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Alameda County Environmental Health

Quarterly Groundwater Monitoring Report-1st Quarter 2007

German Autocraft 301 E. 14th Street San Leandro, California

Global ID No. T0600100639 AC LOP Case # 2783

Prepared For

Mr. Seung Lee German Autocraft San Leandro, CA 95070

Prepared By



347 Frederick Street, San Francisco, California 94117 (415) 665-6181

Date of Report: April 3, 2007



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April 3, 2007

German Autocraft 301 E. 14th Street San Leandro, CA 94577

Attn: Mr. Seung Lee

Subject: <u>Quarterly Groundwater Monitoring Report—1st Quarter 2007</u>

German Autocraft, AC LOP Case # 2783 Global ID No. T0600100639

Dear Mr. Lee:

GWC is pleased to attach the First Quarter 2007, *Quarterly Groundwater Monitoring Report*, which includes the analytical results for groundwater samples collected in March of 2007. GWC plans to continue quarterly groundwater sampling in accordance with Alameda County Department of Environmental Health (DEH) requirements.

If you have any questions or require further information, please do not hesitate to call us at (415) 665-6181.

Sincerely,

Glenn Reierstad Project Manager

Cc: Ms. Donna Dragos, DEH Mr. Steven Plunkett, DEH

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1.0 Site Location and Background

1.1 Site Location and Description

The site is located at 301 E. 14th Street in San Leandro, CA, in a high-density, mixed-use neighborhood of residential and small commercial buildings. Figure 1 shows the site location. E. 14th Street is a busy thoroughfare, running approximately 25 degrees west of north-south. The site is approximately 90' x 120' with an area of about 10,800 square feet. The current site use is as an automobile repair facility.

1.2 Site Hydrogeologic Conditions

The site is situated on mixed sediments about two miles east of San Francisco Bay. Site elevation is 48-50 feet above mean sea level, and groundwater elevation varies from 23-32 feet above mean sea level. Groundwater flow direction is typically W to WNW at a gradient of about 0.002 feet/ft. Figure 2 shows the general site layout and the locations of monitoring wells, both on-site and off-site.

1.3 Project History

The fuel leak was discovered and the gasoline storage tank was removed in October of 1990. A site assessment, including installation of three initial monitoring wells, was performed in 1995, and further assessment work was done in July of 1998, including installation of seven additional monitoring wells. In 2001, three more monitoring wells were installed. To date, certain wells have been monitored quarterly and others monitored annually to maintain a record of groundwater conditions. No active remediation has taken place since removal of the gasoline storage tank. Table 1 summarizes available well construction data.

1.4 Field Activities

Only wells MW-8, MW-9, MW-10, MW-12, MW-13, MW-14, MW-1A and 141 Farrelly were scheduled for sampling this quarter. Additional wells MW-2, MW-3 and MW-4 were sounded for Depth to Groundwater in order to provide a meaningful indication of groundwater flow direction.

2.0 Groundwater Monitoring Results

2.1 Groundwater Elevation and Gradient

Consistent with historical results, groundwater elevation was 26.48 to 27.35 feet above mean sea level, and the gradient was 0.002 ft/ft WNW. All monitored wells contained

water and recharged rapidly after purging. The site wells close to the former tank location (MW-2, -3 and -4) had noticeable hydrocarbon odors, but the off-site wells, except MW-9 and MW-10, were generally odor free. Table 2 presents groundwater elevation data for March 16, 2007, and Table 3 presents a cumulative summary of elevation data.

2.2 Groundwater Sample Collection and Analysis

This quarter's wells were monitored and sampled by experienced personnel in accord with standard practices. All samples were placed on ice and transported to a Statecertified analytical laboratory for analysis. Well purge water was stored on-site pending analysis and disposal. The Well Sampling Reports are attached as Appendix A.

2.3 Groundwater Sample Analytical Results

Five monitoring well samples tested positive for Petroleum Hydrocarbons as gasoline (TPHg) and Volatile Organic Compounds (BTEX), with a highest concentration of 10,000 μ g/L TPHg and 71 μ g/L Benzene at MW-10. The distribution of contaminant values generally confirmed the measured groundwater gradient. Table 4 presents groundwater analytical data for March 16, 2007, and Table 5 summarizes the historical groundwater analytical data.

3.0 Conclusions and Recommendations

3.1 Conclusions

All of the monitoring data are consistent with release of gasoline from a structurally unsound underground tank, and/or the associated fueling system. Concentrations of gasoline-related petroleum compounds are highest near the former tank location and directly down-gradient from that point. Concentrations drop off sharply with distance to the side from the prevailing groundwater flow direction. Significant concentrations of hydrocarbons have been carried off-site, directly down-gradient from the release point. The wells tested this quarter had somewhat mixed contaminant concentrations compared with historical values; MW-8, -9, -14 and -1A were on the low side; MW-10 and -12 were middle to high; and MW-13 and 141 Farrelly were clean like historic.

In 16 years since the removal of the underground storage tank, there has been some dissipation of the contaminants in the first few years, but there has been very little reduction in hydrocarbon concentrations in recent years at wells such as MW-1 and MW-4. GCI concludes that the contaminants have reached levels at which they are likely to remain for the foreseeable future in the absence of remedial action, though there will likely continue to be seasonal fluctuations in contaminant levels.

3.2 Recommendations

Besides the DEH required monitoring of this case, GCI recommends a dual-phase Soil Vapor Extraction (SVE) test to assess the potential success of SVE as a remediation method for the core impact area at this site. Such a test may provide approximate cost data or may suggest the need to consider other technologies to remediate contaminants at the site. A five-day test is standard for such an assessment. GCI could provide a Work Plan for such a test, or for a more extensive test, that would likely reduce the persisting contaminants at the site. Off-site wells have significant access issues and would be unlikely to be useful for contaminant mass removal.

4.0 Quality Assurance and Professional Certification

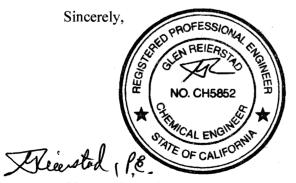
4.1 Quality Assurance

All sampling was performed by a staff technician, skilled and experienced with groundwater monitoring well sampling procedures. Samples were stored on ice and sent promptly to a State-certified analytical laboratory. The laboratory is audited by the State certification program for maintaining quality control procedures and for record keeping. The chain-of-custody records and certified laboratory analytical reports are attached as Appendix B.

4.2 **Professional Certification**

We declare, under penalty of perjury, that to the best of our knowledge, everything presented in this report is true and correct.

Should you have any questions or require supplemental information, please do not hesitate to contact us at (415) 665-6181.



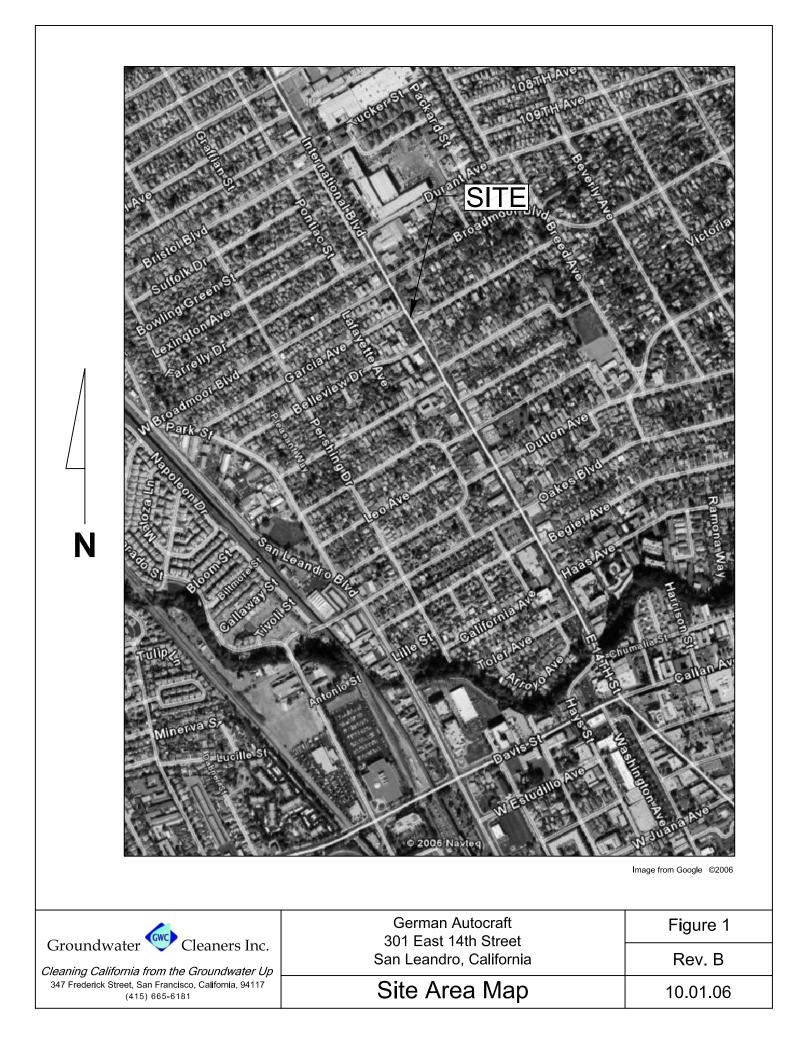
Glenn Reierstad, P.E. Project Manager, Groundwater Cleaners, Inc.

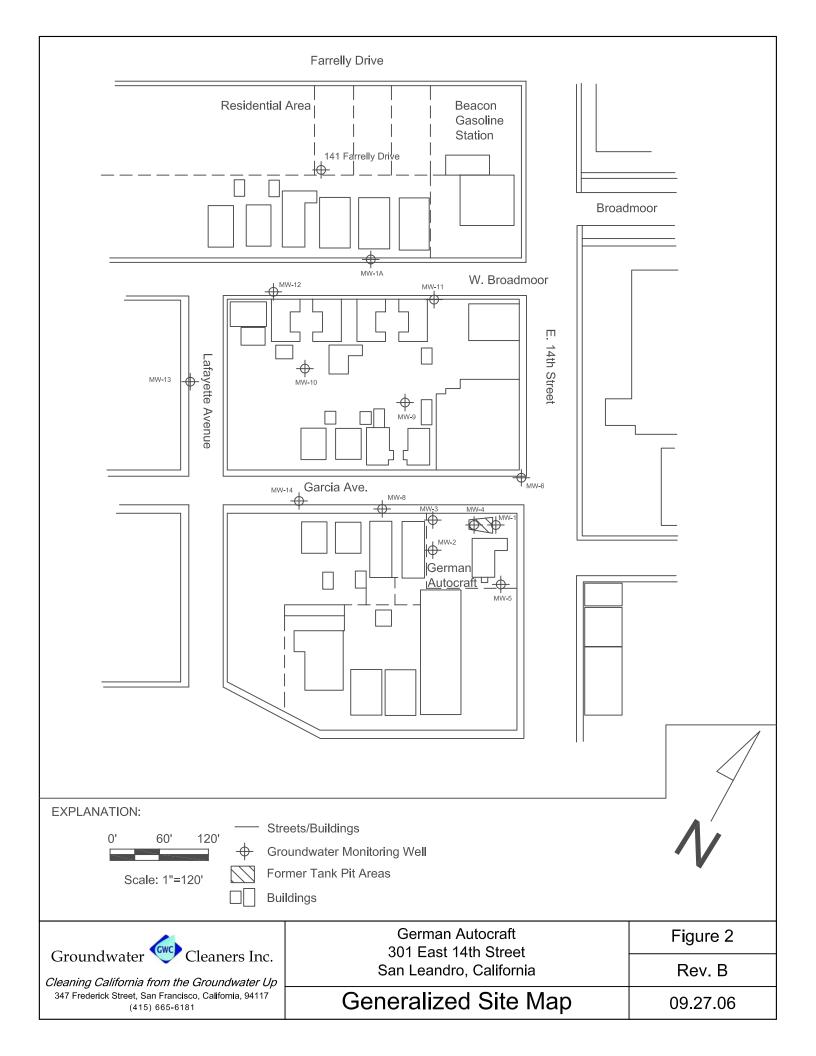


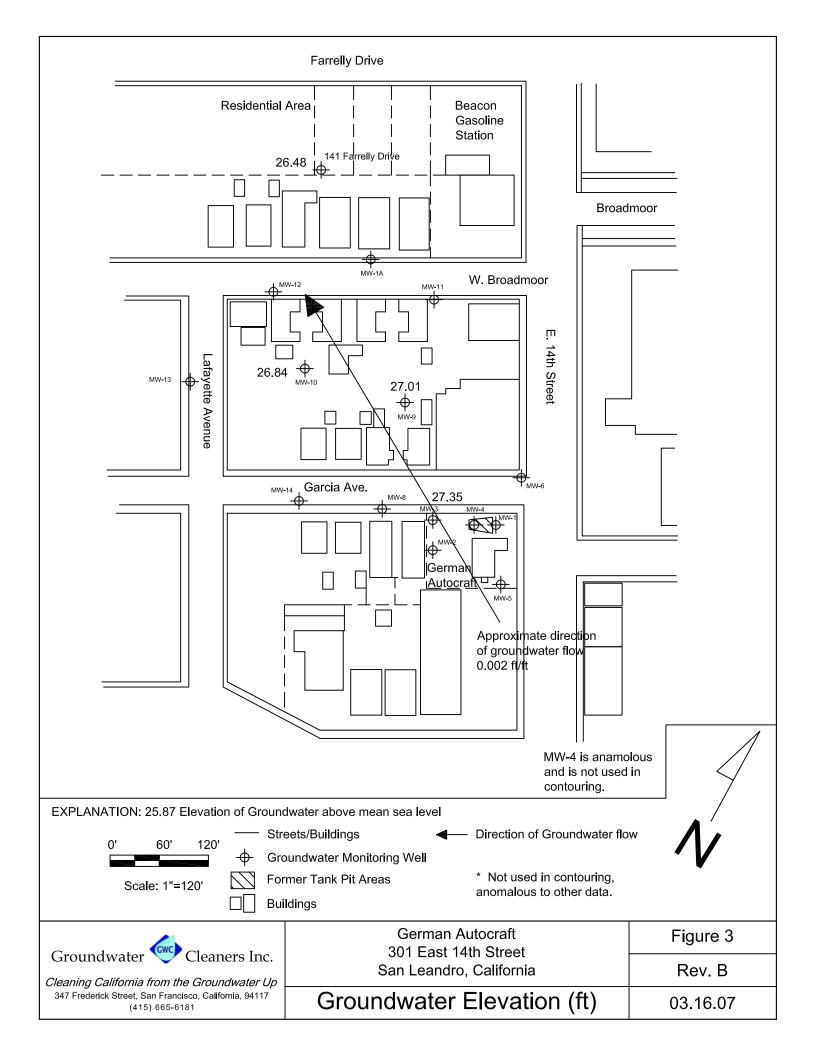
Eric R. Lautenbach, P.E. V.P. Engineering

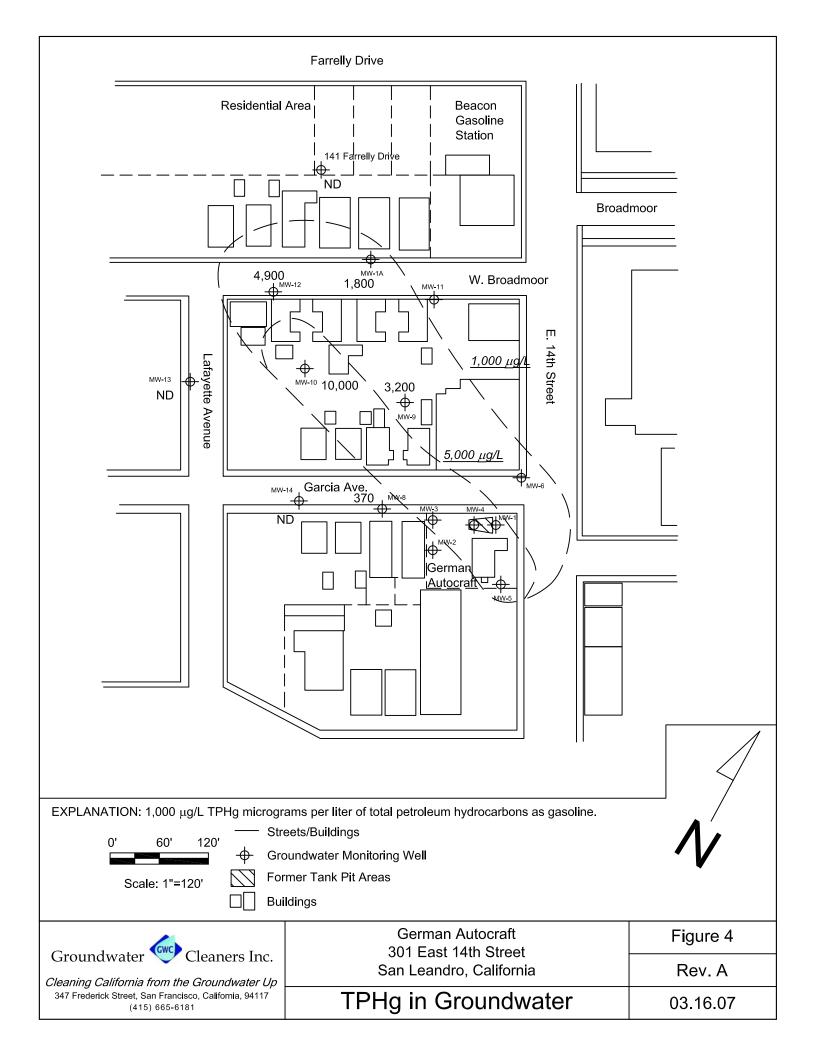
Figures

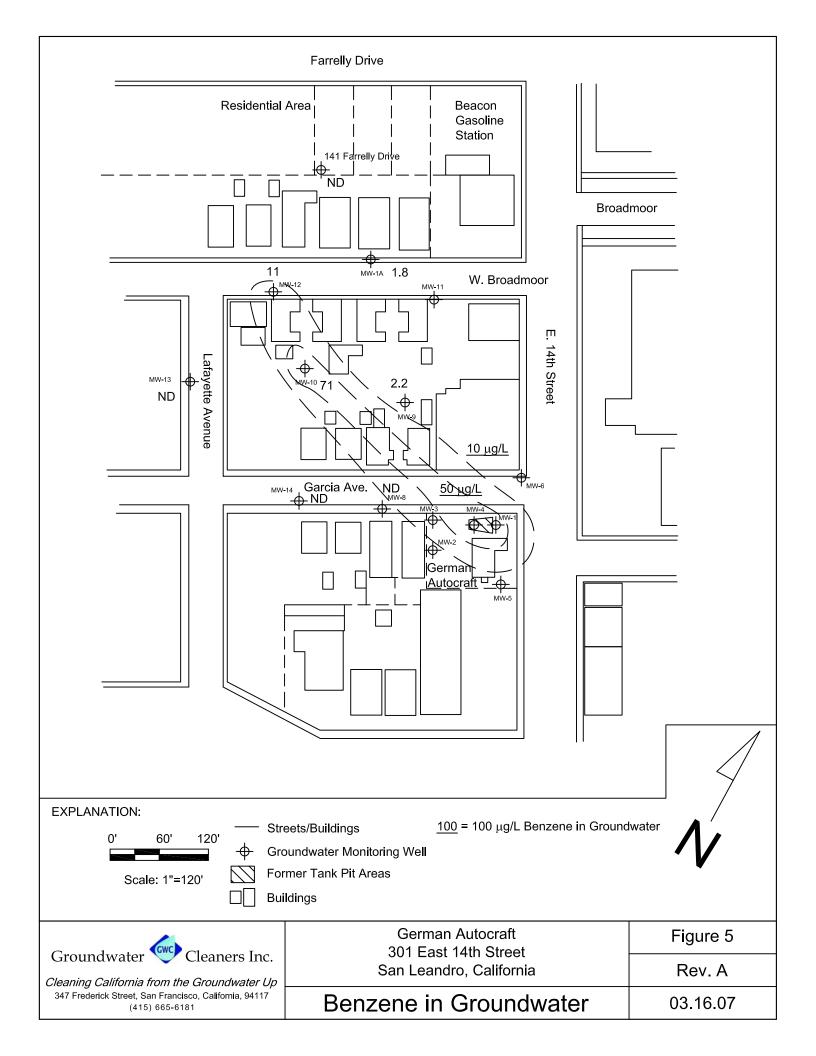












Tables



Well	Date	Casing	Total	Screened	Relative	TOC
Number	Installed	Diameter	Depth	Interval	Location	Elevation
		(inches)	(feet)	(feet)		
MW-1	1/6/95	2	32.10	unknown	Onsite	49.40
MW-2	1/6/95	2	33.05	unknown	Onsite	50.02
MW-3	1/6/95	2	34.80	unknown	Onsite	49.32
MW-4	12/30/98	2	34.30	unknown	Onsite	49.61
MW-5	12/30/98	2	21.15	unknown	Onsite	unknown
MW-6	12/30/98	2	33.10	unknown	Off-site	unknown
MW-8	12/30/98	2	34.20	unknown	Off-site	unknown
MW-9	12/30/98	2	33.70	unknown	Off-site	48.77
MW-10	12/30/98	2	37.50	unknown	Off-site	49.93
MW-11	12/30/98	2	36.90	unknown	Off-site	unknown
MW-12	3/20/01	2	38.22	unknown	Off-site	unknown
MW-13	3/20/01	2	37.47	unknown	Off-site	unknown
MW-14	3/20/01	2	30.43	unknown	Off-site	unknown
MW-1A	5/30/97	2	33.88	unknown	Off-site	unknown
141	4/6/96	2	unknown	unknown	Off-site	48.76
Farrelly						

Table 1Summary of Well Construction DetailsGerman Autocraft, 301 E. 14th Street, San Leandro, California

Table 2Current Quarter Groundwater Elevations

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)	Change Since Last Measurement (feet)
MW-1	03/16/07	nm	49.40	nm	nm
MW-2	03/16/07	22.78	50.02	27.24	+1.14
MW-3	03/16/07	21.97	49.32	27.35	+1.06
MW-4	03/16/07	22.26	49.61	27.35	+1.10
MW-9	03/16/07	21.76	48.77	27.01	+1.02
MW-10	03/16/07	23.09	49.93	26.84	na
141 Farralley	03/16/07	22.28	48.76	26.48	na

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-1	12/21/90	30.25	49.40	19.15
	2/10/95		49.40	29.59
	7/7/95		49.40	26.63
	8/10/95		49.40	25.58
	9/11/95		49.40	24.68
	10/2/95		49.40	24.12
	11/7/95		49.40	23.36
	12/8/95		49.40	22.77
	1/12/96		49.40	24.35
	2/12/96		49.40	29.04
	3/12/96		49.40	31.75
	4/13/96		49.40	29.43
	5/14/96		49.40	27.89
	6/20/96		49.40	27.19
	7/26/96		49.40	25.95
	8/19/96		49.40	25.16
	9/17/96		49.40	24.44
	10/21/96		49.40	23.63
	11/27/96		49.40	24.28
	12/27/96		49.40	28.23
	1/28/97		49.40	33.02
	4/25/97		49.40	27.14
	7/17/97		49.40	24.55
	10/21/97		49.40	22.85
	3/10/98		49.40	34.35
	6/6/98		49.40	30.69
	9/30/98		49.40	25.95
	12/30/98		49.40	25.13
	3/13/99		49.40	29.98
	9/29/99		49.40	24.39
	12/29/99		49.40	23.75
	3/18/00		49.40	31.92
	7/18/00		49.40	26.21
	9/26/00		49.40	25.01
	12/28/00		49.40	24.63

Table 3Cumulative Summary of Groundwater Elevations

·			
3/30/01		49.40	27.47
10/5/01		49.40	23.82
3/28/02		49.40	28.66
3/31/03		49.40	26.68
6/19/03		49.40	26.23
9/30/03		49.40	24.05
2/10/04		49.40	26.96
6/30/04		49.40	24.73
9/14/04		49.40	21.51
3/29/06	18.84	49.40	30.56
6/24/06	20.57	49.40	28.83
9/30/06	23.53	49.40	25.87
12/11/06	22.78	49.40	26.29
03/16/07	nm	49.40	nm

Well Number	Date Recorded	Depth to Groundwater	TOC Elevation	Groundwater Elevation
Tumber		(feet)	(feet)	(feet)
MW-2	2/10/95		50.02	29.62
	7/7/95		50.02	26.47
	8/10/95		50.02	25.40
	9/11/95		50.02	24.49
	10/2/95		50.02	23.94
	11/7/95		50.02	23.13
	12/8/95		50.02	22.55
	1/12/96		50.02	24.20
	2/12/96		50.02	29.03
	3/12/96		50.02	31.60
	4/13/96		50.02	29.25
	5/14/96		50.02	27.68
	6/20/96		50.02	26.97
	7/26/96		50.02	25.74
	8/19/96		50.02	24.97
	9/17/96		50.02	24.22
	10/21/96		50.02	23.43
	11/27/96		50.02	24.09
	12/27/96		50.02	28.03
	1/28/97		50.02	32.71
	4/25/97		50.02	26.88
	7/17/97		50.02	24.31
	10/21/97		50.02	22.69
	3/10/98		50.02	34.20
	6/6/98		50.02	30.41
	9/30/98		50.02	25.68
	12/30/98		50.02	24.93

3/13/99		50.02	29.80
9/29/99		50.02	24.12
12/29/99		50.02	23.52
3/18/00		50.02	31.87
7/18/00		50.02	26.01
9/26/00		50.02	24.69
12/28/00		50.02	24.39
3/30/01		50.02	27.31
10/5/01		50.02	23.64
3/28/02		50.02	28.43
9/30/02		50.02	24.18
3/31/03		50.02	26.39
6/19/03		50.02	26.04
9/30/03		50.02	23.83
2/10/04		50.02	26.75
6/30/04		50.02	24.57
9/14/04		50.02	23.32
3/29/06	19.61	50.02	30.41
6/24/06	21.41	50.02	28.61
9/30/06	24.37	50.02	25.65
12/11/06	23.92	50.02	26.10
03/16/07	22.78	50.02	27.24

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-3	2/10/95		49.32	29.57
	7/7/95		49.32	26.50
	8/10/95		49.32	25.44
	9/11/95		49.32	24.54
	10/2/95		49.32	24.00
	11/7/95		49.32	23.21
	12/8/95		49.32	22.62
	1/12/96		49.32	24.25
	2/12/96		49.32	29.00
	3/12/96		49.32	31.67
	4/13/96		49.32	29.26
	5/14/96		49.32	27.71
	6/20/96		49.32	27.00
	7/26/96		49.32	25.67
	8/19/96		49.32	25.01
	9/17/96		49.32	24.27
	10/21/96		49.32	23.48
	11/27/96		49.32	24.13

12/27/96		49.32	28.11
1/28/97		49.32	32.78
4/25/97		49.32	26.94
7/17/97		49.32	24.37
10/21/97		49.32	22.73
3/10/98		49.32	34.13
6/6/98		49.32	30.47
9/30/98		49.32	25.75
12/30/98		49.32	24.99
3/13/99		49.32	29.83
9/29/99		49.32	24.20
12/29/99		49.32	23.60
3/18/00		49.32	31.82
7/18/00		49.32	26.04
9/26/00		49.32	24.80
12/28/00		49.32	24.45
3/30/01		49.32	27.39
10/5/01		49.32	23.70
3/28/02		49.32	28.49
9/30/02		49.32	24.12
3/31/03		49.32	26.50
6/19/03		49.32	26.03
9/30/03		49.32	23.82
2/10/04		49.32	26.79
6/30/04		49.32	24.59
9/14/04		49.32	21.39
3/29/06	18.87	49.32	30.45
6/24/06	22.65	49.32	26.67
9/30/06	24.49	49.32	24.83
12/11/06	23.03	49.32	26.29
 03/16/07	21.97	49.32	27.35

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-4	12/30/98		49.61	25.05
	3/13/99		49.61	29.89
	9/29/99		49.61	24.27
	12/29/99		49.61	23.64
	3/18/00		49.61	31.85
	12/28/00		49.61	24.52
	3/30/01		49.61	27.40
	10/5/01		49.61	23.77
	3/28/02		49.61	28.58

9/30/02		49.61	24.32
3/31/03		49.61	26.59
6/19/03		49.61	26.16
9/30/03		49.61	23.96
9/14/04		49.61	21.45
3/29/06	19.87	49.61	29.74
6/24/06	22.86	49.61	26.75
9/30/06	23.94	49.61	25.67
12/11/06	23.36	49.61	26.25
03/16/07	22.26	49.61	27.35

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-5	12/30/98		unknown	25.06
	3/13/99			29.93
	9/29/99			24.26
	3/18/00			23.64
	3/28/02			31.94

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-6	12/30/98		unknown	25.14
	3/13/99			29.97
	9/29/99			24.38
	12/29/99			23.75
	3/18/00			31.86
	7/18/00			26.22
	9/26/00			24.95
	12/28/00			24.61
	3/30/01			27.41
	10/5/01			23.82
	3/28/02			28.65
	9/30/02			24.41
	9/30/06	22.33		

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-8	12/30/98		unknown	25.14
	3/13/99			

9/29	9/99	
12/2	.9/99	
3/18	8/00	
7/18	8/00	
9/20	6/00	
12/2		
3/30	0/01	
10/	5/01	
3/28	8/02	
9/30	0/06 24.07	

Well	Date	Depth to	TOC	Groundwater
Number	Recorded	Groundwater	Elevation	Elevation
1 (41115)01		(feet)	(feet)	(feet)
MW-9	12/30/98		48.77	24.79
	3/13/99		48.77	29.58
	9/29/99		48.77	24.05
	12/29/99		48.77	23.45
	3/18/00		48.77	31.46
	7/18/00		48.77	25.83
	9/26/00		48.77	24.61
	12/28/00		48.77	24.29
	3/30/01		48.77	27.12
	10/5/01		48.77	23.54
	3/28/02		48.77	28.32
	9/30/02		48.77	24.11
	3/31/03		48.77	26.33
	6/19/03		48.77	25.90
	9/30/03		48.77	23.77
	2/10/04		48.77	26.64
	6/30/04		48.77	24.22
	9/14/04		48.77	23.08
	3/29/06	16.74	48.77	32.03
	6/24/06	22.43	48.77	26.34
	9/30/06	23.40	48.77	25.37
	12/11/06	22.78	48.77	25.99
	03/16/07	21.76	48.77	27.01

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-10	12/30/98		49.93	24.78
	3/13/99		49.93	29.31
	9/29/99		49.93	23.80
	12/29/99		49.93	23.23

3/18/00		49.93	31.26
7/18/00		49.93	25.55
9/26/00		49.93	24.34
12/28/00		49.93	24.03
3/30/01		49.93	26.79
10/5/01		49.93	23.33
3/28/02		49.93	28.06
9/30/02		49.93	23.88
3/31/03		49.93	26.06
6/19/03		49.93	25.65
9/30/03		49.93	23.56
2/10/04		49.93	26.39
6/30/04		49.93	24.22
9/14/04		49.93	23.08
3/29/06	20.18	49.93	29.75
6/24/06	23.87	49.93	26.06
9/30/06	24.80	49.93	25.13
03/16/07	23.09	49.93	26.84

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-11	12/30/98		unknown	24.78
	3/13/99			29.56
	9/29/99			24.03
	12/29/99			23.43
	3/18/00			31.38
	7/18/00			25.81
	9/26/00			24.58
	12/28/00			24.26
	3/30/01			27.03
	10/5/01			23.52
	3/28/02			28.31
	9/30/02			24.09
	9/30/06	22.58		

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-12	12/30/98		unknown	24.78
	3/13/99			29.56
	9/29/99			24.03
	12/29/99			23.43

3/18/00		 31.38
7/18/00		 25.81
9/26/00		 24.58
12/28/00		 24.26
3/30/01		 27.03
10/5/01		 23.52
3/28/02		 28.31
9/30/02		 24.09
9/30/06	22.58	
12/11/06	23.88	
03/16/07	21.77	

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-13	12/30/98		unknown	24.78
	3/13/99			29.56
	9/29/99			24.03
	12/29/99			23.43
	3/18/00			31.38
	7/18/00			25.81
	9/26/00			24.58
	12/28/00			24.26
	3/30/01			27.03
	10/5/01			23.52
	3/28/02			28.31
	9/30/02			24.09
	9/30/06	22.58		
	12/11/06	25.33		
	03/16/07	23.00		

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-14	12/30/98		unknown	24.78
	3/13/99			29.56
	9/29/99			24.03
	12/29/99			23.43
	3/18/00			31.38
	7/18/00			25.81
	9/26/00			24.58
	12/28/00			24.26
	3/30/01			27.03
	10/5/01			23.52
	3/28/02			28.31

9/30/02		 24.09
9/30/06	22.58	
12/11/06	24.90	
03/16/07	22.67	

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-1A	12/30/98		unknown	24.64
	3/13/99			29.39
	9/29/99			23.89
	12/29/99			23.29
	3/18/00			31.25
	7/18/00			25.64
	9/26/00			24.48
	12/28/00			24.13
	3/30/01			27.02
	10/5/01			23.38
	3/28/02			28.14
	9/30/02			23.96
	9/30/06	23.03		

Table 4
Current Quarter Groundwater Analytical Data
March 16, 2007

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)	MtBE (µg/l)
MW-8	03/16/07	370	ND<0.5	8.1	0.52	0.94	ND<5
MW-9	03/16/07	3,200	2.2	37	18	2.9	ND<5
MW-10	03/16/07	10,000	71	15	46	25	ND<50
MW-12	03/16/07	4,900	11	24	16	8.5	ND<50
MW-13	03/16/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-14	03/16/07	ND<50	ND<0.5	1.1	ND<0.5	ND<0.5	ND<5
MW-1A	03/16/07	1,800	1.8	17	6.4	4.4	ND<5
141 Farrelly	03/16/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5

 Table 5

 Cumulative Summary of Groundwater Analytical Data

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-1	12/31/90	51,000	2,200	1,200	< 0.5	760
	1/6/95	110,000	13,000	15,000	4,800	13,000
	1/6/95	580,000	29,000	41,000	17,000	43,000
	7/6/95	49,000	8,000	17,000	1,900	9,700
	10/2/95	120,000	16,000	36,000	3,300	17,000
	10/2/95	160,000	20,000	47,000	5,000	23,000
	1/12/96	1,100,000	11,000	18,000	15,000	51,000
	1/12/96	98,000	2,100	4,600	2,500	10,000
	4/13/96	53,000	1,300	2,900	2,100	10,000
	4/13/96	58,000	820	3,600	2,800	12,000
	7/26/96	91,000	2,600	7,200	2,900	14,000
	7/26/96	67,000	2,300	5,500	2,500	11,000
	10/21/96	210,000	4,800	17,000	2,300	15,000
	10/21/96	210,000	5,400	18,000	2,600	11,000
	1/28/97	120,000	5,600	15,000	2,100	11,000
	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	4,800	23,000
	9/30/98	140,000	5,800	29,000	3,500	18,000
	12/30/98	78,000	5,200	24,000	3,200	19,000
	3/23/99	250,000	8,000	43,000	5,200	27,000
	9/29/99	140,000	6,100	35,000	5,400	27,000
	3/18/00	120,000	5,100	33,000	4,600	24,000
	3/20/01	100,000	3,600	41,000	4,700	25,000
	3/28/02	100,000	2,800	24,000	5,400	28,900
	3/31/03	100,000	2,200	19,000	4,900	21,000
	3/31/04	100,000	2,100	21,000	6,200	36,000
	9/14/04	160,000	1,800	16,000	5,500	30,000
	3/29/06	69,000	1,400	16,000	4,900	28,000
	09/30/06	120,000	1,400	13,000	5,200	29,000

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-2	1/6/95	980,000	9,400	5,600	19,000	42,000

7/6/95	71,000	5,300	1,800	6,100	9,000
10/2/95	40,000	2,900	200	2,800	3,600
1/12/96	260,000	2,600	2,200	6,300	7,800
4/13/96	30,000	1,900	370	2,300	2,400
7/26/96	180,000	1,400	640	2,100	5,000
10/21/96	62,000	2,100	< 0.5	2,100	2,700
1/28/97	46,000	1,500	94	1,800	2,000
4/25/97	23,000	790	26	820	730
7/17/97	95,000	2,200	< 0.5	3,100	4,300
10/21/97	31,000	2,000	< 0.5	2,100	1,900
3/10/98	19,000	730	44	820	1,000
6/6/98	16,000	670	1,100	510	1,200
9/30/98	24,000	600	77	680	580
12/30/98	9,300	510	96	450	480
3/23/99	5,700	580	9.4	400	280
9/29/99	17,000	880	240	830	1,000
12/29/99	11,000	800	11	860	780
3/18/00	11,000	790	14	520	450
7/18/00	10,000	560	27	630	530
9/26/00	6,800	450	7.4	290	200
12/28/00	12,000	540	30	420	330
3/20/01	3,500	230	<10	<10	<10
3/28/02	7,000	570	16	170	71
3/31/03	5,000	620	<12.5	71	<25
3/31/04	8,200	500	<12.5	65	<25
9/14/04	9,000	560	<13	57	<25
3/29/06	5,200	1,400	<20	52	<20
9/30/06	4,800	900	64	22	110

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-3	1/6/95	740,000	11,000	2,300	8,300	28,000
	7/6/95	86,000	12,000	8,600	4,900	19,000
	10/2/95	100,000	15,000	11,000	6,000	20,000
	1/12/96	84,000	6,500	4,100	3,200	12,000
	4/13/96	48,000	7,600	3,600	2,800	9,400
	7/26/96	62,000	6,400	3,100	3,000	11,000
	10/21/96	110,000	5,400	2,400	2,500	9,800
	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	7/17/97	69,000	5,100	1,100	1,800	8,600
	10/21/97	58,000	4,300	1,300	2,100	8,000

3/10/98	25,000	3,000	1,300	1,100	3,700
6/6/98	52,000	4,400	1,900	2,300	6,900
9/30/98	42,000	4,300	1,400	1,800	6,600
12/30/98	34,000	4,200	770	2,300	9,000
3/23/99	44,000	3,500	1,000	1,700	5,200
9/29/99	39,000	6,000	840	2,400	8,100
12/29/99	39,000	4,600	790	2,400	8,100
3/18/00	21,000	3,100	550	1,400	4,100
7/18/00	30,000	5,000	950	2,000	5,700
9/26/00	36,000	5,300	640	2,400	9,900
12/28/00	33,000	4,700	450	2,100	6,400
3/20/01	21,000	2,000	260	570	3,000
3/31/03	25,000	3,200	280	1,600	4,200
3/31/04	11,000	1,000	940	550	1,900
9/14/04	42,000	3,600	190	2,200	4,800
3/29/06	7,200	180	17	460	680
9/30/06	7,100	130	94	500	820

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-4	12/30/98	12,000	1,200	1,100	290	1,400
	3/23/99	89,000	5,900	8,700	2,000	9,200
	9/29/99	48,000	5,300	6,800	1,700	7,700
	3/18/00	44,000	4,500	7,500	2,200	11,000
	3/20/01	10,000	700	620	<10	1,900
	3/28/02	30,000	3,700	3,100	1,100	4,100
	3/31/03	25,000	2,000	2,100	820	2,900
	3/31/04	24,000	2,500	200	1,400	2,800
	9/14/04	14,000	760	550	430	1,600
	3/29/06	17,000	2,000	1,200	910	2,400
	9/30/06	4,000	440	120	240	360

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-5	12/30/98	170	1.1	< 0.5	< 0.5	4.8
	3/22/99	470	3.8	0.51	2.0	< 0.5
	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
	3/29/06	190	< 0.5	< 0.5	< 0.5	< 0.5
	9/30/06	Dry				

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-6	12/30/98	400	1.0	< 0.5	< 0.5	4.8
	3/22/99	390	< 0.5	< 0.5	< 0.5	< 0.5
	9/30/99	330	1.8	1.4	1.5	< 0.5
	3/18/00	200	1.3	< 0.5	< 0.5	< 0.5
	9/26/00	240	1.5	< 0.5	< 0.5	< 0.5
	3/20/01	160	< 0.5	< 0.5	< 0.5	< 0.5
	3/28/02	88	.89	< 0.5	< 0.5	< 0.5
	3/29/06	NS	NS	NS	NS	NS
	9/30/06	280	5.5	24	14	69

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-8	12/30/98	2,200	70	0.94	26	15
	3/23/99	2,300	34	1.1	15	13
	9/30/99	8,800	140	<50	53	<50
	12/29/99	1,900	64	1.0	22	23
	3/18/00	1,400	36	< 0.5	12	9.3
	7/18/00	3,000	67	9.8	38	38
	9/26/00	1,200	24	3.0	24	15
	12/28/00	1,200	47	3.7	17	18
	3/20/01	1,300	7.8	<2.5	<2.5	14
	10/5/01	1,800	28	<2.5	20	23
	3/28/02	1,100	12	1.7	11	10.8
	9/30/02	1,400	15	24	32	22
	9/30/06	760	4.9	31	13	64
	03/16/07	370	< 0.5	8.1	0.52	0.94

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-9	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920
	9/30/99	42,000	140	130	1,000	1,700
	12/29/99	1,100,000	1,200	1,300	4,300	8,700
	3/18/00	17,000	89	46	10	600

1						
	7/18/00	12,000	39	8.2	540	760
	9/26/00	11,000	19	<5	470	610
	12/28/00	22,000	100	<100	610	770
	3/20/01	8,200	40	<10	14	210
	10/5/01	77,000	<100	110	780	850
	3/28/02	11,000	34	6.1	220	180
	9/30/02	34,000	<125	140	240	370
	3/31/03	6,200	<12.5	<12.5	130	87
	9/30/03	9,700	52	<25	160	87
	9/14/04	9,500	48	<25	93	<50
	3/29/06	6,200	< 0.5	< 0.5	57	11
	9/30/06	2,200	3.7	31	37	40
	3/16/07	3,200	2.2	37	18	2.9

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-10	12/30/98	6,900	130	19	140	210
	3/23/99	6,600	150	33	240	170
	9/30/99	9,300	60	38	280	150
	12/29/99	5,800	87	10	420	180
	3/18/00	3,800	180	11	220	120
	7/18/00	9,100	120	33	210	130
	9/26/00	4,500	22	8.8	1.3	18
	12/28/00	3,900	55	13	98	38
	3/20/01	4,500	48	6.0	<5	23
	10/5/01	5,200	70	28	41	30
	3/28/02	7,400	45	20	210	66
	9/30/02	670	54	5.9	76	23
	3/31/03	5,700	31	38	67	27
	9/30/03	7,400	61	<50	<50	<100
	9/14/04	9,100	47	<25	51	<50
	3/29/06	6,800	140	18	270	160
	9/30/06	5,700	61	30	78	120
	3/16/07	10,000	71	15	46	25

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-11	12/30/98	80	< 0.5	< 0.5	0.93	1.6
	3/23/99	<50	< 0.5	< 0.5	< 0.5	< 0.5
	9/30/99	94	< 0.5	< 0.5	< 0.5	< 0.5

3/18/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
9/26/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
3/20/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
3/28/02	<50	< 0.5	< 0.5	< 0.5	<1.5
 9/30/06	160	1.8	12	7.6	40

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-12	3/20/01	4,100	28	6.2	<5	16
	6/29/01	4,200	26	25	19	29
	12/21/01	5,300	9.7	<2.5	41	14
	3/28/02	4,900	20	<2.5	69	23
	6/28/02	2,600	29	<12.5	30	<25
	9/30/02	700	16	4.9	19	9.8
	09/30/06	2,100	6.2	15	16	38
	12/11/06	5,500	13	24	16	23
	3/16/07	4,900	11	24	16	8.5

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-13	3/20/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
	6/29/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
	10/5/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
	12/21/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
	3/28/02	<50	< 0.5	< 0.5	< 0.5	<1.5
	6/28/02	<50	< 0.5	< 0.5	< 0.5	<1.0
	9/30/02	<50	< 0.5	< 0.5	< 0.5	<1.0
	12/21/02	<50	< 0.5	< 0.5	< 0.5	<1.0
	09/30/06	170	2.1	13	8.1	43
	12/11/06	110	4.6	6.5	4.6	17
	3/16/07	<50	< 0.5	< 0.5	< 0.5	< 0.5

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-14	3/20/01	200	< 0.5	< 0.5	< 0.5	< 0.5
	6/29/01	660	< 0.5	< 0.5	< 0.5	4.6
	10/5/01	770	1.7	1.5	0.91	8.3
	12/21/01	1,500	3.1	13	1.9	22

3/28/02	390	1.7	< 0.5	< 0.5	0.74
6/28/02	120	< 0.5	< 0.5	< 0.5	<1
9/30/02	210	< 0.5	1.7	< 0.5	1.1
12/21/02	53	< 0.5	< 0.5	< 0.5	<1.0
09/30/06	210	2.5	15	9.1	48
12/11/06	190	6.7	9.9	5.4	19
3/16/07	<50	< 0.5	1.1	< 0.5	< 0.5

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
MW-1A	5/30/97	12,000	18	8.7	90	540
	12/30/98	51	< 0.5	< 0.5	< 0.5	< 0.5
	3/23/99	1,800	4.0	< 0.5	3.0	7.5
	3/23/99	2,200	10	0.52	3.1	7.1
	9/30/99	13,000	63	26	30	72
	3/8/00	6,100	36	<5	9.7	45
	9/26/00	11,000	14	<5	65	150
	3/20/01	4,800	30	6.0	<5	7.0
	10/5/01	15,000	76	41	36	140
	3/28/02	9,300	35	<12.5	17	32
	9/30/02	23,000	<50	63	77	230
	9/30/06	2,500	4.1	25	22	49
	3/16/07	1,800	1.8	17	6.4	4.4

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- Benzene (µg/l)	Total Xylenes (µg/l)
141 Farrelly	4/6/96	<50	<0.5	<0.5	<0.5	<0.5
	10/2/99	<50	< 0.5	< 0.5	< 0.5	< 0.5
	3/18/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
	7/13/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
	9/26/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
	12/29/00	<50	< 0.5	< 0.5	< 0.5	< 0.5
	12/21/01	<50	< 0.5	< 0.5	< 0.5	< 0.5
	9/30/02	<50	< 0.5	< 0.5	< 0.5	<1.0
	12/21/02	<50	< 0.5	< 0.5	< 0.5	<1.0
	6/19/03	<50	< 0.5	< 0.5	< 0.5	<1.0
	9/14/04	<50	< 0.5	< 0.5	< 0.5	<1.0
	3/16/07	<50	< 0.5	< 0.5	< 0.5	< 0.5

Well Sampling Reports



Well Sampling Data (03/17/07) 301 E. 14th Street San Leandro, CA

WELL: MW-1

Well Purge Method:
Sample Collection Method:
Sample Collection Depth:

Submersible Pump **Disposable Bailer** 23.49

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	32.44	ft btoc
Depth to Water:	nm	ft btoc
Height of Water:		ft
Three Well Volumes:		gal

Notes: Definite petroleum odor

Depth-to-water Only

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	С	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	7.27	nm	18.1	nm		na
		Purging	nm	nm	6.90	nm	18.5	nm		na
		Purging	nm	nm	6.64	nm	18.7	nm		na
		Purging	nm	nm	nm	nm	18.7	nm		na
		Collect Sample	nm	nm	nm	nm	nm	23.49		na

WELL: MW-2

Well Purge Method: Submersible pump Sample Collection Method: Sample Collection Depth:

Disposable Bailer 24.52

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.25	ft btoc
Depth to Water:	22.78	ft btoc
Height of Water:		ft
Three Well Volumes:		gal

ft bgs

inches

ft btoc

ft btoc

ft

gal

2

34.94

21.97

Well Screen Interval:

Total Depth of Well:

Three Well Volumes:

Casing Diameter:

Depth to Water:

Height of Water:

Notes: Slight petroleum odor Depth-to-water Only

Date/Time	Purge	Purge	D.O.	0.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	С	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	nm	nm	nm	22.78		na
		Purging	nm	nm	6.46	nm	18.5	nm		na
		Purging	nm	nm	6.46	nm	18.6	nm		na
		Purging	nm	nm	6.45	nm	18.7	nm		na
		Collect Sample	nm	nm	nm		nm	24.52	#DIV/0!	na

WELL: MW-3

Well Purge Method:	Disposable Bailer
Sample Collection Method:	Disposable Bailer
Sample Collection Depth:	24.60

Note: Strong TPH odor present

Depth-to-water Only

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	С	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	nm	nm	nm	21.97		na
		Purging	nm	nm	7.53	nm	17.8	nm		na
		Purging	nm	nm	7.20	nm	18.4	nm		na
		Purging	nm	nm	7.01	nm	18.6	nm		na
		Collect Sample	nm	nm	nm	nm	nm	24.60	#DIV/0!	na

Well Sampling Data (03/17/06) 301 E. 14th Street San Leandro, CA

WELL: MW-4

Well Purge Method:	
Sample Collection Method:	
Sample Collection Depth:	

Disposable Bailer Disposable Bailer 24.03

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	34.53	ft btoc
Depth to Water:	22.26	ft btoc
Height of Water:		ft
Three Well Volumes:		gal

Notes: No petroleum odor present. Depth-to-water Only

Date/Time	Purge	Purge	D.O.	O.R.P.	pН	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ррт	mV		uS	C	BTOC [ft]	Sample Depth	Depth [ft]
3/17/2007	0- Static	Pre-Purge	nm	nm	nm	nm	nm	22.26		na
		Purging	nm	nm	6.65	nm	18.8	nm		na
		Purging	nm	nm	6.59	nm	18.8	nm		na
		Purging	nm	nm	6.54	nm	18.8	nm		na
	nm	Collect Sample	nm	nm	nm	nm	nm	24.03		na

WELL: MW-5

Well Purge Method: Sample Collection Method: Sample Collection Depth: Disposable Bailer Disposable Bailer 0.00

Well Screen Interval:		-	ft bgs
Casing Diameter:		2	inches
Total Depth of Well:		21.62	ft btoc
Depth to Water:	Dry		ft btoc
Height of Water:	n/a		ft
Three Well Volumes:		0.00	gal

Dry

Date/Time	Purge	Purge	D.O.	0.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ррт	mV		uS	C	BTOC [ft]	Sample Depth	Depth [ft]
3/17/2007	0- Static	Pre-Purge	nm	nm	nm	nm	nm	Dry		na
		Purging	nm	nm	nm	nm	nm	nm		na
		Purging	nm	nm	nm	nm	nm	nm		na
		Purging	nm	nm	nm	nm	nm	nm		na
	nm	Collect Sample	nm	nm	nm	nm	nm		Dry	na

WELL: MW-6

Well Purge Method:SubmSample Collection Method:DispoSample Collection Depth:Sample Collection Depth

Submersible pump Disposable Bailer 22.34

Notes: Slight petroleum odor

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	31.29	ft btoc
Depth to Water:	22.33	ft btoc
Height of Water:	8.96	ft
Three Well Volumes:	4.57	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	С	BTOC [ft]	Sample Depth	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	22.33		na
	2	Purging	nm	nm	6.58	nm	18.7	nm		na
	4	Purging	nm	nm	6.56	nm	18.6	nm		na
	6	Purging	nm	nm	6.57	nm	18.7	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm	nm	22.34		na

Well Sampling Data (03/12/07) 599 North Fourth Street, San Jose, CA

WELL: MW-8

Well Purge Method:	Submersible pump
Sample Collection Method:	Disposable Bailer
Sample Collection Depth:	10.33

Well Screen Interval:	10' - 15'	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	13.53	ft btoc
Depth to Water:	10.32	ft btoc
Height of Water:	3.21	ft
Three Well Volumes:	1.64	gal

Notes: Olive color. Odor present. slow recharge

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/12/07	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	%	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	10.32		na
	1	Purging	nm	nm	6.79	nm	69.9	nm		na
	2	Purging	nm	nm	6.79	nm	68.5	nm		na
	3	Purging	nm	nm	6.78	nm	68.0	nm		na
	Total 3	Collect Sample	nm	nm	nm	nm	nm	10.33	99.69%	na

WELL: MW-9

Well Purge Method:
Sample Collection Method:
Sample Collection Depth:

Submersible pump Disposable Bailer 10.10

	10' - 15'	fthan
Well Screen Interval:	10 - 15	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	14.80	ft btoc
Depth to Water:	10.06	ft btoc
Height of Water:	4.74	ft
Three Well Volumes:	2.42	gal

Notes: Olive color. Odor present.

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/12/07	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	%	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	10.06		na
	1.0	Purging	nm	nm	6.79	nm	69.4	nm		na
	2	Purging	nm	nm	6.79	nm	67.2	nm		na
	3	Purging	nm	nm	6.79	nm	70.5	nm		na
	Total 3	Collect Sample	nm	nm	nm	nm	nm	10.10	99.16%	na

WELL: RW-10

Well Purge Method: Sample Collection Method: Sample Collection Depth:

Submersible pump **Disposable Bailer** 10.24

Notes: Odor present. Gray color.

Well Screen Interval:	10' - 20'	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	19.51	ft btoc
Depth to Water:	10.22	ft btoc
Height of Water:	9.29	ft
Three Well Volumes:	4.74	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/12/07	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	%	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	10.22		na
	1	Purging	nm	nm	6.79	nm	70.8	nm		na
	2	Purging	nm	nm	6.80	nm	68.8	nm		na
	5	Purging	nm	nm	6.79	nm	67.6	nm		na
	Total 5	Collect Sample	nm	nm	nm	nm	nm	10.24	99.78%	na

Groundwater Cleaners, Inc.

Well Sampling Data (03/17/07) 301 E. 14th Street San Leandro, CA

WELL: MW-10

Well Purge Method:	Dispo
Sample Collection Method:	Dispo
Sample Collection Depth:	

Notes: Strong petroleum odor

Disposable Bailer Disposable Bailer 23.12

Well Screen Interval: ft bgs inches Casing Diameter: 2 Total Depth of Well: 37.46 ft btoc ft btoc Depth to Water: 23.09 Height of Water: 14.37 ft Three Well Volumes: 7.33 gal

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0	nm	nm	nm	6.82	nm	64.4	23.09	25	na
	1		nm	nm	nm	nm	nm			na
	3		nm	nm	6.83	nm	64.9			na
	5		nm	nm	6.83	nm	65.1			na
	Total 7 gal		nm	nm	nm	nm	nm	23.12		na

WELL: MW-11

Well Purge Method: Sample Collection Method: Sample Collection Depth: Disposable Bailer Disposable Bailer 0.00

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	34.56	ft btoc
Depth to Water:	nm	ft btoc
Height of Water:	nm	ft
Three Well Volumes:	6.12	gal

Notes: No odor present.

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	С	BTOC [ft]	Sample Depth	Depth [ft]
	nm									

WELL: MW-12

Well Purge Method: Sample Collection Method: Sample Collection Depth: Submersible pump Disposable Bailer 21.80

Notes: No odor present.

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	32.98	ft btoc
Depth to Water:	21.77	ft btoc
Height of Water:	11.21	ft
Three Well Volumes:	5.72	gal

Date/Time	Purge	Purge	D.O.	0.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
03/17/07	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	21.77		na
	2	Purging	nm	nm	6.81	nm	64.1	nm		na
	4	Purging	nm	nm	6.82	nm	64.5	nm		na
	6	Purging	nm	nm	6.82	nm	64.7	nm		na
	Total 6.0	Collect Sample	nm	nm	6.82	nm	64.7	21.80		na

Groundwater Cleaners, Inc.

Well Sampling Data (03/17/07) 301 E. 14th Street San Leandro, CA

WELL: MW-13

Well Purge Method:
Sample Collection Method:
Sample Collection Depth:

Disposable Bailer Disposable Bailer 23.00

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	37.47	ft btoc
Depth to Water:	23.00	ft btoc
Height of Water:	14.47	ft
Three Well Volumes:	7.38	gal

Notes: No petroleum odor present.

Date/Time	Purge	Purge	D.O.	0.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
3/17/2007	0- Static	Pre-Purge	nm	nm	nm	nm	nm	23.00		na
	3	Purging	nm	nm	6.81	nm	66.5	nm		na
	6	Purging	nm	nm	6.82	nm	66.0	nm		na
	9	Purging	nm	nm	6.82	nm	66.0	nm		na
	Total 9.0	Collect Sample	nm	nm	6.82	nm	66	23.00		na

WELL: MW-14

Well Purge Method: Sample Collection Method: Sample Collection Depth: Disposable Bailer Disposable Bailer 22.70

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	30.43	ft btoc
Depth to Water:	22.67	ft btoc
Height of Water:	7.76	ft
Three Well Volumes:	3.96	gal

Notes: No odor present.

Date/Time	Purge	Purge	D.O.	0.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
3/17/2007	0- Static	Pre-Purge	nm	nm	nm	nm	nm	22.67		na
	2	Purging	nm	nm	6.82	nm	67.1	nm		na
	4	Purging	nm	nm	6.82	nm	66.5	nm		na
	6	Purging	nm	nm	6.82	nm	66.5	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm	nm	22.70		na

WELL: MW-1A

Well Purge Method: Sample Collection Method: Sample Collection Depth: Submersible pump Disposable Bailer 21.40

Notes: No odor present.

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.88	ft btoc
Depth to Water:	21.37	ft btoc
Height of Water:	12.51	ft
Three Well Volumes:	6.38	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	рН	Cond.	Temp	DTW	Recovery	Pump
09/30/06	Vol. [Gal]	Status	ррт	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0		nm	nm	nm	nm	nm	21.37		na
	2		nm	nm	6.83	nm	67.4			na
	4		nm	nm	6.83	nm	66.5			na
	6		nm	nm	6.81	nm	66.3			na
	Total 6.0		nm	nm	nm	nm	nm	21.40		na

Groundwater Cleaners, Inc.

Analytical Reports





McCampbell Analytical, Inc.

"When Ouality Counts"

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

Groundwater Cleaners	Client Project ID: #301; German Autocraft	Date Sampled: 03/16/07
347 Frederick Street		Date Received: 03/19/07
San Francisco, CA 94117	Client Contact: Glenn Reierstad	Date Reported: 03/26/07
	Client P.O.:	Date Completed: 03/26/07

WorkOrder: 0703431

March 26, 2007

Dear Glenn:

Enclosed are:

- 1). the results of **8** analyzed samples from your **#301; German Autocraft 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. McCampbell 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

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Report To: Glenn Reierstad	1020	B	till To	: Sa		123)	790-1	044			+							vsis	1						(her	Commen
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Project Location: $30 (\in . !)$ Sampler Signature: $\sqrt{2}$	21020	lad	-			<i>N</i> 0,	01		•		Gas	PA	1 (80	rease	rbor	021	estic	NLY	icide	1 He	OCs	VOC	AHS	00.8	90.8	/ 60			
	SAMP			1		IATI			MET	HOD	TPH as	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515/ 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)			
	SAMP	LING	s	ner	1.	IATI	uл	P	RESE	RVE		INC	Moto	Oil	Hyd	/ 801	081	CB	(NP	(Aci	/ 826	827	831	(200	200.	8.			
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McCampbell Analytical, Inc.



1534 Willow Pass Rd

MW-12

MW-13

MW-14

MW-1A

MW-141

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA (925) 252-92	A 94565-1701 262		EDF		Work		: 07034	431 ✓ Email	-	lientID: 0 □Hard0		[Third	Party		
Report to:						Bill to						Req	uesteo	d TAT:	5	days
Glenn Reierstad Groundwater Cle 347 Frederick St San Francisco, C	sn.com 3 FAX: 415-5 n Autocraft	66-35	56	Glenn Reirstad Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117						Date Received: 03/19/2007 Date Printed: 03/19/2007						
								Req	uested	Tests (See	e lege	nd be	elow)			
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6 7	7	8	9	10	11	12
0703431-001	MW-8	Water	03/16/07		A	А										
0703431-002	MW-9	Water	03/16/07		Α											
0703431-003	MW-10	Water	03/16/07		Α											

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Test Legend:

0703431-004

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0703431-006

0703431-007

0703431-008

1	G-MBTEX_W	2 PREDF REPORT	3]	4	5
6		7	8		9	10
11		12				

Prepared by: Melissa Valles

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.

	McCampbell	Analy ality Counts		2	Web: www.m		Pittsburg, CA 94565 E-mail: main@mcca 52 Fax: 925-252-9	mpbell.com					
Groun	dwater Cleaners		Client Proj	ect ID: #30	1; German Auto	ocraft	Date Sampled: 03/16/07						
347 Fr	ederick Street					Date Received: 03/19/07							
a b			Client Con	tact: Glenn	Reierstad	Date Extract	Date Extracted: 03/21/07-03/23/07						
San Fr	ancisco, CA 94117		Client P.O.	:			Date Analyz	ed 03/21/07	-03/23	3/07			
Extracti	Gasolin on method SW5030B	e Range (•	arbons as Gasol SW8021B/8015Cm	line with BTH	EX and MTBE	* Work Order	: 070	3431			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
001A	MW-8	w	370,m	ND	ND	8.1	0.52	0.94	1	110			
002A	MW-9	W	3200,a,m	ND	2.2	37	18	2.9	1	119			
003A	MW-10	w	10,000,a,m	ND<50	71	15	46	25	10	98			
004A	MW-12	W	4900,a	ND<50	11	24	16	8.5	10	108			
005A	MW-13	w	ND	ND	ND	ND	ND	ND	1	95			
006A	MW-14	w	ND	ND	ND	1.1	ND	ND	1	105			
007A	MW-1A	W	1800,a,m	ND	1.8	17	6.4	4.4	1	108			
008A	MW-141	w	ND	ND	ND	ND	ND	ND	1	91			
										<u> </u>			
										<u> </u>			
	porting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L			
	means not detected at or ove the reporting limit	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 McCampbell 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.





NONE

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0703431

EPA Method SW8021B/8015Cm	Extra	ction SW	5030B		Ba	tchID: 26	895	Spiked Sample ID: 0703430-003A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	CS-LCSD Acceptance Criteria					
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex) [£]	ND	60	98.7	86.5	13.2	91.2	90.5	0.872	70 - 130	30	70 - 130	30		
MTBE	ND	10	99.5	95.3	4.27	105	110	4.95	70 - 130	30	70 - 130	30		
Benzene	ND	10	103	90.1	13.0	96.2	97.5	1.25	70 - 130	30	70 - 130	30		
Toluene	ND	10	100	90.4	10.4	89.1	90.8	1.84	70 - 130	30	70 - 130	30		
Ethylbenzene	ND	10	97.2	93.5	3.86	94.9	99.3	4.54	70 - 130	30	70 - 130	30		
Xylenes	ND	30	90.3	85.7	5.30	95.7	96.3	0.694	70 - 130	30	70 - 130	30		
%SS:	93	10	119	108	9.68	93	93	0	70 - 130	30	70 - 130	30		

BATCH 26895 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0703431-001A	03/16/07	03/23/07	03/23/07 1:57 AM	0703431-002A	03/16/07	03/21/07	03/21/07 5:09 PM
0703431-003A	03/16/07	03/22/07	03/22/07 12:50 AM	0703431-004A	03/16/07	03/22/07	03/22/07 8:47 AM
0703431-005A	03/16/07	03/22/07	03/22/07 9:19 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0703431

EPA Method SW8021B/8015Cm	Extra	ction SW	5030B		BatchID: 26906 Spiked Sample ID: 070									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)			
, individ	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex) [£]	ND	60	79.7	88.8	10.9	92.2	87.9	4.81	70 - 130	30	70 - 130	30		
MTBE	ND	10	95.1	103	8.04	106	107	0.447	70 - 130	30	70 - 130	30		
Benzene	ND	10	95.3	99.6	4.41	97	94.3	2.79	70 - 130	30	70 - 130	30		
Toluene	ND	10	96.2	101	5.07	87.3	87.8	0.537	70 - 130	30	70 - 130	30		
Ethylbenzene	ND	10	95.4	93.7	1.86	89.6	94.5	5.28	70 - 130	30	70 - 130	30		
Xylenes	ND	30	90.7	86.7	4.51	96.7	88.3	9.01	70 - 130	30	70 - 130	30		
%SS:	91	10	104	107	2.68	88	91	4.08	70 - 130	30	70 - 130	30		

BATCH 26906 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0703431-006A	03/16/07	03/22/07	03/22/07 9:52 AM	0703431-007A	03/16/07	03/22/07	03/22/07 10:24 AM
0703431-008A	03/16/07	03/22/07	03/22/07 10:57 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



