

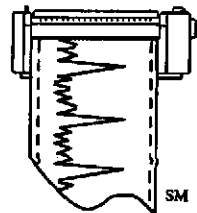
SECOND QUARTER 2002
QUARTERLY GROUNDWATER MONITORING PROGRAM
GERMAN AUTOCRAFT
301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

Prepared For:

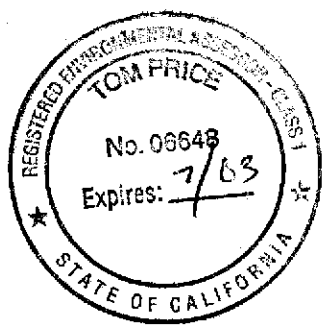
Mr. Seung Lee
German Autocraft

Prepared by:

Alameda County
OCT 11 2002
Environmental Health



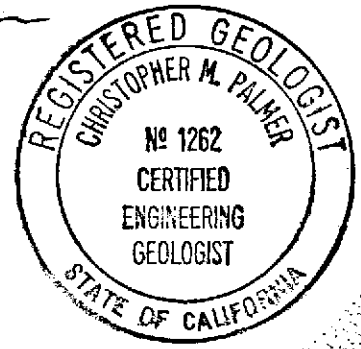
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I. INTRODUCTION

Environmental Testing (ET) has continued the quarterly groundwater monitoring program during the calendar second quarter 2002 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 selected monitoring wells and one (1) private well located at the Ramirez residence at 141 Farrelly Drive. The current schedule of the monitoring program is as follows:

Quarterly:	MW-12, MW-13, and MW-14
Semi-Annual:	MW-1A, MW-8, MW-9, MW-10, 141 Farrelly Drive
Annual:	MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-11

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 CURRENT PERIOD

Work for the groundwater monitoring program included groundwater level gauging and sampling, sample analysis, and report preparation.

Activity highlights during this period are as follows:

- June 28, 2002 - ET collected groundwater samples according to the scheduled monitoring program and measured groundwater depths at wells.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected on June 28, 2002 indicated that over the area studied (well gauged this period included MW-12, MW-13, and MW-14), the elevation of the shallow groundwater surface ranged from 24.81 - 25.22 feet above mean sea level (see **Table 1**). The groundwater gradient/estimated flow direction is determined semi-annually (not this period).

Table 1 presents the recent groundwater elevation data. **Table 2** presents historic groundwater elevation data.

The groundwater elevations observed this period are consistent with previous observations.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On June 28, 2002, groundwater samples were collected from monitoring wells 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 Santa Clara, California. The laboratory report and chain-of-custody documents are included in **Appendix B**. The field sampling data sheets are presented in **Appendix C**. Maps showing TPHg and benzene concentrations are presented on **Figures 4 and 5**. 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 4**. 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) (see test results **Table 3**).

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) (see test results **Table 3**).

Available data, including current gauging events, indicate that groundwater elevations determined this period for the site are consistent with previous monitoring events for the project. The most elevated concentrations of TPHg and benzene appear in wells MW-1, MW-2, MW-3, and MW-4.

These wells are in the vicinity of the former tank site. The dissolved plume continues to show a northwesterly orientation from the site, in a relatively stable configuration. The site is scheduled for continued monitoring.

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 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 ET 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.

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- Environmental Testing and Management, *Fourth Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, February, 1995.*
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TABLE 1. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

June 28, 2002			
WELL	CASING ELEVATION ¹	Depth to Groundwater	Groundwater Elevation
MW-12	48.46	23.27	25.19
MW-13	49.51	24.70	24.81
MW-14	49.54	24.32	25.22

¹Elevations 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
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 Farralley
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	-
9/26/00	25.01	24.69	24.80	-	-	24.95	24.50	24.61	24.34	24.58	24.48	24.10
12/28/00	24.63	24.39	24.45	24.52	-	24.61	24.21	24.29	24.03	24.26	24.13	-
3/30/01	27.47	27.31	27.39	27.40	-	27.41	27.14	27.12	26.79	27.03	27.02	26.51
10/5/01	23.82	23.64	23.70	23.77	-	23.82	23.47	23.54	23.33	23.52	23.38	-
3/28/02	28.66	28.43	28.49	28.58	28.60	28.65	28.15	28.32	28.06	28.31	28.14	-

DATE	MW-12	MW-13	MW-14
3/30/01	26.71	26.41	27.01
10/5/01	23.21	22.91	23.98
12/21/01	26.10	25.78	26.10
3/28/02	27.95	27.60	27.96
6/28/02	25.19	24.81	25.22

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

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

Date Sampled: June 28, 2002 Units: $\mu\text{g/L}$

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-12	2,600	29	<12.5	30	<25
MW-13	<50	<0.5	<0.5	<0.5	<1
MW-14	120	<0.5	<0.5	<0.5	<1
MCL/AL ²	-	1	150	700	1,750

²Maximum 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)

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

Units: $\mu\text{g/L}$

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
	3/20/01	120,000	3,600	41,000	4,700	25,000
	3/28/02	100,000	2,800	24,000	5,400	28,900
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

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

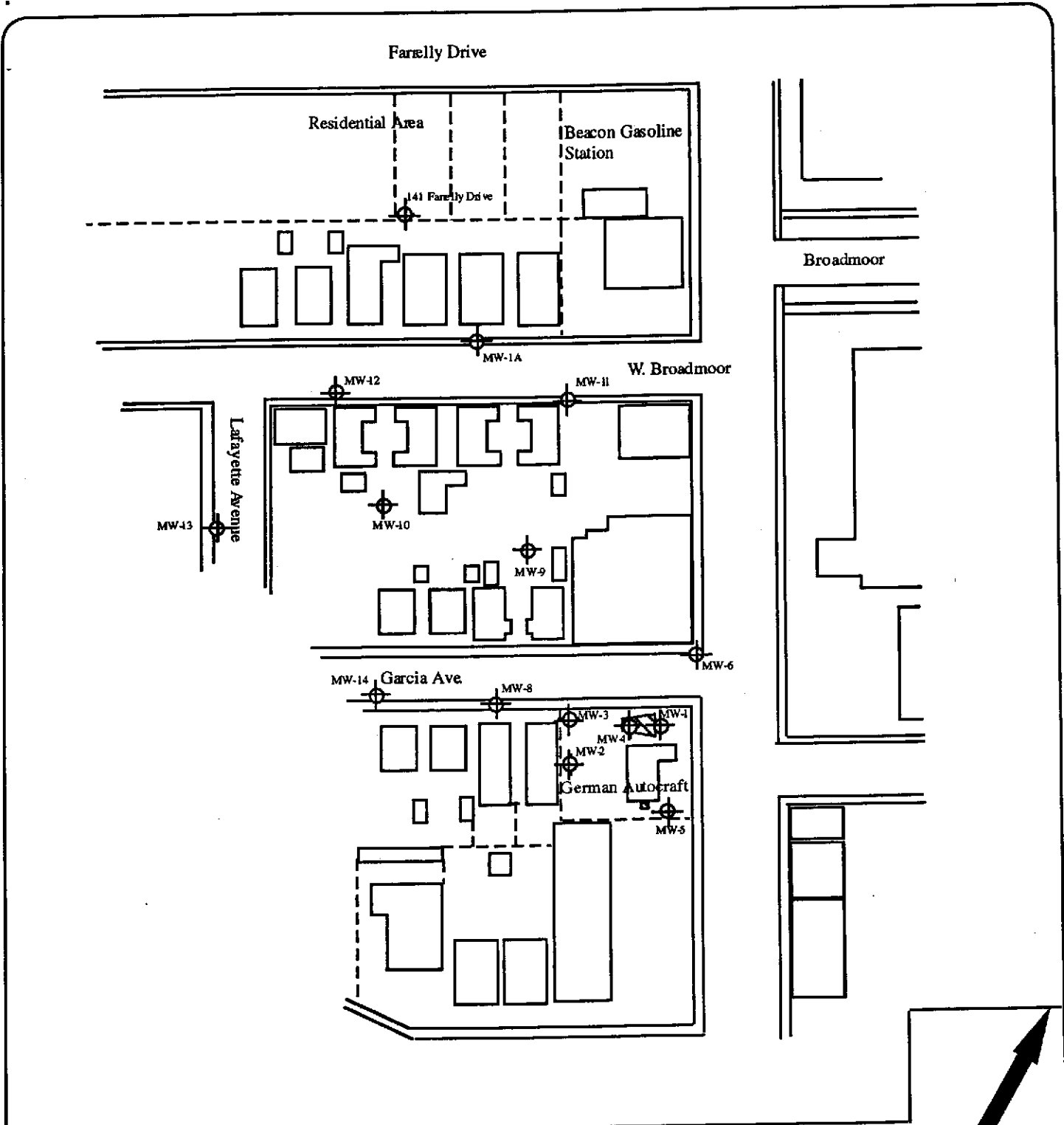
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-3	7/17/97	69,000	5,100	1,100	1,800	8,600
	10/21/97	58,000	4,300	1,300	2,100	8,000
	3/10/98	25,000	3,000	1,300	1,100	3,700
	6/6/98	52,000	4,400	1,900	2,300	6,900
	9/30/98	42,000	4,300	1,400	1,800	6,600
	12/30/98	34,000	4,200	770	2,300	9,000
	3/23/99	44,000	3,500	1000	1,700	5,200
	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
3/28/02	31,000	4,400	370	2,200	6,110	
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
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-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
	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	0.89	<0.5	<0.5	<1.5
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
	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
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	KYLENES
MW-9	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
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
	2/28/02	7,400	45	20	210	66
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-11	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
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
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
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
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

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



EXPLANATION:



Scale: 1"=120'

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

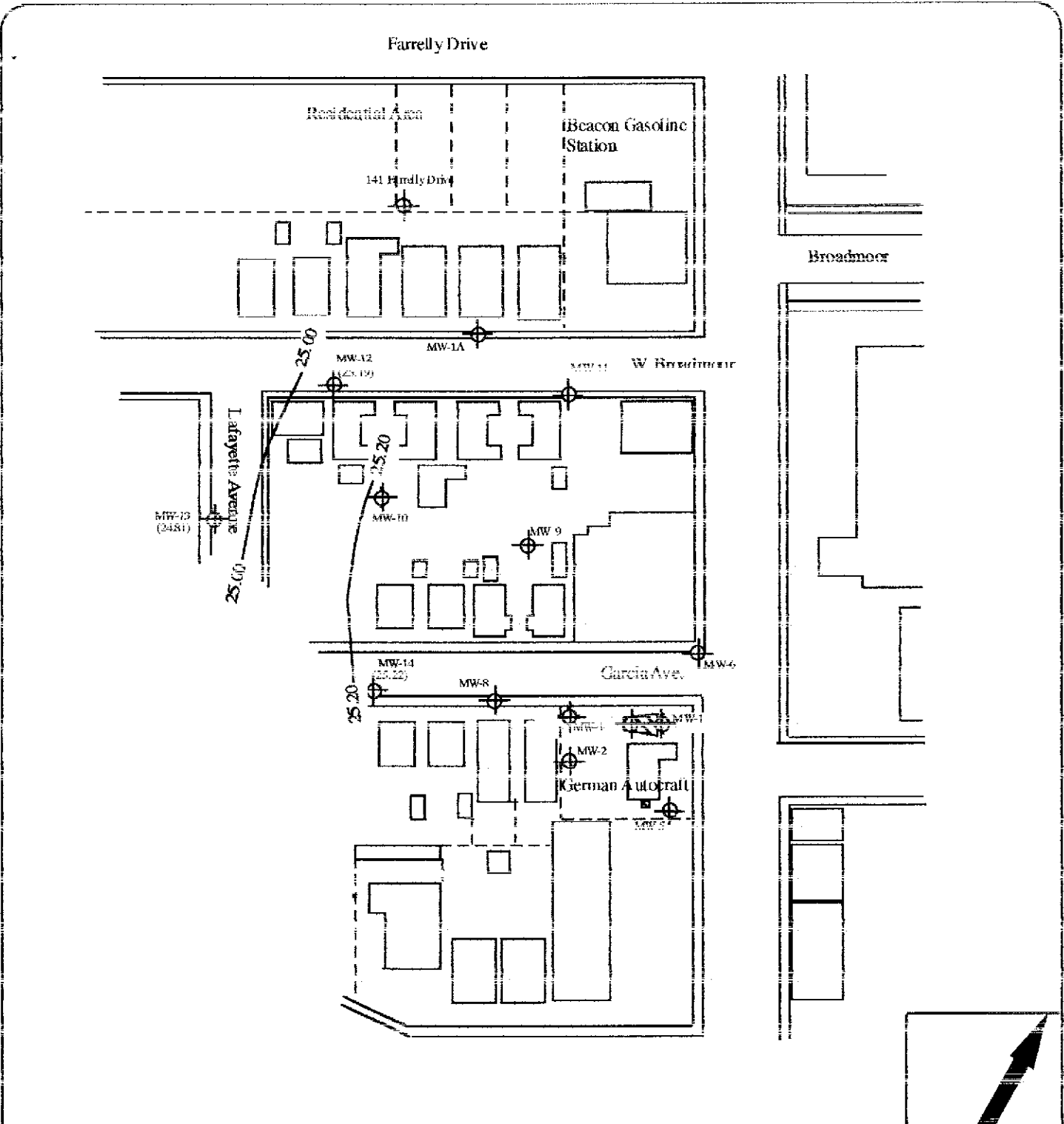


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112

German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Date: 3/01




EXPLANATION:



Scale: 1"=120'

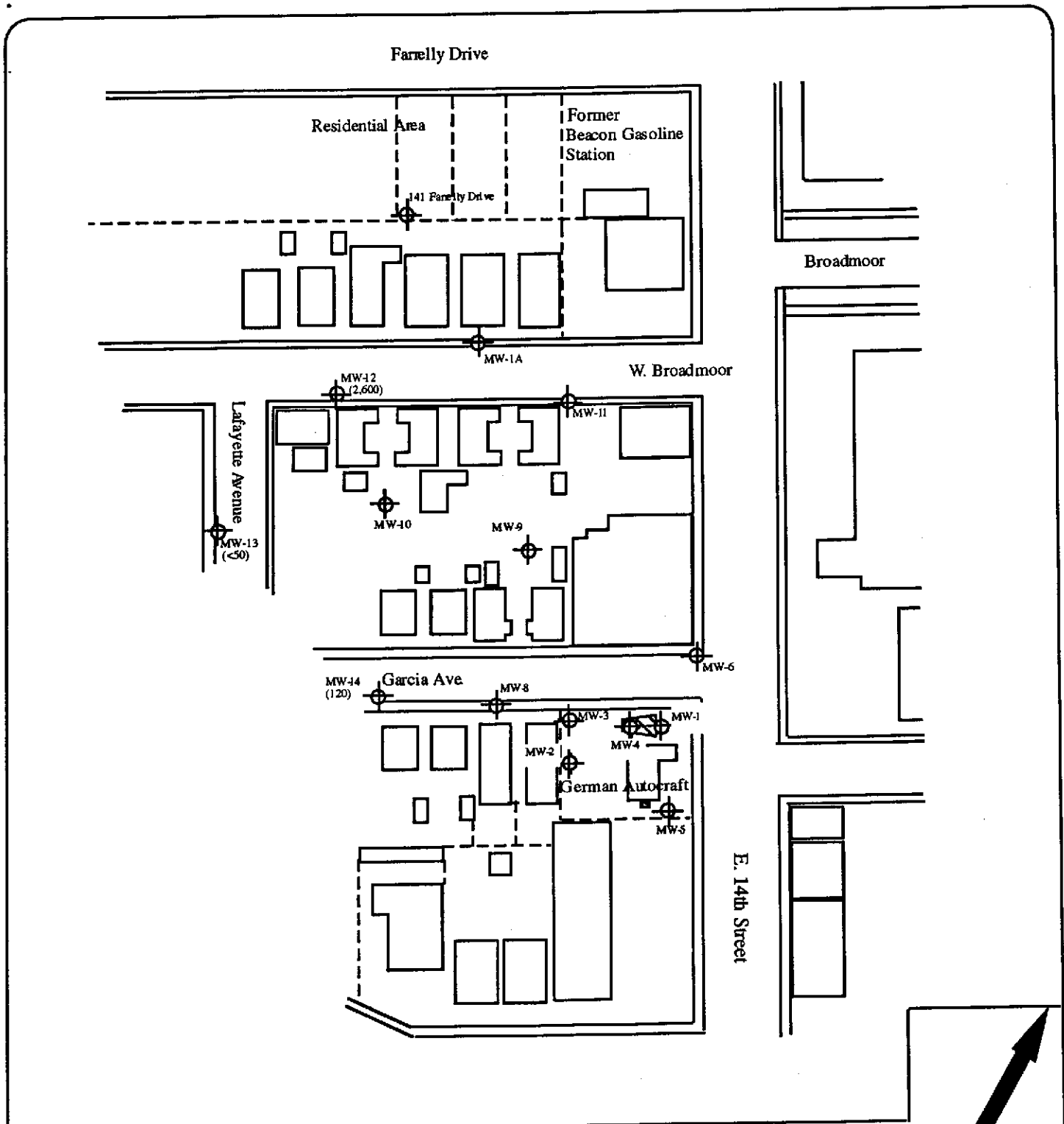
- Streets/Buildings
- Groundwater Monitoring Well
- Former Tank Pit Areas
- Buildings

ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112

Groundwater Potentiometric Elevation Map (6/28/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3
Date: 9/02



EXPLANATION:



Scale: 1"=120'

— Streets/Buildings

⊕ Groundwater Monitoring Well

▨ Former Tank Pit Areas

□ Buildings

(2,600) Groundwater TPHg Concentration (ug/L)

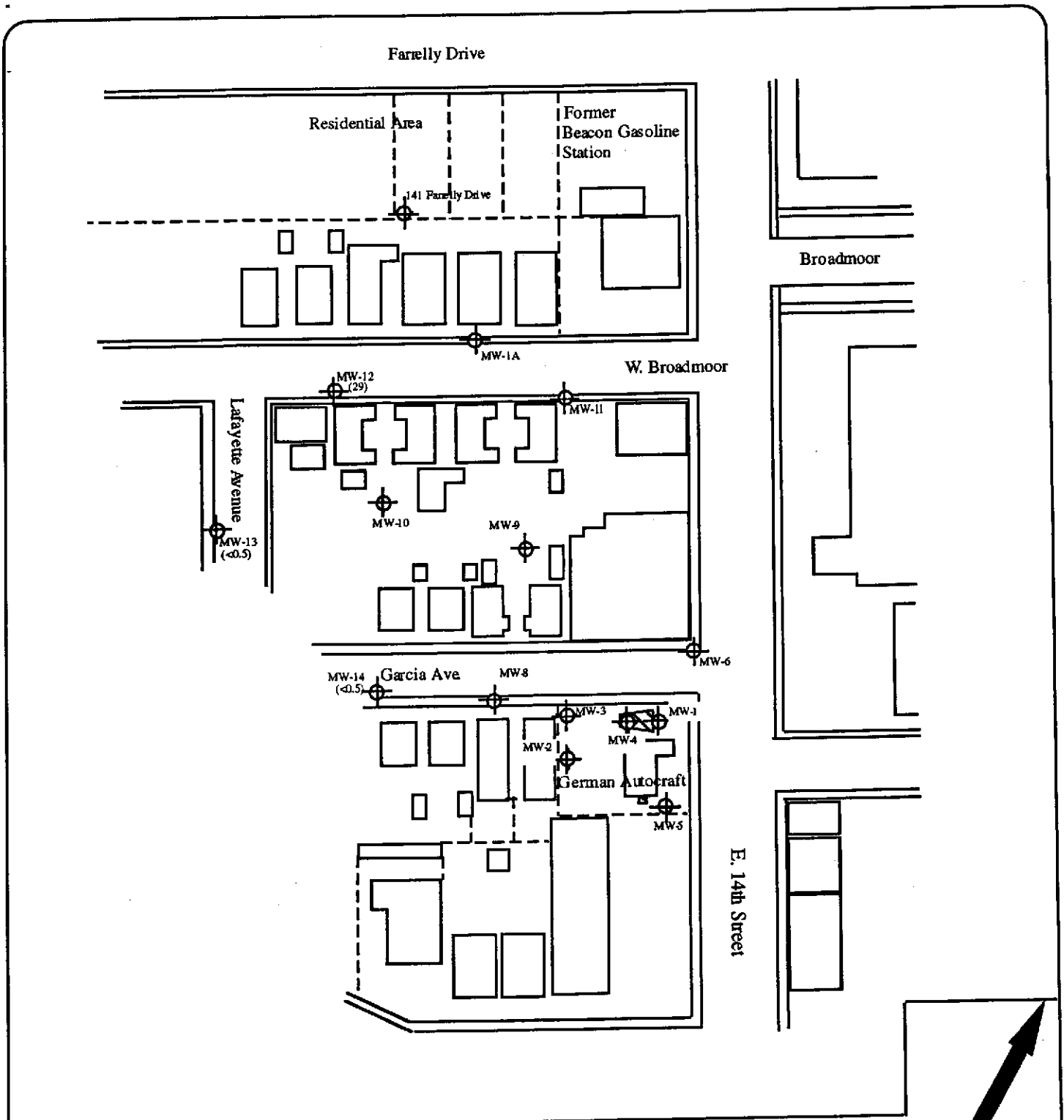


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER
TPHg CONCENTRATIONS (6/28/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 9/02



EXPLANATION:



Scale: 1"=120'

- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings
- (29) Groundwater Benzene Concentration (ug/L)



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

VICINITY MAP WITH GROUNDWATER
 BENZENE CONCENTRATIONS (6/28/02)
German Autocraft
 301 East 14th Street
 San Leandro, California

Figure 5
 Date: 9/02

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 foot. 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.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

July 08, 2002

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

Order: 30471
Project Name:
Project Number:
Project Notes:

Date Collected: 6/28/2002
Date Received: 6/28/2002
P.O. Number: GA2Q02

On June 28, 2002, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
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 408-588-0200.

Sincerely,



Patti Sandrock
QA/QC Manager

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

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

Date: 7/8/02
Date Received: 6/28/2002
Project Name:
Project Number:
P.O. Number: GA2Q02
Sampled By: Tom Price

Certified Analytical Report

Order ID: 30471 Lab Sample ID: 30471-001 Client Sample ID: MW-12
Sample Time: Sample Date: 6/28/2002 Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	29		25	0.5	12.5	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
Toluene	ND		25	0.5	12.5	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
Ethyl Benzene	30		25	0.5	12.5	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
Xylenes, Total	ND		25	1	25	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
			Surrogate			Surrogate Recovery			Control Limits (%)	
			4-Bromofluorobenzene			129.6			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	2600		25	50	1250	µg/L	N/A	7/2/2002	WGC62493	EPA 8015 MOD. (Purgeable)
			Surrogate			Surrogate Recovery			Control Limits (%)	
			4-Bromofluorobenzene			96.0			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)


Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

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

Date: 7/8/02
Date Received: 6/28/2002
Project Name:
Project Number:
P.O. Number: GA2Q02
Sampled By: Tom Price

Certified Analytical Report

Order ID: 30471

Lab Sample ID: 30471-002

Client Sample ID: MW-13

Sample Time:

Sample Date: 6/28/2002

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	7/2/2002	WGC62493	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	7/2/2002	WGC62493	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	7/2/2002	WGC62493	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	103.2	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	7/2/2002	WGC62493	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.2	65 - 135

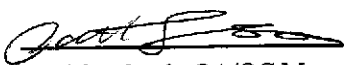
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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


Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

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

Date: 7/8/02
Date Received: 6/28/2002
Project Name:
Project Number:
P.O. Number: GA2Q02
Sampled By: Tom Price

Certified Analytical Report

Order ID: 30471

Lab Sample ID: 30471-003

Client Sample ID: MW-14

Sample Time:

Sample Date: 6/28/2002

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	7/2/2002	WGC12491	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	7/2/2002	WGC12491	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	7/2/2002	WGC12491	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	7/2/2002	WGC12491	EPA 8020
			Surrogate			Surrogate Recovery			Control Limits (%)	
			4-Bromofluorobenzene			106.3			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	120		1	50	50	µg/L	N/A	7/2/2002	WGC12491	EPA 8015 MOD. (Purgeable)
			Surrogate			Surrogate Recovery			Control Limits (%)	
			4-Bromofluorobenzene			127.4			65 - 135	
			aaa-Trifluorotoluene			104.7			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)


Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #: WGC62493
Matrix: Liquid

Units: µg/L
Date Analyzed: 7/2/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		124.2	LCS	124.2			65.0 - 135.0
			Surrogate	Surrogate Recovery	Control Limits (%)						
			4-Bromofluorobenzene	91.4	65 - 135						
Test: BTEX											
Benzene	EPA 8020	ND		8		7.67	LCS	95.9			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.18	LCS	102.3			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.83	LCS	97.9			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24	LCS	100.0			65.0 - 135.0
			Surrogate	Surrogate Recovery	Control Limits (%)						
			4-Bromofluorobenzene	101.6	65 - 135						
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		127	LCSD	127.0	2.23	25.00	65.0 - 135.0
			Surrogate	Surrogate Recovery	Control Limits (%)						
			4-Bromofluorobenzene	92.5	65 - 135						
Test: BTEX											
Benzene	EPA 8020	ND		8		7.86	LCSD	98.3	2.45	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.35	LCSD	104.4	2.06	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.91	LCSD	98.9	1.02	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.2	LCSD	100.8	0.83	25.00	65.0 - 135.0
			Surrogate	Surrogate Recovery	Control Limits (%)						
			4-Bromofluorobenzene	102.0	65 - 135						

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: WGC12491
 Matrix: Liquid

Units: µg/L
 Date Analyzed: 7/1/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		83.3	LCS	83.3			65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
	4-Bromofluorobenzene			112.5		65	-	135			
Test: BTEX											
Benzene	EPA 8020	ND		8		8.387	LCS	104.8			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.083	LCS	101.0			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.961	LCS	99.5			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		25.	LCS	104.2			65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
	4-Bromofluorobenzene			114.9		65	-	135			
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		85.5	LCSD	85.5	2.61	25.00	65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
	4-Bromofluorobenzene			120.6		65	-	135			
Test: BTEX											
Benzene	EPA 8020	ND		8		8.047	LCSD	100.6	4.14	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		7.739	LCSD	96.7	4.35	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.637	LCSD	95.5	4.15	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.	LCSD	100.0	4.08	25.00	65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
	4-Bromofluorobenzene			114.8		65	-	135			

Entech Analytical Labs, Inc.

3334 Victor Court
Santa Clara, CA 95054

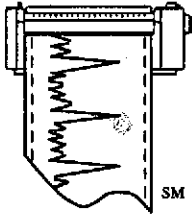
(408) 588-0200
(408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: <u>Tom Price</u>		Phone No.: <u>(408) 453-1800</u>	Purchase Order No.: <u>GA2002</u>	Send Invoice to (if Different)	Phone
Company Name: <u>Environmental Testing</u>		Fax No.: <u>1801</u>	Project Number:	Company	
Mailing Address: <u>1792 Rogers Ave</u>			Project Name:	Billing Address (if Different)	
City: <u>San Jose</u>	State: <u>CA</u>	Zip: <u>95112</u>	Project Location:	City:	State Zip

Sampler: <u>Tom Price</u>		Turn Around Time: Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		Preservative: <input type="checkbox"/> Volatile Organics by GC/MS: <input type="checkbox"/> Freon 113 <input type="checkbox"/> <input type="checkbox"/> Fuel Oxyprenes by 8220 <input type="checkbox"/> 8220B <input type="checkbox"/> <input type="checkbox"/> MIBK by 8220B <input type="checkbox"/> 8220B <input type="checkbox"/> <input type="checkbox"/> Pesticides-8081 <input type="checkbox"/> <input type="checkbox"/> Halogenated or Aromatic Volatiles: <input type="checkbox"/> PCBs - 8082 <input type="checkbox"/> <input type="checkbox"/> 801/8010 <input type="checkbox"/> <input type="checkbox"/> TPH as Gas/BTEX <input type="checkbox"/> 802/8020 <input type="checkbox"/> F113 <input type="checkbox"/> <input type="checkbox"/> Base Neutral/Acid Organics: <input type="checkbox"/> 8270 <input type="checkbox"/> 8270-SIMS <input type="checkbox"/> <input type="checkbox"/> Fuel Scan <input type="checkbox"/> Diesel <input type="checkbox"/> <input type="checkbox"/> w/ Silver Standard Cleanup <input type="checkbox"/> <input type="checkbox"/> w/ Silver Column Cleanup <input type="checkbox"/> TRPH <input type="checkbox"/> Oil & Grease <input type="checkbox"/> THM (502-2) <input type="checkbox"/> Metals - Check Below <input type="checkbox"/> Total <input type="checkbox"/> Dissolved <input type="checkbox"/>													
Date: <u>6/28/02</u>		Order ID:															
Sampling		Matrix	Composite	Grab	Containers	Remarks											
Client ID	Laboratory No.	Date	Time														
<u>MW-12</u>	<u>30471-001</u>	<u>6/28/02</u>		<u>W</u>	<u>✓</u>												
<u>MW-13</u>	<u>002</u>	<u>↓</u>		<u>↓</u>	<u>✓</u>												
<u>MW-14</u>	<u>003</u>	<u>↓</u>		<u>↓</u>	<u>✓</u>												

Relinquished by: <u>Tom Price</u>	Received by: <u>[Signature]</u>	Date: <u>6/28/02</u>	Time: <u>1647</u>	Special Instructions or Comments <input type="checkbox"/> NPDES Detection Limits Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W : CAM-17 <input type="checkbox"/> Plating <input type="checkbox"/> PPM-13 <input type="checkbox"/> LUFT-5 <input type="checkbox"/>
Relinquished by:	Received by:	Date:	Time:	
Relinquished by:	Received by:	Date:	Time:	
Relinquished by:	Received by:	Date:	Time:	



ENVIRONMENTAL TESTING

1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 6/28/02

Project Name: GA

Project No.: _____

Well No./Description: MW-12

Depth of Well: 37.9

1 Well Volume: 2.2

Depth to Water: 23.27

4 Well Volumes: _____

Casing Diameter: 2" 4"

Actual Volume Purged: _____

Calculations:

2" - * 0.1632
4" - * 0.653

$$\begin{array}{r}
 12 \\
 \underline{14} \\
 6 \quad 7 \\
 \underline{16}
 \end{array}$$

Purge Method: Bailer Displacement Pump Impinger/Vacuum _____

Sample Method: Bailer Other Specify: _____

Sheen: No Yes, Describe _____

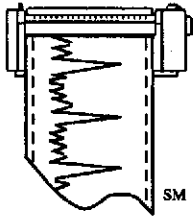
Odor: No Yes, Describe aged HC

Field Measurements:

Time	Volume	pH	Temp.	EC	Color
<u>215</u>	<u>2.2</u>	<u>7.5</u>	<u>23.6</u>	<u>568</u>	<u>gray</u>
<u>220</u>	<u>4.4</u>	<u>7.0</u>	<u>21.2</u>	<u>178</u>	<u>"</u>
<u>225</u>	<u>6.6</u>	<u>7.3</u>	<u>20.7</u>	<u>497</u>	<u>"</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: _____



ENVIRONMENTAL TESTING

1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 6/28/02 Project Name: GA

Project No.: _____ Well No./Description: mw-13

Depth of Well: 37.3 1 Well Volume: 2.0

Depth to Water: 24.70 4 Well Volumes: _____

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

Calculations:

2" - * 0.1632
4" - * 0.653

16
13
48
6

Purge Method: Bailer Displacement Pump Impinger/Vacuum _____

Sample Method: Bailer Other Specify: _____

Sheen: No Yes; Describe _____

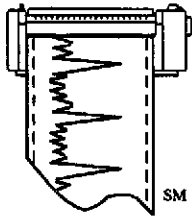
Odor: No Yes; Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
<u>235</u>	<u>2.0</u>	<u>7.5</u>	<u>29.9</u>	<u>478</u>	<u>brown</u>
<u>240</u>	<u>4.0</u>	<u>7.2</u>	<u>22.6</u>	<u>468</u>	<u>11</u>
<u>245</u>	<u>6.0</u>	<u>7.0</u>	<u>20.7</u>	<u>420</u>	<u>11</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: _____



ENVIRONMENTAL TESTING

1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 6/28/82

Project Name: GA.

Project No.: _____

Well No./Description: mw-1A

Depth of Well: 30-30

1 Well Volume: 1.0

Depth to Water: 24.32

4 Well Volumes: _____

Casing Diameter: 2" 4"

Actual Volume Purged: 3.0

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.	EC	Color
<u>305</u>	<u>1.0</u>	<u>7.4</u>	<u>23.2</u>	<u>489</u>	<u>brown</u>
<u>310</u>	<u>2.0</u>	<u>7.2</u>	<u>22.4</u>	<u>370</u>	<u>1</u>
<u>315</u>	<u>3.0</u>	<u>7.5</u>	<u>21.8</u>	<u>382</u>	<u>1</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: _____

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling included the following:

- Groundwater samples were collected in duplicate 40 milliliter vials.

CITY OF SAN LEANDRO

02282

Service No. _____

APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

Permit Number

6/27/02

Date Approved

Work Site: W. Broadmoor, Lafayette Ave, Garcia Ave

Applicant: Name Environmental Testing Address 1792 Rogers Ave San Jose Tel. (415) 453-1800

Owner: Name Mr. Lee Address 301E 14TH ST Tel. (415) 638-5473

Emergency: Name _____ Mobile _____ Tel. _____

Purpose of Permit:

- Utility
- Street Excavation
- Curb, Gutter, Sidewalk, Driveway
- Other Environmental

Detailed Description and Dimensions of Work: cpm small boxes for measurement of groundwater depth/collect samples

Plan Submitted: Yes ✓ No _____ Profile Submitted: Yes _____ No _____

Date Work to be Started: 6/27/02 Date Work to be Completed: 7/27/02

Building Permit No. _____ State Encroachment Permit No. _____

Oro Loma Permit No. _____ Alameda County Flood Control Permit No. _____

Excavation and Grading Permit No. _____

Compliance with State Labor Code, in accordance with Section 3800:

- Applicant has on file with the City of San Leandro evidence that worker's compensation insurance is carried.
- Applicant will not employ anyone and therefore will not be subject to the worker'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. 716602, 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 for 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.

Printed Name: Tom Price Signature: Tom Price Date: 6/27/02

PLEASE CALL (510) 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required ALL WORK SHALL BE PER CITY

Pavement Section Required STANDARD PLANS AND SPECS

Minimum Depth of Cover _____

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

PEDESTRIAN AND TWO WAY TRAFFIC TO BE MAINTAINED AT ALL TIMES

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.

ISSUE FOR CITY ENGINEER

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

INSPECTION RECORD

Date	Comments	Insp	Hrs. Charged

FEES

PERMIT FEE: 450 To Acct #3306

RESTORE/INSPECT DEPOSIT: 725 To CN# 14914

STREET CUT FEE: _____ To Acct #3304

TOTAL: 1175.00

- All charges collected at permit issuance
- All charges to be billed to CN# _____

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

APPENDIX F: 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 Environmental Services Department
835 E. 14th Street
San Leandro, California 94577