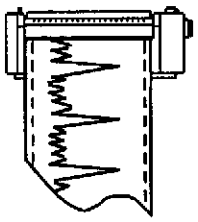
FIRST QUARTER 1999

QUARTERLY GROUNDWATER MONITORING REPORT

PROPOSAL FOR ADDITIONAL WELL POINTS

GERMAN AUTOCRAFT
301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

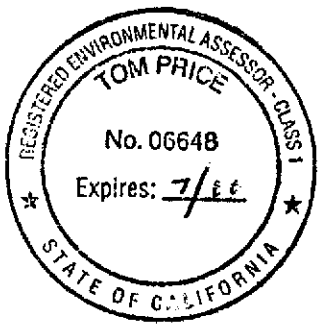
Prepared by:



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

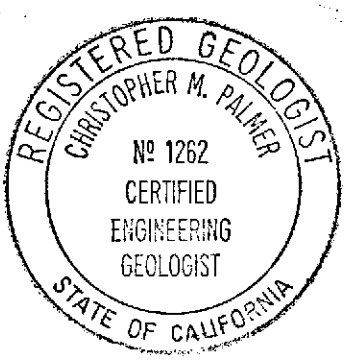
Prepared For:

Mr. Seung Lee
301 E. 14th Street
San Leandro, California



Tom Price, REA, CHMM
Project Manager

Christopher M. Palmer, RG, CEG, HG
Project Geologist



Report issued July 13, 1999

I. INTRODUCTION 2
II. BACKGROUND 3
III. WORK PERFORMED DURING FIRST QUARTER/MARCH 1999 3
IV. GROUNDWATER ELEVATION AND GRADIENT 4
V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS 4
VI. DISCUSSION AND CONCLUSIONS 7
VII. RECOMMENDATIONS 7
VIII. LIMITATIONS 8
IX. REFERENCES 9
TABLE 1. FIRST QUARTER 1999 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA 11
TABLE 2. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA 12
TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020) 13
TABLE 4. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8260) 14
TABLE 5. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020) 15
FIGURE 1: LOCATION MAP 19
FIGURE 2: SITE MAP 20
FIGURE 3: VICINITY MAP WITH GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP (3/13/99) 21
FIGURE 4: VICINITY MAP WITH GROUNDWATER TOTAL PETROLEUM HYDROCARBON CONCENTRATIONS (3/22-23/99) 22
FIGURE 5: VICINITY MAP WITH GROUNDWATER BENZENE CONCENTRATIONS (3/22-23/99) 23
APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES 24
APPENDIX B: LABORATORY REPORTS AND CHAINS-OF-CUSTODY FORMS 25
APPENDIX C: FIELD DATA SHEETS/GROUNDWATER SAMPLING 26
APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM 27
APPENDIX E: REPORT DISTRIBUTION LIST 28

I. INTRODUCTION

Environmental Testing & Management (ETM) has continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar first quarter/March 1999 at German Autocraft located at 301 East 14th Street in the City of San Leandro, Alameda County, California (**Figure 1**). This report is submitted to the Alameda County Department of Environmental Health (ACDEH) on behalf of Mr. Seung Lee, owner of German Autocraft.

The purpose of this quarterly monitoring program is to evaluate groundwater quality in the area of five former underground fuel storage tanks (USTs) that were removed in 1990. Data accumulated from the program will be used to assess seasonal groundwater level fluctuations, changing groundwater quality conditions, and provide data which will support the development of corrective action plans at the site. The quarterly monitoring program presents a description of the groundwater monitoring activities, a compilation of groundwater quality and elevation data and a brief description of the progress of the development of corrective actions at the site.

II. BACKGROUND

German Autocraft is located at 301 E. 14th Street in San Leandro (see Location Map, **Figure 1**). The approximate locations of buildings, property boundaries, and adjacent streets are presented on the Site Map, **Figure 2.** For detailed descriptions of prior environmental activities at the subject site, please refer to the references section of this report for a listing of reports which have been submitted to the ACDEH.

III. WORK PERFORMED DURING FIRST QUARTER/MARCH 1999

Work included groundwater level gauging and sampling, data analysis, and report preparation. Activity highlights during this period are as follows:

- **March 13, 1999** - **ETM measured groundwater elevations in all wells of the monitoring program including the private well at 141 Farrelly Drive.**

- **March 22-23, 1999** - ETM measured groundwater elevations and collected groundwater samples from monitoring wells MW-1, MW-2, and MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, and MW-1A as shown on **Figure 3.**

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected on March 13, 1999, indicated that over the area of the project, the elevation of the shallow groundwater surface ranged from 29.31 to 29.98 feet above mean sea level. The estimated groundwater flow direction was westerly (approximate gradient = 0.002 ft/ft).

Table 1 presents the recent groundwater elevation data and **Figure 3** shows estimated groundwater flow direction as interpreted from the groundwater potentiometric elevation data. **Table 2** presents historic groundwater elevation data.

The groundwater flow patterns observed this quarter are consistent with previous observations.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On March 22-23, 1999, groundwater samples were collected from **MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A** following the groundwater sampling procedures presented in **Appendix A.** The groundwater samples were analyzed for TPHg, BTEX by EPA Methods 5030, 8015, and 8020 as tabulated on **Table 3.** Selected groundwater samples were also analyzed TBA, MTBE, DIPE, ETBE, and TAME using EPA Methods 8260 as tabulated on **Table 4.** All samples were tested by Entech Analytical Labs, Inc. of Sunnyvale, California. The laboratory report and chain-of-custody documents are included in **Appendix B.** The field sampling data sheets are presented in **Appendix C.** The quality assurance/quality control description is included in **Appendix D.** Historic groundwater chemical test data by EPA Methods 5030, 8015, and 8020 is tabulated in **Table 5.**

Selected BTEX chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (**Table 3**). No gasoline oxygenate additive-related compounds were detected in two samples collected from MW-1A.

The sample from MW-1, located upgradient of the former gasoline tank area, contained: TPHg at 250,000 micrograms per liter (µg/L); benzene at 8,000 µg/L which exceeds its MCL of 1 µg/L; toluene at 43,000 µg/L which exceeds its MCL of 150 µg/L; ethyl benzene at 5,200 µg/L which exceeds its MCL of 700 µg/L, and; total xylenes at 27,000 µg/L which exceeds its MCL of 1,750 µg/L.

The sample from MW-2, located down gradient of the former gasoline tank area, contained 5,700 µg/L of TPHg, 580 µg/L of benzene, 9.4 µg/L of toluene, 400 µg/L of ethyl benzene, and 280 µg/L of total xylenes.

Monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 44,000 µg/L of TPHg, 3,500 µg/L of benzene, 1,000 µg/L of toluene, 1,700 µg/L of ethyl benzene, and 5,200 µg/L of total xylenes.

Monitoring well MW-4, located in the former UST area, contained 89,000 µg/L of TPHg, 5,900 µg/L of benzene, 8,700 µg/L of toluene, 2,000 µg/L of ethyl benzene, and 9,200 µg/L of total xylenes.

Monitoring well MW-5 contained 470 µg/L of TPHg, 3.8 µg/L of benzene, 0.51 µg/L of toluene, 2.0 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

Monitoring well MW-6 contained 390 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

Monitoring well MW-8 contained 2,300 µg/L of TPHg, 34 µg/L of benzene, 1.1 µg/L of toluene, 15 µg/L of ethyl benzene, and 13 µg/L of total xylenes.

Monitoring well MW-9 contained 27,000 µg/L of TPHg, 35 µg/L of benzene, <20 µg/L of toluene, 600 µg/L of ethyl benzene, and 920 µg/L of total xylenes.

Monitoring well MW-10 contained 6,600 µg/L of TPHg, 150 µg/L of benzene, 33 µg/L of toluene, 240 µg/L of ethyl benzene, and 170 µg/L of total xylenes.

Monitoring well MW-11 contained <50 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

VI. DISCUSSION AND CONCLUSIONS

Selected wells' various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL).

Available data, including data from the March 1999 monitoring events, indicate that groundwater flow patterns beneath the site are consistent with previous monitoring events for the project.

The current contaminant distribution shows the most elevated TPHG and benzene levels are near the source. The TPHG plume have moved west-northwesterly, as has the benzene plume. However, benzene concentrations decrease significantly beyond Garcia Avenue, and was just above detection limits at MW-1A and not detected at MW-10.

Mr. Mitch Ramirez, the owner of the 141 Farrelly Drive private agricultural well was interviewed and told ETM the following historical information regarding his property and well:

1) His house was constructed in 1949 and the well was already in place.

2) The agricultural well known as the "old Farrelly well" was used for cherry orchard irrigation.

3) He used the well three times last year under the impression that his well was "clean" and safe to use.

We sent Mr. Ramirez a letter explaining the status of this groundwater monitoring program. ETM explained that we did not recommend that he continue to use the well. ETM told Mr. Ramirez that although gasoline had not been detected in 1996 in his well, if he continued to pump his well it could be expected that gasoline could enter his well. Mr. Ramirez was informed that our study indicates that the groundwater gasoline plume configuration may have been influenced by pumping his well at 141 Farrelly Drive in the past.

VII. RECOMMENDATIONS

We recommend a reduction in sampling frequency according to the following schedule:

Quarterly:	MW-2, MW-3, MW-8, MW-9, MW-10
Semi-Annual:	MW-1A, MW-11, MW-6
Annual:	MW-1, MW-4, MW-5

We recommend that all of the monitoring wells continue to be gauged on a quarterly basis to comply with the ACDEH requirements and to assess trends in constituent concentrations over time. The data will be used to support development of a corrective action plan at the site.

Three additional wells are proposed to monitor the down-gradient edge of the plume and provide additional flow pattern data. The locations of the proposed wells are shown on **Figure 2.**

We recommend that a well survey be conducted.

VIII. LIMITATIONS

The data, information, interpretations and recommendations contained in this report are presented to meet current suggested regulatory requirements for determining groundwater quality on the site. Environmental Testing & Mgmt. is not responsible for laboratory errors or completeness of other consultants reports, and no warranty is made or implied therein.

The conclusions and professional opinions presented herein were developed by ETM in accordance with current regulatory guidance and the opinions expressed are subject to revisions in light of new information which may develop in the future.

IX. REFERENCES

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Woodward-Clyde Consultants, *Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination, San Leandro Plume, San Leandro, California, Volume I*, December 23, 1993.

TABLE 1. FIRST QUARTER 1999 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		March 13, 1999	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.49	19.51	29.98
MW-2	50.01	20.21	29.80
MW-3	49.32	19.49	29.83
MW-4	49.60	19.71	29.89
MW-5	49.57	19.64	29.93
MW-6	48.06	18.09	29.97
MW-8	49.35	19.77	29.58
MW-9	48.77	19.19	29.58
MW-10	49.92	20.61	29.31
MW-11	47.93	18.37	29.56
MW-1A	48.24	18.85	29.39
141 Farrelly	48.81	19.97	28.84

[1]Elevations in feet above mean sea level.

TABLE 2. HISTORICAL GROUNDWATER ELEVATION DATA

Elevation in Feet Above Mean Sea Level

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
12/21/90	19.15	-	-	-	-	-	-	-	-	-	-	-
2/10/95	29.59	29.62	29.57	-	-	-	-	-	-	-	-	-
7/7/95	26.63	26.47	26.50	-	-	-	-	-	-	-	-	-
8/10/95	25.58	25.40	25.44	-	-	-	-	-	-	-	-	-
9/11/95	24.68	24.49	24.54	-	-	-	-	-	-	-	-	-
10/2/95	24.12	23.94	24.00	-	-	-	-	-	-	-	-	-
11/7/95	23.36	23.13	23.21	-	-	-	-	-	-	-	-	-
12/8/95	22.77	22.55	22.62	-	-	-	-	-	-	-	-	-
1/12/96	24.35	24.20	24.25	-	-	-	-	-	-	-	-	-
2/12/96	29.04	29.03	29.00	-	-	-	-	-	-	-	-	-
3/12/96	31.75	31.60	31.67	-	-	-	-	-	-	-	-	-
4/13/96	29.43	29.25	29.26	-	-	-	-	-	-	-	-	-
5/14/96	27.89	27.68	27.71	-	-	-	-	-	-	-	-	-
6/20/96	27.19	26.97	27.00	-	-	-	-	-	-	-	-	-

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
7/26/96	25.95	25.74	25.76	-	-	-	-	-	-	-	-	-
8/19/96	25.16	24.97	25.01	-	-	-	-	-	-	-	-	-
9/17/96	24.44	24.22	24.27	-	-	-	-	-	-	-	-	-
10/21/96	23.63	23.43	23.48	-	-	-	-	-	-	-	-	-
11/27/96	24.28	24.09	24.13	-	-	-	-	-	-	-	-	-
12/27/96	28.23	28.03	28.11	-	-	-	-	-	-	-	-	-
1/28/97	33.02	32.71	32.78	-	-	-	-	-	-	-	-	-
4/25/97	27.14	26.88	26.94	-	-	-	-	-	-	-	-	-
7/17/97	24.55	24.31	24.37	-	-	-	-	-	-	-	-	-
10/21/97	22.85	22.69	22.73	-	-	-	-	-	-	-	-	-
3/10/98	34.35	34.20	34.13	-	-	-	-	-	-	-	-	-
6/6/98	30.69	30.41	30.47	-	-	-	-	-	-	-	-	-
9/30/98	25.95	25.68	25.75	-	-	-	-	-	-	-	-	-
12/30/98	25.13	24.93	24.99	25.05	25.06	25.14	24.75	24.79	24.78	24.78	24.64	-
3/13/99	29.98	29.80	29.83	29.89	29.93	29.97	29.58	29.58	29.31	29.56	29.39	28.84

TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

Locations: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A

Date Sampled: March 22-23, 1999 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	250,000	8,000	43,000	5,200	27,000
MW-2	5,700	580	9.4	400	280
MW-3	44,000	3,500	1,000	1,700	5,200
MW-4	89,000	5,900	8,700	2,000	9,200
MW-5	470	3.8	0.51	2.0	<0.5
MW-6	390	<0.5	<0.5	<0.5	<0.5
MW-8	2,300	34	1.1	15	13
MW-9	27,000	35	<20	600	920
MW-10	6,600	150	33	240	170
MW-11	<50	<0.5	<0.5	<0.5	<0.5
MW-1A	1,800	4.0	<0.5	3.0	7.5
MW-1A[2]	2,200	10	0.52	3.1	7.1
MCL/AL[3]	-	1	150	700	1,750

[2]A blind duplicate sample of MW-1A was labeled "MW-12" and submitted as a blind duplicate. No quality control/quality assurance problems are apparent.

[3]Maximum Contaminant Level or Action Level as established by the State of California, Division of Drinking Water and Environmental Management, Department of Health Services "Summary, Maximum Contaminant and Action Levels" November, 1994.

TABLE 4. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8260)

Location: MW-1A

Date Sampled: March 23, 1999 Units: µg/L

WELL	TBA	MTBE	DIPE	ETBE	TAME
MW-1A	<100	<25	<25	<25	<25
MW-1A[4]	<20	<5	<5	<5	<5

[4]A blind duplicate sample of MW-1A was labeled "MW-12" and submitted as a blind duplicate. No quality control/quality assurance problems are apparent.

TABLE 5. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

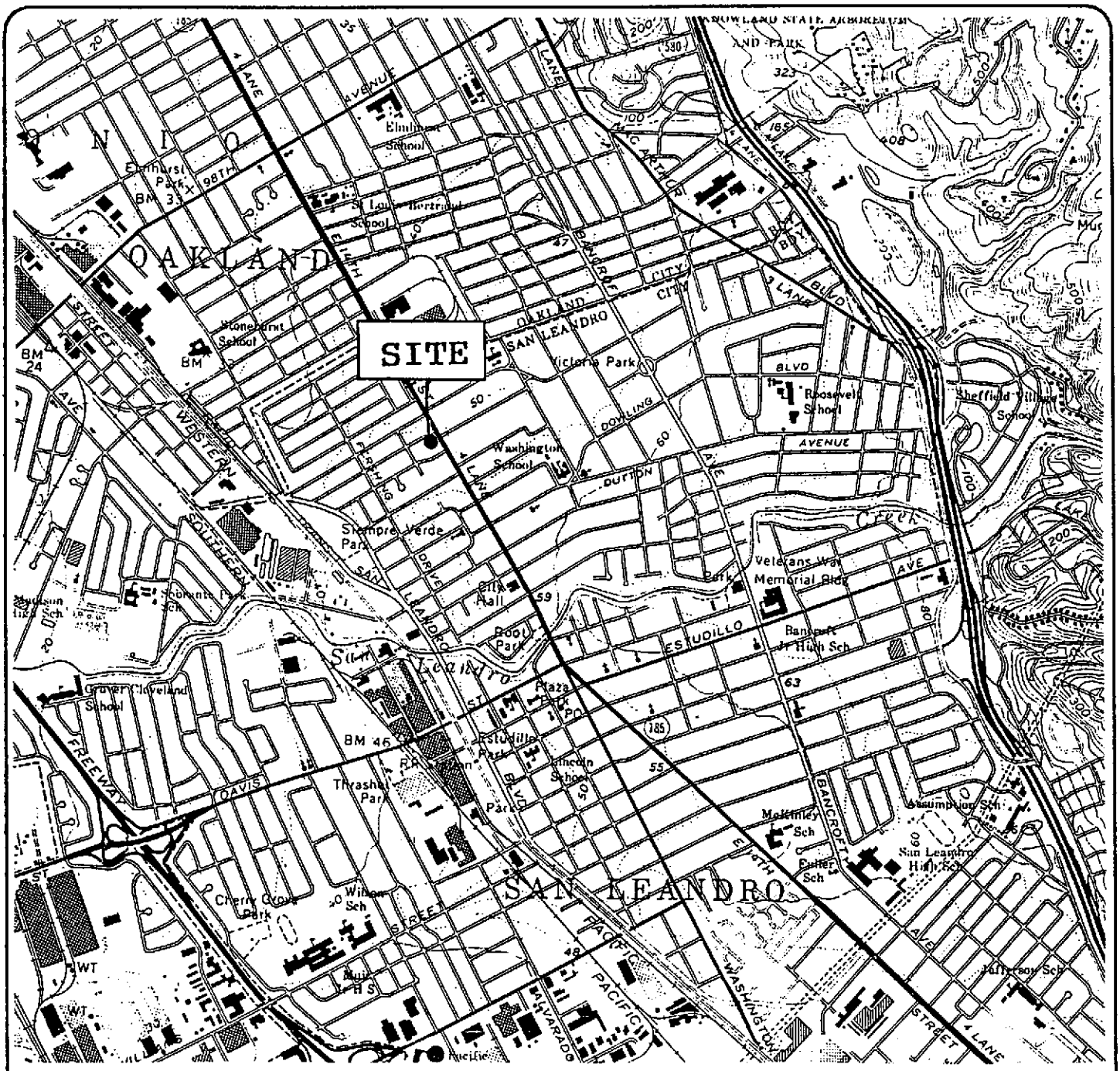
Locations: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A. Units: µg/L

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
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
	7/6/95	47,000	4,800	9,500	930	5,000
	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	2,900	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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	12/30/98	9,300	510	96	450	480
	3/23/99	5,700	580	9.4	400	280
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	1000	1,700	5,200
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
MW-5	12/30/98	170	1.1	<0.5	<0.5	0.83
	3/22/99	470	3.8	0.51	2.0	<0.5

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
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
MW-8	12/30/98	2,200	70	0.94	26	15
	3/23/99	2,300	34	1.1	15	13
MW-9	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920
MW-10	12/30/98	6,900	130	19	140	210
	3/23/99	6,600	150	33	240	170
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
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
141 Farrelly	4/6/96	<50	<0.5	<0.5	<0.5	<0.5



EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

Base Map Reference: U.S.G.S. San Leandro 7.5 Minute Topographic, Quadrangle.

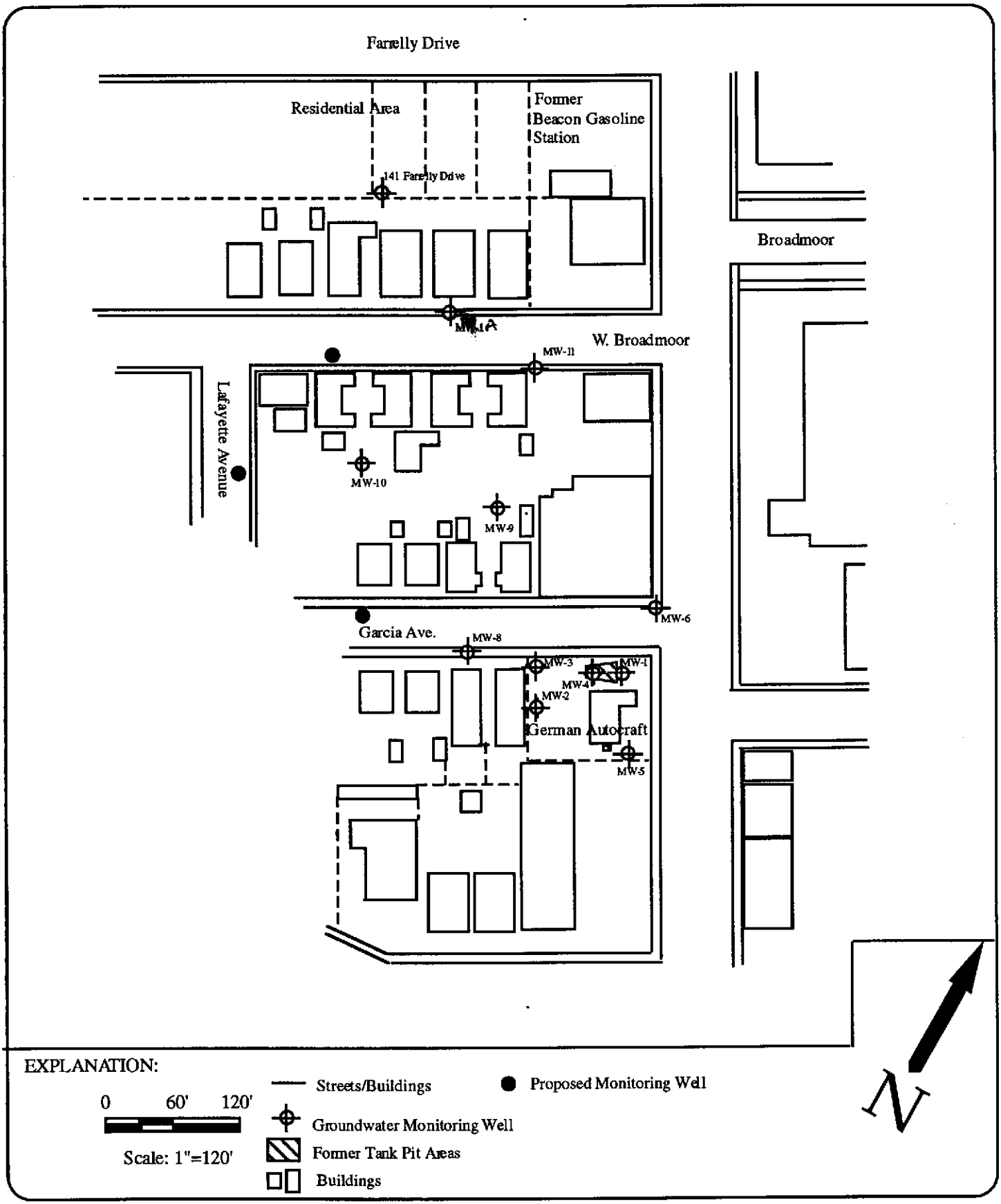
N

ENVIRONMENTAL TESTING & MGMT
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

LOCATION MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 1

Project No. 94-52
Date: 3/97

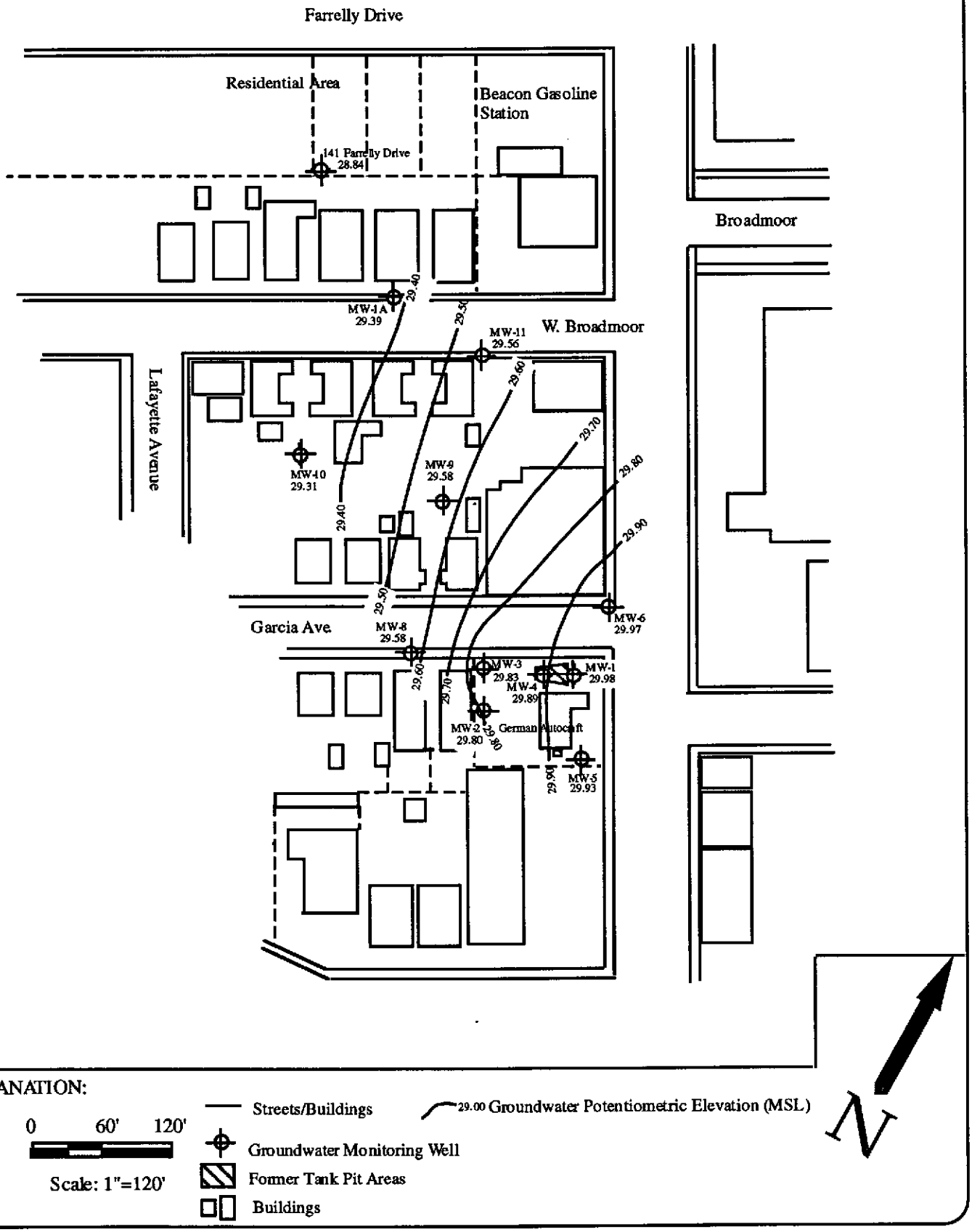


ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET STREET 6TH FLOOR
SAN JOSE, CA 95113

German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Date: 7/99

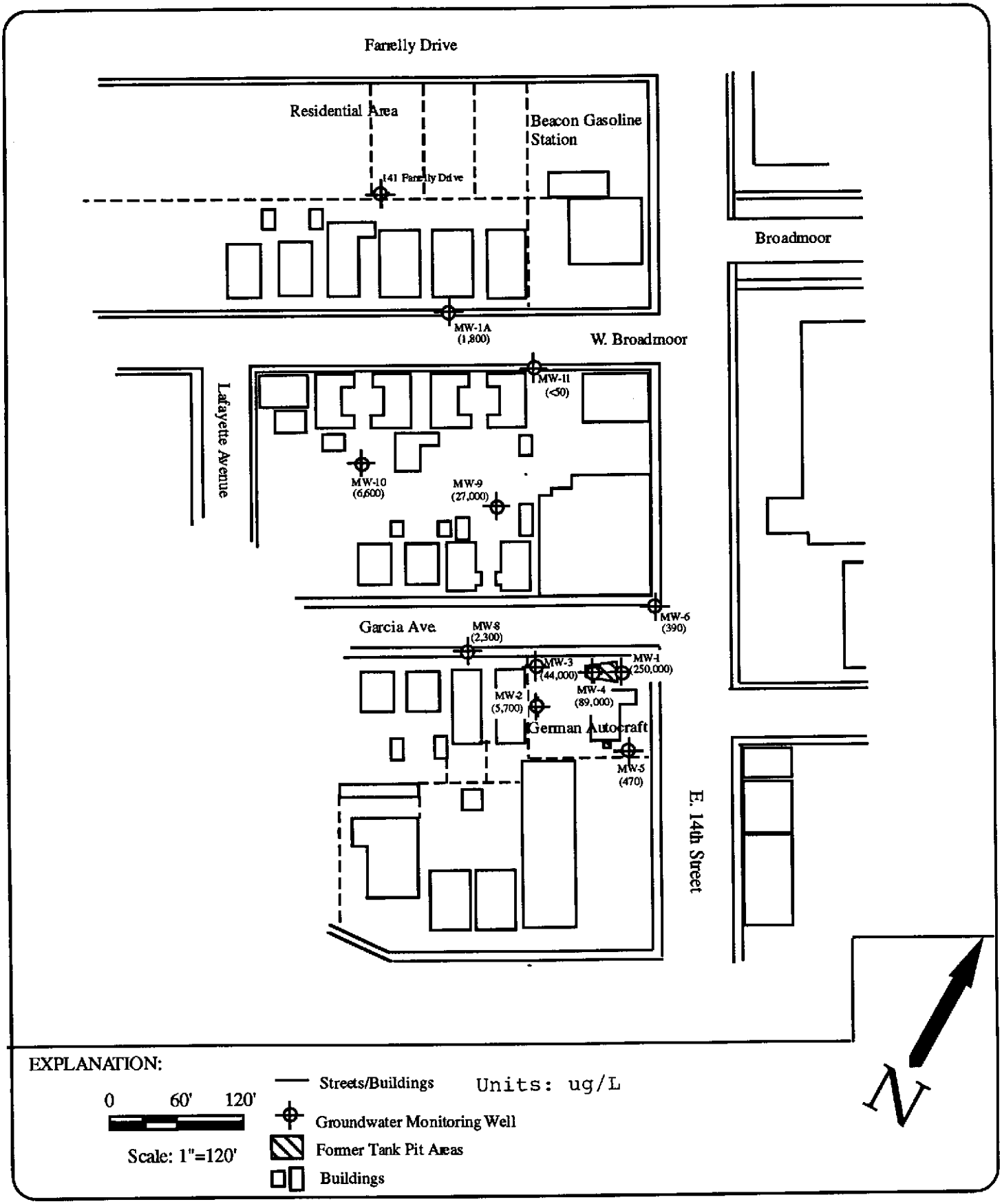


ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET STREET 6TH FLOOR
SAN JOSE, CA 95113

GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION ISOCONTOUR MAP (3/13/99)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 7/99

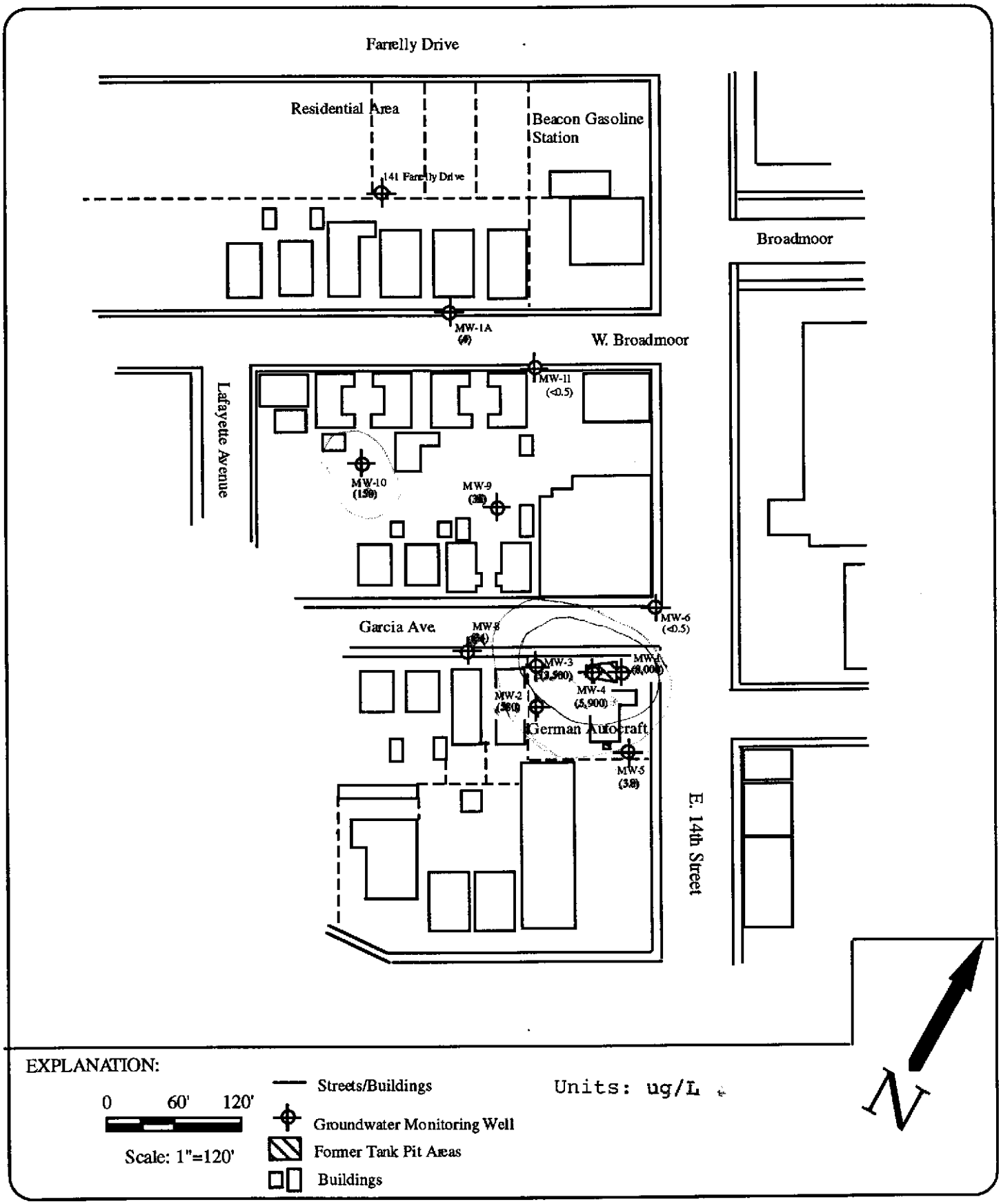


ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET STREET 6TH FLOOR
SAN JOSE, CA 95113

VICINITY MAP WITH GROUNDWATER TPHG CONCENRATIONS (3/13/99)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 7/99



ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET STREET 6TH FLOOR
SAN JOSE, CA 95113

VICINITY MAP WITH GROUNDWATER
BENZENE CONCENTRATIONS (3/22-23/99)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5

Date: 7/99

APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES

GROUNDWATER LEVEL MEASURING AND SAMPLING:

Sampling procedures commenced with measuring static water levels in monitoring wells using an electronic water level indicator accurate to 0.01 inch. Groundwater samples were collected using Teflon™ or stainless steel bailers. The bailers were cleaned prior to lowering into the groundwater by washing with Liquinox or laboratory grade detergent, rinsing with tap water, and drying. Floating product thickness was measured by gently lowering a bailer or preferably an interface sampler into the well casing. The liquid level in the sampler was allowed to equilibrate with the liquid level in the well. After raising the sampler, the thickness of floating product, if present, was measured in the transparent sampler with a ruler or noting the presence of sheen and odor. The wells were then purged a minimum of four well volumes or until the parameters of temperature, conductance, and pH stabilized.

Groundwater samples were collected by gently pouring from the bailer into a 40-milliliter vial until a positive meniscus formed at the top of the vial, each vial was capped, and visually inspected to make sure no bubbles were present. Sample containers are labeled for sampling point reference and chilled on ice immediately after collection. Chain-of-custody documentation was maintained until the samples were received by the laboratory.

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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Environmental Testing & Management
111 N. Market Street, Suite 600
San Jose, CA 95113
Attn: Tom Price

Date: 4/6/99
Date Received: 3/24/99
Project: GA
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-12			MW-1A							
Sample Date	3/23/99			3/23/99							
Sample Time											
Lab #	G7692			G7693							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in µg/Liter:											
Analysis Date	4/1/99			4/5/99							
TPH-Gas	**2,200**	1.0	50	**1,800**	1.0	50				50	8015M
Benzene	**10**	1.0	0.50	**4.0**	1.0	0.50				0.50	8020
Toluene	**0.52**	1.0	0.50	**ND**	1.0	0.50				0.50	8020
Ethyl Benzene	**3.1**	1.0	0.50	**3.0**	1.0	0.50				0.50	8020
Xylenes (total)	**7.1**	1.0	0.50	**7.5**	1.0	0.50				0.50	8020
Analysis Date	3/31/99			4/5/99							
tert-Butanol	**ND** [1]	5.0	100	**ND**	1.0	20				20	8260
MTBE	**ND** [1]	5.0	25	**ND**	1.0	5.0				5.0	8260
Diisopropyl ether	**ND** [1]	5.0	25	**ND**	1.0	5.0				5.0	8260
Ethyl-tert-butyl ether	**ND** [1]	5.0	25	**ND**	1.0	5.0				5.0	8260
tert-Amylmethyl ether	**ND** [1]	5.0	25	**ND**	1.0	5.0				5.0	8260

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

1. Sample diluted due to high concentrations of non-target hydrocarbons
2. Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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Environmental Testing & Management
111 N. Market Street, Suite 600
San Jose, CA 95113
Attn: Tom Price

Date: 4/6/99
Date Received: 3/24/99
Project: GA
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-10			MW-11							
Sample Date	3/23/99			3/23/99							
Sample Time											
Lab #	G7690			G7691							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in µg/Liter:											
Analysis Date	4/1/99			4/1/99							
TPH-Gas	**6,600**	20	1000	**ND**	1.0	50				50	8015M
Benzene	**150**	20	10	**ND**	1.0	0.50				0.50	8020
Toluene	**33**	20	10	**ND**	1.0	0.50				0.50	8020
Ethyl Benzene	**240**	20	10	**ND**	1.0	0.50				0.50	8020
Xylenes (total)	**170**	20	10	**ND**	1.0	0.50				0.50	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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Environmental Testing & Management
111 N. Market Street, Suite 600
San Jose, CA 95113
Attn: Tom Price

Date: 4/6/99
Date Received: 3/24/99
Project: GA
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-1			MW-2			MW-3				
Sample Date	3/23/99			3/23/99			3/23/99				
Sample Time											
Lab #	G7694			G7695			G7696				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	4/1/99			4/5/99			4/1/99				
TPH-Gas	**250,000**	200	10000	**5,700**	4.0	200	**44,000**	50	2500	50	8015M
Benzene	**8,000**	200	100	**580**	4.0	2.0	**3,500**	50	25	0.50	8020
Toluene	**43,000**	200	100	**9.4**	4.0	2.0	**1,000**	50	25	0.50	8020
Ethyl Benzene	**5,200**	200	100	**400**	4.0	2.0	**1,700**	50	25	0.50	8020
Xylenes (total)	**27,000**	200	100	**280**	4.0	2.0	**5,200**	50	25	0.50	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Entech Analytical Labs, Inc.

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Environmental Testing & Management
111 N. Market Street, Suite 600
San Jose, CA 95113
Attn: Tom Price

Date: 4/6/99
Date Received: 3/24/99
Project: GA
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-4			MW-5			MW-6				
Sample Date	3/23/99			3/22/99			3/22/99				
Sample Time											
Lab #	G7697			G7698			G7699				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	4/1/99			4/1/99			4/1/99				
TPH-Gas	**89,000**	200	10000	**470**	1.0	50	**390** [x]	1.0	50	50	8015M
Benzene	**5,900**	200	100	**3.8**	1.0	0.50	**ND**	1.0	0.50	0.50	8020
Toluene	**8,700**	200	100	**0.51**	1.0	0.50	**ND**	1.0	0.50	0.50	8020
Ethyl Benzene	**2,000**	200	100	**2.0**	1.0	0.50	**ND**	1.0	0.50	0.50	8020
Xylenes (total)	**9,200**	200	100	**ND**	1.0	0.50	**ND**	1.0	0.50	0.50	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

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CA ELAP# I-2346

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Environmental Testing & Management
111 N. Market Street, Suite 600
San Jose, CA 95113
Attn: Tom Price

Date: 4/6/99
Date Received: 3/24/99
Project: GA
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	MW-8			MW-9							
Sample Date	3/23/99			3/23/99							
Sample Time											
Lab #	G7700			G7701							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in µg/Liter:											
Analysis Date	4/1/99			4/5/99							
TPH-Gas	**2,300**	1.0	50	**27,000**	40	2000				50	8015M
Benzene	**34**	1.0	0.50	**35**	40	20				0.50	8020
Toluene	**1.1**	1.0	0.50	**ND**	40	20				0.50	8020
Ethyl Benzene	**15**	1.0	0.50	**600**	40	20				0.50	8020
Xylenes (total)	**13**	1.0	0.50	**920**	40	20				0.50	8020

DF=Dilution Factor ND= None Detected above DLR PQL=Practical Quantitation Limit DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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STANDARD LAB QUALIFIERS
July, 1998

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier	Description
U	Compound was analyzed for but not detected
J	Estimated valued for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4990401
Matrix: Water
Units: µg/L

Date Analyzed: 04/01/99
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/L	SA µg/L	SR µg/L	SP µg/L	**SP % R**	SPD µg/L	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<0.50	40	ND	39	**98**	39	**98**	0.7	25	83-109
Toluene	8020	<0.50	40	ND	39	**98**	39	**97**	1.4	25	65-112
Ethyl Benzene	8020	<0.50	40	ND	40	**99**	39	**98**	1.3	25	83-109
Xylenes	8020	<0.50	120	ND	117	**98**	116	**96**	1	25	83-110
Gasoline	8015	<50.0	500	ND	461	**92**	487	**97**	5.5	25	73-126

Note: LCS and LCSD results reported for the following Parameters:
All

Definition of Terms:

na: Not Analyzed in QC batch
MB: Method Blank
SA: Spike Added
SR: Sample Result
RPD(%): Duplicate Analysis - Relative Percent Difference
SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

Entech Analytical Labs, Inc.

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Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds

QC Batch #: WGCMS990330
Matrix: Water
Units: µg/L

Date analyzed: 03/31/99
Spiked Sample: Blank Spike

PARAMETER	Method #	SA µg/L	SR µg/L	SP µg/L	**SP %R**	SPD µg/L	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
1,1- Dichloroethene	8240/8260	25	ND	21	**84**	21	**86**	1.4	25	50-150
Methyl-tert-butyl ether	8240/8260	25	ND	26	**106**	27	**108**	2.6	25	50-150
Benzene	8240/8260	25	ND	23	**92**	24	**94**	2.2	25	50-150
Trichloroethene	8240/8260	25	ND	24	**97**	25	**98**	1.2	25	50-150
Toluene	8240/8260	25	ND	27	**107**	27	**106**	0.7	25	50-150
Chlorobenzene	8240/8260	25	ND	27	**110**	28	**111**	1.4	25	50-150

Definition of Terms:

- na: Not Analyzed in QC batch
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP Spike Result
- SP (%R) Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R) Spike Duplicate % Recovery
- NC: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: Env. Testing & Mgmt
Address: 111 N. Market St 6 Flr
San Jose, CA 95113
Contact: Tom Price
Telephone #: (408) 939-0929
Date Received:
Turn Around: std.

Project ID: GA.
Purchase Order #:

Sampler/Company: Telephone #:

Special Instructions/Comments

LAB USE ONLY

Samples arrived chilled and intact:
Yes No
Notes:

Sample Information								Requested Analysis							
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPHg/ BTXE							
G7694	MW-1	G	W	3/23/99	—	chill/ HCl	40ml VOAs	✓							
G7695	MW-2			3/23/99	—			✓							
G7696	MW-3			3/23/99	—			✓							
G7697	MW-4			3/23/99	—			✓							
G7698	MW-5			3/22/99	—			✓							
G7699	MW-6			3/22/99	—			✓							
G7700	MW-8			3/23/99	—			✓							
G7701	MW-9	↓	↓	3/23/99	—	↓	↓	✓							

Relinq. By:	Received By:	Date	Time
Tom Price		3/24/99	1230 pm.
		Date	Time
Relinq. By:	Received By:	03/24/99	1:30pm
Relinq/ By:	Received By:	Date	Time

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: Env. Testing & Mgmt
Address: 111 N. Market St 6 Flr
San Jose CA 95113
Contact: Tom Price
Telephone #: 9380939
Date Received:
Turn Around: Std.

Project ID: GA
Purchase Order #:

Sampler/Company: Telephone #:

Special Instructions/Comments

LAB USE ONLY

Samples arrived chilled and intact:
Yes No
Notes:

Sample Information / **Requested Analysis**

Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPHg/ BTEX	8260 oxygenates					
G7690	MW-10	G	W	3/23/99	—	HCl/ Chill	40 ml VOAs	✓						
G7691	MW-11	↓	↓	↓	—	↓	↓	✓						
G7692	MW-12	↓	↓	↓	—	↓	↓	✓	✓					
G7693	MW-1A	↓	↓	↓	—	↓	↓	✓	✓					

Relinq. By: Tom Price	Received By:	Date 3/24/99	Time 1230 PM.
Relinq. By:	Received By: Yghazo	Date 03/24/99	Time 1:30
Relinq/ By:	Received By:	Date	Time

ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET ST., SUITE 600
SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/03/99 Project Name: GA

Project No.: 19.5 Well No./Description: MW-1

Depth of Well: 37.0 1 Well Volume: 3.0

Depth to Water: 19.5 4 Well Volumes: ______

Casing Diameter: X 2" __ 4" Actual Volume Purged: ______

Calculations:

4
18
16
108
18
2.98

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify: ______

Sheen: ___ No X Yes, Describe ______

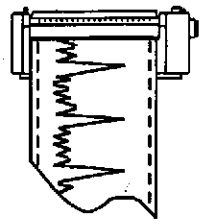
Odor: ___ No X Yes, Describe strong HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1132	3.0	7.3	61	0.8E3	gray
1139	6.0	6.9	64	0.9E3	"
1144	9.0	7.0	61	0.9E3	"

Remarks: ______

Sampler: ______



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111 N. MARKET ST., SUITE 600
SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/22/99 Project Name: GA

Project No.: _____ Well No./Description: MW-5

Depth of Well: 30.10 1 Well Volume: 12

Depth to Water: 19.64 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations:

12

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ✓No ___ Yes, Describe _____

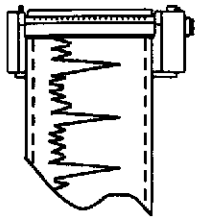
Odor: ___ No ✓Yes, Describe very faint HC.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1114	2.0	7.0	61	1.0E3	brown
1120	4.0	7.0	70	1.0E3	"
1125	6.0	7.1	69	1.0E3	"

Remarks: _____

Sampler: _____



ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET ST., SUITE 600
SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/22/99 Project Name: GA

Project No.: _____ Well No./Description: MW-6

Depth of Well: 33.0 1 Well Volume: ~~~ 5.5

Depth to Water: 18.07 4 Well Volumes: _____

Casing Diameter: X 2" __ 4" Actual Volume Purged: _____

Calculations: ~~3~~ 1.5

2" - * 0.1632 ~~1.6~~
4" - * 0.653 ~~9.5~~ 1.5

Purge Method: X Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify: _____

Sheen: X No ___ Yes, Describe _____

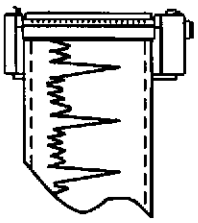
Odor: X No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1135	2.5	7.2	65	0.71E3	brown
1140	5.0	7.1	66	0.79E3	"
1145	7.5	7.1	67	0.78E3	"

Remarks: _____

Sampler: _____



ENVIRONMENTAL TESTING & MGMT.
111 N. MARKET ST., SUITE 600
SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/23/99 Project Name: GA

Project No.: _____ Well No./Description: MW-8

Depth of Well: 29.5 1 Well Volume: ~2

Depth to Water: 19.77 4 Well Volumes: _____

Casing Diameter: X 2" __ 4" Actual Volume Purged: _____

Calculations: 10

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify:_____

Sheen: ___ No ___ Yes, Describe _____

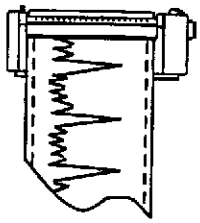
Odor: ___ No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1226	2.0	7.3	69	0.7E3	brown/gray
1231	4.0	7.0	67.5	0.7E3	" "

Remarks:_____

Sampler: _____



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408.938.0939 FAX: 408.938.3929

Date: 3/03/99 Project Name: GA.

Project No.: _____ Well No./Description: MW-9

Depth of Well: 34.3 1 Well Volume: ~8.5

Depth to Water: 19.19 4 Well Volumes: _____

Casing Diameter: X 2" __ 4" Actual Volume Purged: _____

Calculations:

3 15
12
93
15
210

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify: _____

Sheen: ___ No X Yes, Describe rainbow/waxy emulsion.

Odor: ___ No X Yes, Describe strong HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1350	8.5	6.9	72	0.8E3	gray
1355	50	7.0	71	0.7E3	"
1400	7.5		71	0.7E3	"

Remarks: _____

Sampler: _____

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408.938.0939 FAX: 408.938.3929

Date: 3/23/99 Project Name: GA

Project No.: ______ Well No./Description: MW-11

Depth of Well: 34.30 1 Well Volume: 2.5

Depth to Water: 18.37 4 Well Volumes: ______

Casing Diameter: __ 2" __ 4" Actual Volume Purged: ______

Calculations:

3.16
.16
2.6
.16
2.56

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer __Displacement Pump __Impinger/Vacuum __

Sample Method: X Bailer __ Other Specify: ______

Sheen: X No __ Yes, Describe ______

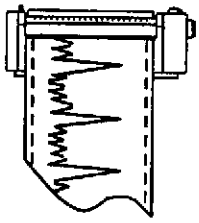
Odor: X No __ Yes, Describe ______

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
745	2.5	7.0	62	0.6E3	brown
952	5.0	6.9	61	0.6E3	"
955	7.5	6.8	62	0.6E3	"

Remarks: ______

Sampler: ______



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SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/23/95 Project Name: GA.

Project No.: _____ Well No./Descrip: MW-1A

Depth of Well: 33.45 1 Well Volume: ~12.5

Depth to Water: 18.85 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations: ~15

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify: _____

Sheen: ~~X~~ No X Yes, Describe spotches appear in light/then disappear

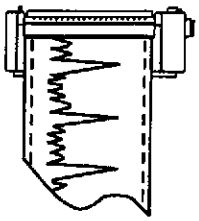
Odor: ___No X Yes, Describe faint HC/getting stronger.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1015	2.5	7.0	59	0.5E3	brown
1020	5.0	7.2	61	0.6E3	"
1030	7.5	7.2	61	0.5E3	"

Remarks: _____

Sampler: _____



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111 N. MARKET ST., SUITE 600
SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 3/13/99 Project Name: GA.

Project No.: _____ Well No./Description: 141 Farrelly

Depth of Well: 41.9 1 Well Volume: _____

Depth to Water: 19.97 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

Calculations: ~~5~~ ✓ 5*

2" - * 0.1632
4" - * 0.653

Purge Method: ___Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ___Bailer ___ Other Specify:_____

Sheen: ___ No ___ Yes, Describe _____

Odor: ___ No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color

Remarks:_____

Sampler: _____

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on March 22-23, 1999 included the following:

- Groundwater samples were collected in triplicate 40 milliliter vials.
- A sample collected from MW-1A was labeled "MW-12" and submitted for volatile organic testing as a blind duplicate. No quality control/quality assurance problems are apparent.

APPENDIX E: REPORT DISTRIBUTION LIST

Copies of this report have been mailed to the attention of the following parties:

Seung Lee
German Autocraft
301 E. 14th Street
San Leandro, California 94577

Scott O. Seery
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, #250
Alameda, California 94502-6577

Mike Bakaldin
City of San Leandro Fire Department
835 E. 14th Street, Suite 200
San Leandro, California 94577