

Semi-Annual Groundwater Monitoring Report—4th Quarter 2009

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

Global ID No. T0600100639
AC LOP Case # 2783

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Alameda County
Environmental Health

Prepared For

Mr. Seung Lee
German Autocraft
San Leandro, CA 95070

Prepared By

Groundwater  Cleaners Inc.
Cleaning California from the Groundwater up
347 Frederick Street, San Francisco, California 94117
(415) 665-6181

Date of Report: December 21, 2009


Groundwater Cleaners Inc.
Cleaning California from the Groundwater up
347 Frederick Street, San Francisco, California 94117
(415) 665-6181

December 21, 2009

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

Attn: Mr. Seung Lee

Subject: Semi-Annual Groundwater Monitoring Report—4th Quarter 2009

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

Dear Mr. Lee:

GWC is pleased to attach the Fourth Quarter 2009, *Semi-Annual Groundwater Monitoring Report*, which includes the analytical results for groundwater samples collected in December of 2009. GWC plans to continue semi-annual groundwater sampling in accordance with Alameda County Department of Environmental Health (DEH) requirements. A letter requesting additional information and investigation was received from the DEH during the fourth quarter. A Work Plan for that investigation will be forthcoming, however, GCI does not possess the DEH desired items that pre-date our project involvement..

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


Sincerely,


Cc: Mr. Mark E. Detterman, DEH



Perjury Statement

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct, to the best of my knowledge.


Seung Lee, owner, German Autocraft

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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 semi-annually or annually to maintain a record of groundwater conditions. No active remediation has taken place since removal of the gasoline storage tank. Table 1 summarizes well construction data.

On December 5, 2007, a Corrective Action Plan was submitted to the ACEH website detailing how site cleanup might be accomplished, focusing on the core area of impacts. On February 22, 2008, Work Plans were submitted for a Soil Vapor Investigation and a Dual-phase, High-vacuum Soil Vapor Extraction with Air Sparging pilot test. Approval of those reports was received in December, 2008, and the work plans were implemented in the First Quarter, 2009.

Soil vapor tests concluded that the existing soil cover provides an effective barrier against intrusion of soil vapors into nearby dwellings, provided that the soil remains undisturbed. No continuous, permeable formations were identified that would likely serve as conduits for soil vapor transmission. Deeper soils were also found to be generally of low permeability, based on observation of soil cores from the eight soil borings performed in this investigation. See GCI's "Soil Vapor Investigation Report" dated February 27, 2009 for additional details. This report was corrected and resubmitted April 30, 2009 to

correct a laboratory error discovered by the laboratory during a Quality Assurance Review.

Dual-phase Extraction Tests performed in February, 2009, concluded that horizontal extraction wells placed just above groundwater elevation would provide the best opportunity to extract hydrocarbons for the soil and groundwater at this site. Existing monitoring wells were ineffective as sources for soil vapors, as groundwater is abundant and a flow of soil vapor could not be reliably induced from these wells. See GCI's "DPE Extraction Test Report", submitted March 31, 2009 for additional details.

1.4 Recent Activities

Monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-10, MW-13 and MW-14) were monitored in accord with the DEH requirements. The well at 141 Farrelly and MW-12 were unavailable during our visit. MW-5 was found to be blocked with debris as it has been for several years. A bailer extraction tool was used to make a new effort in trying to remove the blockage, but it was unsuccessful. The blockage was dislodged from 19.5 to 26.2 feet, and is indicative of a hard, solid object. Wells MW-1, MW-2, MW-3, MW-4 and MW-8 were thoroughly flushed out and re-measured after sampling to assure proper well depth.

2.0 Groundwater Monitoring Results

2.1 Groundwater Elevation and Gradient

The most recent groundwater elevation was much lower than found in June of 2009, indicating a normal seasonal decline. Groundwater elevations in December, 2009 were about 23 feet above mean sea level while those in June, 2009 were all about 27 feet (see Table 2). The most recent near-site flow direction, with an abnormal southwesterly bend, is shown on Figure 3. Table 2 presents groundwater elevation data for December 7, 2009, and Table 3 presents a cumulative summary of elevation data.

2.2 Groundwater Sample Collection and Analysis

This quarter's wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-10, MW-13, MW-14) were monitored and sampled by experienced personnel in accord with standard practices. All samples were placed on ice and transported to a State-certified 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

All of the monitoring well samples tested positive for at least trace amounts of Petroleum Hydrocarbons as gasoline (TPHg) and the affiliated Volatile Organic Compounds (BTEX), with highest concentrations (49,000 µg/L TPHg and 920 µg/L benzene) at MW-1 and MW-4, respectively (see Figures 4 and 5). The distribution of fuel

contaminants continues to correlate with the prevailing groundwater gradient although the benzene exhibits a noncontiguous concentration pattern. Table 4 presents groundwater analytical data for December 7, 2009, 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 a historic release of gasoline from the subject site's former underground tank, and/or the associated fueling system. Concentrations of gasoline-related petroleum compounds are highest near the former tank location, demonstrated in historic testing, and directly down-gradient from that point. Concentrations drop off sharply with distance perpendicular from the prevailing groundwater flow direction (i.e., MW-6 and MW-14). The on-site wells had contaminant concentrations on the lower side, compared with historical values. The Farrelly well has never shown fuel impacts.

In 20 years since the removal of the underground storage tank, there was 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 some seasonal fluctuations in contaminant levels.

Although the soil vapor tests show there is little risk of soil vapors intruding into dwelling spaces, the continued high levels of hydrocarbons and BTEX compounds in the soil and groundwater of the core area present a barrier to possible future uses of both the land and the groundwater.

3.2 Recommendations

GCI recommends the construction of a single, horizontal vapor-extraction well (as described in the DPE Test Report) and a repeat of the DPE tests, utilizing the new well. Tests on the new well will assess the effectiveness of the design and provide design data for any future remedial action at this site. DEH staff has alternate ideas, as well as requests for additional information and investigation work that need to be addressed. Concurrently, further semi-annual monitoring is planned.

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

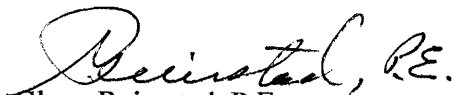
promptly to a State-certified analytical laboratory. The laboratory is audited by the State certification program for maintaining quality control procedures and for record keeping. The chain-of-custody records and certified laboratory analytical reports are attached as Appendix B.

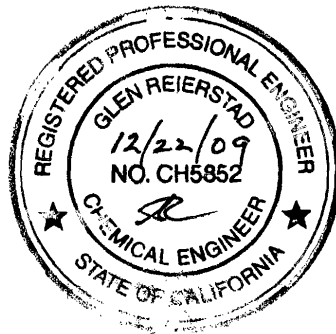
4.2 Professional Certification

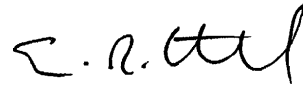
We declare, under penalty of perjury, that to the best of our knowledge, everything presented in this report is true and correct.

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

Sincerely,


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




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



Figures

Groundwater  Cleaners, Inc.
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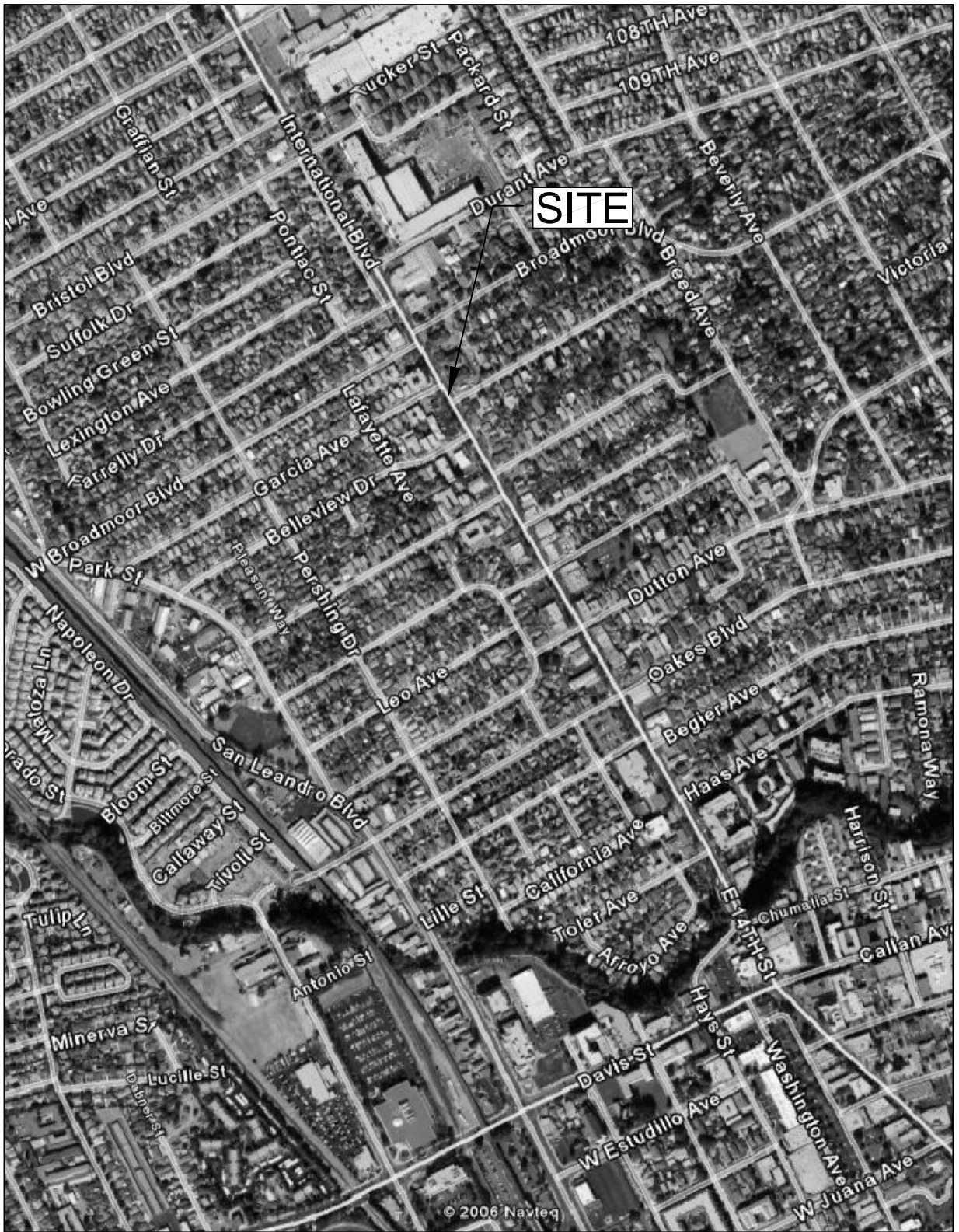


Image from Google ©2006

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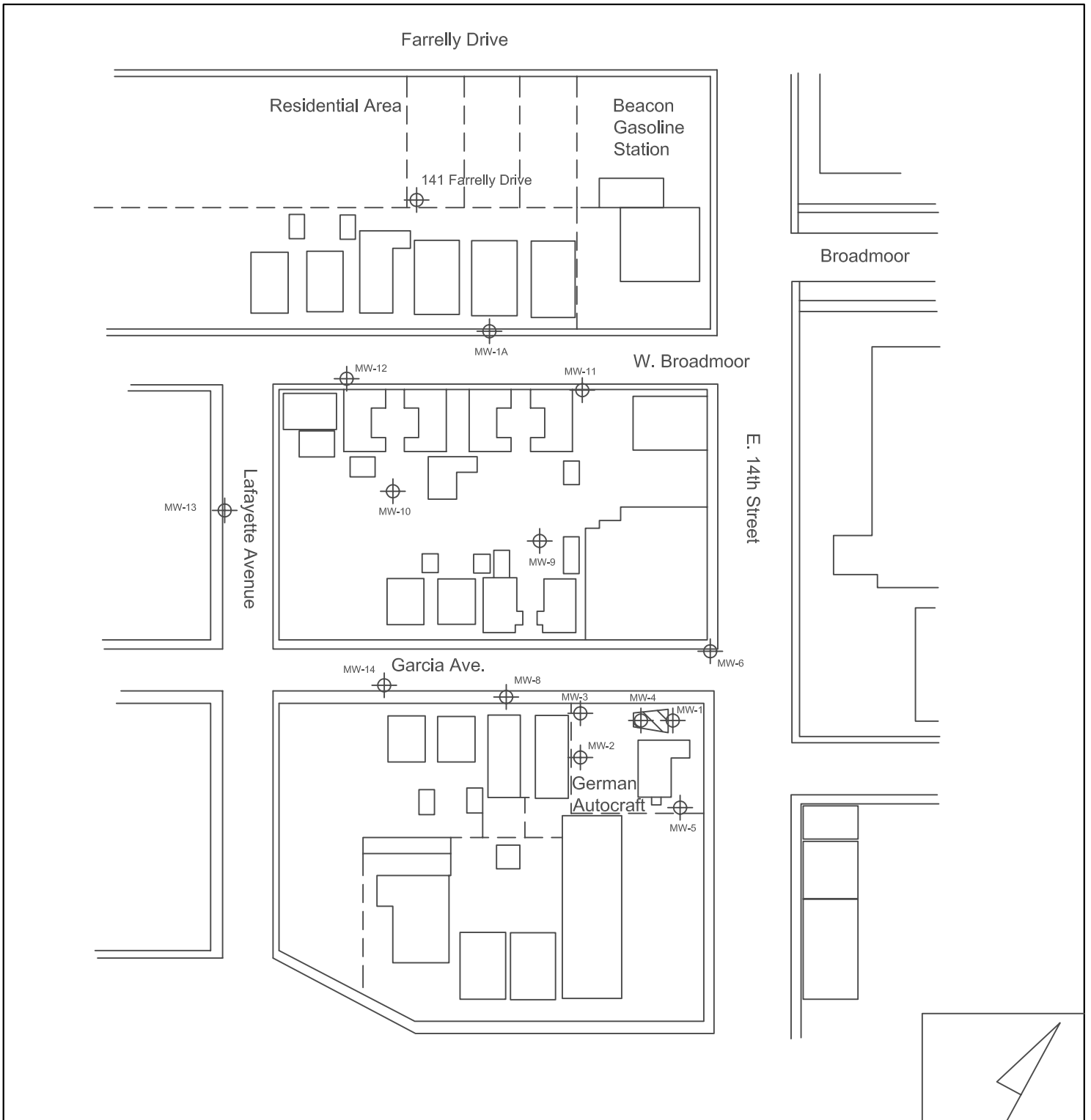
German Autocraft
301 East 14th Street
San Leandro, California

Site Area Map

Figure 1

Rev. B

10.01.06

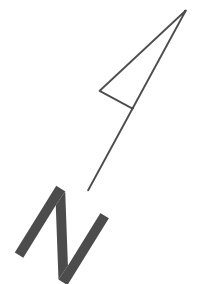


EXPLANATION:



Scale: 1"=120'

- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings



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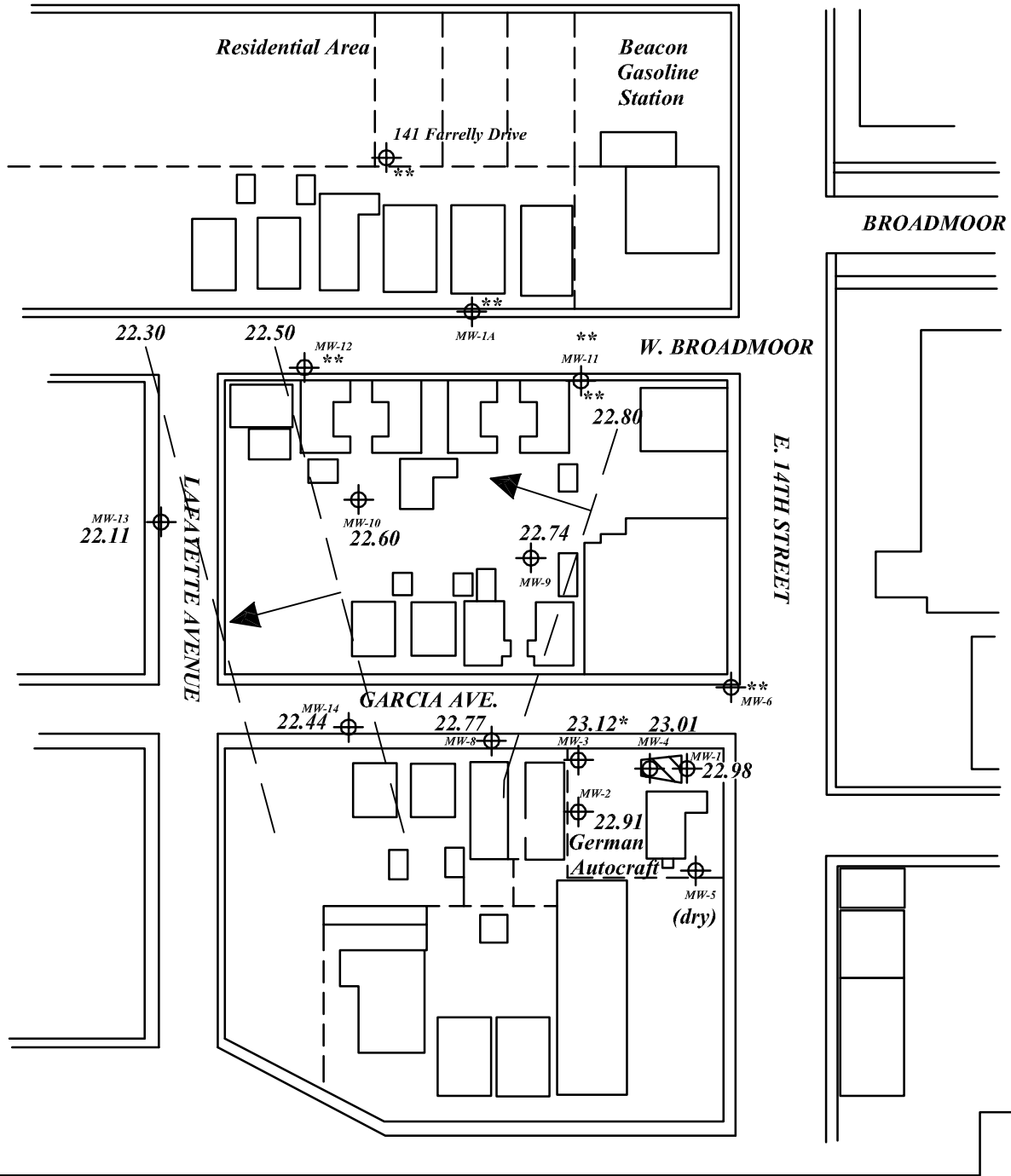
Generalized Site Map

Figure 2

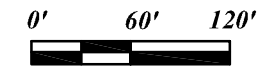
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FARRELLY DRIVE

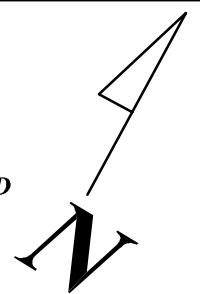


Notes:
 ** NO DATA THIS QUARTER.
 * ABNORMALLY HIGH COMPARED TO OTHER ELEVATIONS ; EXCLUDED IN CONTOURING.



Approx. Scale: 1"=120'

- STREETS/BUILDINGS
- ⊕ GROUNDWATER MONITORING WELL
- ▨ FORMER TANK PIT AREAS
- BUILDINGS



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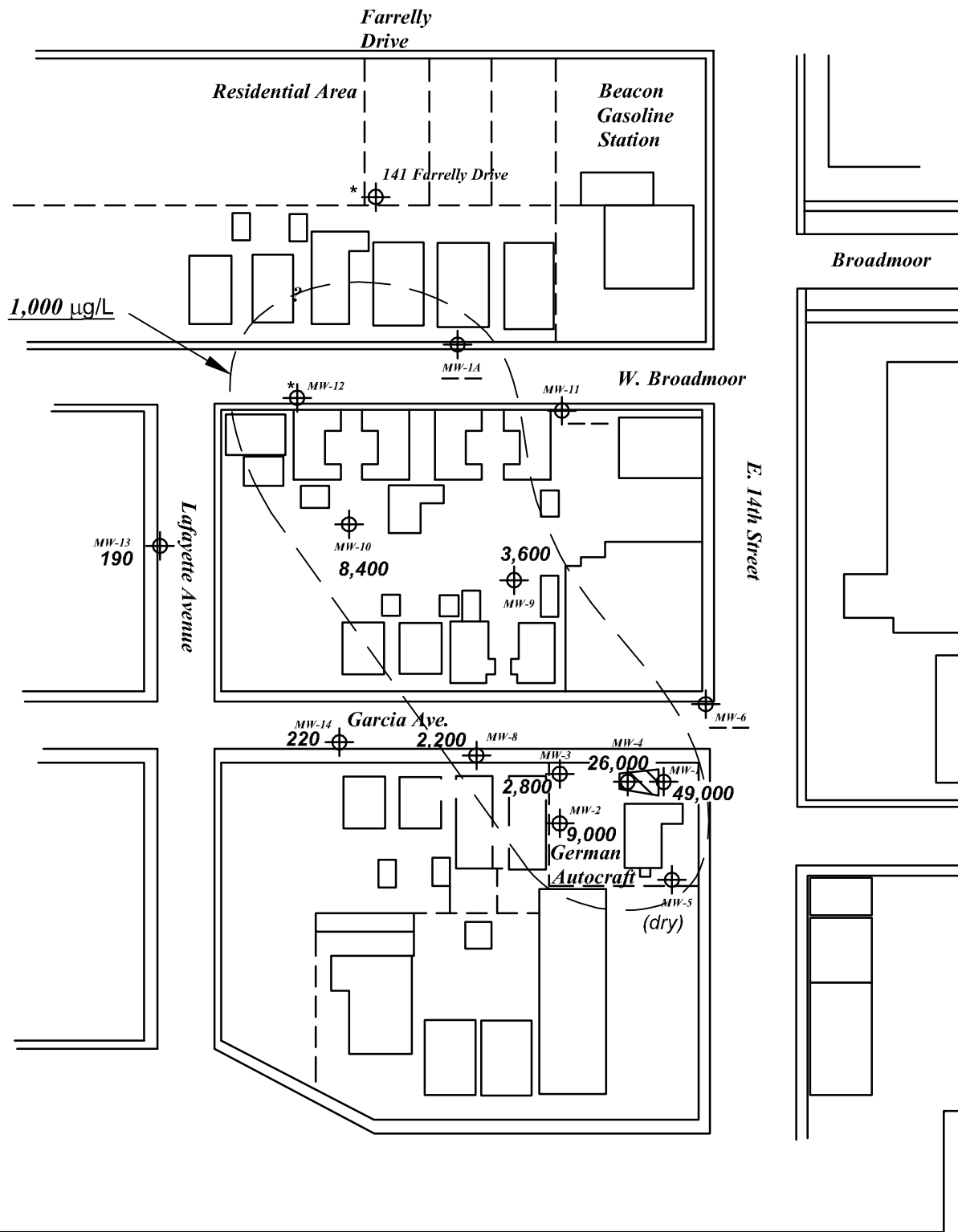
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 San Leandro, California

GROUNDWATER ELEVATIONS AND CONTOURS

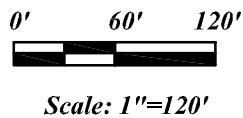
Figure 3

Rev. A

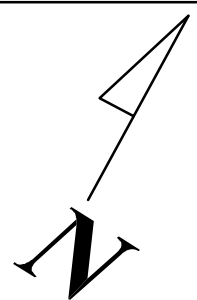
12.08.09



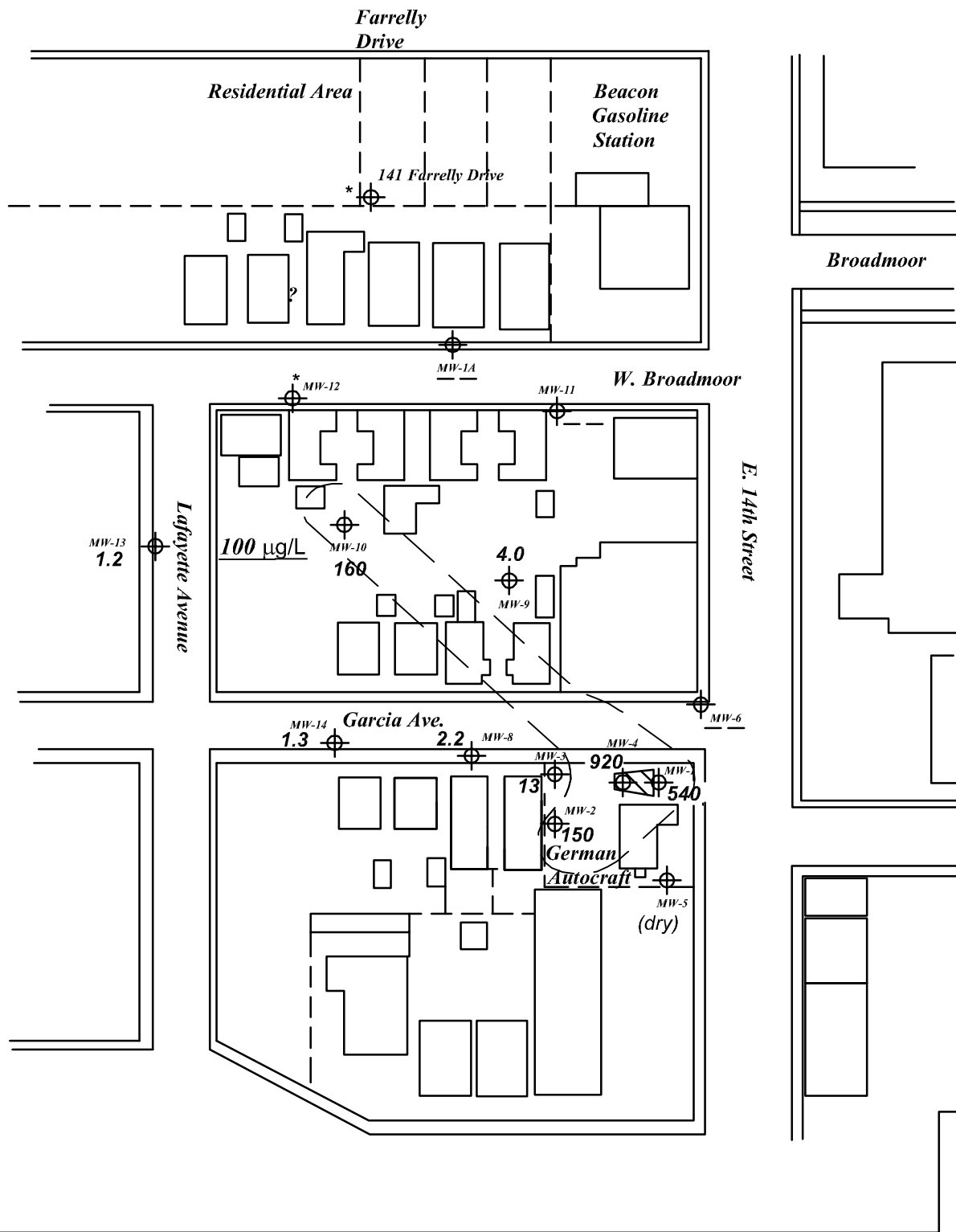
EXPLANATION:



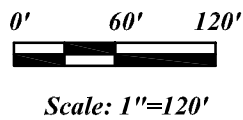
- Streets/Buildings
 - ⊕ Groundwater Monitoring Well
 - ▨ Former Tank Pit Areas
 - Buildings
 - - - Not Scheduled For Testing
 - * Well Not Available
- Concentrations in µg/L
Contouring from December 2009 data



<p>Groundwater Cleaners Inc.</p> <p>Cleaning California from the Groundwater Up</p> <p>347 Frederick Street, San Francisco, California, 94117 (415) 665-6181</p>	<p>German Autocraft</p> <p>301 East 14th Street</p> <p>San Leandro, California</p>	<p>Figure 4</p>
	<p>TPHg in Groundwater</p>	
	<p>Rev. A</p> <p>12.07.09</p>	

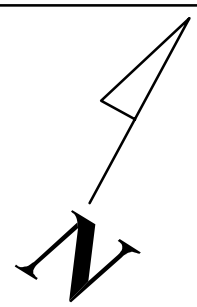


EXPLANATION:



- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ⊗ Former Tank Pit Areas
- Buildings
- Not Scheduled For Testing
- * Well Not Available

Concentrations in µg/L
Contouring from December 2009 data



Tables

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

Well Number	Date Installed	Casing Diameter (inches)	Total Depth (feet)	Screened Interval (feet)	Relative Location	TOC Elevation
MW-1	1/6/95	2	40.90	20-40 ft	Onsite	49.40
MW-2	1/6/95	2	33.33	10-35 ft	Onsite	50.02
MW-3	1/6/95	2	35.13	10-35 ft	Onsite	49.32
MW-4	12/30/98	2	34.53	10-35 ft	Onsite	49.61
MW-5	12/30/98	2	26.20	conflict	Onsite	49.57
MW-6	12/30/98	2	33.10	20-35 ft	Off-site	48.06
MW-8	12/30/98	2	29.68	20-30 ft	Off-site	49.35
MW-9	12/30/98	2	33.12	20-35 ft	Off-site	48.77
MW-10	12/30/98	2	38.41	20-40 ft	Off-site	49.93
MW-11	12/30/98	2	36.90	20-35 ft	Off-site	47.93
MW-12	3/20/01	2	38.22	23-38 ft	Off-site	48.46
MW-13	3/20/01	2	37.47	23-38 ft	Off-site	49.51
MW-14	3/20/01	2	30.43	20-30 ft	Off-site	49.54
MW-1A	5/30/97	2	33.88	20-30 ft	Off-site	48.24
141 Farrelly	4/6/96	10	65.08	25- 65 ft	Off-site	48.76

Table 2
Current Quarter Groundwater Elevations
German Autocraft, 301 E. 14th Street, San Leandro, California

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-1	12/07/09	26.42	49.40	22.98
MW-2	12/07/09	27.11	50.02	22.91
MW-3	12/07/09	26.20	49.32	23.12
MW-4	12/07/09	26.60	49.61	23.01
MW-5	12/07/09	Dry	49.57	n/a
MW-8	12/07/09	26.58	49.35	22.77
MW-9	12/07/09	26.03	48.77	22.74
MW-10	12/07/09	27.33	49.93	22.60
MW-12	12/07/09	nm	48.46	nm
MW-13	12/07/09	27.40	49.51	22.11
MW-14	12/07/09	27.10	49.54	22.44
141 Farrelly	12/07/09	nm	48.76	nm

Nm = not measured as well was unavailable for sampling.

Table 3
Cumulative Summary of Groundwater Elevations
German Autocraft, 301 E. 14th Street, San Leandro, California

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	19.81	49.40	29.59
	7/7/95	22.77	49.40	26.63
	8/10/95	23.82	49.40	25.58
	9/11/95	24.72	49.40	24.68
	10/2/95	25.28	49.40	24.12
	11/7/95	26.04	49.40	23.36
	12/8/95	18.77	49.40	22.77
	1/12/96	25.05	49.40	24.35
	2/12/96	20.36	49.40	29.04
	3/12/96	17.65	49.40	31.75
	4/13/96	19.97	49.40	29.43
	5/14/96	21.51	49.40	27.89
	6/20/96	22.21	49.40	27.19
	7/26/96	23.45	49.40	25.95
	8/19/96	24.24	49.40	25.16
	9/17/96	24.96	49.40	24.44
	10/21/96	25.77	49.40	23.63
	11/27/96	25.12	49.40	24.28
	12/27/96	21.17	49.40	28.23
	1/28/97	16.38	49.40	33.02
	4/25/97	22.26	49.40	27.14
	7/17/97	24.85	49.40	24.55
	10/21/97	26.55	49.40	22.85
	3/10/98	15.05	49.40	34.35
	6/6/98	18.71	49.40	30.69
	9/30/98	23.45	49.40	25.95
	12/30/98	24.27	49.40	25.13
	3/13/99	19.42	49.40	29.98
	9/29/99	25.01	49.40	24.39
	12/29/99	25.65	49.40	23.75
	3/18/00	17.48	49.40	31.92

	7/18/00	23.19	49.40	26.21
	9/26/00	24.39	49.40	25.01
	12/28/00	24.77	49.40	24.63
	3/30/01	21.93	49.40	27.47
	10/5/01	25.58	49.40	23.82
	3/28/02	20.74	49.40	28.66
	3/31/03	22.72	49.40	26.68
	6/19/03	23.17	49.40	26.23
	9/30/03	25.35	49.40	24.05
	2/10/04	22.44	49.40	26.96
	6/30/04	24.67	49.40	24.73
	9/14/04	27.89	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
	06/10/07	24.36	49.40	25.04
	09/14/07	25.92	49.40	23.48
	12/14/07	26.22	49.40	23.18
	03/12/08	22.40	49.40	27.00
	06/11/08	24.97	49.40	24.43
	09/05/08	26.44	49.40	22.96
	12/13/08	27.16	49.40	22.24
	03/14/09	21.82	49.40	27.58
	12/07/09	26.42	49.40	22.98

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (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
	06/10/07	25.12	50.02	24.90
	09/14/07	26.63	50.02	23.39
	12/14/07	26.58	50.02	23.44
	03/12/08	23.10	50.02	26.92
	06/11/08	25.71	50.02	24.31
	09/05/08	27.14	50.02	22.88
	12/13/08	27.83	50.02	22.19
	03/14/09	22.38	50.02	27.64
	06/03/09	25.27	50.02	24.75
	12/07/09	27.11	50.02	22.91

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
	06/10/07	24.28	49.32	25.04
	09/14/07	25.75	49.32	23.57
	12/14/07	25.96	49.32	23.36
	03/12/08	22.31	49.32	27.01
	06/11/08	24.80	49.32	24.52
	09/05/08	26.23	49.32	23.09
	12/13/08	26.93	49.32	22.39
	03/14/09	21.65	49.32	27.67
	12/07/09	26.20	49.32	23.12

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
	06/10/07	24.60	49.61	25.01
	09/14/07	26.11	49.61	23.50

	12/14/07	26.39	49.61	23.22
	03/12/08	22.62	49.61	26.99
	06/11/08	25.19	49.61	24.42
	09/05/08	26.64	49.61	22.97
	12/13/08	27.36	49.61	22.25
	03/14/09	21.96	49.61	27.65
	12/07/09	26.60	49.61	23.01

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-5	12/30/98	---	49.57	25.06
	3/13/99	---	49.57	29.93
	9/29/99	---	49.57	24.26
	3/18/00	---	49.57	23.64
	3/28/02	---	49.57	31.94
	09/14/07	Dry	49.57	n/a
	12/14/07	Dry	49.57	n/a
	06/11/08	Dry	49.57	n/a
	09/05/08	Dry	49.57	n/a
	12/13/08	Dry	49.57	n/a
	03/14/09	Dry	49.57	n/a
	12/07/09	Dry	49.57	n/a

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-6	12/30/98	---	48.06	25.14
	3/13/99	---	48.06	29.97
	9/29/99	---	48.06	24.38
	12/29/99	---	48.06	23.75
	3/18/00	---	48.06	31.86
	7/18/00	---	48.06	26.22
	9/26/00	---	48.06	24.95
	12/28/00	---	48.06	24.61
	3/30/01	---	48.06	27.41
	10/5/01	---	48.06	23.82
	3/28/02	---	48.06	28.65

	9/30/02	---	48.06	24.41
	9/30/06	22.33	48.06	25.73
	09/14/07	24.58	48.06	23.48
	12/14/07	24.88	48.06	23.18
	03/12/08	21.03	48.06	27.03
	06/11/08	23.62	48.06	24.44
	09/05/08	25.10	48.06	22.96
	12/13/08	25.81	48.06	22.25
	06/03/09	23.20	48.06	24.86

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-8	12/30/98	---	49.35	25.14
	3/13/99	---	49.35	---
	9/29/99	---	49.35	---
	12/29/99	---	49.35	---
	3/18/00	---	49.35	---
	7/18/00	---	49.35	---
	9/26/00	---	49.35	---
	12/28/00	---	49.35	---
	3/30/01	---	49.35	---
	10/5/01	---	49.35	---
	3/28/02	---	49.35	---
	9/30/06	24.07	49.35	25.28
	09/14/07	26.12	49.35	23.23
	12/14/07	26.35	49.35	23.00
	03/12/08	22.65	49.35	26.70
	06/11/08	25.23	49.35	24.12
	09/05/08	26.62	49.35	22.73
	12/13/08	27.30	49.35	22.05
	03/14/09	21.80	49.35	27.55
	06/03/09	24.83	49.35	24.52
	12/07/09	26.58	49.35	22.77

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (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
	09/14/07	25.50	48.77	23.27
	12/14/07	25.83	48.77	22.94
	03/12/08	22.08	48.77	26.69
	06/11/08	24.61	48.77	24.16
	09/05/08	26.04	48.77	22.73
	12/13/08	26.74	48.77	22.03
	03/14/09	21.46	48.77	27.31
	06/03/09	24.21	48.77	24.56
	12/07/09	26.03	48.77	22.74

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
	09/14/07	26.87	49.93	23.06
	12/14/07	27.14	49.93	22.79
	03/12/08	23.48	49.93	26.45
	06/11/08	25.98	49.93	23.95
	09/05/08	27.38	49.93	22.55
	12/13/08	28.04	49.93	21.89
	03/14/09	22.73	49.93	27.20
	12/07/09	27.33	49.93	22.60

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-11	12/30/98	---	47.93	24.78
	3/13/99	---	47.93	29.56
	9/29/99	---	47.93	24.03
	12/29/99	---	47.93	23.43
	3/18/00	---	47.93	31.38
	7/18/00	---	47.93	25.81
	9/26/00	---	47.93	24.58
	12/28/00	---	47.93	24.26
	3/30/01	---	47.93	27.03
	10/5/01	---	47.93	23.52
	3/28/02	---	47.93	28.31
	9/30/02	---	47.93	24.09
	9/30/06	22.58	47.93	25.35
	09/14/07	24.72	47.93	25.21
	12/14/07	25.00	47.93	22.93
	06/11/08	23.81	47.93	24.12
	09/05/08	25.23	47.93	22.70
	12/13/08	25.93	47.93	22.00

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-12	12/30/98	---	48.46	24.78
	3/13/99	---	48.46	29.56

	9/29/99	---	48.46	24.03
	12/29/99	---	48.46	23.43
	3/18/00	---	48.46	31.38
	7/18/00	---	48.46	25.81
	9/26/00	---	48.46	24.58
	12/28/00	---	48.46	24.26
	3/30/01	---	48.46	27.03
	10/5/01	---	48.46	23.52
	3/28/02	---	48.46	28.31
	9/30/02	---	48.46	24.09
	9/30/06	22.58	48.46	26.18
	12/11/06	23.88	48.46	24.88
	03/16/07	21.77	48.46	26.99
	06/10/07	24.06	48.46	24.70
	09/14/07	Not available	48.46	nc
	12/14/07	25.77	48.46	22.99
	03/12/08	Not available	48.46	nc
	06/11/08	24.60	48.46	23.86
	09/05/08	25.97	48.46	22.49
	12/13/08	26.66	48.46	21.80
	03/14/09	21.36	48.46	27.10
	06/03/09	24.20	48.46	24.26
	12/07/09	Not Available	48.46	nc

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-13	12/30/98	---	49.51	24.78
	3/13/99	---	49.51	29.56
	9/29/99	---	49.51	24.03
	12/29/99	---	49.51	23.43
	3/18/00	---	49.51	31.38
	7/18/00	---	49.51	25.81
	9/26/00	---	49.51	24.58
	12/28/00	---	49.51	24.26
	3/30/01	---	49.51	27.03
	10/5/01	---	49.51	23.52
	3/28/02	---	49.51	28.31
	9/30/02	---	49.51	24.09
	9/30/06	22.58	49.51	26.93
	12/11/06	25.33	49.51	24.18

	03/16/07	23.00	49.51	26.51
	06/10/07	25.50	49.51	24.01
	09/14/07	26.85	49.51	22.66
	12/14/07	27.11	49.51	22.40
	03/12/08	23.50	49.51	26.01
	06/11/08	26.02	49.51	23.49
	09/05/08	27.29	49.51	22.22
	12/13/08	27.96	49.51	21.55
	03/14/09	22.48	49.51	27.03
	06/03/09	25.61	49.51	23.90
	12/07/09	27.40	49.51	22.11

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-14	12/30/98	---	49.54	24.78
	3/13/99	---	49.54	29.56
	9/29/99	---	49.54	24.03
	12/29/99	---	49.54	23.43
	3/18/00	---	49.54	31.38
	7/18/00	---	49.54	25.81
	9/26/00	---	49.54	24.58
	12/28/00	---	49.54	24.26
	3/30/01	---	49.54	27.03
	10/5/01	---	49.54	23.52
	3/28/02	---	49.54	28.31
	9/30/02	---	49.54	24.09
	9/30/06	22.58	49.54	26.96
	12/11/06	24.90	49.54	24.64
	03/16/07	22.67	49.54	26.87
	06/10/07	25.11	49.54	24.43
	09/14/07	26.56	49.54	22.98
	12/14/07	26.80	49.54	22.74
	03/1/08	23.03	49.54	26.51
	06/11/08	25.69	49.54	23.85
	09/05/08	27.04	49.54	22.50
	12/13/08	27.72	49.54	21.82
	03/14/09	22.22	49.54	27.32
	06/03/09	25.30	49.54	24.24
	12/07/09	27.10	49.54	22.44

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
MW-1A	12/30/98	---	48.24	24.64
	3/13/99	---	48.24	29.39
	9/29/99	---	48.24	23.89
	12/29/99	---	48.24	23.29
	3/18/00	---	48.24	31.25
	7/18/00	---	48.24	25.64
	9/26/00	---	48.24	24.48
	12/28/00	---	48.24	24.13
	3/30/01	---	48.24	27.02
	10/5/01	---	48.24	23.38
	3/28/02	---	48.24	28.14
	9/30/02	---	48.24	23.96
	9/30/06	23.03	48.24	25.21
	09/14/07	25.13	48.24	23.11
	12/14/07	25.43	48.24	22.81
	03/12/08	21.75	48.24	26.49
	06/11/08	24.24	48.24	24.00
	09/05/08	25.62	48.24	22.62
	12/13/08	26.33	48.24	21.91
	03/14/09	21.07	48.24	27.17

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
141 Farrelly	03/18/00	17.90	48.76	30.86
	09/26/00	24.66	48.76	24.10
	03/30/01	22.25	48.76	26.51
	09/30/02	25.34	48.76	23.42
	12/21/02	20.07	48.76	28.69
	06/19/03	23.55	48.76	25.21
	09/14/04	26.12	48.76	22.64
	03/16/07	22.28	48.76	26.48
	09/14/07	25.98	48.76	22.78
	3/12/08	Not available	48.76	Nm
	06/11/08	Not Available	48.76	nm
	09/05/08	26.48	48.76	22.28
	12/13/08	27.20	48.76	21.56

	03/14/09	Not Available		
	06/03/09	25.83	48.76	22.93
	12/07/09	Not Available		

Table 4
Current Quarter Groundwater Analytical Data
December 8, 2009

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-1	12/07/09	49,000	540	5,500	2,000	9,400	<100
MW-2	12/07/09	9,000	150	48	170	110	<50
MW-3	12/07/09	2,800	13	43	74	150	<50
MW-4	12/07/09	26,000	920	160	2,100	3,200	<250
MW-8	12/07/09	2,200	2.2	42	10	19	<5
MW-9	12/07/09	3,600	4.0	34	18	22	<5
MW-10	12/07/09	8,400	160	26	32	34	<100
MW-13	12/07/09	190	1.2	1.6	5.8	13	<5
MW-14	12/07/09	220	1.3	2.7	6.9	15	<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
	09/14/07	92,000	1,000	9,400	4,300	23,000
	09/05/08	110,000	1,000	11,000	4,200	21,000
	03/14/09	110,000	1,000	14,000	3,700	21,000
	12/07/09	49,000	540	5,500	2,000	9,400

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
	09/14/07	11,000	2,200	53	72	150
	09/05/08	10,000	1,000	49	120	120
	03/14/09	9,800	270	28	210	110
	12/07/09	9,000	150	48	170	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
	09/14/07	6,700	16	44	200	400
	09/05/08	6,300	7.6	82	92	290
	03/14/09	3,300	13	17	56	140
	12/07/09	2,800	13	43	74	150

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
	9/14/07	10,000	1,300	96	440	560
	9/05/08	12,000	1,400	110	960	840
	03/14/09	44,000	1,700	1,000	2,600	6,700
	12/07/09	26,000	920	160	2,100	3,200

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	---	---	---	---
	9/14/07	Dry	---	---	---	---
	9/05/08	Dry				
	03/14/09	Dry				
	12/07/09	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
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/05/08	84	0.92	0.76	1.7	3.5

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
	09/14/07	1,300	1.3	20	3.0	1.6
	03/12/08	520	1.4	11	3.9	5.6
	09/05/08	1,800	1.9	30	5.0	4.0
03/14/09	950	3.1	42	36	180	
12/07/09	2,200	2.2	42	10	19	

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
	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
	9/14/07	2,600	1.4	28	13	3.2
	03/12/08	2,800	2.3	32	12	5.3
	09/05/08	3,800	2.5	40	6.1	2.8
	03/14/09	7,100	11	63	50	120
	12/07/09	3,600	4.0	34	18	22

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
	9/14/07	5,800	55	18	22	15
	03/12/08	9,300	240	23	48	37
	09/05/08	8,400	120	12	18	16
	03/14/09	8,100	300	25	36	72
	12/07/09	8,400	160	26	32	34

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
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/05/08	150	0.93	0.60	1.6	2.5

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
	6/10/07	2,600	<2.5	<2.5	13	9.5
	9/14/07	not	available			
	03/12/08	not	available			
	06/11/08	6,200	11	21	26	8.1
	09/05/08	5,000	7.3	15	12	5.9
	12/13/08	4,400	7.6	19	12	9.4
	03/14/09	6,800	16	19	20	60
	06/03/09	6,400	6.5	24	25	6.1
	12/07/09	not	available			

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
	6/10/07	54	0.80	0.84	1.3	5.4
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/14/07	ND<50	0.76	ND<0.5	2.3	2.6
	03/12/08	ND<50	ND<0.5	ND<0.5	0.66	2.2
	06/11/08	120	0.58	0.97	1.1	2.0
	09/05/08	78	ND<0.5	0.60	0.98	2.1
	12/13/08	59	0.93	<0.5	2.5	3.8
	03/14/09	260	1.1	8.8	10	46
	06/03/09	<50	<0.5	<0.5	0.65	0.69
12/07/09	190	1.2	1.6	5.8	13	

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
	6/10/07	73	1.1	1.3	1.8	7.2
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/14/07	69	1.1	0.57	3.5	4.5
	03/12/08	110	0.61	1.2	1.2	3.6

	06/11/08	52	<0.5	0.68	<0.5	1.0
	09/05/08	95	ND<0.5	1.3	0.61	2.3
	12/13/08	220	1.5	4.3	3.2	5.1
	03/14/09	360	1.4	12	13	61
	06/03/09	68	<0.5	1.9	0.81	1.1
	12/07/09	220	1.3	2.7	6.9	15

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
	9/14/07	1,500	1.1	15	2.8	1.8
	03/12/08	1,200	2.1	12	5.0	3.6
	09/05/08	1,900	2.4	14	10	5.4
	03/14/09	1,700	2.5	13	11	32

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
	9/14/07	<50	<0.5	<0.5	<0.5	<0.5
	9/5/08	<50	<0.5	<0.5	<0.5	<0.5
	12/13/08	<50	<0.5	<0.5	<0.5	<0.5
	03/14/09	not	available			
	06/03/09	<50	<0.5	<0.5	<0.5	<0.5
	12/07/09	not	available			

Well Sampling Reports

Groundwater  Cleaners, Inc.
Cleaning California from the Groundwater up
347 Frederick Street, San Francisco, California 94117
(415) 665-6181

Well Sampling Data (12/08/09)
301 E. 14th Street
San Leandro, CA

WELL: MW-1

Well Purge Method: Submersible Pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 26.44

Well Screen Interval:	10- 40	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	40.90	ft btoc
Depth to Water:	26.42	ft btoc
Height of Water:	14.48	ft
Three Well Volumes:	7.38	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]
12/08/09	0	Pre-Purge	nm	nm	nm	nm	nm	26.42		na
	2	Purging	nm	nm	7.52	nm	61.2	nm		na
	4	Purging	nm	nm	7.02	nm	64.7	nm		na
	6	Purging	nm	nm	6.84	nm	65.5	nm		na
	Total 7.0	Collect Sample	nm	nm	nm	nm		26.44	99.69%	na

WELL: MW-2

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 27.14

Well Screen Interval:	10-33.33	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.33	ft btoc
Depth to Water:	27.11	ft btoc
Height of Water:	6.22	ft
Three Well Volumes:	3.17	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]
12/08/09	0	Pre-Purge	nm	nm	nm	nm	nm	27.11		na
	2	Purging	nm	nm	6.91	nm	63.5	nm		na
	4	Purging	nm	nm	6.81	nm	64.3	nm		na
	6	Purging	nm	nm	6.80	nm	64.7	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm		27.14	99.52%	na

WELL: MW-3

Well Purge Method: Disposable Bailer
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 26.24

Well Screen Interval:	10-35	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	35.13	ft btoc
Depth to Water:	26.20	ft btoc
Height of Water:	8.93	ft
Three Well Volumes:	4.55	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]
12/08/09	0	Pre-Purge	nm	nm	nm	nm	nm	26.20		na
	2	Purging	nm	nm	7.31	nm	63.6	nm		na
	4	Purging	nm	nm	7.12	nm	65.5	nm		na
	5	Purging	nm	nm	7.11	nm	66.0	nm		na
	Total 5.0	Collect Sample	nm	nm	nm	nm		26.24	99.55%	na

Well Sampling Data (12/08/09)
301 E. 14th Street
San Leandro, CA

WELL: MW-4

Well Purge Method: Disposable Bailer
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 26.20

Well Screen Interval:	10-34	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	34.53	ft btoc
Depth to Water:	26.20	ft btoc
Height of Water:	8.33	ft
Three Well Volumes:	4.25	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	0- Static	Pre-Purge	nm	nm	nm	nm	nm	26.20		na
	2	Purging	nm	nm	6.88	nm	63.6	nm		na
	4	Purging	nm	nm	6.77	nm	64.7	nm		na
	5	Purging	nm	nm	6.78	nm	64.9	nm		na
	Total 5.0	Collect Sample	nm	nm	nm	nm	nm	26.20	100.00%	na

WELL: MW-5

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

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	26.20	ft btoc
Depth to Water:	Dry	ft btoc
Height of Water:	n/a	ft
Three Well Volumes:	0.00	gal

Dry

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp C	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	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: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 23.20

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

No sample

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/08/09		nm	nm	nm	nm	nm	nm	24.58		
		nm	nm	nm	nm	nm	nm	nm		
		nm	nm	nm	nm	nm	nm	nm		
		nm	nm	nm	nm	nm	nm	nm		
		nm	nm	nm	nm	nm	nm	23.20	99.70%	

Well Sampling Data (12/08/09)
301 E. 14th Street
San Leandro, CA

WELL: MW-8

Well Purge Method: Submersible Pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 26.58

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	29.69	ft btoc
Depth to Water:	26.58	ft btoc
Height of Water:	3.11	ft
Three Well Volumes:	1.59	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
12/08/09	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0	nm	nm	nm	nm	nm	nm	26.12	25	na
	1	nm	nm	nm	6.74	nm	63.5	nm		na
	2	nm	nm	nm	6.65	nm	65.4	nm		na
	3	nm	nm	nm	6.68	nm	65.7	nm		na
	Total 4.0	nm	nm	nm	nm	nm	nm	26.58	100.00%	na

WELL: MW-9

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 26.08

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.12	ft btoc
Depth to Water:	26.03	ft btoc
Height of Water:	7.09	ft
Three Well Volumes:	3.62	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
12/08/09	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0	nm	nm	nm	nm	nm	nm	25.58		
	1	nm	nm	nm	7.19	nm	61.1	nm		
	2	nm	nm	nm	7.04	nm	63.7	nm		
	3	nm	nm	nm	7.00	nm	64.3	nm		
	Total 4.0	nm	nm	nm	nm	nm	nm	26.08	99.69%	

WELL: MW-10

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 27.36

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	38.41	ft btoc
Depth to Water:	27.33	ft btoc
Height of Water:	11.08	ft
Three Well Volumes:	5.65	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
12/08/09	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	27.33		na
	2	Purging	nm	nm	6.77	nm	61.1	nm		na
	4	Purging	nm	nm	6.63	nm	63.7	nm		na
	6	Purging	nm	nm	6.70	nm	64.3	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm	nm	27.36	99.91%	na

Well Sampling Data (12/08/09)
301 E. 14th Street
San Leandro, CA

WELL: MW-11

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 25.93

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.70	ft btoc
Depth to Water:		ft btoc
Height of Water:		ft
Three Well Volumes:		gal

Note: Well not scheduled for sampling

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	0- Static	Pre-Purge	nm	nm	nm	nm	nm	0.00		na
		Purging	nm	nm		nm		nm		na
		Purging	nm	nm		nm		nm		na
		Purging	nm	nm		nm		nm		na
		Collect Sample	nm	nm	nm	nm	nm	25.93	100.00%	na

WELL: MW-12

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: na
 y parked car, not available for sample

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	38.10	ft btoc
Depth to Water:	nm	ft btoc
Height of Water:	nc	ft
Three Well Volumes:	nc	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	0- Static	Pre-Purge	nm	nm	nm	nm	nm	nm		na
	2	Purging	nm	nm	nm	nm	nm	nm		na
	4	Purging	nm	nm	nm	nm	nm	nm		na
	6	Purging	nm	nm	nm	nm	nm	nm		na
	Total 8 gal	Collect Sample	nm	nm	nm	nm	nm	nm	100.00%	na

WELL: 141 Farrelly Dr.

Well Purge Method: Disposable Bailer
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 0.00
 available for sample

Well Screen Interval:	-	ft bgs
Casing Diameter:	10	inches
Total Depth of Well:	33.88	ft btoc
Depth to Water:	nm	ft btoc
Height of Water:	nc	ft
Three Well Volumes:	nc	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/08/09	0		nm	nm	nm	nm	nm	21.37		na
	1		nm	nm		nm				na
	2		nm	nm		nm				na
	3		nm	nm		nm				na
			nm	nm	nm	nm	nm		100.00%	na

Well Sampling Data (12/08/09)
301 E. 14th Street
San Leandro, CA

WELL: MW-13

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 27.40

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	37.47	ft btoc
Depth to Water:	27.40	ft btoc
Height of Water:	10.07	ft
Three Well Volumes:	5.14	gal

Notes: No petroleum odor present.

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	0- Static	Pre-Purge	nm	nm	nm	nm	nm	27.40		na
	2	Purging	nm	nm	6.78	nm	61.4	nm		na
	4	Purging	nm	nm	6.67	nm	63.7	nm		na
	6	Purging	nm	nm	6.61	nm	64.6	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm	nm	27.40	100.00%	na

WELL: MW-14

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 27.10

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	30.43	ft btoc
Depth to Water:	27.10	ft btoc
Height of Water:	3.33	ft
Three Well Volumes:	1.70	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
12/8/2009	0- Static	Pre-Purge	nm	nm	nm	nm	nm	27.10		na
	1	Purging	nm	nm	6.85	nm	63.5	nm		na
	2	Purging	nm	nm	6.74	nm	65.2	nm		na
	4	Purging	nm	nm	6.71	nm	65.6	nm		na
	Total 4.0	Collect Sample	nm	nm	nm	nm	nm	27.10	100.00%	na

WELL: MW-1A

Well Purge Method: Submersible pump
 Sample Collection Method: Disposable Bailer
 Sample Collection Depth: 21.08

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

No sample

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery Sample Depth	Pump Depth [ft]
03/14/09	0		nm	nm	nm	nm	nm	21.37		na
			nm	nm		nm				na
			nm	nm		nm				na
			nm	nm		nm				na
			nm	nm	nm	nm	nm	21.08	99.88%	na

Analytical Reports

Groundwater  Cleaners, Inc.
Cleaning California from the Groundwater up
347 Frederick Street, San Francisco, California 94117
(415) 665-6181



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

Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117	Client Project ID: #301; German Autocraft	Date Sampled: 12/07/09
		Date Received: 12/09/09
	Client Contact: Glenn Reierstad	Date Reported: 12/15/09
	Client P.O.:	Date Completed: 12/11/09

WorkOrder: 0912256

December 15, 2009

Dear Glenn:

Enclosed within are:

- 1) The results of the **9** analyzed samples from your project: **#301; German Autocraft,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0912256

ClientCode: GCF

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Glenn Reierstad Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117 415-577-9383 FAX 415-566-3556	Email: reierstad@msn.com cc: PO: ProjectNo: #301; German Autocraft	Bill to:	Glenn Reirstad Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117	Requested TAT: 5 days Date Received: 12/09/2009 Date Printed: 12/09/2009
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Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0912256-001	MW-1	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-002	MW-2	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-003	MW-3	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-004	MW-4	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-005	MW-8	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-006	MW-9	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-007	MW-10	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-008	MW-13	Water	12/7/2009	<input type="checkbox"/>	A												
0912256-009	MW-14	Water	12/7/2009	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Groundwater Cleaners**

Date and Time Received: **12/9/2009 4:40:57 PM**

Project Name: **#301; German Autocraft**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **0912256** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
 - Container/Temp Blank temperature Cooler Temp: 4.2°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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

Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117	Client Project ID: #301; German Autocraft	Date Sampled: 12/07/09
	Client Contact: Glenn Reierstad	Date Received: 12/09/09
	Client P.O.:	Date Extracted: 12/10/09
		Date Analyzed: 12/10/09

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0912256

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	49,000	ND<100	540	5500	2000	9400	20	120	d1
002A	MW-2	W	9000	ND<50	150	48	170	110	10	120	d1
003A	MW-3	W	2800	ND<50	13	43	74	150	10	101	d1
004A	MW-4	W	26,000	ND<250	920	160	2100	3200	50	114	d1
005A	MW-8	W	2200	ND	2.2	42	10	19	1	91	d1
006A	MW-9	W	3600	ND	4.0	34	18	22	1	98	d1
007A	MW-10	W	8400	ND<100	160	26	32	34	20	114	d1
008A	MW-13	W	190	ND	1.2	1.6	5.8	13	1	108	d1,b1
009A	MW-14	W	220	ND	1.3	2.7	6.9	15	1	117	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 47488

WorkOrder 0912256

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0912195-002A			
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) ^f	ND	60	110	113	2.96	116	113	2.75	70 - 130	20	70 - 130	20
MTBE	ND	10	104	109	4.99	108	104	3.32	70 - 130	20	70 - 130	20
Benzene	ND	10	106	108	1.51	104	107	2.81	70 - 130	20	70 - 130	20
Toluene	ND	10	94.9	96.8	1.93	96.1	95.2	0.945	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	86.2	98.4	13.2	95.4	96.2	0.831	70 - 130	20	70 - 130	20
Xylenes	ND	30	112	114	1.55	114	112	2.09	70 - 130	20	70 - 130	20
%SS:	101	10	98	99	1.28	99	100	1.41	70 - 130	20	70 - 130	20

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

BATCH 47488 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0912256-001A	12/07/09	12/10/09	12/10/09 1:01 PM	0912256-002A	12/07/09	12/10/09	12/10/09 1:33 PM
0912256-003A	12/07/09	12/10/09	12/10/09 2:06 PM	0912256-004A	12/07/09	12/10/09	12/10/09 2:38 PM
0912256-005A	12/07/09	12/10/09	12/10/09 3:43 PM	0912256-006A	12/07/09	12/10/09	12/10/09 4:16 PM
0912256-007A	12/07/09	12/10/09	12/10/09 3:11 PM	0912256-008A	12/07/09	12/10/09	12/10/09 4:49 PM
0912256-009A	12/07/09	12/10/09	12/10/09 5:21 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.