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Alameda County  
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**JULY 2007  
GROUND WATER SAMPLING REPORT  
FOR  
STID 553 - GRIMIT AUTO AND REPAIR  
1970 SEMINARY AVENUE  
OAKLAND, CALIFORNIA**

**E-10-1F-565F**

**August 15, 2007**

**Prepared by**

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**Geology / Engineering Geology / Environmental Studies**

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August 15, 2007

E-10-1F-565F

HCQuartEnvrRpts:Sem.1970/27(7/07)

Ms Angel La Marca  
945 S. Lehigh St.  
Anaheim Hills, California 92807

RE: **JULY 2007  
GROUND WATER SAMPLING REPORT  
STID 553 - GRIMIT AUTO AND REPAIR  
1970 SEMINARY AVENUE  
OAKLAND, CALIFORNIA**

Dear Ms La Marca:

Enclosed is our July 2007 ground water sampling report for the property located at 1970 Seminary Avenue, southwest corner of Harmon Avenue, in Oakland, California. Ground water sampling at the site dates from August, 1990. The results of previous sampling events are included in the analytical results summary tables.

Overall contaminant levels in the ground water remain elevated and effectively unchanged from the previous sampling events. Over the life of the wells, concentrations of petroleum hydrocarbon compounds have declined. Concentrations of HVOCs have variably increased and declined.

Primary contaminant sources have been removed. However, residual contaminant concentrations remain elevated, and the lateral extent of contamination has not been delineated. We recommend you contact the Alameda County Health Care Services Agency and/or Regional Water Quality Control Board for an evaluation of site status.

Water production from all wells, excepting well MW-8, has declined. You have approved the re-development of all wells excepting MW-8, to increase water flow to the wells. This will provide more representative water samples for future analysis. Well re-development will be conducted prior to the next well sampling event. In addition, the State GeoTracker analytical data upload confirmation indicates that fuel oxygenates/additives should be tested for, in addition to the current analytical suite. We will include additional analyses for these compounds starting with the next scheduled sampling event.

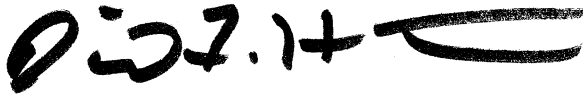
We recommend that a copy of the enclosed report be submitted to the Alameda County Health Care Services Agency. We understand you will make this submittal. Hoexter Consulting will upload a PDF of the report to the State GeoTracker system.

The next round of sampling is currently scheduled to be conducted during January 2008. 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. Hoexter", followed by a horizontal flourish.

David F. Hoexter, PG/CEG/REA (Geology registrations expire 11/30/07)  
Principal Geologist

Copies: Addressee (1)

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JULY 2007  
GROUND WATER SAMPLING REPORT

For

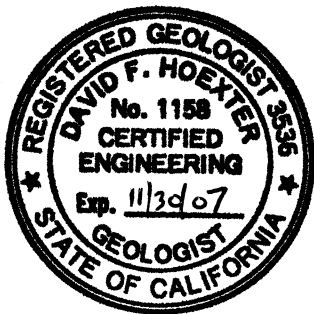
STID 553 - Gruit Auto and Repair  
1970 Seminary Avenue  
Oakland, California

To

Angel La Marca  
945 S. Lehigh St.  
Anaheim Hills, California 92807

E-10-1F-565F

August 15, 2007



*David F. Hoexter*

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

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Letter of Transmittal

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**JULY 2007**  
**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 2007 ground water sampling at 1970 Seminary Avenue, Oakland, California. The project location is shown on Figure 1 (Location Map). 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 locations and pertinent site features are shown on Figure 2 (Site Plan).

## **2.0 FIELD INVESTIGATION**

Water levels were measured and the wells sampled by Jack Forsythe, Staff Geologist. Due to past, very slow equilibration of ground water levels, the well caps were loosened on July 16, 2007, two days prior to the planned sampling event. The wells were then secured with the caps sufficiently loose to allow venting, and left to equilibrate until they were sampled. Water levels in all wells were measured July 18, 2007. The wells were purged and sampled on July 18 and 19, 2007.

Following ground water level measurement (Table 1), 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 following each purge volume removal.

Ground water recharge to most wells was slow, resulting in dewatering of the wells prior to or at completion of the fourth well volume withdrawal. Thus, several wells were purged of less than four volumes (all wells were purged of a minimum of three volumes). In addition, well recovery was slow. Wells were sampled after allowing for as much recovery as possible (some were sampled the following day), although recovery to the guideline level of 80 per cent of pre-purge elevation was not in all cases accomplished. It is possible that the well screens have become partially plugged.

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 equipment related to the sampling process 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 a surveyed point on the top of the 2-inch PVC casing for reference. The ground water elevations of 8 of 9 wells declined in comparison to the previous (January 2007) elevations (the exception was well

MW-2). Ground water elevations declined an average of 1.14 feet<sup>1</sup> in the "deeper" wells and 1.30 feet in the "shallow" wells.

Wells were surveyed in July 2004 by a California Licensed Surveyor, Virgil Chavez Land Surveying. The wells were surveyed to California GeoTracker specifications. 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 effectively unchanged from and are within the range of previous sampling events. The data for the five "deeper" wells indicate a gradient direction away from Seminary Avenue towards the east and southeast. The apparent gradient varies across the site, but averages 0.11 foot per foot near the source area. The approximate gradient direction is S 57° E. The data for the four "shallow" wells indicate an opposing gradient direction, towards Seminary Avenue. The apparent shallow gradient also varies across the site, but averages 0.26 foot per foot in the source area. The approximate gradient direction is N 52° W.

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 Pittsburg, 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**

The initial bailer extraction was observed for presence of free-phase product and odor following the depth to water sounding. Free-phase product, commonly although not always present in well MW-1, was observed, with a thickness of approximately 2 inches. Wells MW-4 and MW-5 exhibited visual sheen following the second purge volume. A sheen is common for well MW-4, and occasionally observed in other wells. All wells with the exception of MW-8 generally dewater (i.e. contain less than 3 or 4 feet of standing water)

<sup>1</sup> One well, MW-2, skewed the data, as it increased 1.85 feet. This well previously (January 2007 in comparison to July 2006) decreased in elevation when others rose, and may not have equilibrated prior to the depth to water measurement.

prior to completion of a three- or complete four-volume purge. A minimum of three well volumes was removed from each of the wells. In most cases, the wells with significant drawdown recovered to near or greater than 80 per cent of initial water level prior to being sampled.

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. Tables 4 and 5 are of parameters not currently tested for; Table 6 is 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 (January 2006) analyses.

TPH-G and BTEX levels remained effectively unchanged from the previous sampling event, increasing in three wells, essentially unchanged (non-detect) in three wells, and declining in three wells. There has been, however, an overall generally downward trend in TPH-G and BTEX levels over the life of most (although not all) 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. MTBE was not detected, although detection limits are elevated and it has been previously detected at the site. Oil/grease were detected in one well, MW-1.

Various HVOCs were detected in six of the nine wells. Detected HVOC concentrations generally declined. The three wells with non-detections were MW-1 (elevated reporting limits), -5 and -9.

#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

All nine wells were available for sampling.

Overall ground water contaminant levels remain elevated and effectively unchanged from the previous sampling events. Over the life of the wells, concentrations of petroleum hydrocarbon compounds have declined. Concentrations of HVOCs have variably increased and declined.

Primary contaminant sources have been removed. However, residual ground water contaminant concentrations remain elevated. In addition, the lateral (off-site) extent of contamination has not been delineated. We recommend you contact the Alameda County Health Care Services Agency and/or Regional Water Quality Control Board for an evaluation of site status.

Water production from all wells, excepting well MW-8, has declined. Re-developing will increase water flow to the well. This will provide more representative ground water samples for future analysis. Well re-development will be conducted prior to the next well sampling event (January 2008).

The State GeoTracker analytical data upload confirmation indicates that fuel oxygenates/additives should be tested for, in addition to the current analytical suite. We recommend inclusion of additional analyses for these compounds starting with the next scheduled sampling event.

Wells have been surveyed to State of California GeoTracker standards. Data and a copy of this report have or will be uploaded to the GeoTracker web site.



## 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.

\* \* \* \* \*

**ENCLOSURES**

## TABLES

**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)
<b>MW-1 ("deep")</b>			
8/6/90	37.00	21.5	15.5
1/28/92		21.0	16.0
4/27/92		20.95	16.05
8/10/92		22.20	14.80
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
1/27/04		16.45	20.54
7/22/04	40.02	20.22	19.80 (7)
1/20/05		13.92	26.10
7/20/05		16.76	23.26
1/26/06		14.40	25.62
7/27/06		17.66	22.36
1/24/07		17.43	22.59
7/18/07		19.31	20.71
<b>MW-2 ("deep")</b>			
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

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
<b>MW-2 ("deep") cont'</b>			
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
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
1/27/04		11.72	24.68
7/22/04	39.42	13.86	25.56 (7)
1/20/05		10.24	29.18
7/20/05		12.34	27.08
1/26/06		10.60	28.82
7/27/06		13.02	26.40
1/24/07		15.76	23.66
7/18/07		13.91	25.51
<b>MW-3 ("shallow")</b>			
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

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
<b>MW-3 ("shallow") cont'</b>			
7/30/03		10.13	26.81
1/27/04		7.65	29.29
7/22/04	39.95	11.29	28.66 (7)
1/20/05		6.24	33.71
7/20/05		9.03	30.92
1/26/06		6.49	33.46
7/27/06		8.80	31.15
1/24/07		8.75	31.20
7/18/07		11.29	28.66
<b>MW-4 ("deep")</b>			
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
7/23/02		20.26	16.21
1/20/03		15.26	21.21
7/30/03		20.23	16.24
1/27/04		17.15	19.32
7/22/04	39.49	21.28	18.21 (7)
1/20/05		14.20	25.29
7/20/05		17.64	21.85
1/26/06		14.42	25.07
7/27/06		18.51	20.98
1/24/07		18.43	21.06
7/18/07		20.59	18.90
<b>MW-5 ("deep")</b>			
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

Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
<b>MW-5 ("deep") cont'</b>			
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
1/27/04		18.34	18.43
7/22/04	39.79	20.90	18.89 (7)
1/20/05		15.89	23.90
7/20/05		17.97	21.82
1/26/06		15.49	24.30
7/27/06		18.50	21.29
1/24/07		18.76	21.03
7/18/07		20.12	19.67
<b>MW-6 ("shallow")</b>			
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
1/27/04		9.20	27.22
7/22/04	39.44	11.13	28.31 (7)
1/20/05		7.65	31.79
7/20/05		10.02	29.42
1/26/06		8.13	31.31
7/27/06		10.59	28.85
1/24/07		10.09	29.35
7/18/07		11.06	28.38
<b>MW-7 ("deep")</b>			
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)
<b>MW-7 ("deep") cont'</b>			
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
1/27/04		16.84	19.99
7/22/04	39.84	20.17	19.67 (7)
7/20/05		17.26	22.58
1/26/06		14.55	25.29
7/27/06		18.13	21.71
1/24/07		18.03	21.81
7/18/07		19.76	20.08
<b>MW-8 ("shallow")</b>			
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
1/27/04		4.26	32.29
7/22/04	39.49	5.42	34.07 (7)
1/20/05		3.39	36.10
7/20/05		5.14	34.35
1/26/06		3.70	35.75
7/27/06		5.63	33.86
1/24/07		4.87	34.62
7/18/07		5.41	34.08
<b>MW-9 ("shallow")</b>			
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



Well Number and Date of Measurement	Reference Elevation (2)	Depth To Water	Relative Ground Water Elevation (2)
<b>MW-9 ("shallow") cont'</b>			
1/20/03		12.27	24.43
7/30/03		14.85	21.85
1/27/04		11.72	24.98
1/26/06		10.12	29.59
7/27/06		12.52	27.19
1/24/07		12.63	24.07 (8)
7/18/07		13.77	22.93

**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 and June 23, 1997, City of Oakland datum; and by Virgil D. Chavez Land Surveying, California Licensed Land Surveyor, July 22, 2004, NGVD 29 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).
- (7) (Initial elevation to NGVD datum).
- (8) Corrected elevation; reported 1/24/07 as 26.08'.

**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
1/27/04 (3)	N 60 W	0.19	S 77 E	0.10
7/22/04 (3)	N 60 W	0.22	S 67 E	0.08
1/20/05 (3)	N 45 W	0.17	S 30 E	0.04
7/20/05 (3)	N 70 W	0.14	S 68 E	0.08
1/26/06 (3)	N 52 W	0.14	S 55 E	0.04
7/27/06 (3)	N 68 W	0.15	S 72 E	0.09
7/27/06 (3)	N 68 W	0.15	S 72 E	0.09
1/24/07 (3)	N 57 W	0.19	S 65 E	0.08
7/18/07	N 52 W	0.26	S 57 W	0.11

**Notes to Table 1B**

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

TABLE 2

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)
<b>MW-1 ("deep")</b>							
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)
1/27/04	21,000	ND<250	1,600	1,500	1,100	3,200	220,000 (5)
7/22/04	31,000	ND<1000	1,500	1,700	1,200	4,100	780,000 (5) (7)
1/20/05	25,000	ND<270	1,300	1,400	1,000	2,800	72,000 (5) (7)
7/20/05A (11)	22,000	ND<150	1,100	1,600	830	2,600	500,000 (5) (7)
7/20/05B (11)	24,000	ND<1000	830	960	670	2,200	N/A
1/26/06	28,000	ND<500	1,600	1,500	1,200	3,500	64,000 (5) (7)
7/27/06 (A) (12)	25,000	ND<250	810	1,000	1,100	3,200	N/A
7/27/06 (C) (12)	15,000	ND<400	880	1,200	950	2,800	2,500,000 (5) (7)
1/25/07	32,000	ND<700	990	960	1100	3,500	170,000 (5)
7/19/07	32,000	ND<1200	600	740	950	2,500	1,100,000 (5)
<b>MW-2 ("deep")</b>							
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)
<b>MW-2 ("deep") continued</b>							
1/27/04	180	ND<5.0	10	ND<0.5	3.2	10	ND<5000 (5) (7)
7/22/04	ND<50	ND<5.0	0.90	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
1/20/05	96	ND<5.0	1.3	ND<0.5	1.5	1.0	ND<5000 (5) (7)
7/20/05	430	ND<5.0	17	1.5	2.3	1.2	ND<5000 (5) (7)
1/26/06	120	ND<5.0	5.3	ND<0.5	0.64	3.3	ND<5000 (5) (7)
7/27/06	89	ND<5.0	3.1	ND<0.5	1.9	3.1	ND<5000 (5) (7)
1/25/07	ND<50	NC<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/19/07	100	NC<5.0	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
<b>MW-3 ("shallow")</b>							
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)
1/27/04	85	ND<5.0	ND<0.5	ND<0.5	ND<0.5	0.87	ND<5000 (5)
7/22/04	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
1/20/05	440	ND<5.0	0.81	0.67	7.1	2.6	ND<5000 (5)
7/20/05	130	ND<5.0	ND<0.5	1.2	ND<0.5	ND<0.5	ND<5000 (5)
1/26/06	790	ND<5.0	1.0	1.0	12	3.4	ND<5000 (5)
7/27/06	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
1/25/07	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
7/19/07	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5)
<b>MW-4 ("deep")</b>							
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)
1/27/04	1,100	ND<10	350	10	17	5.0	31,000 (5) (7)
7/22/04	910	ND<100	210	7.9	19	6.5	54,000 (5) (7)
1/20/05	1,900	ND<200	550	36	63	43	ND<5000 (5) (7)
7/20/05	1,300	ND<25	310	11	36	12	ND<5000 (5) (7)
1/26/06	1,900	ND<75	500	16	40	12	26,000 (5) (7)
7/27/06	980	ND<20	340	13	18	8.8	85,000 (5) (7)
1/25/07	910	ND<120	230	5	15	4	7,100 (5) (7)
7/19/07	960	ND<100	150	3.9	9.9	3.4	ND<5000 (5) (7)

## MW-5 ("deep")

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
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)
1/27/04	7,600	ND<400	220	50	460	290	ND<5000 (5)
7/22/04	10,000	ND<250	200	38	510	400	ND<5000 (5)
1/20/05	8,500	ND<250	130	63	430	280	ND<5000 (5) (7)
7/20/05	7,900	74	110	47	350	250	ND<5000 (5) (7)
1/26/06	8,000	ND<350	170	53	410	270	ND<5000 (5)
7/27/06	5,300	ND<150	110	35	380	250	ND<5000 (5)
1/25/07	1,300	ND<30	17	6.1	34	46	ND<5,000 (5) (7)
7/19/07	10,000	ND<210	99	15	250	200	ND<5,000 (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)
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)
1/27/04	2,600	ND<400	420	20	170	180	ND<5000 (5) (7)
7/22/04	1,200	ND<45	110	3.2	36	17	ND<5000 (5) (7)
1/20/05	3,100	ND<25	280	21	180	250	ND<5000 (5) (7)
7/20/05	730	ND<10	66	4.4	25	26	ND<5000 (5) (7)
1/26/06	1,900	ND<60	180	12	120	140	ND<5000 (5) (7)
7/27/06	670	ND<9	120	5	17	15	ND<5000 (5) (7)
1/25/07	650	ND<15	99	2.7	20	16	ND<5000 (5) (7)
7/19/07	4,200	ND<50	360	18	47	55	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)
1/27/04	3,000	ND<90	350	15	13	18	ND<5000 (5) (7)
7/22/04	3,600	ND<170	440	10	10	25	ND<5000 (5) (7)

Well and Date	TPH Gasoline	MTBE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Oil & Grease HVOC (7)
<b>MW-7 ("deep") continued</b>							
1/20/05	3,200	ND<25	320	31	29	34	19,000 (5) (7)
7/20/05	8,400	ND<500	550	230	300	410	ND<5000 (5) (7)
1/26/06	3,300	ND<300	450	31	45	37	32,000 (5) (7)
7/27/06	3,800	ND<240	530	85	38	94	ND<5,000 (5) (7)
1/25/07	2,500	ND<60	320	6.9	3.3	10	ND<5,000 (5) (7)
7/19/07	2,700	ND<90	280	10.0	5.9	18	ND<5,000 (5) (7)
<b>MW-8 ("shallow")</b>							
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)
1/27/04	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/22/04	ND<50	ND<5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
1/20/05	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/20/05	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
1/26/06	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/27/06	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
1/25/07	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
7/19/07	ND<50	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000 (5) (7)
<b>MW-9 ("shallow")</b>							
6/23/97	32,000	250	340	280	1,500	4,300	ND (5) (7)
10/7/97	33,000	ND<690	880	350	1900	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)
1/27/04	820	ND<20	14	2.6	35	35	ND<5000 (5) (7)
7/22/04	460	ND<25	5.3	1.2	4.0	7.2	ND<5000 (5) (7)
1/20/05a	330	ND<5	6.2	1.5	8.9	12	ND<5000 (5) (7)
1/20/05b (10)	150	ND<5	1.5	0.55	2.6	3.7	N/A
7/20/05	260	ND<5	1.7	2.0	ND<0.5	1.2	ND<5000 (5) (7)
1/26/06	260	ND<5	1.0	2.9	ND<0.5	0.64	ND<5000 (5)
7/27/06	410	ND<5	1.1	1.4	0.52	ND<0.5	ND<5000 (5)
1/25/07	440	ND<5	1.4	1.5	2.9	7.5	ND<5000 (5)
7/19/07	300	ND<20	1.4	2.4	0.51	ND<0.5	ND<5000 (5)
<b>EB-4 ("grab" gw sample)</b>							
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.
- (10) Supplemental sample following initial bailer volume removal.
- (11) Sample discharged from bottom of bailer (A); and top of bailer (B)
- (12) Sample discharged from top of bailer (A); and bottom of bailer (C)







Well and Date	CA	1,2 DCB	1,2 DCA	cis 1,2 DCE	trns 1,2 DCE	1,2 DCP	PCE	TCE	VCL
<b>MW-5 ("deep") continued</b>									
7/27/06	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
1/25/07 (26)	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
7/19/07	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
<b>MW-6 ("shallow")</b>									
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
1/27/04 (17)	ND<2.5	ND<2.5	ND<2.5	8.4	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3.2
7/22/04	ND<0.5	ND<0.5	1.3	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
1/20/05	ND<0.5	ND<0.5	0.99	8.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
7/20/05	ND<0.5	ND<0.5	0.79	4.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65
1/26/06	ND<0.5	ND<0.5	0.81	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.90
7/27/06	ND<0.5	ND<0.5	0.82	4.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.10
1/25/07	ND<0.5	ND<0.5	ND<0.5	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.30
7/19/07	ND<0.5	ND<0.5	0.73	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.30
<b>MW-7 ("deep")</b>									
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
1/27/04	ND<5.0	ND<5.0	ND<5.0	130	ND<5.0	ND<5.0	ND<5.0	20	24
7/22/04	ND<5.0	ND<5.0	ND<5.0	120	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1/20/05	ND<2.5	2.7	ND<2.5	110	ND<2.5	ND<2.5	ND<2.5	20	28
7/20/05	ND<5.0	ND<5.0	ND<5.0	250	ND<5.0	ND<5.0	ND<5.0	ND<5.0	29
1/26/06	ND<5.0	ND<5.0	ND<5.0	110	ND<5.0	ND<5.0	ND<5.0	19	37
7/27/06	ND<5.0	ND<5.0	ND<5.0	350	ND<5.0	ND<5.0	ND<5.0	ND<5.0	55
1/25/07	ND<0.5	ND<0.5	ND<0.5	29	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.9
7/19/07 (27)	ND<0.5	ND<0.5	ND<0.5	210	ND<0.5	ND<0.5	ND<0.5	ND<0.5	31
<b>MW-8 ("shallow")</b>									
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	20	ND<0.5

Well and Date	CA	1,2 DCB	1,2 DCA	cis 1,2 DCE	trns 1,2 DCE	1,2 DCP	PCE	TCE	VCL
MW-8 ("shallow") continued									
1/27/04	ND<0.5	ND<0.5	ND<0.5	4	ND<0.5	ND<0.5	3.1	3.1	ND<0.5
7/22/04	ND<0.5	ND<0.5	ND<0.5	20	ND<0.5	ND<0.5	8.3	13	ND<0.5
1/20/05	ND<0.5	ND<0.5	ND<0.5	6.5	ND<0.5	ND<0.5	5.2	5.1	ND<0.5
7/20/05	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	1.4	1.2	ND<0.5
1/26/06	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	6.6	6.2	ND<0.5
7/27/06	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	ND<0.5	6.8	7.3	ND<0.5
1/25/07	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	6.3	6.9	ND<0.5
7/19/07	ND<0.5	ND<0.5	ND<0.5	0.52	ND<0.5	ND<0.5	0.94	0.73	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
1/27/04	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
7/22/04	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
1/20/05a (19)	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
1/20/05b (20)	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
7/20/05	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
1/26/06	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
7/27/06	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
1/25/07	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
7/19/07 (27)	ND<0.5	0.68	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 (perchloroethene)
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 continued following page

**Table 3 notes 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)
- (17) 1/27/04 additional detections:
  - MW-4: 11 ppb 1,3-Dichlorobenzene
  - MW-4: 9.7 ppb 1,4-Dichlorobenzene
  - MW-4: 12 ppb 1,1,2-Trichloroethane
  - MW-6: 13 ppb 1,1,2-Trichloroethane
- (18) 7/22/04 additional detections:
  - MW-4: 6.9 ppb 1,3-Dichlorobenzene
  - MW-4: 6.2 ppb 1,4-Dichlorobenzene
- (19) 1/20/05 additional detections:
  - MW-1: 60 ppb Chloromethane
  - MW-4: 5.5 ppb 1,3-Dichlorobenzene
  - MW-4: 7.4 ppb 1,4-Dichlorobenzene
  - MW-9: 0.92 ppb Bromodichloromethane
- (20) Supplemental sample following initial bailer volume removal
- (21) Sample discharged from bottom of bailer (A); and top of bailer (B)
- (22) 7/20/05 additional detections:
  - MW-4: 9.3 ppb 1,3-Dichlorobenzene
  - MW-4: 9.1 ppb 1,4-Dichlorobenzene
- (23) 1/26/06 additional detections:
  - MW-4: 8.2 ppb 1,3-Dichlorobenzene
  - MW-4: 8.5 ppb 1,4-Dichlorobenzene
- (24) Sample discharged from top of bailer (A); and bottom of bailer (C)
- (25) 7/27/06 additional detections:
  - MW-3: 5.0 ppb 1,1,2 Trichloroethane
  - MW-4: 6.6 ppb 1,3-Dichlorobenzene
  - MW-4: 6.4 ppb 1,4-Dichlorobenzene
- (26) 1/25/07 additional detections:
  - MW-5: 1.1 ppb Chloroform
- (27) 7/19/07 additional detections:
  - MW-4: 11 ppb 1,3-Dichlorobenzene
  - MW-4: 8.4 ppb 1,4-Dichlorobenzene
  - MW-7: 41 ppb 1,1,2-Trichloroethane
  - MW-9: 1.6 ppb bromodichloromethane

**TABLE 4**

**SUMMARY OF ANALYTICAL TEST RESULTS -  
POLYNUCLEAR AROMATIC HYDROCARBONS (PNA, PAH)**  
(Results reported in parts per billion, ppb/ug/l) (1) (2) (3)

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

**Notes to Table 4**

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

**TABLE 5**

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

<b>Well and Date</b>	<b>Dissolved Oxygen</b>	<b>Ferrous Iron</b>	<b>Nitrate</b>	<b>Sulfate</b>
<b>MW-1 ("deep")</b>				
10/8/96	1.5	ND	ND	ND
1/16/97	1.4	3.6	ND	ND
<b>MW-2 ("deep")</b>				
10/8/96	3.7	ND	3	25
1/16/97	5.4	0.28	3	25
<b>MW-3 ("shallow")</b>				
10/8/96	3.8	ND	ND	5
1/16/97	5.2	ND	ND	5
<b>MW-4 ("deep")</b>				
10/8/96	3.0	ND	ND	ND
1/16/97	4.7	0.75	ND	5
<b>MW-5 ("deep")</b>				
10/8/96	2.8	ND	ND	8
1/16/97	3.4	0.38	ND	9
<b>MW-6 ("shallow")</b>				
10/8/96	2.7	ND	ND	6
1/16/97	2.7	0.28	ND	8
<b>MW-7 ("deep")</b>				
No data: well not in existence at time of testing.				
<b>MW-8 ("shallow")</b>				
No data: well not in existence at time of testing.				
<b>MW-9 ("shallow")</b>				
No data: well not in existence at time of testing.				

(1) ND = non-detect

(2) N/A = not applicable

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

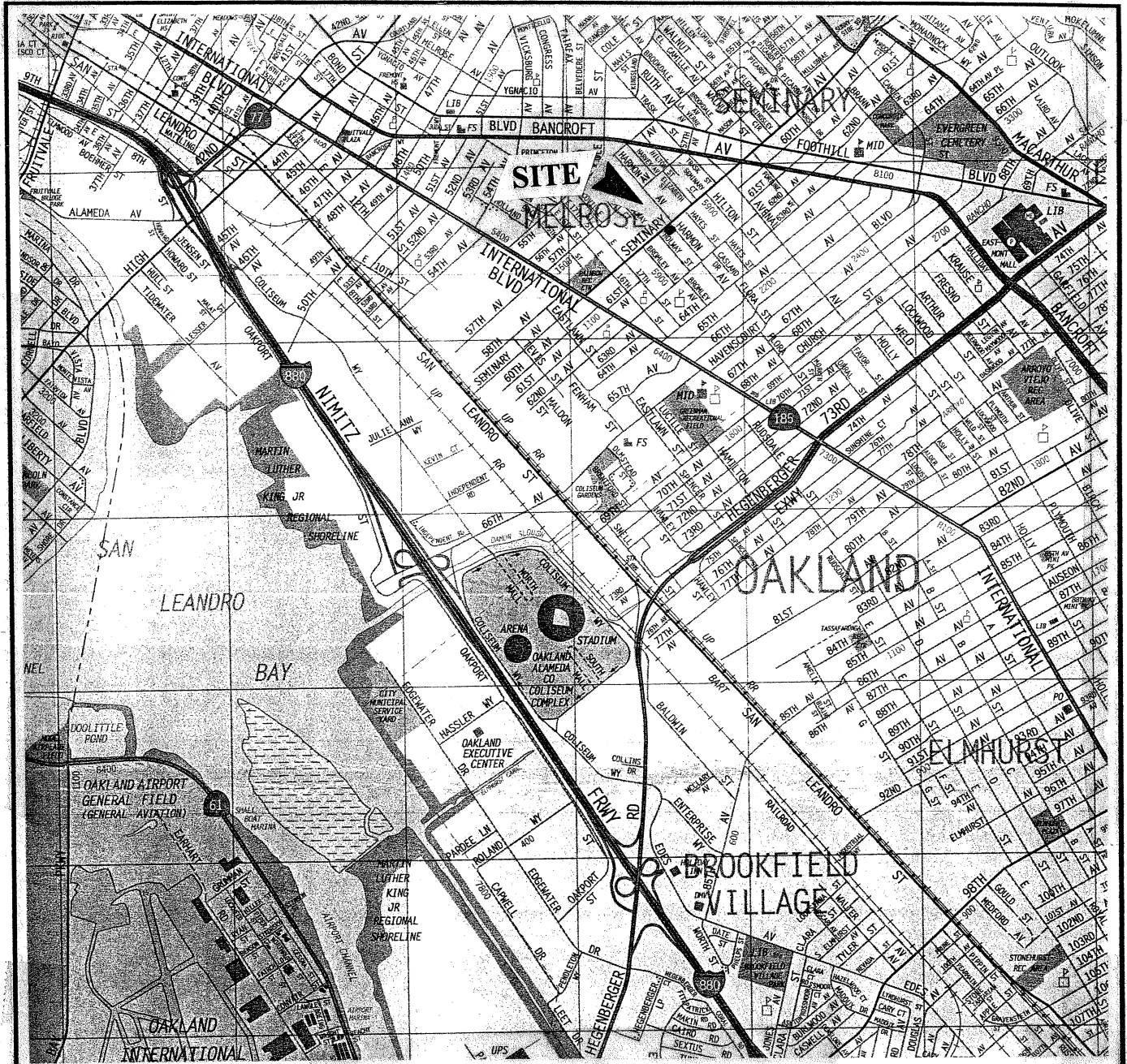
<b>Well and Date</b>	<b>Fuel Fingerprint (2)</b>
<b>MW-1 ("deep")</b>	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles gasoline. Also shows a hydrocarbon pattern between C18 and C30 that resembles oil.
<b>MW-2 ("deep")</b>	
2/3/02	ND < 50 ug/L
<b>MW-3 ("shallow")</b>	
2/3/02	ND < 50 ug/L
<b>MW-4 ("deep")</b>	
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.
<b>MW-5 ("deep")</b>	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
<b>MW-6 ("shallow")</b>	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
<b>MW-7 ("deep")</b>	
2/3/02	Significant hydrocarbon pattern between C6 and C12 that resembles fresh gasoline.
<b>MW-8 ("shallow")</b>	
2/3/02	ND < 50 ug/L
<b>MW-9 ("shallow")</b>	
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 in February 26, 2002 ground water sampling report for chromatograms.

## **FIGURES**



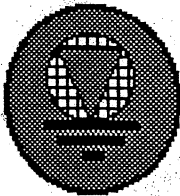


2400 0 2400 4800



Scale in Feet

Source: Thomas Brothers Maps.



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**LOCATION MAP**

1970 Seminary Ave.  
 Oakland, California

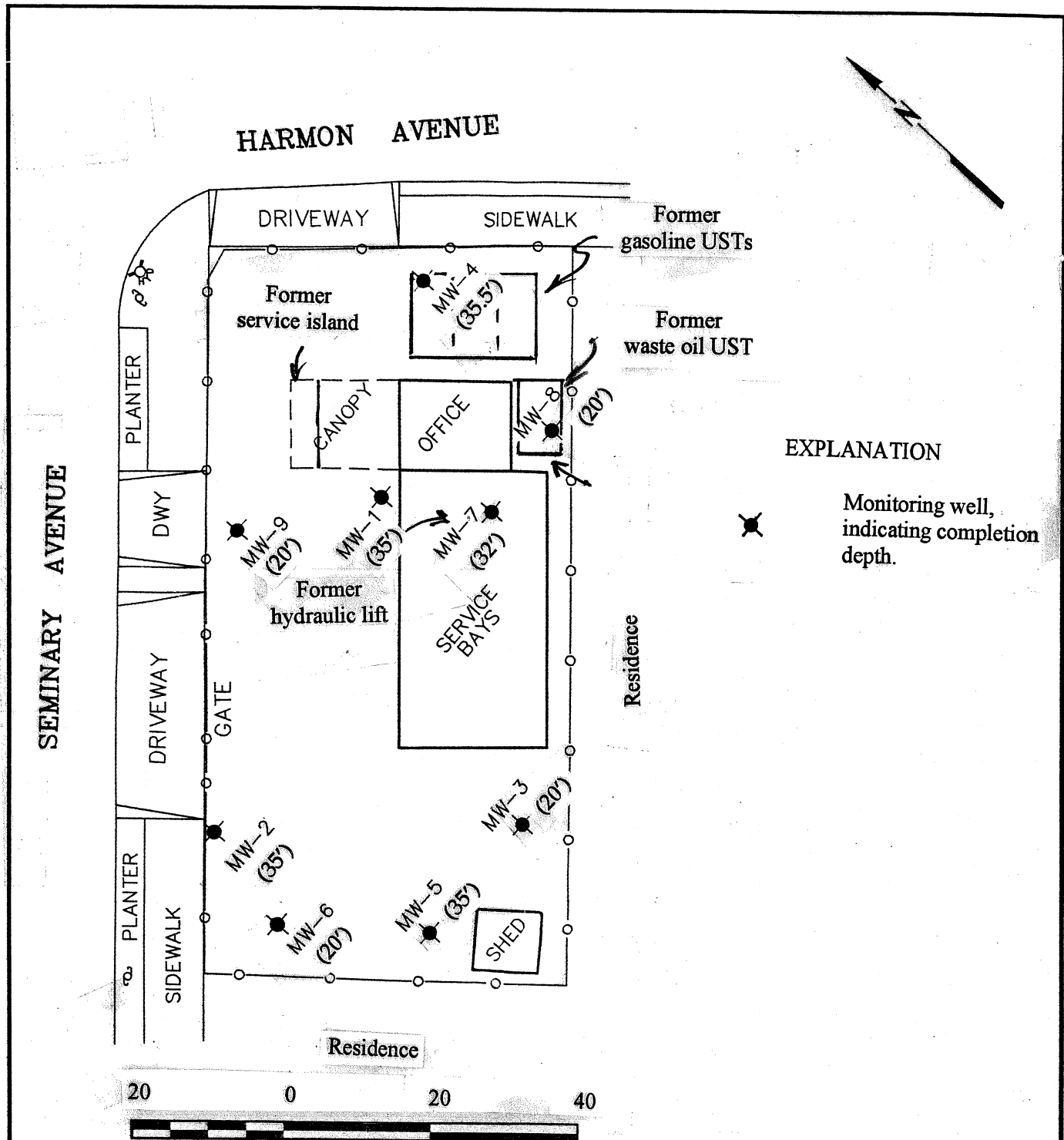
**Project No.**

E-10-1F-565F

**Date**

August 2007

**Figure 1**



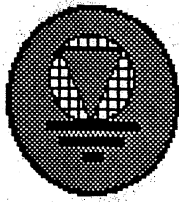
**EXPLANATION**

✱ Monitoring well, indicating completion depth.

**LEGEND**

- ⊕ - EXISTING JOINT UTILITY POLE
- ⊗ - EXISTING FIRE HYDRANT

Base: Virgil Chavez Land Surveying, July 2004



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**SITE PLAN**

1970 Seminary Ave.  
 Oakland, California

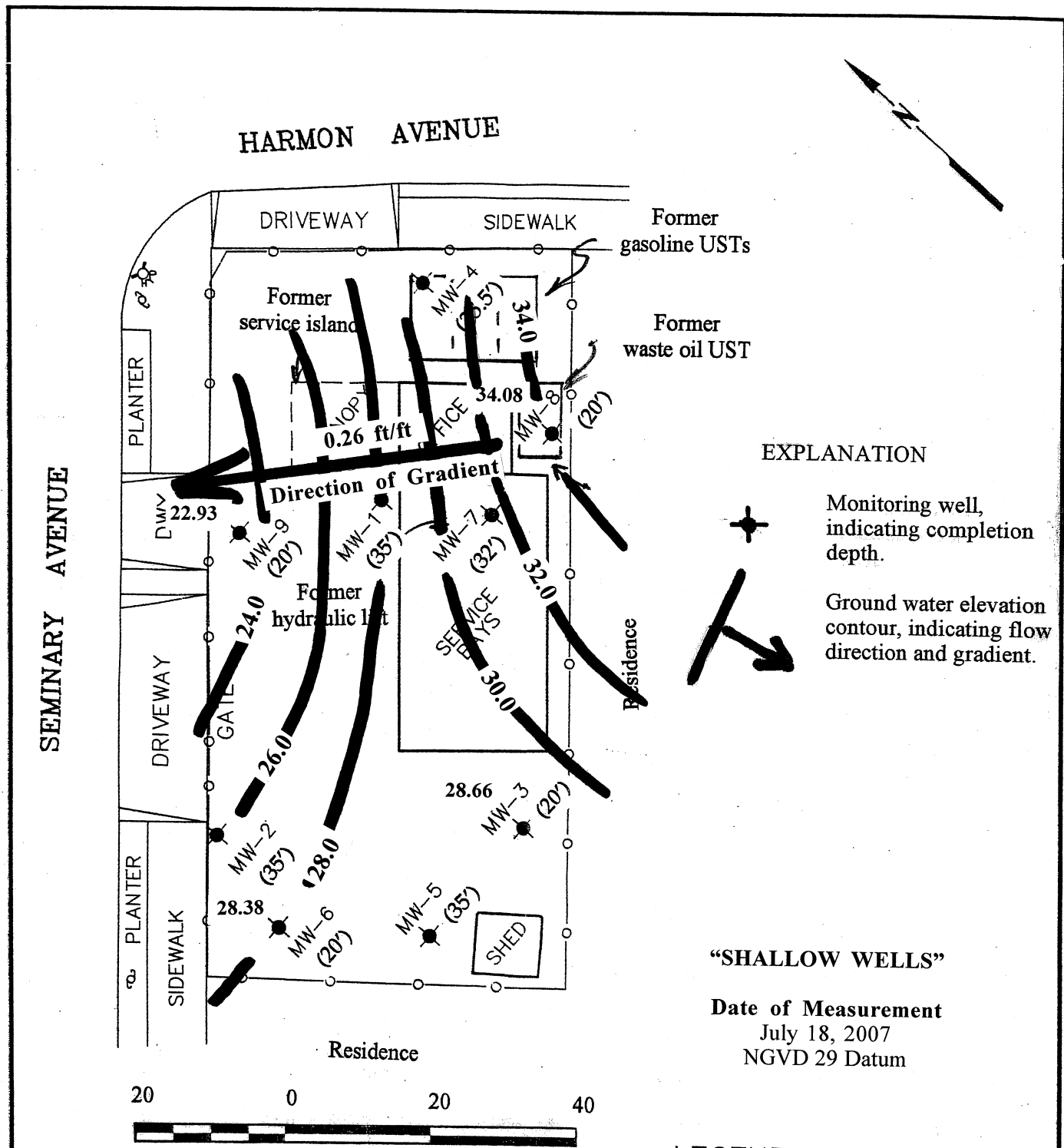
**Project No.**

**Date**

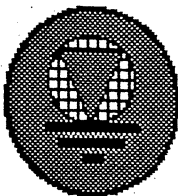
**Figure 2**

E-10-1F-565F

August 2007



Base: Virgil Chavez Land Surveying, July 2004



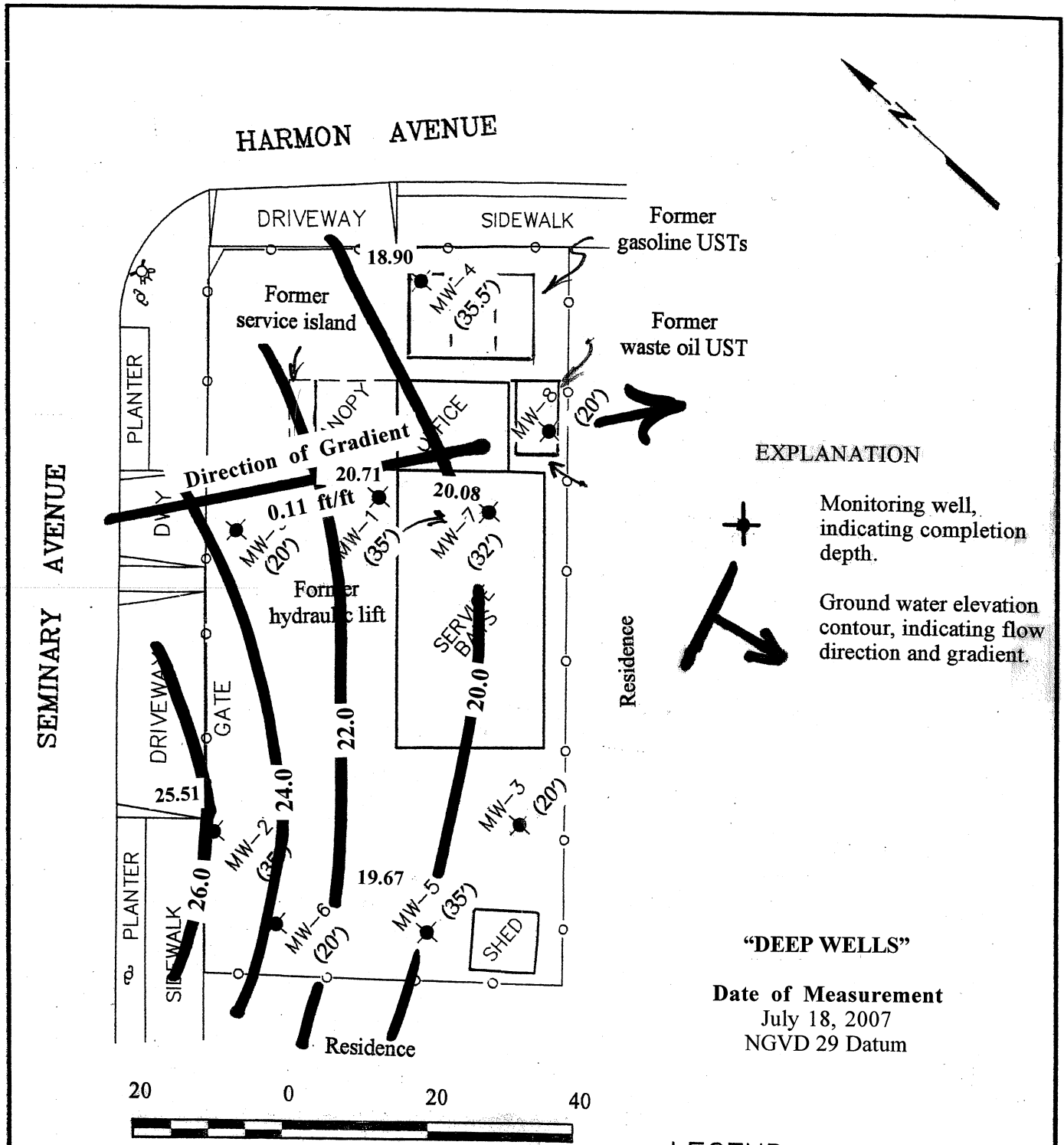
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**GROUND WATER CONTOUR  
AND GRADIENT DIRECTION MAP**

1970 Seminary Ave.  
Oakland, California

Project No.	Date
E-10-1F-565F	August 2007

**Figure 3A**



**EXPLANATION**

Monitoring well, indicating completion depth.

Ground water elevation contour, indicating flow direction and gradient.

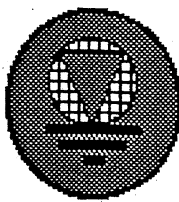
**"DEEP WELLS"**

Date of Measurement  
July 18, 2007  
NGVD 29 Datum

**LEGEND**

- ⊕ - EXISTING JOINT UTILITY POLE
- ⊗ - EXISTING FIRE HYDRANT

Base: Virgil Chavez Land Surveying, July 2004



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**GROUND WATER CONTOUR AND GRADIENT DIRECTION MAP**

1970 Seminary Ave.  
Oakland, California

Project No.	Date
E-10-1F-565F	August 2007

**Figure 3B**

**APPENDIX A**

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

## **Water Sample Logs**

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log MW-1

Project: Gritit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gritit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 1</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 35	Calculated Purge Volume (gal): 10.24
Depth to Water (feet): 19.31	Actual Purged Volume (gal): 11.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1147	2.75	2.75	6.34	709	67.5	Cloudy	Thick sheen, strong odor
1203	5.50	2.75	7.06	739	67.8	Cloudy	
1215	8.25	2.75	6.36	739	68.3	Cloudy	
1232	11.00	2.75	6.47	687	68.8	Cloudy	

### Purge Method

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

### Sample Method

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

Well Integrity: OK; 2" product and strong petroleum odor in initial bailer extraction; strong sheen and odor through following well purge volumes.

Remarks: Well purged and sampled 7/19/07. DTW prior to sampling 22.65'. Four volume purge. JF sampled 3 VOA and 1 amber liter at 15:55.

Signature: \_\_\_\_\_

Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length					Conversion Factors		
Well Casing I.D. (inches)	Cubic				To Convert	Into	Multiply
	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
1.5	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
2.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
3.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
4.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
6.0	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

Sample Location/I.D.: **MW- 1**

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-2**

Project: Gruit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gruit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 2</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 35	Calculated Purge Volume (gal): 13.76
Depth to Water (feet): 13.91	Actual Purged Volume (gal): 14.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	PH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1620	3.5	3.5	6.19	787	72.4	Clear	No sheen, slight odor following initial purge
1630	7.0	3.5	6.30	743	68.8		
1639	10.5	3.5	6.40	743	69.8		
1650	14.0	3.5	6.41	766	71.4		

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; Initial bailer extraction clear, no sheen, no odor.

Remarks: Well measured and purged 7/18/07 and sampled 7/19/07. Four volume purge. DTW following purge 31.45'; well recovered to 23.77' prior to sampling. JF sampled 3 VOA and 1 amber liter at 1512.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
2.0	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
3.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
4.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
6.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
6.0	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

Sample Location/I.D.: **MW- 2**



# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-3**

Project: Gruit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gruit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 3</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 20	Calculated Purge Volume (gal): 5.68
Depth to Water (feet): 11.29	Actual Purged Volume (gal): 6.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	PH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1712	1.5	1.5	6.42	476	66.0	Clear	No sheen or odor
1716	3.0	1.5	6.35	472	65.1	Cloudy	
1721	4.5	1.5	6.34	474	64.8	Cloudy	
1727	6.0	1.5	6.39	479	65.4	Cloudy	

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; no product or sheen, no odor

Remarks: Purged 7/18/07 and sampled 7/19/07. Four volume purge; well evacuated following purging. Depth to water 17.40' prior to sampling following day. JF sampled 3 VOA and 1 amber liter at 1320.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Gal/ft.	Ft/ft	L/M	L/Ft	To Convert	Into	Multiply
1.5	0.0918	0.0123	1.140	0.3475	Ft of Water	Lbs/sp inch	0.4335
2.0	<b>0.1632</b>	0.0218	2.027	0.6178	Lbs/Sq inch	Ft of Water	2.3070
3.0	0.3672	0.0491	4.560	1.390	Cubic Feet	Gallons	7.2800
4.0	0.6528	0.0873	8.107	2.4710	Gallons	Liters	3.7850
6.0	1.4690	0.1963	18.240	5.560	Feet	Meters	0.30048
					Inches	Centimeters	2.5400

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log MW-4

Project: Gritmit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gritmit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 4</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 35.5	Calculated Purge Volume (gal): 9.72
Depth to Water (feet): 20.59	Actual Purged Volume (gal): 9.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
0935	2.5	2.5	6.49	606	67.0	Clear initially	
0942	5.0	2.5	6.49	608	66.8	Cloudy, light gray	Slight sheen & odor
0951	7.7	2.5	6.43	670	68.2		
1001	9.0	1.5	6.52	651	67.8		

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; clear, no product, no sheen, slight odor initially; slight subsequent sheen, moderate petroleum odor after second volume purge.

Remarks: Purged and sampled 7/19/07. Three and partial fourth volume purge; further purge not conducted due to evacuation of well. Well recovered to 26.01' prior to sampling. JF sampled 3 VOA, 1 amber liter at 15:05.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
2.0	<b>0.1632</b>	0.0218	2.027	0.6178	Lbs/Sq inch	Ft of Water	2.3070
3.0	0.3672	0.0491	4.560	1.390	Cubic Feet	Gallons	7.2800
4.0	0.6528	0.0873	8.107	2.4710	Gallons	Liters	3.7850
6.0	1.4690	0.1963	18.240	5.560	Feet	Meters	0.30048
					Inches	Centimeters	2.5400

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-5**

Project: Gritmit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gritmit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW - 5</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 35	Calculated Purge Volume (gal): 9.72
Depth to Water (feet): 20.12	Actual Purged Volume (gal): 9.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	PH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1747	2.5	2.5	6.32	603	68.2	Clear	No sheen, sl. odor.
1756	5.0	2.5	6.35	632	69.7	Cloudy, light tan	Slight sheen & odor
1803	7.5	2.5	6.37	687	67.5		
1814	9.0	1.5	6.59	681	67.2		

### Purge Method

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

### Sample Method

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

Well Integrity: OK; initial bailer clear, no sheen, no odor.

Remarks: Well purged 7/18/07 and sampled 7/19/07. Well evacuated during fourth purge volume; recovered to 21.17' prior to sampling. JF sampled 3 VOA and 1 amber liter @ 13:35.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
1.5	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
2.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
3.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
4.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
6.0	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log MW-6

Project: Gruit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gruit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 6</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 20	Calculated Purge Volume (gal): 5.84
Depth to Water (feet): 11.06	Actual Purged Volume (gal): 5.5
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1832	1.5	1.5	6.32	669	68.2	Clear	No prod or sheen, slight odor
1837	3.0	1.5	6.34	662	67.5		
1842	4.5	1.5	6.35	654	66.8	Sl. Cloudy, tan	
1850	5.5	1.0	6.52	670	67.2		

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; no product, odor or sheen on initial bailing.

Remarks: Well and sampled 7/19/07. Three volume purge; further purge not conducted to facilitate recovery. Well recovered to 11.33' prior to sampling. JF sampled 3 VOA and 1 amber liter at 13:50.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
1.5	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
2.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
3.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
4.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
6.0	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-7**

Project: Gritmit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gritmit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 7</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 32	Calculated Purge Volume (gal): 8.0
Depth to Water (feet): 19.76	Actual Purged Volume (gal): 8.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
0840	2.0	2.0	6.56	679	65.3	Clear	No sheen, slight odor
0850	4.0	2.0	6.62	633	64.9	Cloudy	No sheen, slight odor
0858	6.0	2.0	6.69	608	65.5		
0907	8.0	2.0	6.71	593	65.1		

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; initial bailer clear, no sheen, slight odor (H2s?).

Remarks: Well purged and sampled 7/19/07. Four volume purge. DTW following purge 27.43'; well recovered to 22.25' prior to sampling. JF sampled 3 VOA and 1 amber liter at 14:50.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
2.0	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
3.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
4.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
6.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

Sample Location/I.D.: **MW- 7**

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-8**

Project: Gruit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gruit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 8</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 20	Calculated Purge Volume (gal): 9.52
Depth to Water (feet): 5.41	Actual Purged Volume (gal): 10.0
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	PH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1020	2.5	2.5	6.72	181	68.1	Clear	No sheen or odor
1027	5.0	2.5	6.66	177	67.9	Light tan	
1033	7.5	2.5	6.71	177	68.5		
1040	10.0	2.5	6.70	178	69.1		

### Purge Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Submersible Pump	Centrifugal Pump	Dipper	Other
Pneumatic Displ. Pump			

### Sample Method

2" Bladder Pump	<b>Bailer</b>	Well Wizard	<b>Dedicated</b>
Surface Sampler	Dipper	Fultz Pump	Other

Well Integrity: OK; initial bailer clear, no product or sheen, no odor.

Remarks: Well purged and sampled 7/19/07. Four volume purge. DTW 5.49' following purge and 5.48' prior to sampling. JF sampled 3 VOA and 1 amber liter at 15:27.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
2.0	0.0918	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
3.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
4.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
6.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

Sample Location/I.D.: **MW- 8**

# HOEXTER CONSULTING INC. Groundwater Sampling Field Log **MW-9**

Project: Gruit, 1970 Seminary Ave, Oakland, CA.	Project No.: E-10-1F-565F
Client: D. Gruit c/o A. LaMarca	Date: July 18/19, 2007
Project Manager: D. F. Hoexter	Sample Location/I.D.: <b>MW- 9</b>
Sampler: J. Forsythe	Lab ID.:

Casing Diameter:      **2 inch**              3 inch              4 inch              6 inch              Other

Depth of Well (feet): 20	Calculated Purge Volume (gal): 4.08
Depth to Water (feet): 13.77	Actual Purged Volume (gal): 3+
Sample Depth (feet):	Start Time:

### Field Measurements

Time	Cum	Volume (gal.)	PH (units)	E.C. (umhos/cm)	Temperature (Deg. F)	Color (Visual)	Other
1901	1.0	1.0	6.52	606	68.8	Clear	No product or sheen, sl. odor
1905	2.0	1.0	6.52	604	58.2	Clear	
1909	3.0	1.0	6.52	602	68.2		
1915	3+	<1	6.6	615	68.0		

### Purge Method

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

### Sample Method

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

Well Integrity: OK. No odor, product or sheen on initial bailer extraction.

Remarks: Well purged and sampled 7/18/07. Three + volume purge; well evacuated during fourth purge volume. Well recovered to 15.86' prior to sampling. JF sampled 3 VOA and 1 amber liter at 14:15.

Signature: \_\_\_\_\_

Well Casing I.D. (inches)	Volumes Per Unit Length Selected Well Casing Diameters – Volumes Per Unit Length				Conversion Factors		
	Cubic				To Convert	Into	Multiply
1.5	Gal/ft.	Ft/ft	L/M	L/Ft	Ft of Water	Lbs/sp inch	0.4335
2.0	<b>0.0918</b>	0.0123	1.140	0.3475	Lbs/Sq inch	Ft of Water	2.3070
3.0	<b>0.1632</b>	0.0218	2.027	0.6178	Cubic Feet	Gallons	7.2800
4.0	0.3672	0.0491	4.560	1.390	Gallons	Liters	3.7850
6.0	0.6528	0.0873	8.107	2.4710	Feet	Meters	0.30048
	1.4690	0.1963	18.240	5.560	Inches	Centimeters	2.5400

Sample Location/I.D.: **MW- 9**

**Chain of Custody  
and  
Analytical Test Results**





**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology 734 Torrey Court Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Gritmit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Reported: 07/27/07
	Client P.O.:	Date Completed: 07/27/07

**WorkOrder: 0707429**

July 27, 2007

Dear David:

Enclosed are:

- 1). the results of 9 analyzed samples from your #E-10-1F-565F; Gritmit 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.

Best regards,

Angela Rydelius, Lab Manager

0707429 P5 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Number		Project Name/Location						Number of Containers	Analytical Tests					Sample Containers Preserved	Remarks	
E-10-1F-85F		Grinit 1970 Saminary Avo. Oakland CA							TPH	G-MIBTA	SPID MUC	SM STD P/F/O/I				
Boring/Wall Number	Date	Time	Soil	Water	Sample Location or Depth	Type of Containers										
MW-1	7/19/07	15:55			Screen present	VJA	3	X	X					X	HCL	1
		15:55				Amber L.	1			X						2
-2		12:55				VJA	3	X	X					X	HCL	3
		12:55				Amber L.	1			X						4
-3		13:20				VJA	3	X	X					X	HCL	5
		13:20				Amber L.	1			X						6
-4		15:05				VJA	3	X	X					X	HCL	7
		15:05				Amber L.	1			X						8
-5		13:35				VJA	3	X	X					X	HCL	9
		13:35				Amber L.	1			X						10
-6		13:50				VJA	3	X	X					X	HCL	11
		13:50				Amber L.	1			X						12
-7		14:50				VJA	3	X	X					X	HCL	13
	7/19/07	14:50				Amber L.	1			X						14
X																15

Relinquished by: (Signature) <i>J. Foy</i>	Date/Time 7/19/07 17:34	Received by: (Signature) <i>Envirotech T.L.</i>
Relinquished by: (Signature) <i>Enviro-Tech SR</i>	Date/Time 7/19/07 1921	Received by: (Signature) <i>Ruby</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 7/19/1945	Received for Laboratory by: (Signature) <i>[Signature]</i>

Ship To: Mc Campbell Aved.  
Pittsburg CA

Attention: \_\_\_\_\_

Phone No: \_\_\_\_\_

Requester Turnaround: Normal Contact: David F. Hoexter

Time: \_\_\_\_\_

Remarks: EDF please

**Hoexter Consulting Inc.**  
Engineering and Environmental Geology  
734 Torrey Court - Palo Alto, CA 94303  
Phone: 650.494.2505 Fax: 650.494.2515  
Email: david@hoexterconsulting.com

R.E. Ruby 7:45 P.M.

1 of 2

CHAIN-OF-CUSTODY RECORD

Project Number		Project Name/Location				Analytical Tests		Sample Containers Preserved		Remarks			
E-10-1F-905F		Grimit 1970 Seminary Oakland CA.				TPH G MATEX SWD MVOC SM STD B/F/J							
Sampler's Name (Printed)					Number of Containers								
J. Forsyth													
Boring/Well Number	Date	Time	Soil	Water	Sample Location or Depth	Type of Containers	TPH G	MATEX	SWD MVOC	SM STD B/F/J	Sample Containers Preserved	Remarks	
* TW-8	7/19/07	15:27				VQA	X	X				HCL	1
		15:27				Ambered			X				2
(+) -9	7/19/07	14:15				VQA	X	X			X	HCL	3
	7/19/07	14:15				Ambered			X				4
													5
													6
													7
													8
													9
													10
													11
													12
													13
													14
													15

Relinquished by: (Signature) <i>J. Forsyth</i>	Date/Time 7/19/07 17:34	Received by: (Signature) <i>EnviroTech T.2</i>
Relinquished by: (Signature) <i>EnviroTech SR.</i>	Date/Time 7/19 11:21	Received by: (Signature) <i>Roby J. J.</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time	Received for Laboratory by: (Signature)

Ship To: McCoy Blvd.  
P. Tibbels CA

Attention: \_\_\_\_\_  
Phone No: \_\_\_\_\_

Requested Turnaround: Normal Contact: David F. Hoexter  
Time:  
Remarks: EDF

**Hoexter Consulting Inc.**  
Engineering and Environmental Geology  
734 Torrey Court • Palo Alto, CA 94303  
Phone: 650.494.2505 Fax: 650.494.2515  
Email: david@hoexterconsulting.com

E. Tibbels July 2:45 P.M.

**McCampbell Analytical, Inc.**



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0707429

ClientID: HCEP

EDF     Excel     Fax     Email     HardCopy     ThirdParty

**Report to:**

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

Email: david@hoexterconsulting.com  
TEL: (650) 494-250    FAX: (650) 494-251  
ProjectNo: #E-10-1F-565F; Gritmit  
PO:

**Bill to**

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

**Requested TAT: 5 days**

**Date Received: 07/19/2007**

**Date Printed: 07/27/2007**

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0707429-001	MW-1	Water	07/19/07 3:55:00	<input type="checkbox"/>	C	B	A	A									
0707429-002	MW-2	Water	07/19/07 12:55:00	<input type="checkbox"/>	C	B	A										
0707429-003	MW-3	Water	07/19/07 1:20:00	<input type="checkbox"/>	C	B	A										
0707429-004	MW-4	Water	07/19/07 3:05:00	<input type="checkbox"/>	C	B	A										
0707429-005	MW-5	Water	07/19/07 1:35:00	<input type="checkbox"/>	C	B	A										
0707429-006	MW-6	Water	07/19/07 1:50:00	<input type="checkbox"/>	C	B	A										
0707429-007	MW-7	Water	07/19/07 2:50:00	<input type="checkbox"/>	C	B	A										
0707429-008	MW-8	Water	07/19/07 3:27:00	<input type="checkbox"/>	C	B	A										
0707429-009	MW-9	Water	07/19/07 2:15:00	<input type="checkbox"/>	C	B	A										

**Test Legend:**

1	5520B SG W	2	8010BMS W	3	G-MBTEX W	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

**Prepared by: Rosa 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.



### Sample Receipt Checklist

Client Name: **Hoexter Consulting Eng. Geology**

Date and Time Received: **7/19/07 8:05:12 PM**

Project Name: **#E-10-1F-565F; Gritmit**

Checklist completed and reviewed by: **Rosa Venegas**

WorkOrder N°: **0707429** Matrix Water

Carrier: Client Drop-In

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 14.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



# McC Campbell Analytical, Inc.

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1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology  734 Torrey Court  Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Grit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Extracted: 07/19/07
	Client P.O.:	Date Analyzed 07/24/07

### Petroleum Oil & Grease with Silica Gel Clean-Up\*

Analytical methods: SM5520B/F

Work Order: 0707429

Lab ID	Client ID	Matrix	POG	DF	% SS
0707429-001C	MW-1	W	1100,h	1	N/A
0707429-002C	MW-2	W	ND	1	N/A
0707429-003C	MW-3	W	ND	1	N/A
0707429-004C	MW-4	W	ND,h	1	N/A
0707429-005C	MW-5	W	ND	1	N/A
0707429-006C	MW-6	W	ND	1	N/A
0707429-007C	MW-7	W	ND	1	N/A
0707429-008C	MW-8	W	ND	1	N/A
0707429-009C	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 and all TCLP & SPLP extracts 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 ~1 vol. % sediment; j) results are reported on a dry weight basis.

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Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology  734 Torreya Court  Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Grimit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Extracted: 07/25/07-07/26/07
	Client P.O.:	Date Analyzed 07/25/07-07/26/07

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0707429

Lab ID	0707429-001B	0707429-002B	0707429-003B	0707429-004B	Reporting Limit for DF = 1	
Client ID	MW-1	MW-2	MW-3	MW-4	S	W
Matrix	W	W	W	W		
DF	1000	1	1	10		
Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND<500	ND	ND	ND<5.0	NA	0.5
Bromoform	ND<500	ND	ND	ND<5.0	NA	0.5
Bromomethane	ND<500	ND	ND	ND<5.0	NA	0.5
Carbon Tetrachloride	ND<500	ND	ND	ND<5.0	NA	0.5
Chlorobenzene	ND<500	ND	ND	ND<5.0	NA	0.5
Chloroethane	ND<500	ND	ND	ND<5.0	NA	0.5
2-Chloroethyl Vinyl Ether	ND<1000	ND	ND	ND<10	NA	1.0
Chloroform	ND<500	ND	ND	ND<5.0	NA	0.5
Chloromethane	ND<500	ND	ND	ND<5.0	NA	0.5
Dibromochloromethane	ND<500	ND	ND	ND<5.0	NA	0.5
1,2-Dichlorobenzene	ND<500	ND	ND	28	NA	0.5
1,3-Dichlorobenzene	ND<500	ND	ND	11	NA	0.5
1,4-Dichlorobenzene	ND<500	ND	ND	8.4	NA	0.5
Dichlorodifluoromethane	ND<500	ND	ND	ND<5.0	NA	0.5
1,1-Dichloroethane	ND<500	ND	ND	ND<5.0	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<500	5.3	ND	ND<5.0	NA	0.5
1,1-Dichloroethene	ND<500	ND	ND	ND<5.0	NA	0.5
cis-1,2-Dichloroethene	ND<500	4.6	ND	180	NA	0.5
trans-1,2-Dichloroethene	ND<500	ND	ND	27	NA	0.5
1,2-Dichloropropane	ND<500	ND	ND	ND<5.0	NA	0.5
cis-1,3-Dichloropropene	ND<500	ND	ND	ND<5.0	NA	0.5
trans-1,3-Dichloropropene	ND<500	ND	ND	ND<5.0	NA	0.5
Methylene chloride	ND<500	ND	ND	ND<5.0	NA	0.5
1,1,2,2-Tetrachloroethane	ND<500	ND	ND	ND<5.0	NA	0.5
Tetrachloroethene	ND<500	ND	ND	ND<5.0	NA	0.5
1,1,1-Trichloroethane	ND<500	ND	ND	ND<5.0	NA	0.5
1,1,2-Trichloroethane	ND<500	ND	ND	ND<5.0	NA	0.5
Trichloroethene	ND<500	7.5	ND	21	NA	0.5
Trichlorofluoromethane	ND<500	ND	ND	ND<5.0	NA	0.5
Vinyl Chloride	ND<500	ND	ND	460	NA	0.5

**Surrogate Recoveries (%)**

%SS1:	103	112	114	115	
%SS2:	101	101	100	101	
%SS3:	96	96	98	96	
<b>Comments</b>	h,j			h	

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

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 ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology  734 Torreya Court  Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Grimit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Extracted: 07/25/07-07/26/07
	Client P.O.:	Date Analyzed 07/25/07-07/26/07

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0707429

Lab ID	0707429-005B	0707429-006B	0707429-007B	0707429-008B	Reporting Limit for DF=1	
Client ID	MW-5	MW-6	MW-7	MW-8	S	W
Matrix	W	W	W	W		
DF	1	1	10	1		

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND<5.0	ND	NA	0.5
Bromoform	ND	ND	ND<5.0	ND	NA	0.5
Bromomethane	ND	ND	ND<5.0	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND<5.0	ND	NA	0.5
Chlorobenzene	ND	ND	ND<5.0	ND	NA	0.5
Chloroethane	ND	ND	ND<5.0	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND	ND<10	ND	NA	1.0
Chloroform	ND	ND	ND<5.0	ND	NA	0.5
Chloromethane	ND	ND	ND<5.0	ND	NA	0.5
Dibromochloromethane	ND	ND	ND<5.0	ND	NA	0.5
1,2-Dichlorobenzene	0.51	ND	ND<5.0	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND<5.0	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND<5.0	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND<5.0	ND	NA	0.5
1,1-Dichloroethane	ND	ND	ND<5.0	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	0.73	ND<5.0	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND<5.0	ND	NA	0.5
cis-1,2-Dichloroethene	ND	2.2	210	0.52	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND<5.0	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND<5.0	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND<5.0	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND<5.0	ND	NA	0.5
Methylene chloride	ND	ND	ND<5.0	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND<5.0	ND	NA	0.5
Tetrachloroethene	ND	ND	ND<5.0	0.94	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND<5.0	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	41	ND	NA	0.5
Trichloroethene	ND	ND	ND<5.0	0.73	NA	0.5
Trichlorofluoromethane	ND	ND	ND<5.0	ND	NA	0.5
Vinyl Chloride	ND	ND	31	ND	NA	0.5

**Surrogate Recoveries (%)**

%SS1:	111	110	112	115	
%SS2:	100	99	100	101	
%SS3:	95	100	97	98	
<b>Comments</b>					

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

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 ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology  734 Torreya Court  Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Grimit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Extracted: 07/25/07-07/26/07
	Client P.O.:	Date Analyzed 07/25/07-07/26/07

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0707429

Lab ID	0707429-009B				Reporting Limit for DF =1	
Client ID	MW-9					
Matrix	W				S	W
DF	1					

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	1.6				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	1.0
Chloroform	ND				NA	0.5
Chloromethane	ND				NA	0.5
Dibromochloromethane	ND				NA	0.5
1,2-Dichlorobenzene	0.68				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 (1,2-DCA)	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 (%)

%SS1:	114					
%SS2:	102					
%SS3:	99					

#### Comments

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

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 ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Hoexter Consulting Eng. Geology  734 Torrey Court  Palo Alto, CA 94303-4160	Client Project ID: #E-10-1F-565F; Gritmit	Date Sampled: 07/19/07
		Date Received: 07/19/07
	Client Contact: David Hoexter	Date Extracted: 07/21/07-07/23/07
	Client P.O.:	Date Analyzed 07/21/07-07/23/07

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0707429

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	32,000,a,h	ND<1200	600	740	950	2500	100	113
002A	MW-2	W	100,a	ND	1.1	ND	ND	ND	1	109
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	109
004A	MW-4	W	960,a,h	ND<100	150	3.9	9.9	3.4	2	126
005A	MW-5	W	10,000,a	ND<210	99	15	250	200	10	99
006A	MW-6	W	4200,a	ND<50	360	18	47	55	10	104
007A	MW-7	W	2700,a	ND<90	280	10	5.9	18	10	100
008A	MW-8	W	ND	ND	ND	ND	ND	ND	1	112
009A	MW-9	W	300,a,m	ND<20	1.4	2.4	0.51	ND	1	103

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	1	µg/L
	S	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 mg/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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0707429

EPA Method SW8260B		Extraction SW5030B				BatchID: 29408			Spiked Sample ID: 0707395-009B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	122	121	0.933	120	121	0.852	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	116	112	3.49	107	110	2.77	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	116	116	0	106	104	1.43	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	102	104	1.83	95	98.2	3.34	70 - 130	30	70 - 130	30
%SS1:	115	10	98	93	4.54	89	94	5.43	70 - 130	30	70 - 130	30
%SS2:	97	10	98	100	2.91	101	98	3.37	70 - 130	30	70 - 130	30
%SS3:	96	10	93	95	2.90	92	91	0.931	70 - 130	30	70 - 130	30

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

NONE

BATCH 29408 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0707429-001B	07/19/07 3:55 PM	07/25/07	07/25/07 2:46 AM				

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 / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the 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.



### QC SUMMARY REPORT FOR SM5520B/F

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0707429

EPA Method SM5520B/F	Extraction SM5520B/F			BatchID: 29411				Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCSD-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
POG	N/A	100	N/A	N/A	N/A	110	110	0	N/A	N/A	70 - 130	25

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

NONE

#### BATCH 29411 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0707429-001C	07/19/07 3:55 PM	07/19/07	07/24/07 7:20 PM	0707429-002C	07/19/07 12:55 PM	07/19/07	07/24/07 7:25 PM
0707429-003C	07/19/07 1:20 PM	07/19/07	07/24/07 7:30 PM	0707429-004C	07/19/07 3:05 PM	07/19/07	07/24/07 7:35 PM
0707429-005C	07/19/07 1:35 PM	07/19/07	07/24/07 7:40 PM	0707429-006C	07/19/07 1:50 PM	07/19/07	07/24/07 7:45 PM
0707429-007C	07/19/07 2:50 PM	07/19/07	07/24/07 7:50 PM	0707429-008C	07/19/07 3:27 PM	07/19/07	07/24/07 7:55 PM
0707429-009C	07/19/07 2:15 PM	07/19/07	07/24/07 8:00 PM				

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 / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the 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.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0707429

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 29424			Spiked Sample ID: 0707411-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>f</sup>	ND	60	96.6	105	8.01	105	105	0	70 - 130	30	70 - 130	30
MTBE	ND	10	80.7	74.1	6.28	103	90.3	13.0	70 - 130	30	70 - 130	30
Benzene	ND	10	99.1	101	1.79	112	104	7.54	70 - 130	30	70 - 130	30
Toluene	ND	10	103	90.1	13.4	119	116	2.56	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	101	95.8	5.69	118	111	5.73	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.3	91	5.69	113	107	6.06	70 - 130	30	70 - 130	30
%SS:	102	10	105	101	4.48	99	105	6.18	70 - 130	30	70 - 130	30

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

NONE

#### BATCH 29424 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0707429-001A	07/19/07 3:55 PM	07/21/07	07/21/07 6:31 PM	0707429-002A	07/19/07 12:55 PM	07/22/07	07/22/07 12:39 AM
0707429-003A	07/19/07 1:20 PM	07/22/07	07/22/07 1:09 AM	0707429-004A	07/19/07 3:05 PM	07/23/07	07/23/07 10:06 PM
0707429-005A	07/19/07 1:35 PM	07/22/07	07/22/07 4:40 AM	0707429-006A	07/19/07 1:50 PM	07/23/07	07/23/07 5:56 PM
0707429-007A	07/19/07 2:50 PM	07/21/07	07/21/07 9:19 PM	0707429-008A	07/19/07 3:27 PM	07/22/07	07/22/07 1:39 AM
0707429-009A	07/19/07 2:15 PM	07/22/07	07/22/07 4:10 AM				

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 / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0707429

EPA Method SW8260B	Extraction SW5030B			BatchID: 29441			Spiked Sample ID: 0707429-003B					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCSD-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	117	115	1.65	120	116	3.02	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	101	106	5.35	107	107	0	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	118	109	8.41	112	105	6.66	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	92.9	96.4	3.77	96.4	102	5.27	70 - 130	30	70 - 130	30
%SS1:	114	10	96	99	3.71	111	109	1.68	70 - 130	30	70 - 130	30
%SS2:	100	10	95	93	1.79	98	100	1.20	70 - 130	30	70 - 130	30
%SS3:	98	10	90	87	3.88	94	93	1.15	70 - 130	30	70 - 130	30

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

NONE

#### BATCH 29441 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0707429-002B	07/19/07 12:55 PM	07/25/07	07/25/07 3:31 AM	0707429-003B	07/19/07 1:20 PM	07/25/07	07/25/07 4:16 AM
0707429-004B	07/19/07 3:05 PM	07/25/07	07/25/07 5:00 AM	0707429-005B	07/19/07 1:35 PM	07/26/07	07/26/07 9:45 PM
0707429-006B	07/19/07 1:50 PM	07/25/07	07/25/07 6:29 AM	0707429-007B	07/19/07 2:50 PM	07/25/07	07/25/07 7:14 AM
0707429-008B	07/19/07 3:27 PM	07/25/07	07/25/07 7:59 AM	0707429-009B	07/19/07 2:15 PM	07/26/07	07/26/07 6:40 AM

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 / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the 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.

**APPENDIX B**

**GEOTRACKER SUBMITTAL DOCUMENTATION**

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<b><u>Global ID:</u></b>	T0600100667
<b><u>Title:</u></b>	Seminary GW Sampling Report Jan 07
<b><u>Document Type:</u></b>	Monitoring Report - Semi-annual
<b><u>Submittal Type:</u></b>	GEO_REPORT
<b><u>Submittal Date/Time:</u></b>	4/17/2007 10:47:39 PM
<b><u>Confirmation Number:</u></b>	5937443614

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**Submittal Title:** GEO\_WELL\_3Q07  
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SERVICE  
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**Confirmation Number:** 1475085198

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SEMINARY 7/18/07

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## SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	Hoexter Consulting
<u>USER NAME:</u>	DAVID F. HOEXTER
<u>DATE CHECKED:</u>	8/15/2007 10:21:02 PM
<u>GLOBAL ID:</u>	T0600100667
<u>FILE UPLOADED:</u>	Seminary0707429.zip

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**GRIMIT AUTO REPAIR & SERVICE**  
 1970 SEMINARY  
 OAKLAND, CA 94621

**Regional Board - Case #: 01-0723**  
 SAN FRANCISCO BAY RWQCB  
 (REGION 2)  
**Local Agency (lead agency) - Case #:**  
**RO0000413**  
 ALAMEDA COUNTY LOP - (DH)

### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	9
# FIELD POINTS WITH DETECTIONS	8
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

### METHOD QA/QC REPORT

METHODS USED A5520B,SW8021F,SW8260B

TESTED FOR REQUIRED ANALYTES? N

**MISSING PARAMETERS NOT TESTED:**

- SW8021F REQUIRES ETBE TO BE TESTED
- SW8021F REQUIRES TAME TO BE TESTED
- SW8021F REQUIRES DIPE TO BE TESTED
- SW8021F REQUIRES TBA TO BE TESTED
- SW8021F REQUIRES EDB TO BE TESTED
- SW8260B REQUIRES ETBE TO BE TESTED
- SW8260B REQUIRES TAME TO BE TESTED
- SW8260B REQUIRES DIPE TO BE TESTED
- SW8260B REQUIRES TBA TO BE TESTED
- SW8260B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS N

### QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0

LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0	
LAB BLANK DETECTIONS	0	
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?		
- LAB METHOD BLANK	Y	
- MATRIX SPIKE	Y	
- MATRIX SPIKE DUPLICATE	Y	
- BLANK SPIKE	Y	
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y	
<b><u>WATER SAMPLES FOR 8021/8260 SERIES</u></b>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y	
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y	
<b><u>SOIL SAMPLES FOR 8021/8260 SERIES</u></b>		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a	
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a	
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a	
<b><u>FIELD QC SAMPLES</u></b>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

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**Facility Global ID:** T0600100667

**Facility Name:** GRIMIT AUTO REPAIR & SERVICE

**Submittal Title:** Analytical Data July 2007

**Submittal Type:** Miscellaneous Sample Results

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 1970 SEMINARY  
 OAKLAND, CA 94621

**Regional Board - Case #: 01-0723**  
 SAN FRANCISCO BAY RWQCB (REGION 2)  
**Local Agency (lead agency) - Case #: RO0000413**  
 ALAMEDA COUNTY LOP - (DH)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
5660557031	Analytical Data July 2007	Q3 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
David F. Hoexter	8/15/2007	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	9
# FIELD POINTS WITH DETECTIONS	8
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED A5520B,SW8021F,SW8260B  
 TESTED FOR REQUIRED ANALYTES? N

- MISSING PARAMETERS NOT TESTED:
- SW8021F REQUIRES ETBE TO BE TESTED
  - SW8021F REQUIRES TAME TO BE TESTED
  - SW8021F REQUIRES DIPE TO BE TESTED
  - SW8021F REQUIRES TBA TO BE TESTED
  - SW8021F REQUIRES EDB TO BE TESTED
  - SW8260B REQUIRES ETBE TO BE TESTED
  - SW8260B REQUIRES TAME TO BE TESTED
  - SW8260B REQUIRES DIPE TO BE TESTED
  - SW8260B REQUIRES TBA TO BE TESTED
  - SW8260B REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS N

**QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	0

- LAB METHOD BLANK Y
- MATRIX SPIKE Y
- MATRIX SPIKE DUPLICATE Y
- BLANK SPIKE Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED Y

**WATER SAMPLES FOR 8021/8260 SERIES**

- MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% Y
- MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% Y
- SURROGATE SPIKES % RECOVERY BETWEEN 85-115% N
- BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

- MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
- MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
- SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
- BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as DAVID F. HOEXTER (AUTH\_RP)

CONTACT SITE ADMINISTRATOR.