SECOND QUARTER/JULY 2000

GROUNDWATER MONITORING PROGRAM

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

Prepared For:

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I. INTRODUCTION

Environmental Testing & Management (ETM) has continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar second quarter/July 2000 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.

The groundwater monitoring program involves sampling and testing of eleven (11) monitoring wells and one (1) private well located at the Ramirez residence at 141 Farrelly Drive. Installation of three (3) additional monitoring wells is pending. **The schedule of the monitoring program is as follows:**

Quarterly:	141 Farrelly, MW-2, MW-3, MW-8, MW-9, and MW-10
Semi-Annual:	MW-1A, MW-11, and MW-6
Annual:	MW-1, MW-4, and MW-5

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 SECOND QUARTER/JULY 2000

Work included groundwater level gauging and sampling, data analysis, and report preparation.

Activity highlights during this period are as follows:

- **July 13, 2000** - ETM collected a grab groundwater sample at the private well located at 141 Farrelly Drive.

- **July 18, 2000** - ETM measured groundwater elevations and sampled all wells for the project according to the scheduled monitoring program.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected on July 18, 2000 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 25.55 to 26.22 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 is consistent with previous observations.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On July 13 - 18, 2000, groundwater samples were collected from MW-2, MW-3, MW-8, MW-9, MW-10 and the private well at 141 Farrelly Drive 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.** 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.** A City of San Leandro encroachment permit is included in **Appendix E.**

Selected BTEX chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (**Table 3**).

The sample collected 7/18/00 from MW-2, located down gradient of the former gasoline tank area, contained 10,000 µg/L of TPHg, 560 µg/L of benzene, 27 µg/L of toluene, 630 µg/L of ethyl benzene, and 530 µg/L of total xylenes.

The sample collected 7/18/00 from monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 30,000 µg/L of TPHg, 5,000 µg/L of benzene, 950 µg/L of toluene, 2,000 µg/L of ethyl benzene, and 5,700 µg/L of total xylenes.

The sample collected 7/18/00 from monitoring well MW-8 contained 3,000 µg/L of TPHg, 67 µg/L of benzene, 9.8 µg/L of toluene, 38 µg/L of ethyl benzene, and 38 µg/L of total xylenes.

The sample collected 7/18/00 from monitoring well MW-9 contained 12,000 µg/L of TPHg, 39 µg/L of benzene, 8.2 µg/L of toluene, 540 µg/L of ethyl benzene, and 760 µg/L of total xylenes.

The sample collected 7/18/00 from monitoring well MW-10 contained 9,100 µg/L of TPHg, 120 µg/L of benzene, 33 µg/L of toluene, 210 µg/L of ethyl benzene, and 130 µg/L of total xylenes.

The private well sampled on 7/13/00 at 141 Farrelly did not contain gasoline above detection limits as follows: <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 July 18, 2000 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 has moved west-northwesterly, as has the benzene plume.

VII. 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 using site specific data 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.

VIII. REFERENCES

California Code of Regulations, Title 22, 66260.21, "Environmental Health Standards", 6/23/95.

Code of Federal Regulations, 40 CFR 260, "Hazardous Waste Management System: General, 7/1/94.

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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. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		JULY 18, 2000	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.49	23.28	26.21
MW-2	50.01	24.00	26.01
MW-3	49.32	23.28	26.04
MW-4	49.60	-	-
MW-5	49.57	-	-
MW-6	48.06	21.84	26.22
MW-8	49.35	23.59	25.76
MW-9	48.77	22.94	25.83
MW-10	49.92	24.37	25.55
MW-11	47.93	22.12	25.81
MW-1A	48.24	22.60	25.64
141 Farrelly	48.81	-	-

[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

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Parralley
9/29/99	24.39	24.12	24.20	24.27	24.26	24.38	23.93	24.05	23.80	24.03	23.89	-
12/29/99	23.75	23.52	23.60	23.64	23.64	23.75	23.36	23.45	23.23	23.43	23.29	-
3/18/00	31.92	31.87	31.82	31.85	31.94	31.86	31.66	31.46	31.26	31.38	31.25	30.86
7/18/00	26.21	26.01	26.04	-	-	26.22	25.76	25.83	25.55	25.81	25.64	-

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

Locations: MW-2, MW-3, MW-8, MW-9, MW-10, 141 Farrelly

Date Sampled: July 13 - 18, 2000 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	10,000	560	27	630	530
MW-3	30,000	5,000	950	2,000	5,700
MW-8	3,000	67	9.8	38	38
MW-9	12,000	39	8.2	540	760
MW-10	9,100	120	33	210	130
141 Farrelly	<50	<0.5	<0.5	<0.5	<0.5
MCL/AL[2]	-	1	150	700	1,750

[2]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. 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, 141 Farrelly 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

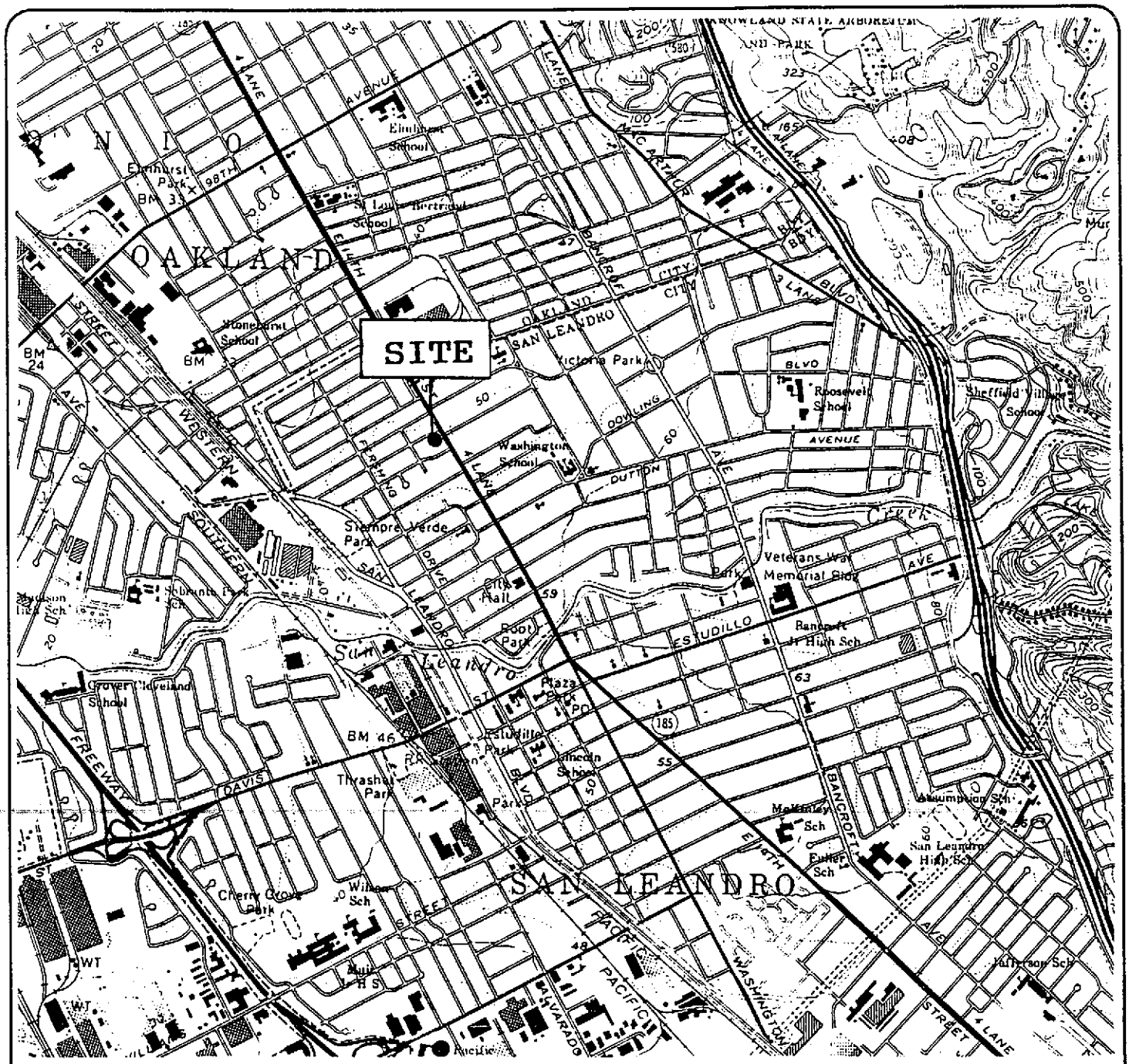
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	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
	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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-3	3/23/99	44,000	3,500	1000	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
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
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
	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
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
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
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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
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

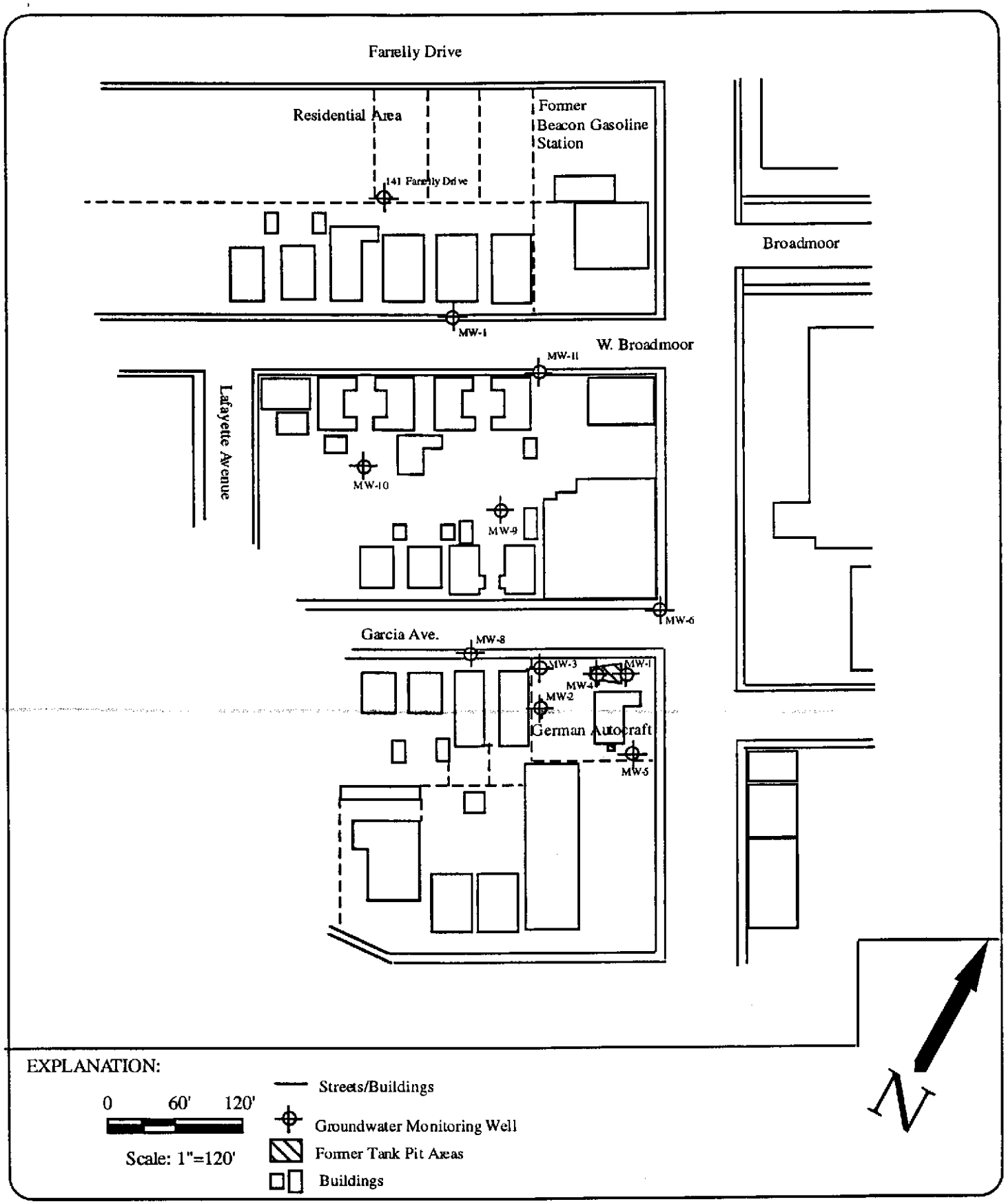


ENVIRONMENTAL TESTING & MGMT
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

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

Figure 1

Project No. 94-52
Date: 3/97

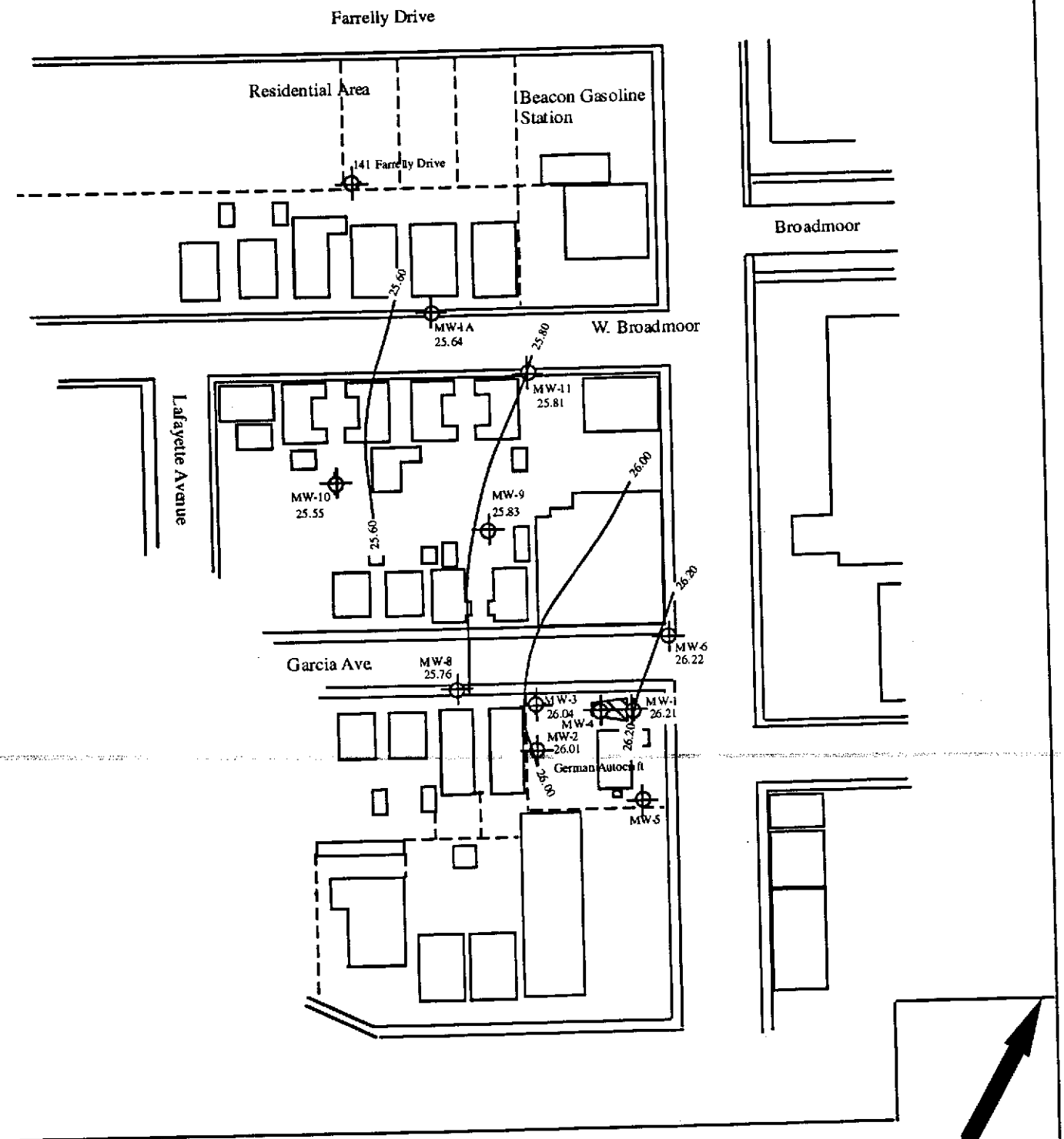


ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CA 95112

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

Figure 2

Date: 7/99



EXPLANATION:

0 60' 120'

Scale: 1"=120'

Streets/Buildings

26.00 Groundwater Potentiometric Elevation (MSL)

Groundwater Monitoring Well

Former Tank Pit Areas

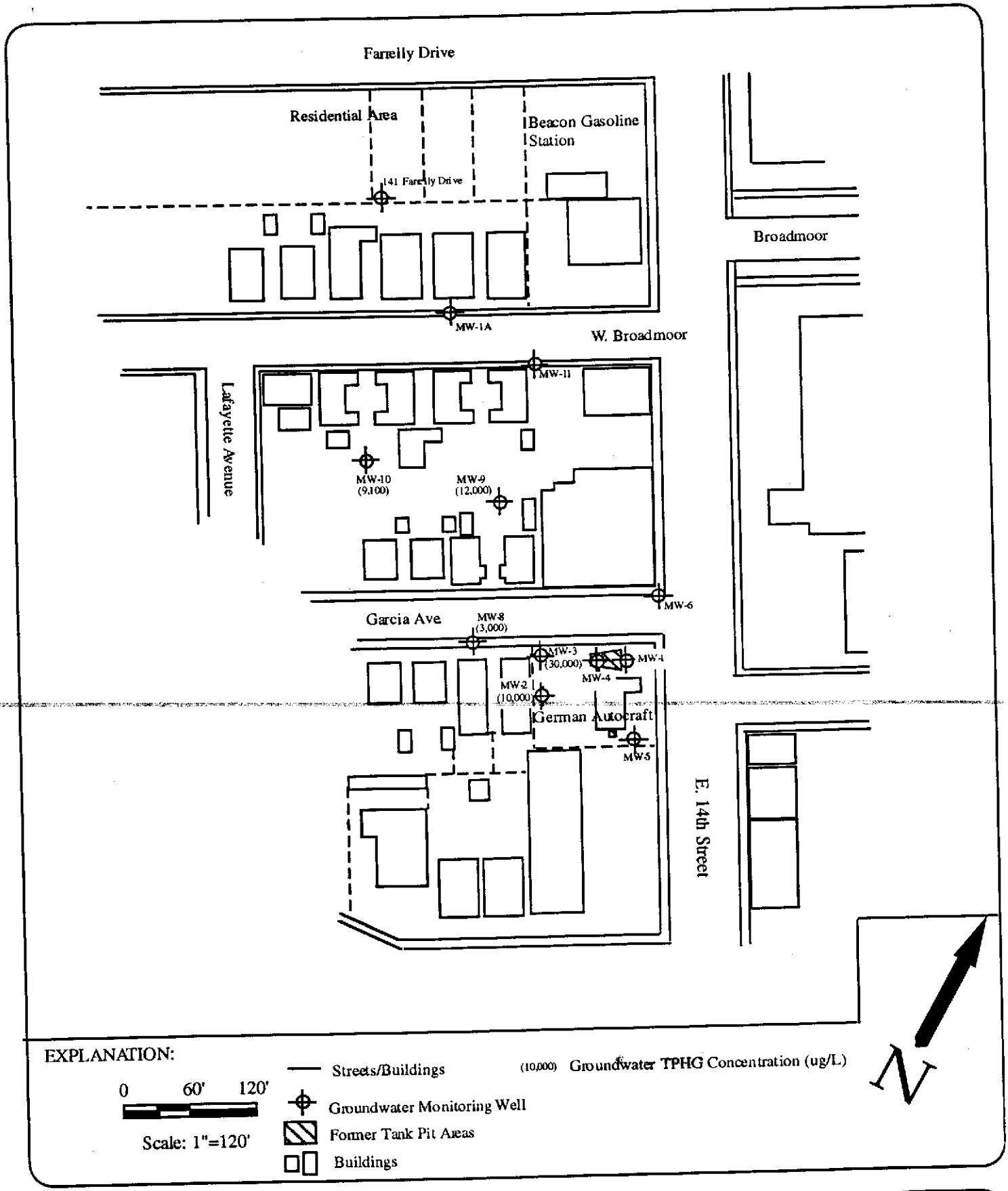
Buildings

ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 453-1800

GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION ISOCONTOUR MAP (7/18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 8/00

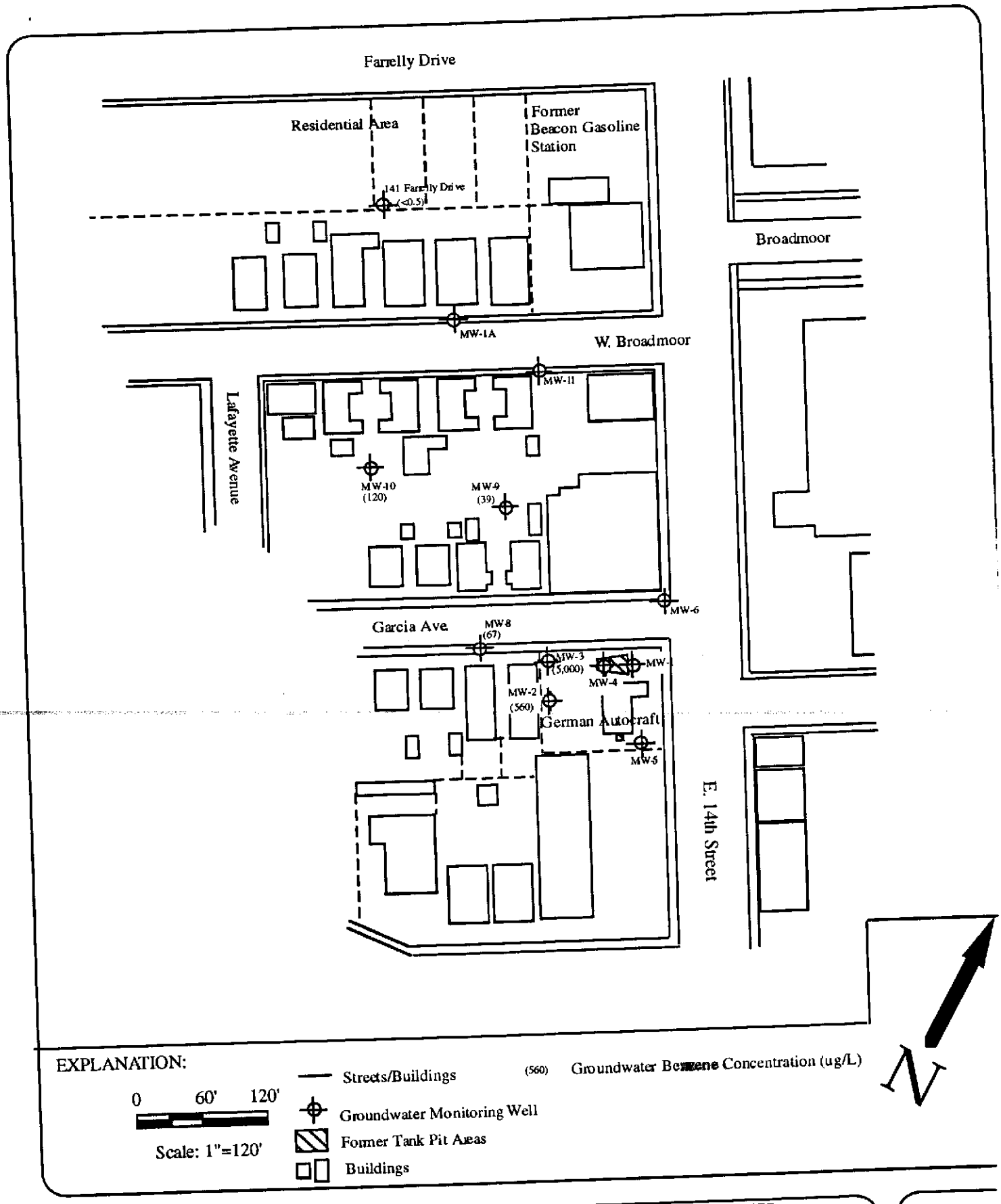


ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER TPHG CONCENTRATIONS (7/13-18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 8/00



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408)453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER
BENZENE CONCENTRATIONS (7/13 - 18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5

Date: 8/00

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.

APPENDIX B: LABORATORY REPORTS AND CHAINS-OF-CUSTODY FORMS

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

July 25, 2000

Tom Price
Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112

Order: 21425
Project Name: GA
Project Number:
Project Notes:

Date Collected: 7/13/00
Date Received: 7/19/00
P.O. Number:

On July 19, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	Gas/BTEX	EPA 8015 MOD. (Purgeable)
		EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-001 **Client Sample ID:** 141 FARRELLY

Sample Time: **Sample Date:** 7/13/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	7/20/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	108	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-002 **Client Sample ID:** MW-2

Sample Time: **Sample Date:** 7/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	560		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Toluene	27		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Ethyl Benzene	630		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Xylenes, Total	530		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	100	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	10000		50	50	2500	µg/L	N/A	7/20/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

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Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-003 **Client Sample ID:** MW-3

Sample Time: **Sample Date:** 7/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	5000		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Toluene	950		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Ethyl Benzene	2000		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Xylenes, Total	5700		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	97	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	30000		50	50	2500	µg/L	N/A	7/20/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	100	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-004 **Client Sample ID:** MW-8

Sample Time: **Sample Date:** 7/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	67		10	0.5	5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Toluene	9.8		10	0.5	5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Ethyl Benzene	38		10	0.5	5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Xylenes, Total	38		10	0.5	5	µg/L	N/A	7/20/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	102	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	3000		10	50	500	µg/L	N/A	7/20/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	106	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-005 **Client Sample ID:** MW-9

Sample Time: **Sample Date:** 7/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	39		10	0.5	5	µg/L	N/A	7/21/00	WGC4000720	EPA 8020
Toluene	8.2		10	0.5	5	µg/L	N/A	7/21/00	WGC4000720	EPA 8020
Ethyl Benzene	540		10	0.5	5	µg/L	N/A	7/21/00	WGC4000720	EPA 8020
Xylenes, Total	760		10	0.5	5	µg/L	N/A	7/21/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	81	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	12000		10	50	500	µg/L	N/A	7/21/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	67	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle D. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 7/25/00
Date Received: 7/19/00
Project Name: GA
Project Number:
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21425 **Lab Sample ID:** 21425-006 **Client Sample ID:** MW-10

Sample Time: **Sample Date:** 7/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	120		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Toluene	33		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Ethyl Benzene	210		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020
Xylenes, Total	130		50	0.5	25	µg/L	N/A	7/20/00	WGC4000720	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	94	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	9100		50	50	2500	µg/L	N/A	7/20/00	WGC4000720	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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

Michelle D. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: WGC4000720
Matrix: Liquid
Units: µg/Liter

Date Analyzed: 07/20/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	**SP % R**	SPD µg/Liter	**SPD %R**	% RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<0.50	5.2	ND	6.1	**118**	6.4	**123**	3.7	25	70-130
Toluene	8020	<0.50	29	ND	33	**111**	32	**110**	1.0	25	70-130
Ethyl Benzene	8020	<0.50	5.6	ND	6.7	**119**	6.7	**120**	0.9	25	70-130
Xylenes	8020	<0.50	32	ND	34	**105**	34	**104**	0.6	25	70-130
Gasoline	8015	<50.0	469	ND	495	**106**	483	**103**	2.5	25	70-130
aaa-TFT(S.S.)-FID	8020			112%	107%		110%				65-135
aaa-TFT(S.S.)-PID	8015			100%	100%		108%				65-135

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.

525 Del Rey, Suite E (408) 735-1550
Sunnyvale, CA 94086 (408) 735-1554 - Fax

Chain of Custody / Analysis Request

Send Report to: Tom Price	Phone No. 408 453 1890	Send Invoice to (if Different)	Phone No.
Client Env. Test. Mgmt	Fax No. 408 453 1891	Company	Purchase Order No.
Mailing Address 1792 Rogers Avenue		Billing Address (if Different)	
City San Jose	State CA Zip 95112	City	State Zip
Sampler Tom Price	Project Name GA Project No.	Turn Around Time: ☑ Standard ☐ 4 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day	

Order ID:		Sampling		No. Containers						Pres.	Matrix	Requested Analyses																							
Lab #	Client ID	Date	Time	Voa	Amb	Poly	Sleeve	Other		HCl/Ice	Solid, Liquid, Wipe, Oil, Air	TPH Gas/BTEX (8015M/8020)	MTBE (EPA 8020)	TPH Diesel (8015M)		EPA 8260B	MTBE (EPA 8260B)	OXY by 8260B	EPA 8010 Freon 113 ☐	EPA 8270	Pesticides (EPA 8081)	PCBs (EPA 8082)			Wet / Total / TCLP	CAM-17 (Title 22)	Cd, Cr, Ni, Pb, Zn	PPM-13 Metals	Lead	Cd, Cr, Cu, Pb, Ni, Ag, Zn						
	141 Farrelly	7/13/00		✓						✓		✓										001													
	MW-2	7/18/00		✓						✓		✓										002													
	MW-3	7/18/00		✓						✓		✓										003													
	MW-8	7/18/00		✓						✓		✓										004													
	MW-9	7/18/00		✓						✓		✓										005													
	MW-10	7/18/00		✓						✓		✓										006													

00 JUL 19 14:03

Relinquished by:	Received by:	Date	Time
Tom Price	T. Clark	7/19/00	0815
	Received by:	Date	Time
	[illegible] Lambert	7/19/00	1403
Relinquished by:	Received by:	Date	Time

Special Instructions or Comments ☐ NPDES Detection Limits

APPENDIX C: FIELD DATA SHEETS/GROUNDWATER SAMPLING

ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 7/18/00 Project Name: GA.

Project No.: _____ Well No./Description: MW-2

Depth of Well: 33.7 1 Well Volume: ~2

Depth to Water: 24.20 4 Well Volumes: _____

Casing Diameter: X 2" __4" Actual Volume Purged: _____

Calculations:

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 _____

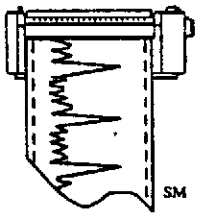
Odor: ~~No~~ X Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
310	2.0	6.5	71	C.7E3 ~~0.7E3~~	~~2~~
320	6.0	7.0	69	0.7E3	

Remarks: _____

Sampler: Tom Price



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 7/18/00 Project Name: GA

Project No.: _____ Well No./Description: MW-3

Depth of Well: ~~33.7~~ 34.7 1 Well Volume: ~2

Depth to Water: 33.28 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: _____

Calculations:

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 HC.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
333	2.5	6.7	75	0.5E3	
338	5.0	6.6	74	0.5E3	

Remarks: _____

Sampler: Tom Price

ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 7/18/00 Project Name: GA

Project No.: 33.2 Well No./Description: MW-8

Depth of Well: ~~31.30~~ 23.59 1 Well Volume: 2

Depth to Water: ~~23.98~~ 4 Well Volumes: _____

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

Calculations:

2" - * 0.1632
4" - * 0.653

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

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ✓ No ___ Yes, Describe _____

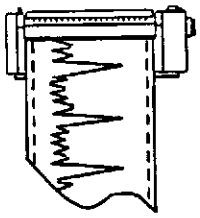
Odor: ___ No ✓ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
245	2	7.5	80	0.5E3	
250	4	6.9	77	0.6E3	
255	6	7.3	76	0.5E3	

Remarks: _____

Sampler: Tom Price



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

Date: ~~8~~ 7/18/00 Project Name: GH.

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

Depth of Well: 34.30 1 Well Volume: ~2

Depth to Water: 22.94 4 Well Volumes: _____

Casing Diameter: X 2" __4" Actual Volume Purged: _____

Calculations: _____

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 _____

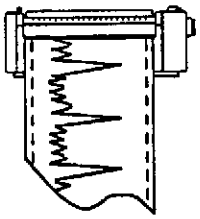
Odor: ___ No X Yes, Describe #C

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
210	2	7.1	85	0.5E3	
215	4	7.0	80	0.5E3	
220	6	7.1	78	0.5E3	

Remarks: _____

Sampler: Tom Price



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

Date: ~~5~~ 7/18/00 Project Name: GA

Project No.: _____ Well No./Description: MW-10

Depth of Well: 38.90 1 Well Volume: ~2

Depth to Water: 24.37 4 Well Volumes: _____

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

Calculations:

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
133	1	7.4	80	0.5E3	
137	3	7.3	80	0.6E3	
140	6	7.0	77	0.5E3	

Remarks: _____

Sampler: Tom Price

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on 7/13 - 18/00 included the following:

- Groundwater samples were collected in duplicate 40 milliliter vials.

Service No. _____

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK IN THE PUBLIC RIGHT-OF-WAY

00394
Permit Number

7-18-2000
Date Approved

Work Site: W. Broadmoor / Garcia Ave. San Jose, CA

Applicant: Name Env. Tech Mgmt Address 1792 Rogers Ave Tel. (408) 453 18

Owner: Name Mr. Lee Address 301 E 14th St. San Leandro Tel. (510) 638-54

Purpose of Permit:

☐ Utility ☐ Street Excavation ☐ Curb, Gutter Sidewalk, Driveway ☑ Other _____

Detailed Description and Dimensions of Work: open 4 well boxed for gauging groundwater/depth/sample.

Plan Submitted: Yes ✓ No _____

Profile Submitted Yes _____ No _____

Date Work to be Started: 7/18/00

Date Work to be Completed by: 7/30/00

Building Permit No. _____

State Encroachment Permit No. _____

Oro Loma Permit No. _____

Alameda County Flood Control Permit No. _____

Compliance with State Labor Code: In accordance with Section 3800

☐ Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.

☑ Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

☐ Applicant has State License No. 716003, Class A in full force and effect.

☐ Applicant is exempt from the State Contractor's License Law for the following reason(s):

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signature: Don Amie Date: 7/18/00

PLEASE CALL 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required Applicant shall secure boxes

Pavement Section Required For Safety Provide Access

Minimum Depth of Cover ~~for~~ at all times.

Police & Fire Dept. to be notified 24 hours prior to start: YES ____ NO ____

* Pedestrians safety shall be maintain at all times.

*$500.00 will be returned After the City recived the Report.

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

RECEIVED
CITY OF SAN LEANDRO
JUL 18 2000
ENG'G / TRANS.

ISSUE FOR CITY ENGINEER

Jane Lo

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Charged

NOTE: 1 hr. Minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

FEES

PERMIT FEE: 100.— To Acct. #3306

RESTORE/ INSPECT DEPOSIT: 500.— To CN # ____

STREET CUT FEE: _____ TO ACCT #3304

TOTAL: $600.—

☐ All charges collected at permit insurance

☐ All charges to be billed to

CN # _____

REV. Date 3/98

* $ 500.— Will be refund after the City Engineer has received the report