RO-302

THIRD QUARTER 2002

QUARTERLY GROUNDWATER MONITORING PROGRAM

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

Prepared For:

Mr. Seung Lee
German Autocraft

Alameda County
NOV 14 2002
Environmental Health

Prepared by:

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I. INTRODUCTION

Environmental Testing (ET) has continued the quarterly groundwater monitoring program during the calendar third 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:

- **September 30, 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 September 30, 2002 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 23.37 - 24.41 feet above mean sea level (see **Table 1**). **Figure 3** shows groundwater gradient/estimated flow direction to be westerly.

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 September 30, 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

The contaminant plume appears relatively stable with the most elevated concentrations near the former UST source. The furthest down gradient well shows 700 ug/L TPHg and 16 ug/L benzene. The edge of the dissolved plume is interpreted to occur beyond well MW-12.

Additional 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**).

If the currently observed trend of contaminants continues through the last quarter 2002, ET requests a review to ascertain whether a reduction in monitoring is possible.

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

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TABLE 1. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		September 30, 2002	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.40	-	-
MW-2	50.02	25.84	24.18
MW-3	49.32	25.20	24.12
MW-4	49.61	25.29	24.32
MW-5	49.63	-	-
MW-6	48.04	23.63	24.41
MW-8	49.34	25.37	23.97
MW-9	48.77	24.66	24.11
MW-10	49.93	26.05	23.88
MW-11	47.93	23.84	24.09
MW-12	48.46	24.71	23.75
MW-13	49.51	26.14	23.37
MW-14	49.54	25.78	23.76
MW-1A	48.23	24.27	23.96
141 Farrelly	48.76	25.34	23.42

[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 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	-
9/30/02	-	24.18	24.12	24.32	-	24.41	23.97	24.11	23.88	24.09	23.96	23.42

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
9/30/02	23.75	23.37	23.76

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

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

Date Sampled: September 30, 2002 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-8	1,400	15	24	32	22
MW-9	34,000	<125	140	240	370
MW-10	670	54	5.9	76	23
MW-12	700	16	4.9	19	9.8
MW-13	<50	<0.5	<0.5	<0.5	<1
MW-14	210	<0.5	1.7	<0.5	1.1
MW-1A	23,000	<50	63	77	230
141 Farrelly	<50	<0.5	<0.5	<0.5	<1
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)

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

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
	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	XYLENES
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

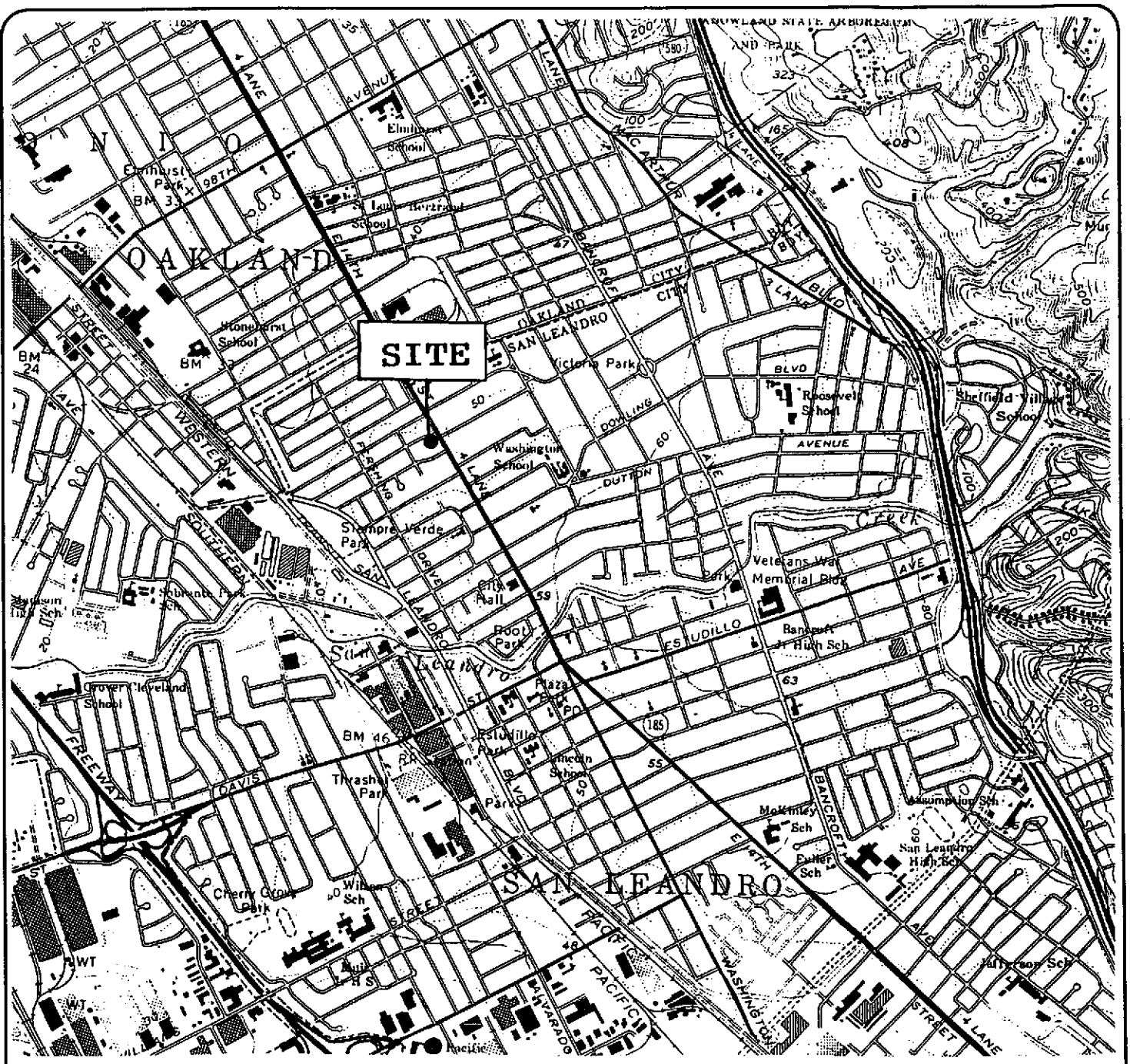
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-5	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
MW-6	12/30/98	400	1.0	<0.5	<0.5	4.8
	3/22/99	390	<0.5	<0.5	<0.5	<0.5
	9/30/99	330	1.8	1.4	1.5	<0.5
	3/18/00	200	1.3	<0.5	<0.5	<0.5
	9/26/00	240	1.5	<0.5	<0.5	<0.5
	3/20/01	160	<0.5	<0.5	<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
	9/30/02	1,400	15	24	32	22
MW-9	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-9	9/30/99	42,000	140	130	1,000	1,700
	12/29/99	1,100,000	1,200	1,300	4,300	8,700
	3/18/00	17,000	89	46	10	600
	7/18/00	12,000	39	8.2	540	760
	9/26/00	11,000	19	<5	470	610
	12/28/00	22,000	100	<100	610	770
	3/20/01	8,200	40	<10	14	210
	10/5/01	77,000	<100	110	780	850
	3/28/02	11,000	34	6.1	220	180
	9/30/02	34,000	<125	140	240	370
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
	9/30/02	670	54	5.9	76	23
MW-11	12/30/98	80	<0.5	<0.5	0.93	1.6

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-11	3/23/99	<50	<0.5	<0.5	<0.5	<0.5
	9/30/99	94	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
	9/26/00	<50	<0.5	<0.5	<0.5	<0.5
	3/20/01	<50	<0.5	<0.5	<0.5	<0.5
	3/28/02	<50	<0.5	<0.5	<0.5	<1.5
MW-12	3/20/01	4,100	28	6.2	<5	16
	6/29/01	4,200	26	25	19	29
	12/21/01	5,300	9.7	<2.5	41	14
	3/28/02	4,900	20	<2.5	69	23
	6/28/02	2,600	29	<12.5	30	<25
	9/30/02	700	16	4.9	19	9.8
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
	9/30/02	<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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-14	3/28/02	390	1.7	<0.5	<0.5	0.74
	6/28/02	120	<0.5	<0.5	<0.5	<1
	9/30/02	210	<0.5	1.7	<0.5	1.1
MW-1A	5/30/97	12,000	18	8.7	90	540
	12/30/98	51	<0.5	<0.5	<0.5	<0.5
	3/23/99	1,800	4.0	<0.5	3.0	7.5
	3/23/99	2,200	10	0.52	3.1	7.1
	9/30/99	13,000	63	26	30	72
	3/8/00	6,100	36	<5	9.7	45
	9/26/00	11,000	14	<5	65	150
	3/20/01	4,800	30	6.0	<5	7.0
	10/5/01	15,000	76	41	36	140
	3/28/02	9,300	35	<12.5	17	32
	9/30/02	23,000	<50	63	77	230
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
141 Farrelly	9/30/02	<50	<0.5	<0.5	<0.5	<1



EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

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

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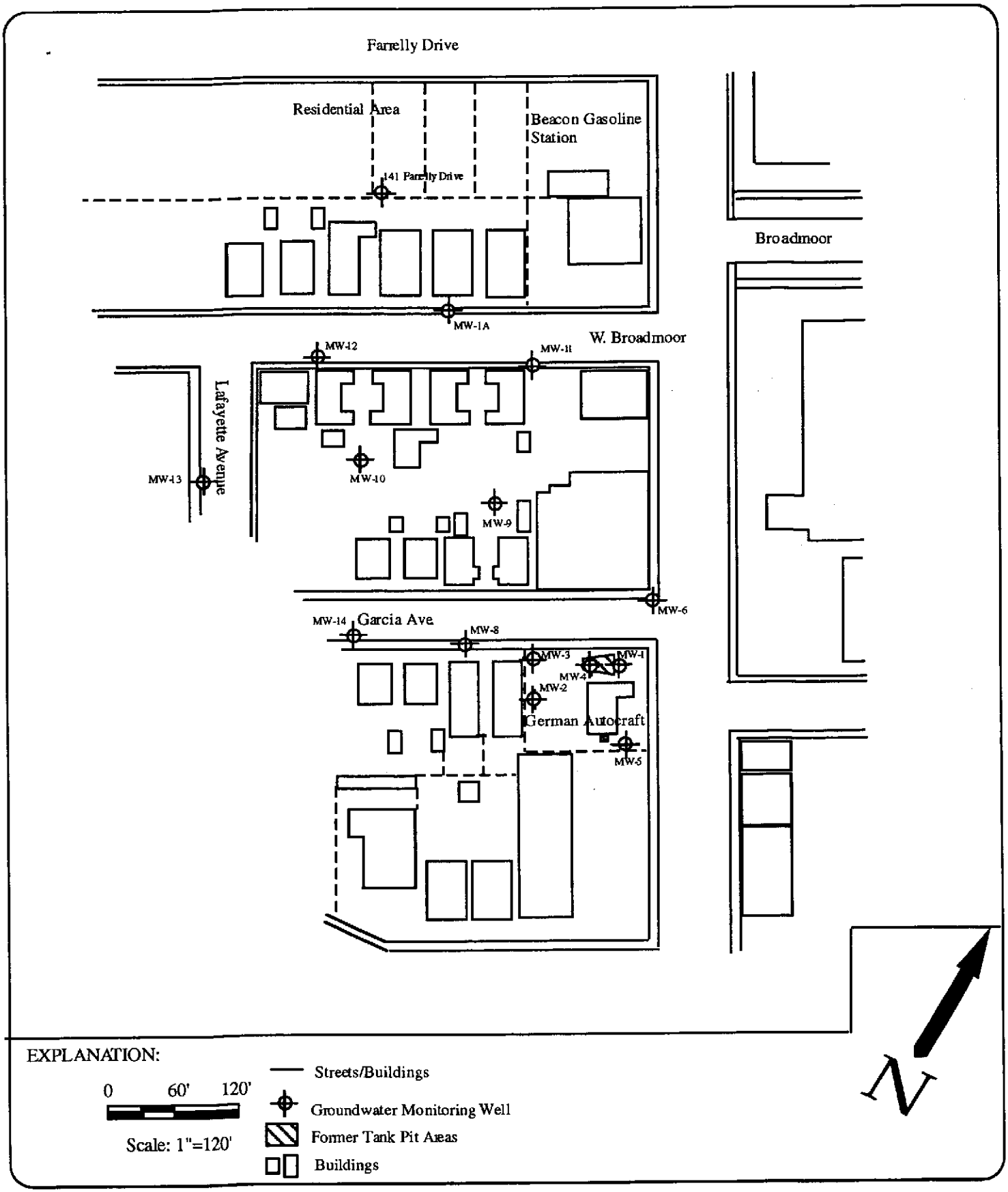
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

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

Figure 1

Project No. 94-52
Date: 3/97



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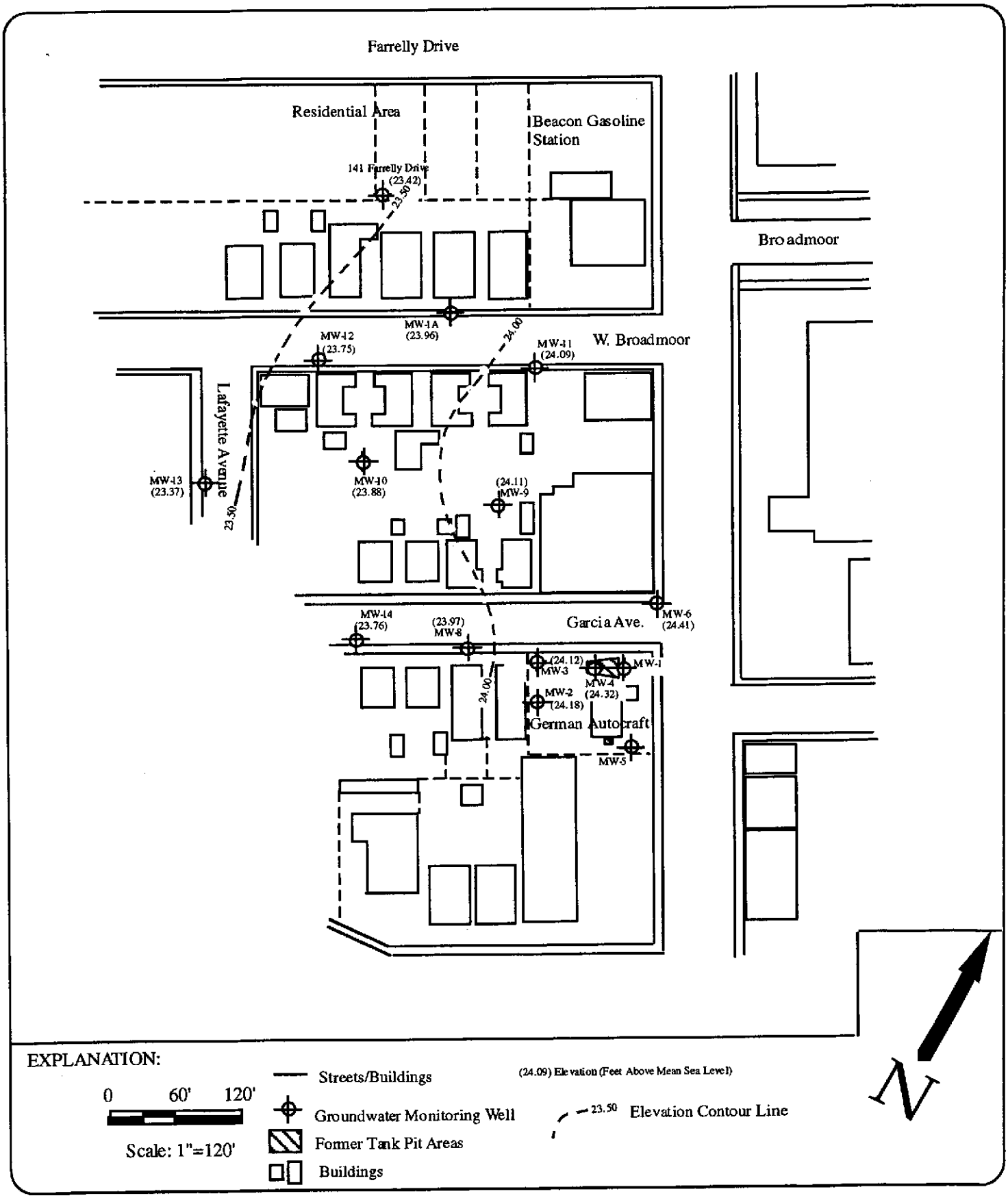
SAN JOSE, CA 95112

German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Date: 3/01



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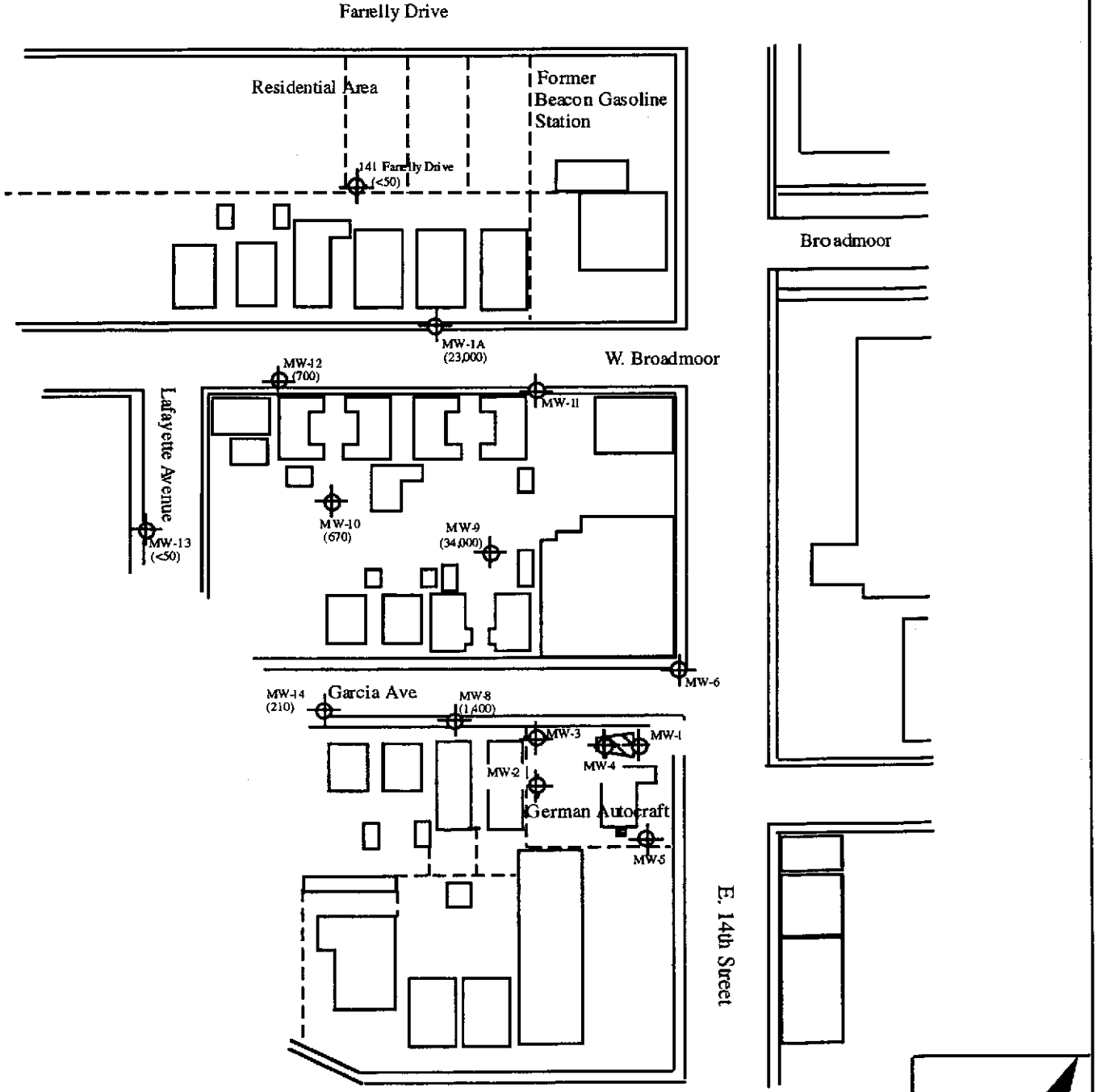
SAN JOSE, CA 95112

Groundwater Potentiometric Elevation Map (9/30/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 10/02



EXPLANATION:

0 60' 120'

Scale: 1"=120'

Streets/Buildings

Groundwater Monitoring Well

Former Tank Pit Areas

Buildings

(1,400) Groundwater TPHg Concentration (ug/L)

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SAN JOSE, CA 95112
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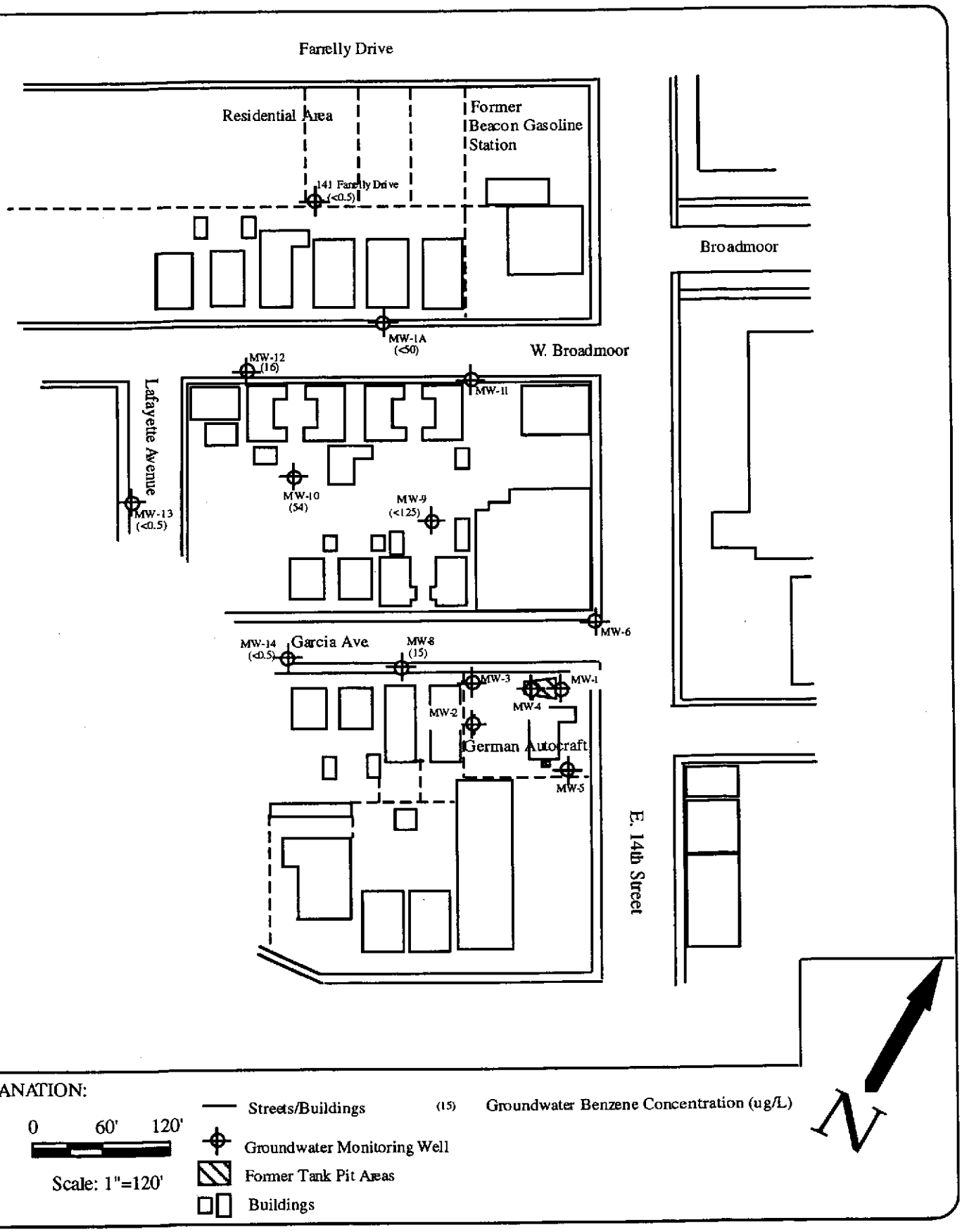
VICINITY MAP WITH GROUNDWATER
TPHg CONCENTRATIONS (9/30/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 10/02



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SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER
BENZENE CONCENTRATIONS (9/30/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5

Date: 10/02

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.

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October 12, 2002

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

Order:	31463	**Date Collected:**	9/30/2002
Project Name:	GA	**Date Received:**	10/2/2002
Project Number:	GA	**P.O. Number:**	GA
Project Notes:			

On October 02, 2002, 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
	PDF	PDF

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: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-001 **Client Sample ID:** MW-8

Sample Time: 4:40 PM **Sample Date:** 9/30/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	15		2.5	0.5	1.25	µg/L	N/A	10/7/2002	WGC62598	EPA 8020
Toluene	24		2.5	0.5	1.25	µg/L	N/A	10/7/2002	WGC62598	EPA 8020
Ethyl Benzene	32		2.5	0.5	1.25	µg/L	N/A	10/7/2002	WGC62598	EPA 8020
Xylenes, Total	22		2.5	1	2.5	µg/L	N/A	10/7/2002	WGC62598	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	127.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1400		2.5	50	125	µg/L	N/A	10/7/2002	WGC62598	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	126.4	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

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

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-002 **Client Sample ID:** MW-9

Sample Time: 4:55 PM **Sample Date:** 9/30/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		250	0.5	125	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Toluene	140		250	0.5	125	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Ethyl Benzene	240		250	0.5	125	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Xylenes, Total	370		250	1	250	µg/L	N/A	10/8/2002	WGC62598	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	72.0	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	34000		250	50	12500	µg/L	N/A	10/8/2002	WGC62598	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105.0	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)

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San Jose, CA 95112
Attn: Tom Price

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-003 **Client Sample ID:** MW-10

Sample Time: 3:30 PM **Sample Date:** 9/30/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	54		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Toluene	5.9		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Ethyl Benzene	76		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Xylenes, Total	23		2.5	1	2.5	µg/L	N/A	10/8/2002	WGC62598	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	76.3	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	670		2.5	50	125	µg/L	N/A	10/8/2002	WGC62598	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	112.8	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)

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San Jose, CA 95112
Attn: Tom Price

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-004 **Client Sample ID:** MW-12

Sample Time: 3:00 PM **Sample Date:** 9/30/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	16		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Toluene	4.9		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Ethyl Benzene	19		2.5	0.5	1.25	µg/L	N/A	10/8/2002	WGC62598	EPA 8020
Xylenes, Total	9.8		2.5	1	2.5	µg/L	N/A	10/8/2002	WGC62598	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	114.2	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	700		2.5	50	125	µg/L	N/A	10/8/2002	WGC62598	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	124.2	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)

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San Jose, CA 95112
Attn: Tom Price

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-005 **Client Sample ID:** MW-13

Sample Time: 2:30 PM **Sample Date:** 9/30/2002 **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	10/8/2002	WGC62598B	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	94.5	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	10/8/2002	WGC62598B	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.9	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)

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Environmental Testing
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San Jose, CA 95112
Attn: Tom Price

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-006 **Client Sample ID:** MW-14

Sample Time: 4:25 PM **Sample Date:** 9/30/2002 **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	10/8/2002	WGC62598B	EPA 8020
Toluene	1.7		1	0.5	0.5	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020
Xylenes, Total	1.1		1	1	1	µg/L	N/A	10/8/2002	WGC62598B	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	210	x	1	50	50	µg/L	N/A	10/8/2002	WGC62598B	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	91.0	65 - 135

Comment: TPH as Gasoline reported value due to heavy hydrocarbon compounds which are present in the TPH as Gasoline quantitation range.

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

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San Jose, CA 95112
Attn: Tom Price

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-007 **Client Sample ID:** MW-1A

Sample Time: 3:50 PM **Sample Date:** 9/30/2002 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		100	0.5	50	µg/L	N/A	10/9/2002	WGC62601	EPA 8020
Toluene	63		100	0.5	50	µg/L	N/A	10/9/2002	WGC62601	EPA 8020
Ethyl Benzene	77		100	0.5	50	µg/L	N/A	10/9/2002	WGC62601	EPA 8020
Xylenes, Total	230		100	1	100	µg/L	N/A	10/9/2002	WGC62601	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113.4	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	23000		100	50	5000	µg/L	N/A	10/9/2002	WGC62601	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	132.7	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

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

Date: 10/12/02
Date Received: 10/2/2002
Project Name: GA
Project Number: GA
P.O. Number: GA
Sampled By: Tom Price

Certified Analytical Report

Order ID: 31463 **Lab Sample ID:** 31463-008 **Client Sample ID:** 141 Farrelly

Sample Time: 5:45 PM **Sample Date:** 9/30/2002 **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	10/9/2002	WGC62601	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	10/9/2002	WGC62601	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	10/9/2002	WGC62601	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	10/9/2002	WGC62601	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	93.9	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	10/9/2002	WGC62601	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	91.8	65 - 135

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

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STANDARD LAB QUALIFIERS (FLAGS)

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 (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value 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
Y	PQL is reported below MDL but verified against a standard analyzed at the client requested reporting limit of 0.5 ppb
C	Reported results affected by contaminated reagent materials. See narrative for futher explanation

Entech Analytical Labs, Inc.

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

Quality Control Results Summary

QC Batch #: WGC62598 **Units:** µg/L

Matrix: Liquid **Date Analyzed:** 10/7/2002

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		94.	LCS	94.0			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			101.9			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		8.37	LCS	104.6			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.52	LCS	106.5			65.0 - 135.0
Toluene	EPA 8020	ND		8		8.45	LCS	105.6			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		26.6	LCS	110.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			97.5			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		76.	LCSD	76.0	21.18	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			108.9			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		6.73	LCSD	84.1	21.72	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		6.93	LCSD	86.6	20.58	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		6.86	LCSD	85.8	20.77	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		21.	LCSD	87.5	23.53	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			86.4			65 - 135					

Entech Analytical Labs, Inc.

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

Quality Control Results Summary

QC Batch #: WGC62598B
Matrix: Liquid
Units: µg/L
Date Analyzed: 10/9/2002

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		95.8	LCS	95.8			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			100.4			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		8.15	LCS	101.9			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.63	LCS	107.9			65.0 - 135.0
Toluene	EPA 8020	ND		8		7.87	LCS	98.4			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			100.6			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		106.8	LCSD	106.8	10.86	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			119.9			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		8.63	LCSD	107.9	5.72	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.74	LCSD	109.3	1.27	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		8.62	LCSD	107.7	9.10	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		25.8	LCSD	107.5	7.23	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			103.2			65 - 135					

Entech Analytical Labs, Inc.

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

Quality Control Results Summary

QC Batch #: WGC62601 **Units:** µg/L

Matrix: Liquid **Date Analyzed:** 10/9/2002

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		106.4	LCS	106.4			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			108.6			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		8.3	LCS	103.8			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.49	LCS	106.1			65.0 - 135.0
Toluene	EPA 8020	ND		8		8.42	LCS	105.3			65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		25.6	LCS	106.7			65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			94.8			65 - 135					
Test: TPH as Gasoline											
TPH as Gasoline	EPA 8015 M	ND		100		90.2	LCSD	90.2	16.48	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			90.7			65 - 135					
Test: BTEX											
Benzene	EPA 8020	ND		8		8.12	LCSD	101.5	2.19	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.38	LCSD	104.8	1.30	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		8.	LCSD	100.0	5.12	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.6	LCSD	102.5	3.98	25.00	65.0 - 135.0
Surrogate			**Surrogate Recovery**			**Control Limits (%)**					
4-Bromofluorobenzene			96.5			65 - 135					

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) 453-1800	Send Invoice to (if Different)	Phone No.
Client Environmental Testing	Fax No. (408) 453-1801	Company	Purchase Order No. GA
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. GA	Turn Around Time: [X] 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				
	MW-8	9/30/02	440	✓					✓		✓																3/463-001					
	MW-9		455	✓					✓		✓																			002			
	MW-10		330	✓					✓		✓																			003			
	MW-12		300	✓					✓		✓																			004			
	MW-13		230	✓					✓		✓																			005			
	MW-14		425	✓					✓		✓																			006			
	MW-1A		350	✓					✓		✓																			007			
	1A1 Farrelly	✓	545	✓					✓		✓																			008			

Relenquished by:	Received by:	Date	Time
Tom Price		10/2/02	930
Relenquished by:	Received by:	Date	Time
Relenquished by:	Received by:	Date	Time

Special Instructions or Comments ☐ NPDES Detection Limits

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

Date: 9/30/02 Project Name: GA

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

Depth of Well: 33.0 1 Well Volume: 1.1

Depth to Water: 25.37 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 3.3 gallons

Calculations:

4 1.6
7
1 2

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 faint HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
430	1.1	6.4	68	1666	gray
435	2.2	7.4	66	1666	"
440	3.3	7.0	65	1666	"

Remarks:_____

Sampler: _____

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

Date: 9/30/02 Project Name: GA

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

Depth of Well: 34.30 1 Well Volume: 1.6

Depth to Water: 24.66 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 4.8 gallons

Calculations:

16
10
1.6

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ___ No ✓Yes, Describe heavy rainbow

Odor: ___ No ✓Yes, Describe strong HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
445	1.6	6.8	65	1661	gray
450	3.2				
455	4.8				

Remarks: _____

Sampler: _____

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

Date: 9/30/02 Project Name: GA.

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

Depth of Well: 26.05 1 Well Volume: ~2.0

Depth to Water: 38.7 4 Well Volumes: ______

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 6.0 gallons

Calculations:

2" - * 0.1632
4" - * 0.653

1.6.
12
32
16

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

Sample Method: ✓ Bailer __ Other Specify: ______

Sheen: ✓ No __ Yes, Describe ______

Odor: __ No ✓ Yes, Describe HC medium.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
320	2.0	6.0	71	1666	gray
325	4.0	5.9	70	1668	"
330	6.0	6.4	69	1666	"

Remarks: ______

Sampler: ______

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

Date: 9/30/02 Project Name: GA

Project No.: _____ Well No./Description: MW-12

Depth of Well: ~~40~~ 38.3 1 Well Volume: 2.5

Depth to Water: 24.71 4 Well Volumes: _____

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 7.5 gallons

Calculations: 3 16 / 6 6

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 faint HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
250	2.5	7.2	71	1666	gray
255	5.0	7.0	65	1666	"
300	7.5	7.0	65	1666	"

Remarks: _____

Sampler: _____

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

Date: 9/30/02 Project Name: GA

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

Depth of Well: 40 1 Well Volume: 2.2

Depth to Water: 26.14 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 6.6 gallons

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
220	2.2	7.0	68	1701	brown
225	4.4	6.8	69	1668	"
230	6.6	6.8	67	1666	"

Remarks: _____

Sampler: _____

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

Date: 9/30/02 Project Name: GA

Project No.: _____ Well No./Description: mw-14

Depth of Well: 30.5 1 Well Volume: 0.8

Depth to Water: 25.78 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 2.4 gallons

Calculations: 16 / 0.8 = 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 very faint HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
415	0.8	7.5	64	1666	brown
420	1.6	7.7	67	1666	"
425	2.4	7.5	66	1666	"

Remarks: _____

Sampler: _____

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

Date: 9/30/02 Project Name: GA

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

Depth of Well: 33.45 1 Well Volume: 1.4

Depth to Water: 24.27 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 4.2 gallons

Calculations:

516
9
4
1.4

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe spotty sheen floating on water

Odor: ___ No ✓ Yes, Describe Strong HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
340	1.4	6.1	67	1671	grey
345	2.8	6.8	67	1666	"
356	4.2	6.9	66	1666	"

Remarks: _____

Sampler: _____

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

Date: 9/30/02 Project Name: GA.

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

Depth of Well: _____ 1 Well Volume: _____

Depth to Water: 25.34 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

Remarks: grab sample only, no purge 545 pm.

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

Service No.________________

Permit Number: [illegible]

Date Approved: [illegible]

Work Site: W. Broadmoor, [illegible], [illegible] Ave

Applicant: Name [illegible] Address [illegible] Tel. [illegible]

Owner: Name [illegible] Address [illegible] Tel. [illegible]

Emergency: Name________________ Mobile________________ Tel.________________

Purpose of Permit:

☐ Utility ☐ Street Excavation ☐ Curb, Gutter, Sidewalk, Driveway ☒ Other________________

Detailed Description and Dimensions of Work: [illegible]

Plan Submitted: Yes ✓ No________ Profile Submitted: Yes________ No________

Date Work to be Started: 9/30/02 Date Work to be Completed: 11/30/02

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. [illegible], 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: [illegible] Signature: [illegible] Date: 9/30/02

PLEASE CALL (510) 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required: [illegible]

Pavement Section Required: [illegible]

Minimum Depth of Cover: [illegible]

Police & Fire Dept. to be notified 24 hours prior to start: YES_____ NO_____

[illegible]

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.

ISSUE FOR CITY ENGINEER

[illegible signature]

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: [illegible] To Acct #3306

RESTORE/INSPECT DEPOSIT: [illegible] To CN#________

STREET CUT FEE:________ To Acct #3304

TOTAL: [illegible]

☐ All charges collected at permit issuance

☐ All charges to be billed to CN#________

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