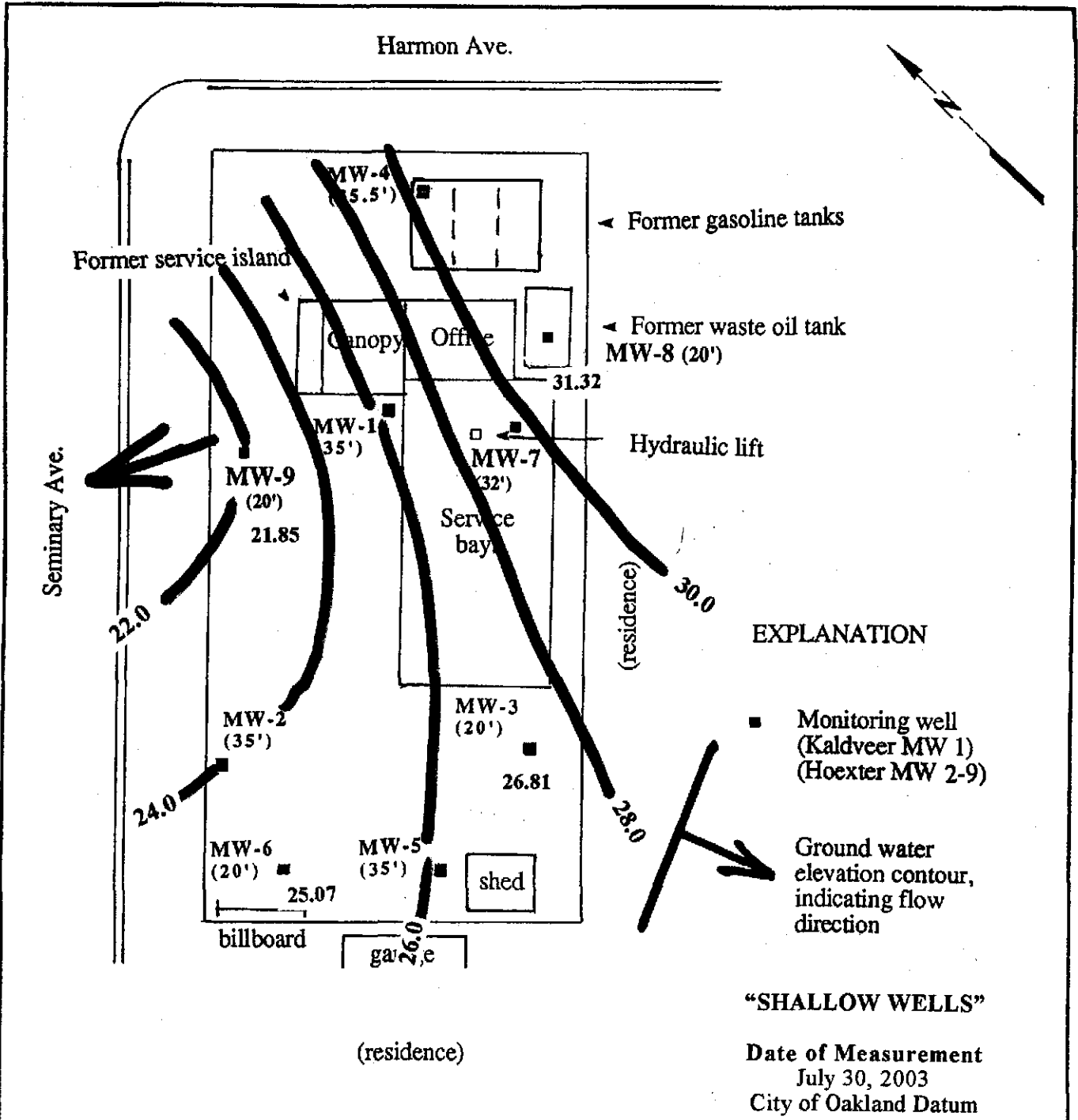


Base: A. Deak, Licensed Land Surveyor, 3/21/96 (wells, streets & property line); Hoexter field sketch, 10/25/93 (explor. borings, other features)

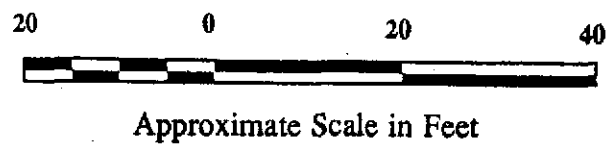


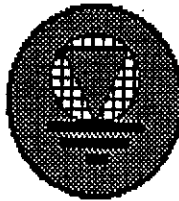
Approximate Scale in Feet

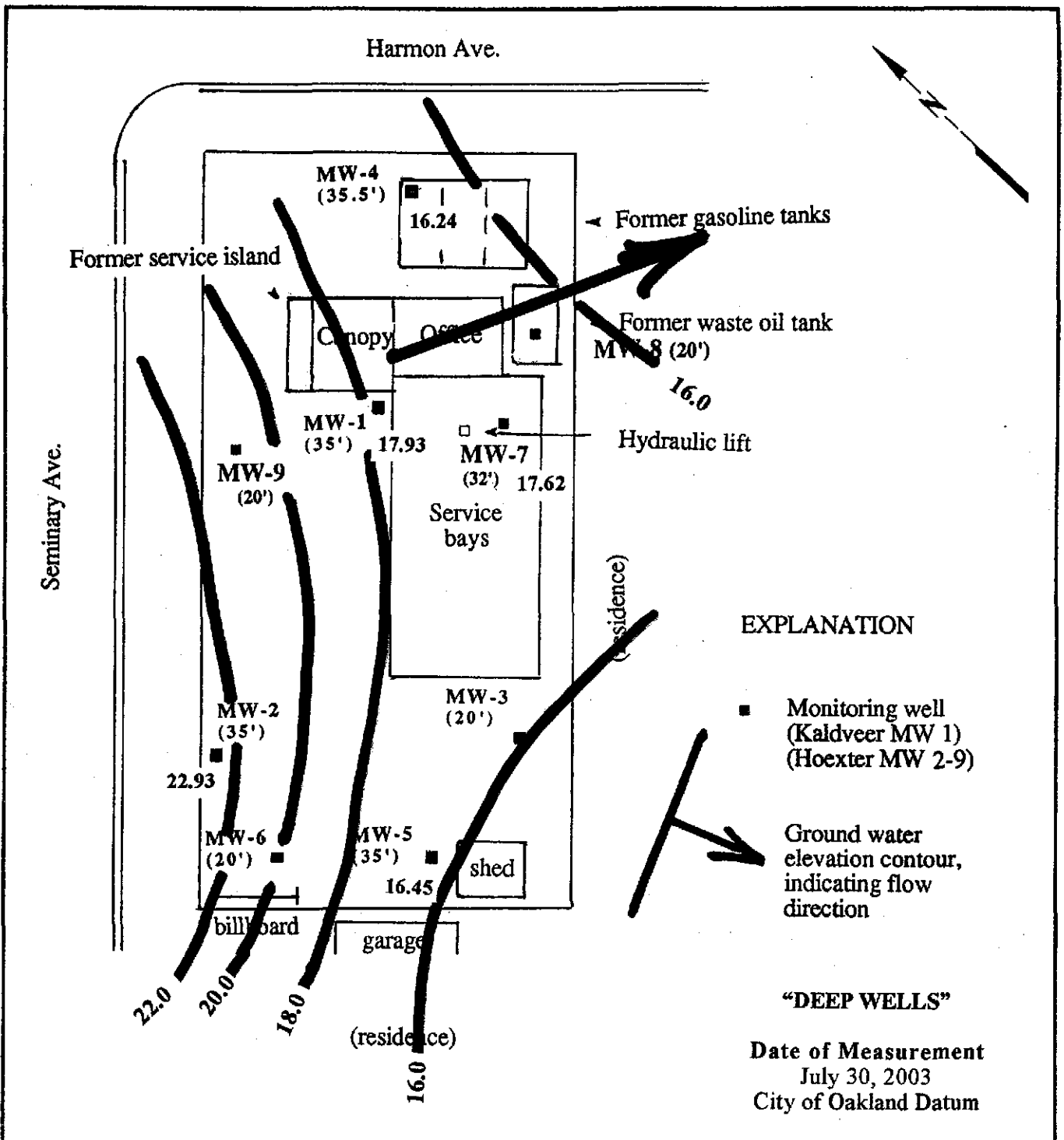
 <p>HOEXTER CONSULTING Geology Engineering Geology Environmental Studies</p>	SITE PLAN		
	1970 Seminary Ave. Oakland, California		
	Project No.	Date	Figure 2
	E-10-1E-391E	August, 2003	



Base: A. Deak, Licensed Land Surveyor, 3/21/96 (wells, streets & property line); Hoexter field sketch, 10/25/93 (explor. borings, other features)



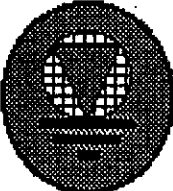
 <p>HOEXTER CONSULTING Geology Engineering Geology Environmental Studies</p>	GROUND WATER CONTOUR AND GRADIENT DIRECTION MAP	
	1970 Seminary Ave. Oakland, California	
	Project No.	Date
	E-10-1E-391E	August, 2003
		Figure 3A



Base: A. Deak, Licensed Land Surveyor, 3/21/96 (wells, streets & property line); Hoexter field sketch, 10/25/93 (explor. borings, other features)



Approximate Scale in Feet

 <p>HOEXTER CONSULTING Geology Engineering Geology Environmental Studies</p>	GROUND WATER CONTOUR AND GRADIENT DIRECTION MAP		
	1970 Seminary Ave. Oakland, California		
	Project No.	Date	Figure 3B
	E-10-1E-391E	August, 2003	

APPENDIX A

**WATER SAMPLE LOGS
CHAIN OF CUSTODY
ANALYTICAL TEST RESULTS**

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project Name/No: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

W.D.: E-10-1E-391E
 Date: 7/30/05
 Sample Location/I.D.: MU-1
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 19.06
 Sample Depth (feet): _____

Calculated Purged Volume: 10.4
 Actual Purged Volume 10.4

35 - 19.1 = 15.9'
→ 2.6 gal/wt.

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>12/6</u>	<u>2.6</u>	<u>2.6</u>	<u>6.56</u>	<u>1011</u>	<u>66.9</u>		
	<u>5.2</u>						
	<u>7.8</u>						
	<u>10.4</u>						

Product present -
Additional parameter
readings not recorded
due to production
purge water.

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: 1/4" product w/ globules of oil in initial bucket; strong
petrol- odor. Sampled @ 15:35 JF 2vda, 1 meter; 82% recovered.

Signature: D. Hoover

Conversion Factors

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	<u>0.0918</u>	0.0123	1.140	0.3475
2.0	<u>0.1632</u>	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

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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hooper
 Sampler: J. Forsythe, D. Hooper
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

W.D.: E-10-1E-391E
 Date: 7/30/05
 Sample Location/I.D.: MU-2
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 13.47
 Sample Depth (feet): _____

Calculated Purged Volume: 14.0
 Actual Purged Volume 14.5

$35 - 13.5 = 21.5'$
 $\rightarrow 3.5 \text{ gal/ft} -$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
1257	3.5	3.5	6.61	877	72.0	clear	
1308	7.0	↓	6.58	866	68.5		
1322	10.5	↓	6.59	855	67.6		
1335	14.0	↓	6.58	856	67.6		

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: Initial bailer no product or screen; H₂S odor
DFA sampled 2 VOA 1 amber @ 17:34 (26% recovery in ca 4 hr)

Signature: [Signature]

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length		L/M	L/Ft
	Gal/ft	Cubic Ft/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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

~~W~~ I.D.: E-10-1E-391E
 Date: 7/30/53
 Sample Location/I.D.: MU-3
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 10.13
 Sample Depth (feet): _____

Calculated Purged Volume: 6.5
 Actual Purged Volume 5.8

$20 - 10.1 = 9.9'$
 $\rightarrow 1.65 \text{ gal/ft.}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1134</u>	<u>1.6</u>	<u>1.6</u>	<u>6.55</u>	<u>567</u>	<u>64.0</u>	<u>clear</u>	
<u>1138</u>	<u>3.2</u>	<u>↓</u>	<u>6.60</u>	<u>564</u>	<u>63.7</u>	<u>↓</u>	
<u>1145</u>	<u>4.8</u>	<u>↓</u>	<u>6.65</u>	<u>557</u>	<u>63.4</u>	<u>↓</u>	
<u>1150</u>	<u>5.8</u>	<u>1.0</u>	<u>6.63</u>	<u>554</u>	<u>63.5</u>	<u>↓</u>	<u>< 3' water</u>

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: No product, stain, odor, DMA sampled 2 VOA / comb
@ 1736 (3770 Seminary in 4 3/4" ± bars)

Signature: D. Hoover

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	<u>0.0918</u>	0.0123	1.140	0.3475
2.0	<u>0.1632</u>	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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

W.P.I.D.: E-10-1E-391E
 Date: 7/20/55
 Sample Location/I.D.: MU-4
 Start Time: _____

Depth of Well (feet): 35.5
 Depth to Water (feet): 20.23
 Sample Depth (feet): _____

Calculated Purged Volume: 10
 Actual Purged Volume 9.5

$35.5 - 20.2 = 15.3'$
 $\rightarrow 2.5 \text{ gal/wd}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
1123	2.5	2.5	6.48	827	66.0		
1136	5.0	↓	6.50	805	64.8	cloudy	
1145	7.5	↓	6.52	796	64.5		
1153	9.5	20	6.57	806	65.1		

Purge Method

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

Sample Method

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

Well Integrity: OK - no shoen initial bailer extraction
 Remarks: No product; moderate steam + odor following purge -
IF sampled 2VOA 1amber at 1715 (72% recovery) -

Signature: D. Hoover

Conversion Factors

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/P
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

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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

W.D.: E-10-1E-391E
 Date: 7/30/05
 Sample Location/I.D.: MU-5
 Start Time: _____

Depth of Well (feet): 35
 Depth to Water (feet): 20.32
 Sample Depth (feet): _____

Calculated Purged Volume: 9.6
 Actual Purged Volume 7.2

$35 - 20.3 = 14.7$
 $\rightarrow 2.49 \text{ gal/vol.}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1250</u>	<u>2.4</u>	<u>2.4</u>	<u>6.63</u>	<u>727</u>	<u>70.4</u>		
<u>1305</u>	<u>4.8</u>	↓	<u>6.58</u>	<u>843</u>	<u>66.6</u>	<u>v-sl. cloudy, tan</u>	
<u>1318</u>	<u>7.2</u>	↓	<u>6.61</u>	<u>850</u>	<u>67.1</u>	<u>< 3' water</u>	
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: Initial extraction no product, "strucky" than, sl-sbt-DTH sampled 2 vol 1 amber @ 1752 (79% recovery)

Signature: [Signature]

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	<u>0.0218</u>	0.0123	1.140	0.3475
2.0	<u>0.1632</u>	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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

~~W~~ I.D.: E-10-1E-391E
 Date: 7/20/07
 Sample Location/I.D.: MU-6
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 11.35
 Sample Depth (feet): _____

Calculated Purged Volume: 5.6
 Actual Purged Volume 4.2

$20 - 11.4 = 8.6'$
 $\rightarrow 1.4 \text{ gal/vel.}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1217</u>	<u>1.4</u>	<u>1.4</u>	<u>6.57</u>	<u>923</u>	<u>68.5</u>		
<u>1225</u>	<u>2.8</u>	<u>↓</u>	<u>6.58</u>	<u>913</u>	<u>69.0</u>	<u>clear</u>	
<u>1235</u>	<u>4.2</u>	<u>↓</u>	<u>6.65</u>	<u>928</u>	<u>71.4</u>	<u>< 3' water</u>	
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: No product, steam, odor -
Sampled 2 VOA 1 amber JF @ 1515 (91% recovery)

Signature: D. Hoover

Conversion Factors

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	<u>0.0218</u>	0.0123	1.140	0.3475
2.0	<u>0.1632</u>	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

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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

~~W~~ I.D.: E-10-1E-391E
 Date: 7/20/05
 Sample Location/I.D.: MU-7
 Start Time: _____

Depth of Well (feet): 32
 Depth to Water (feet): 19.21
 Sample Depth (feet): _____

Calculated Purged Volume: 8.4
 Actual Purged Volume 6.3

$32 - 19.2 = 12.8'$
 $\rightarrow 2.1 \text{ gal/ft}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1347</u>	<u>2.1</u>	<u>2.1</u>	<u>6.55</u>	<u>794</u>	<u>66.8</u>	<u>clear</u>	_____
<u>1353</u>	<u>4.2</u>	<u>↓</u>	<u>6.62</u>	<u>742</u>	<u>66.7</u>	<u>cloudy</u>	_____
<u>1400</u>	<u>6.3</u>	<u>↓</u>	<u>6.72</u>	<u>694</u>	<u>66.5</u>	<u>↓</u>	<u>2.3' water</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: Initial tests - no steam or odor, no product
Sample 1645 by DFH 2 vials 1 amber (@ 80% recovery)

Signature: D. Hoover

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Volume Per Unit Length		L/M	L/Ft
	Gal/ft	Cubic Ft/ft		
1.5	<u>0.0918</u>	0.0123	1.140	0.3475
2.0	<u>0.1632</u>	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

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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoer
 Sampler: J. Forsythe, D. Hoer
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

~~W~~ I.D.: E-10-1E-391E
 Date: 7/30/05
 Sample Location/I.D.: MU-8
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 5.23
 Sample Depth (feet): _____

Calculated Purged Volume: 9.7
 Actual Purged Volume 9.6

$20 - 5.2 = 14.8'$
 $\rightarrow 2.45 \text{ gal/ft.}$

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Degrees F)	Color (visual)	Other
1335	2.4	2.4	7.03	297	68.8	clear	
1401	4.8	↓	6.98	297	69.4	v. sl. cloudy/brown	
1410	7.2		7.03	293	69.7		
1417	9.6		7.08	292	69.2		↓

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: Initial bailer no product, shaver odor, subsequent minor streaking on purge water. DTH sampled 2 VOA 1 amber

Signature: D. J. H. at 15:12 (99% recovery)

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: 1970 Seminary, Oakland CA
 Client: D. Grimit
 Project Manager: D. Hoover
 Sampler: J. Forsythe, D. Hoover
 Casing Diameter: 2 inch X 3 inch _____ 4 inch _____ 6 inch _____ Other: _____

Well I.D.: E-10-1E-391E
 Date: 7/30/05
 Sample Location/I.D.: MU-9
 Start Time: _____

Depth of Well (feet): 20
 Depth to Water (feet): 14.85
 Sample Depth (feet): _____

Calculated Purged Volume: 3.4
 Actual Purged Volume 1.6

$20 - 14.8 = 5.2'$

Field Measurements

$\rightarrow 0.85 \text{ gal/ft.}$

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees F	Color (visual)	Other
<u>1118</u>	<u>0.8</u>	<u>0.8</u>	<u>6.54</u>	<u>950</u>	<u>66.7</u>	<u>clear</u>	
<u>1123</u>	<u>1.6</u>	<u>↓</u>	<u>6.59</u>	<u>940</u>	<u>66.1</u>	<u>23' water</u>	

Purge Method

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

Sample Method

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

Well Integrity: OK

Remarks: NO product shown; sl. H₂S odor
DTH sampled 2 VOA 1 meter @ 16.55 (52% recovery)

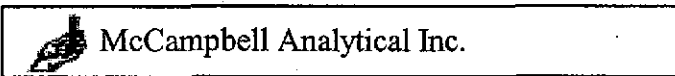
Signature: D. Hoover

Conversion Factors

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

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



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mcccampbell.com E-mail: main@mcccampbell.com

Hoexter Consulting Eng. Geology 734 Torreya Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1E-391E; 1970 Seminary Ave.	Date Sampled: 07/30/03
		Date Received: 07/31/03
	Client Contact: David Hoexter	Date Reported: 08/06/03
	Client P.O.:	Date Completed: 08/06/03

WorkOrder: 0307529

August 06, 2003

Dear David:

Enclosed are:

- 1). the results of 9 analyzed samples from your #E-10-1E-391E; 1970 Seminary Ave. project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Hoexter Consulting Eng. Geology 734 Torrey Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1E-391E; 1970 Seminery Ave.	Date Sampled: 07/30/03
	Client Contact: David Hoexter	Date Received: 07/31/03
	Client P.O.:	Date Extracted: 08/01/03-08/05/03
		Date Analyzed: 08/01/03-08/05/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0307529

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	24,000,a,h	ND<500	1300	1500	760	2700	50	95.6
002A	MW-2	W	710,a	ND<20	43	1.8	24	5.9	1	98.3
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	103
004A	MW-4	W	1700,a,h	ND<150	440	8.9	18	6.1	1	95.4
005A	MW-5	W	8700,a	ND<300	170	35	470	300	10	92.8
006A	MW-6	W	2000,a	ND<70	250	4.8	50	24	1	--#
007A	MW-7	W	5300,a	ND<400	460	34	43	52	10	107
008A	MW-8	W	ND	ND	2.0	ND	ND	ND	1	--#
009A	MW-9	W	570,a	ND	7.2	1.2	14	4.8	1	101


Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

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Hoexter Consulting Eng. Geology
734 Torrey Court
Palo Alto, CA 94303-4160

Client Project ID: #E-10-1E-391E; 1970
Seminary Ave.

Client Contact: David Hoexter

Client P.O.:

Date Sampled: 07/30/03

Date Received: 07/31/03

Date Extracted: 07/31/03

Date Analyzed: 08/01/03

Petroleum Oil & Grease with Silica Gel Clean-Up*

Analytical methods: SM5520B/F

Work Order: 0307529

Lab ID	Client ID	Matrix	POG	DF	% SS
0307529-001C	MW-1	W	55,h	1	N/A
0307529-002C	MW-2	W	ND	1	N/A
0307529-003C	MW-3	W	ND	1	N/A
0307529-004C	MW-4	W	ND,h	1	N/A
0307529-005C	MW-5	W	ND	1	N/A
0307529-006C	MW-6	W	ND	1	N/A
0307529-007C	MW-7	W	ND	1	N/A
0307529-008C	MW-8	W	ND	1	N/A
0307529-009C	MW-9	W	ND	1	N/A


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment.

 Angela Rydelius, Lab Manager



Hoexter Consulting Eng. Geology 734 Torreya Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1E-391E; 1970 Seminery Ave.	Date Sampled: 07/30/03
	Client Contact: David Hoexter	Date Received: 07/31/03
	Client P.O.:	Date Extracted: 08/02/03-08/04/03
		Date Analyzed: 08/02/03-08/04/03

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B by 8260

Work Order: 0307529

Lab ID	0307529-001B	0307529-002B	0307529-003B	0307529-004B	Reporting Limit for DF=1	
Client ID	MW-1	MW-2	MW-3	MW-4		
Matrix	W	W	W	W		
DF	40	1	1	20		

Compound	Concentration				µg/kg	µg/L
	Bromodichloromethane	ND<20	ND	ND	ND<10	NA
Bromoform	ND<20	ND	ND	ND<10	NA	0.5
Bromomethane	ND<20	ND	ND	ND<10	NA	0.5
Carbon Tetrachloride	ND<20	ND	ND	ND<10	NA	0.5
Chlorobenzene	ND<20	ND	ND	ND<10	NA	0.5
Chloroethane	ND<20	ND	ND	ND<10	NA	0.5
2-Chloroethyl vinyl ether	ND<20	ND	ND	ND<10	NA	0.5
Chloroform	ND<20	ND	ND	ND<10	NA	0.5
Chloromethane	ND<20	ND	ND	ND<10	NA	0.5
Dibromochloromethane	ND<20	ND	ND	ND<10	NA	0.5
1,2-Dichlorobenzene	ND<20	ND	ND	32	NA	0.5
1,3-Dichlorobenzene	ND<20	ND	ND	ND<10	NA	0.5
1,4-Dichlorobenzene	ND<20	ND	ND	ND<10	NA	0.5
Dichlorodifluoromethane	ND<20	ND	ND	ND<10	NA	0.5
1,1-Dichloroethane	ND<20	ND	ND	ND<10	NA	0.5
1,2-Dichloroethane	ND<20	1.7	ND	ND<10	NA	0.5
1,1-Dichloroethene	ND<20	ND	ND	ND<10	NA	0.5
cis-1,2-Dichloroethene	ND<20	1.4	ND	230	NA	0.5
trans-1,2-Dichloroethene	ND<20	ND	ND	13	NA	0.5
1,2-Dichloropropane	ND<20	ND	ND	ND<10	NA	0.5
cis-1,3-Dichloropropene	ND<20	ND	ND	ND<10	NA	0.5
trans-1,3-Dichloropropene	ND<20	ND	ND	ND<10	NA	0.5
Methylene chloride	ND<20	ND	ND	ND<10	NA	0.5
1,1,2,2-Tetrachloroethane	ND<20	ND	ND	ND<10	NA	0.5
Tetrachloroethene	ND<20	ND	ND	ND<10	NA	0.5
1,1,1-Trichloroethane	ND<20	ND	ND	ND<10	NA	0.5
1,1,2-Trichloroethane	ND<20	ND	ND	ND<10	NA	0.5
Trichloroethene	ND<20	ND	ND	13	NA	0.5
Trichlorofluoromethane	ND<20	ND	ND	ND<10	NA	0.5
Vinyl Chloride	ND<20	ND	ND	290	NA	0.5

Surrogate Recoveries (%)

%SS:	94	104	104	105
Comments	h,j			h

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit raised due to insufficient sample amount.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Hoexter Consulting Eng. Geology 734 Torreya Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1E-391E; 1970 Seminery Ave.	Date Sampled: 07/30/03
	Client Contact: David Hoexter	Date Received: 07/31/03
	Client P.O.:	Date Extracted: 08/02/03-08/04/03
		Date Analyzed: 08/02/03-08/04/03

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B by 8260

Work Order: 0307529

Lab ID	0307529-005B	0307529-006B	0307529-007B	0307529-008B	Reporting Limit for DF = 1	
Client ID	MW-5	MW-6	MW-7	MW-8	S	W
Matrix	W	W	W	W		
DF	2	1	5	1		
Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Bromoform	ND<1.0	ND	ND<2.5	ND	NA	0.5
Bromomethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Carbon Tetrachloride	ND<1.0	ND	ND<2.5	ND	NA	0.5
Chlorobenzene	ND<1.0	ND	ND<2.5	ND	NA	0.5
Chloroethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
2-Chloroethyl vinyl ether	ND<1.0	ND	ND<2.5	ND	NA	0.5
Chloroform	ND<1.0	ND	ND<2.5	ND	NA	0.5
Chloromethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Dibromochloromethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,2-Dichlorobenzene	1.2	ND	ND<2.5	ND	NA	0.5
1,3-Dichlorobenzene	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,4-Dichlorobenzene	ND<1.0	ND	ND<2.5	ND	NA	0.5
Dichlorodifluoromethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,1-Dichloroethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,2-Dichloroethane	1.1	1.3	ND<2.5	ND	NA	0.5
1,1-Dichloroethene	ND<1.0	ND	ND<2.5	ND	NA	0.5
cis-1,2-Dichloroethene	1	7.6	130	25	NA	0.5
trans-1,2-Dichloroethene	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,2-Dichloropropane	ND<1.0	ND	ND<2.5	ND	NA	0.5
cis-1,3-Dichloropropene	ND<1.0	ND	ND<2.5	ND	NA	0.5
trans-1,3-Dichloropropene	ND<1.0	ND	ND<2.5	ND	NA	0.5
Methylene chloride	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Tetrachloroethene	ND<1.0	ND	ND<2.5	15	NA	0.5
1,1,1-Trichloroethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
1,1,2-Trichloroethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Trichloroethene	ND<1.0	ND	ND<2.5	14	NA	0.5
Trichlorofluoromethane	ND<1.0	ND	ND<2.5	ND	NA	0.5
Vinyl Chloride	2.0	2.7	9.5	ND	NA	0.5

Surrogate Recoveries (%)

%SS:	95.8	102	93	106	
Comments					

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/studge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit raised due to insufficient sample amount.



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Hoexter Consulting Eng. Geology 734 Torreya Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1E-391E; 1970 Seminery Ave.	Date Sampled: 07/30/03
	Client Contact: David Hoexter	Date Received: 07/31/03
	Client P.O.:	Date Extracted: 08/02/03-08/04/03
		Date Analyzed: 08/02/03-08/04/03

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B by 8260

Work Order: 0307529

Lab ID	0307529-009B	Reporting Limit for DF = 1
Client ID	MW-9	
Matrix	W	
DF	1	

Compound	Concentration	µg/kg	µg/L
		S	W
Bromodichloromethane	ND	NA	0.5
Bromoform	ND	NA	0.5
Bromomethane	ND	NA	0.5
Carbon Tetrachloride	ND	NA	0.5
Chlorobenzene	ND	NA	0.5
Chloroethane	ND	NA	0.5
2-Chloroethyl vinyl ether	ND	NA	0.5
Chloroform	ND	NA	0.5
Chloromethane	ND	NA	0.5
Dibromochloromethane	ND	NA	0.5
1,2-Dichlorobenzene	ND	NA	0.5
1,3-Dichlorobenzene	ND	NA	0.5
1,4-Dichlorobenzene	ND	NA	0.5
Dichlorodifluoromethane	ND	NA	0.5
1,1-Dichloroethane	ND	NA	0.5
1,2-Dichloroethane	ND	NA	0.5
1,1-Dichloroethene	ND	NA	0.5
cis-1,2-Dichloroethene	ND	NA	0.5
trans-1,2-Dichloroethene	ND	NA	0.5
1,2-Dichloropropane	ND	NA	0.5
cis-1,3-Dichloropropene	ND	NA	0.5
trans-1,3-Dichloropropene	ND	NA	0.5
Methylene chloride	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	NA	0.5
Tetrachloroethene	ND	NA	0.5
1,1,1-Trichloroethane	ND	NA	0.5
1,1,2-Trichloroethane	ND	NA	0.5
Trichloroethene	ND	NA	0.5
Trichlorofluoromethane	ND	NA	0.5
Vinyl Chloride	ND	NA	0.5

Surrogate Recoveries (%)


%SS:	105
Comments	

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit raised due to insufficient sample amount.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0307529

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 8020		Spiked Sample ID: 0307519-001A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	106	104	1.44	104	103	1.10	70	130
MTBE	ND	10	109	111	2.36	103	101	1.50	70	130
Benzene	ND	10	96.4	98.1	1.79	98	94.8	3.34	70	130
Toluene	ND	10	91.1	90.5	0.743	91.9	88.6	3.67	70	130
Ethylbenzene	ND	10	98.3	97.6	0.683	98.5	94.2	4.49	70	130
Xylenes	ND	30	90.7	90.3	0.368	90.7	86.3	4.90	70	130
%SS:	102	100	97.2	101	4.28	101	99.6	1.18	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SM5520B/F

Matrix: W

WorkOrder: 0307529

EPA Method: SM5520B/F		Extraction: PRHEM-SGT_		BatchID: 8033		Spiked Sample ID: N/A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
POG	N/A	200	N/A	N/A	N/A	110	100	9.52	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

surrogate diluted out of range.



QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0307529

EPA Method: SW8021B		Extraction: SW5030B			BatchID: 8017		Spiked Sample ID: 0307526-004B			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Chlorobenzene	ND	10	109	107	1.85	92.5	98.5	6.33	70	130
1,1-Dichloroethene	ND	10	76.6	76.1	0.668	104	110	4.84	70	130
Trichloroethene	ND	10	90.6	90.1	0.553	92.2	95.8	3.85	70	130
%SS:	104	100	106	107	0.939	91.9	89.4	2.82	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

0307529

CHAIN-OF-CUSTODY RECORD

1/2

Project Number		Project Name					Number/Type of Containers	Analytical Tests				Remarks
E-10-1E-391E		1970 Seminary Ave. Oakland CA						TPH-SIBTEX/WTR SOIL BULK SM 5720 B/Fail LTEL Protect				
Sampler's Name (printed)												
J. Forsythe, D. Hoexter												
Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number						
+ MW-1	7/30/03	1535				2VQA	X	X			X	
⊕ 2		1734				1amber			X			
✓ 3		1726				2VQA	X	X			X	
⊕ 4		1715				1amber			X			
✓ 5		1752				2VQA	X	X			X	
✓ 6		1515				1amber			X			
✓ 6		1515				2VQA	X	X			X	
✓ 6		1515				1amber			X			
+ 7		1645				2VQA	X	X			X	
+ 7		1645				1amber			X			

Cont on pg 2

Relinquished by: (Signature) D. Forsythe	Date/Time 7-31 9:30	Received by: (Signature) B. Butts
Relinquished by: (Signature) B. Butts	Date/Time 7-31 1:09pm	Received by: (Signature) [Signature]
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Ship To: _____

 Attention: _____
 Phone No: _____

Requested Turnaround Time: Normal Contact: David F. Hoexter

Remarks: PRESERVATION APPROPRIATE CONTAINERS PRESERVED IN LAB
 GOOD CONDITION
 LEAD SPACE ABSENT
 RECHLORINATED IN LAB

Phone 650-494-2505
 Fax 650-494-2511

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

CHAIN-OF-CUSTODY RECORD

2/2

Project Number: E-10-1E-91E
 Project Name: 1970 Seminary Ave. Oakland CA

Sampler's Name (printed): J. Ferryho, D-Hoexter

Boring Number	Date	Time	Soil	Water	Sample Location or Depth	Sample Number	Analytical Tests				Remarks
							TPH-GIBTEX/147BTEX	8010 HMOE	SM 557e3/Fil	PAS-HAL	
+ ML-8	7/2/03	1512		↓		2WA	X	X			
+ 9	↓	1655		↓		1amber 2WA 1amber	X	X	X		

Relinquished by: (Signature) D. J. [Signature]	Date/Time 7-31-03 19:30	Received by: (Signature) B. B. [Signature]
Relinquished by: (Signature) B. B. [Signature]	Date/Time 7-31-03 11:00pm	Received by: (Signature) [Signature]
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Ship To: McCoppell Avel.
 Pacheco CA

Attention: _____
 Phone No: _____

Requested Turnaround Time: Normal
 Contact: David F. Hoexter

Phone: 650-494-2505
 Fax: 650-494-2515

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

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0307529

Client:

Hoexter Consulting Eng. Geology
 734 Torreya Court
 Palo Alto, CA 94303-4160

TEL: (650) 494-2505
 FAX: (650) 494-7920
 ProjectNo: #E-10-1E-391E; 1970 Seminary Ave.
 PO:

Date Received: 7/31/03
 Date Printed: 7/31/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests					
					SM5520B/F	SW8021B	V8021B/8015C			
0307529-001	MW-1	Water	7/30/03 3:35:00 PM	<input type="checkbox"/>	C	B	A			
0307529-002	MW-2	Water	7/30/03 5:34:00 PM	<input type="checkbox"/>	C	B	A			
0307529-003	MW-3	Water	7/30/03 5:36:00 PM	<input type="checkbox"/>	C	B	A			
0307529-004	MW-4	Water	7/30/03 5:15:00 PM	<input type="checkbox"/>	C	B	A			
0307529-005	MW-5	Water	7/30/03 5:52:00 PM	<input type="checkbox"/>	C	B	A			
0307529-006	MW-6	Water	7/30/03 3:15:00 PM	<input type="checkbox"/>	C	B	A			
0307529-007	MW-7	Water	7/30/03 4:45:00 PM	<input type="checkbox"/>	C	B	A			
0307529-008	MW-8	Water	7/30/03 3:12:00 PM	<input type="checkbox"/>	C	B	A			
0307529-009	MW-9	Water	7/30/03 4:55:00 PM	<input type="checkbox"/>	C	B	A			

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.