

RO-302

FOURTH QUARTER 2002

QUARTERLY GROUNDWATER MONITORING PROGRAM

GERMAN AUTOCRAFT

301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

Prepared For:

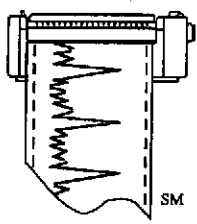
Mr. Seung Lee
 German Autocraft

Alameda County

FEB 06 2003

Environmental Health

Prepared by:



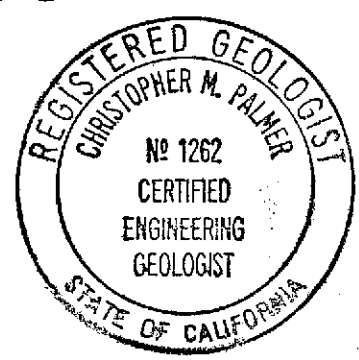
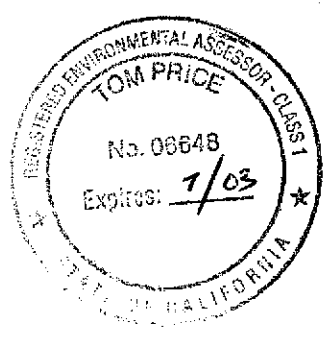
ENVIRONMENTAL TESTING
 1792 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112
 408.453.1800 FAX: 408.453.1801

Tom Price

Tom Price, REA#6648
 Project Manager

Christopher M. Palmer

Christopher M. Palmer
 CEG#1262



Report issued January 20, 2003

TABLE OF CONTENTS

I. INTRODUCTION.....	2
II. BACKGROUND	3
III. WORK PERFORMED DURING CURRENT PERIOD	3
IV. GROUNDWATER ELEVATION AND GRADIENT	3
V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS	4
VI. DISCUSSION.....	5
VII. CONCLUSIONS.....	6
VIII. LIMITATIONS.....	7
IX. REFERENCES	8
TABLE 1. CURRENT GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA	11
TABLE 2. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA	12
TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)	13
TABLE 4. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)	14
FIGURE 1: LOCATION MAP.....	23
FIGURE 2: SITE MAP.....	24
FIGURE 3: VICINITY MAP WITH GROUNDWATER ELEVATIONS (12/21/02).....	25
FIGURE 4: VICINITY MAP WITH GROUNDWATER TOTAL PETROLEUM HYDROCARBON CONCENTRATIONS (12/21/02)	26
FIGURE 5: VICINITY MAP WITH GROUNDWATER BENZENE CONCENTRATIONS (12/21/02)	27
FIGURE 6a: TIME TREND PLOTS FOR MW-1	28
FIGURE 6b: TIME TREND PLOTS FOR MW-2	29
FIGURE 6c: TIME TREND PLOTS FOR MW-3	30
FIGURE 6d: TIME TREND PLOTS FOR MW-4	31
FIGURE 6e: TIME TREND PLOTS FOR MW-5	32
FIGURE 6f: TIME TREND PLOTS FOR MW-6	33
FIGURE 6g: TIME TREND PLOTS FOR MW-8	34
FIGURE 6h: TIME TREND PLOTS FOR MW-9	35
FIGURE 6i: TIME TREND PLOTS FOR MW-10.....	36
FIGURE 6j: TIME TREND PLOTS FOR MW-11	37
FIGURE 6k: TIME TREND PLOTS FOR MW-12	38
FIGURE 6l: TIME TREND PLOTS FOR MW-13.....	39
FIGURE 6m: TIME TREND PLOTS FOR MW-14.....	40
FIGURE 6n: TIME TREND PLOTS FOR MW-1A	41
FIGURE 6o: TIME TREND PLOTS FOR 141 FARRELLY	42
APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES	43
APPENDIX B: LABORATORY REPORTS AND CHAINS-OF-CUSTODY FORMS	44
APPENDIX C: FIELD DATA SHEETS/GROUNDWATER SAMPLING	45
APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM	46
APPENDIX E: CITY OF SAN LEANDRO ENCROACHMENT PERMITS	47
APPENDIX F: REPORT DISTRIBUTION LIST	48

I. INTRODUCTION

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

- **December 21, 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 December 21, 2002 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 27.99 - 28.69 feet above mean sea level (see **Table 1**). **Figure 3** shows groundwater gradient/estimated flow direction to be southwesterly. This southerly flow direction observed this quarter is about 90 degrees off the historic west-northwesterly flow direction. It is possible that the lack of water level data from MW-12 has resulted in an anomalous plot.

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 December 21, 2002, groundwater samples were collected from monitoring wells following the groundwater sampling procedures presented in **Appendix A**. This period a sample was scheduled to be collected at monitoring well MW-12 however, a car was parked on the well and the owner could not be located. Sampling at MW-12 is scheduled to resume during the next project sampling event. 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**.

Figures 6a - 6o present logarithmic plots of historic chemical test concentrations. For the time trend plots, where chemical concentration was below the method detection limit, the plotted value is the average of the detection limit and zero. Refer to **Table 4** for historic chemical test results. Note that on some plots, the concentrations are so low that the log plots appear nearly arithmetical. Also, due to graphing and plotting software limitations, on some plots where values are negative, the plotted line appears to over-write the printed dates (for example see **Figure 6f** "MW-6 Benzene Time Trend Plot").

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

The contaminant plume appears relatively stable with the most elevated concentrations near the former UST source. The historical data set (see **Table 4**) shows that the edge of the dissolved plume is interpreted to occur beyond well MW-12. This period time trend plots for monitoring wells were prepared showing historic logarithmic concentrations to display graphical trends for wells (see **Figures 6a - 6o**). The overall trends in TPHg and benzene chemical concentrations appear stable or slowly declining. A review of the historical data set by the ACDEH may indicate that a further reduction of the sampling frequency for the monitoring program is appropriate.

Groundwater flow contours used only three points for this quarter monitoring. That data shows an anomalous south flow direction. Historic flow data shows a consistent west-northwesterly flow direction.

MW-12 could not be sampled due to a car parked on the well in the street. TPHg and BTEX were not detected above detection limits at MW-13 and the historic irrigation well located at the private residence at 141 Farrelly (see **Figure 2**) At MW-14, low levels of TPHg was detected at 53 ug/L however BTEX constituents were not detected above detection limits. The log plots of historic monitoring data show stable and gently declining concentrations.

VII. CONCLUSIONS

Selected wells' various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (see historic test results **Table 4**).

Historic 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. Log plots of monitoring wells' historic chemical data were prepared to evaluate the data collected to date. ET will discuss the historic data with the county representative following review regarding future site monitoring. The site is scheduled for continued monitoring.

VIII. LIMITATIONS

The data, information, interpretations and recommendations contained in this report are presented to meet current suggested regulatory requirements for determining groundwater quality on the site. Environmental Testing 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.

IX. 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.

Chemist Enterprises, *Soil and Water Investigation at German Autocraft, 301 East 14th Street, San Leandro, California*, April 12, 1995

The Environmental Construction Company, *Preliminary Soil and Groundwater Contamination Assessment, German Autocraft, 301 East 14th Street, San Leandro, California*, February 1991.

The Environmental Construction Company, *Underground Storage Tank Removals, German Autocraft, 301 East 14th Street, San Leandro, California*, November 1990.

Environmental Testing, *Fourth Quarter 2002 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, January 20, 2003.

Environmental Testing, *Third Quarter 2002 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, October 28, 2002.

Environmental Testing, *Second Quarter 2002 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, September 17, 2002.

Environmental Testing, *Fourth Quarter 2001/First Quarter 2002 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, April 18, 2002.

Environmental Testing, *Second and Third Quarters 2001 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, November 14, 2001.

Environmental Testing, *First Quarter 2001 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California*, May 21, 2001.

Environmental Testing, *Installation of Three Groundwater Monitoring Wells German Autocraft, 301 East 14th Street, San Leandro, California*, March 26, 2001.

Environmental Testing, *Fourth Quarter 2000 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California, March 26, 2001.*

Environmental Testing, *Third Quarter 2000 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California, October 20, 2000.*

Environmental Testing, *Second Quarter /July 2000 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California, August 14, 2000.*

Environmental Testing and Management, *First Quarter 2000 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California, March 27, 2000.*

Environmental Testing and Management, *Third and Fourth Quarters 1999 Quarterly Groundwater Monitoring Program German Autocraft, 301 East 14th Street, San Leandro, California, February 4, 2000.*

Environmental Testing and Management, *First Quarter 1999 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, July 13, 1999.*

Environmental Testing and Management, *Fourth Quarter 1998 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, January 29, 1999.*

Environmental Testing and Management, *Third Quarter 1998 Installation of Six Groundwater Monitoring Wells and Quarterly Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, November 16, 1998.*

Environmental Testing and Management, *Second Quarter 1998 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, July 10, 1998.*

Environmental Testing and Management, *First Quarter 1998 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, May 21, 1998.*

Environmental Testing and Management, *Fourth Quarter 1997 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, December 18, 1997.*

- Environmental Testing and Management, *Third Quarter 1997 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, August 4, 1997.*
- Environmental Testing and Management, *Second Quarter 1997 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, June 11, 1997.*
- Environmental Testing and Management, *First Quarter 1997 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, March 24, 1997.*
- Environmental Testing and Management, *Fourth Quarter 1996 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, January 21, 1997.*
- Environmental Testing and Management, *Third Quarter 1996 Quarterly Groundwater Monitoring Report, German Autocraft, 301 East 14th Street, San Leandro, California, November 18, 1996.*
- Environmental Testing and Management, *Second Quarter 1996 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, August 8, 1996.*
- Environmental Testing and Management, *Continued Soil and Water and Offsite Investigation at German Autocraft, 301 East 14th Street, San Leandro, California, July 12, 1996.*
- Environmental Testing and Management, *First Quarter 1996 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, May 20, 1996.*
- Environmental Testing and Management, *Third Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, October, 1995.*
- Environmental Testing and Management, *Fourth Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California, February, 1995.*
- 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

		December 21, 2002	
WELL	CASING ELEVATION ¹	Depth to Groundwater	Groundwater Elevation
MW-13	49.51	21.52	27.99
MW-14	49.54	21.51	28.03
141 Farrelly	48.76	20.07	28.69

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-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
12/21/02	-	27.99	28.03

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

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

Date Sampled: December 21, 2002 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-13	<50	<0.5	<0.5	<0.5	<1
MW-14	53	<0.5	<0.5	<0.5	<1
141 Farrelly	<50	<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: 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

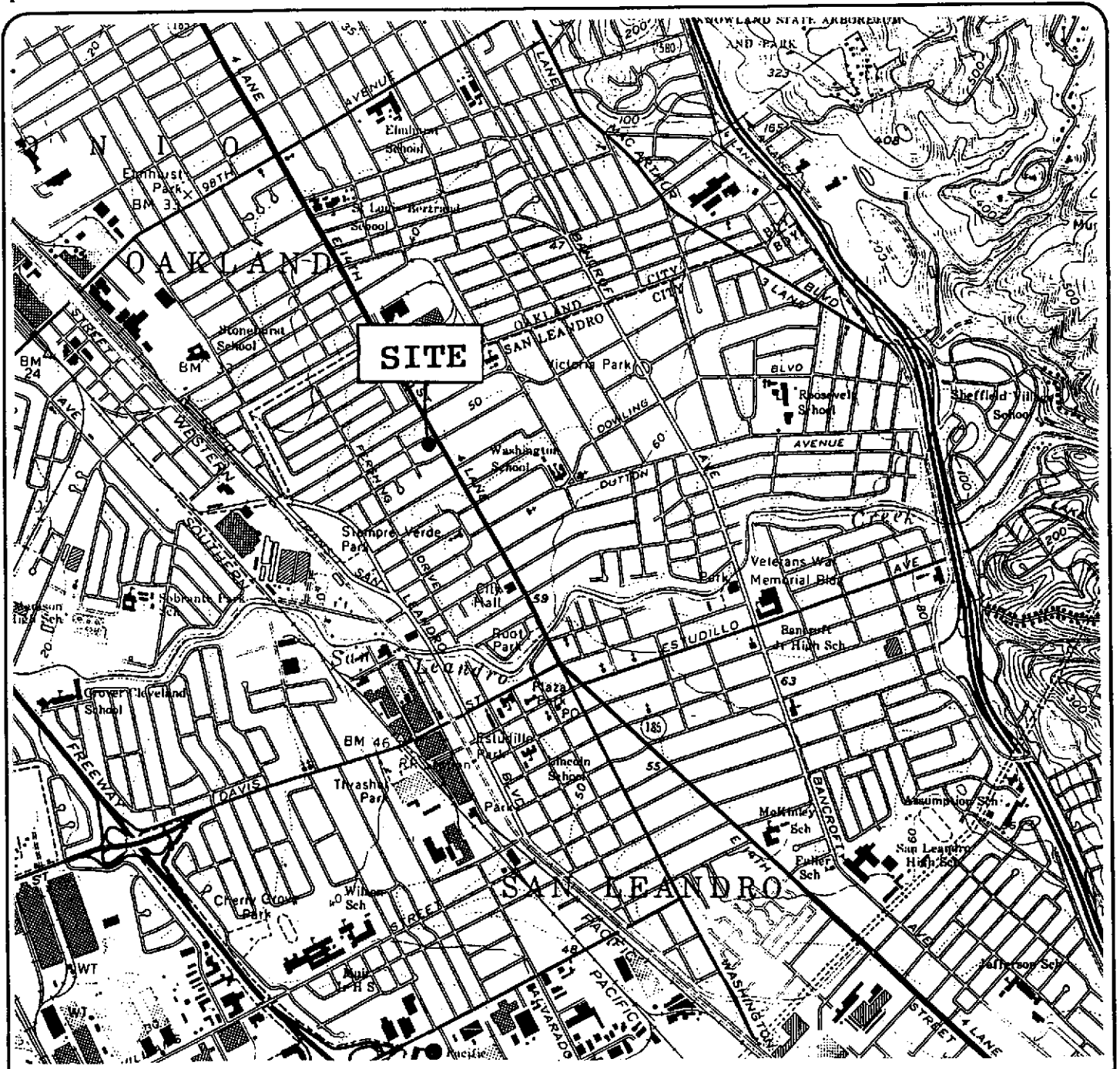
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES
MW-5	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
MW-6	12/30/98	400	1.0	<0.5	<0.5	4.8
	3/22/99	390	<0.5	<0.5	<0.5	<0.5
	9/30/99	330	1.8	1.4	1.5	<0.5
	3/18/00	200	1.3	<0.5	<0.5	<0.5
	9/26/00	240	1.5	<0.5	<0.5	<0.5
	3/20/01	160	<0.5	<0.5	<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	KYLENES
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
	12/21/02	<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

WELL	DATE	TPHg	BENZENE	TOLUENE	EIHYL- BENZENE	XYLENES
MW-14	12/21/01	1,500	3.1	13	1.9	22
	3/28/02	390	1.7	<0.5	<0.5	0.74
	6/28/02	120	<0.5	<0.5	<0.5	<1
	9/30/02	210	<0.5	1.7	<0.5	1.1
	12/21/02	53	<0.5	<0.5	<0.5	<1
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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
141 Farrelly	12/29/00	<50	<0.5	<0.5	<0.5	<0.5
	12/21/01	<50	<0.5	<0.5	<0.5	<0.5
	9/30/02	<50	<0.5	<0.5	<0.5	<1
	12/21/02	<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.

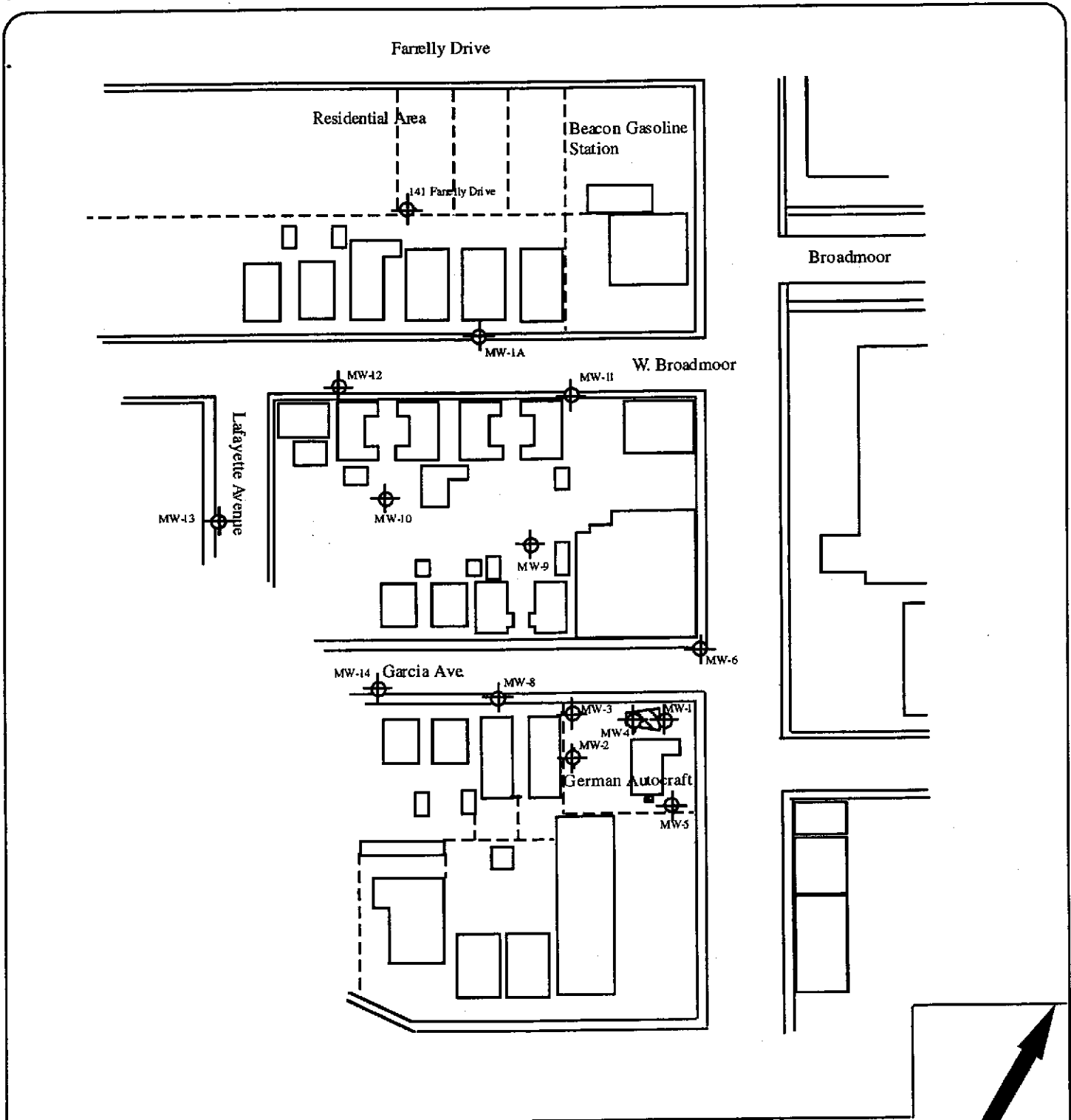


ENVIRONMENTAL TESTING & MGMT
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

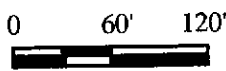
LOCATION MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 1

Project No.
94-52
Date: 3/97




EXPLANATION:



Scale: 1"=120'

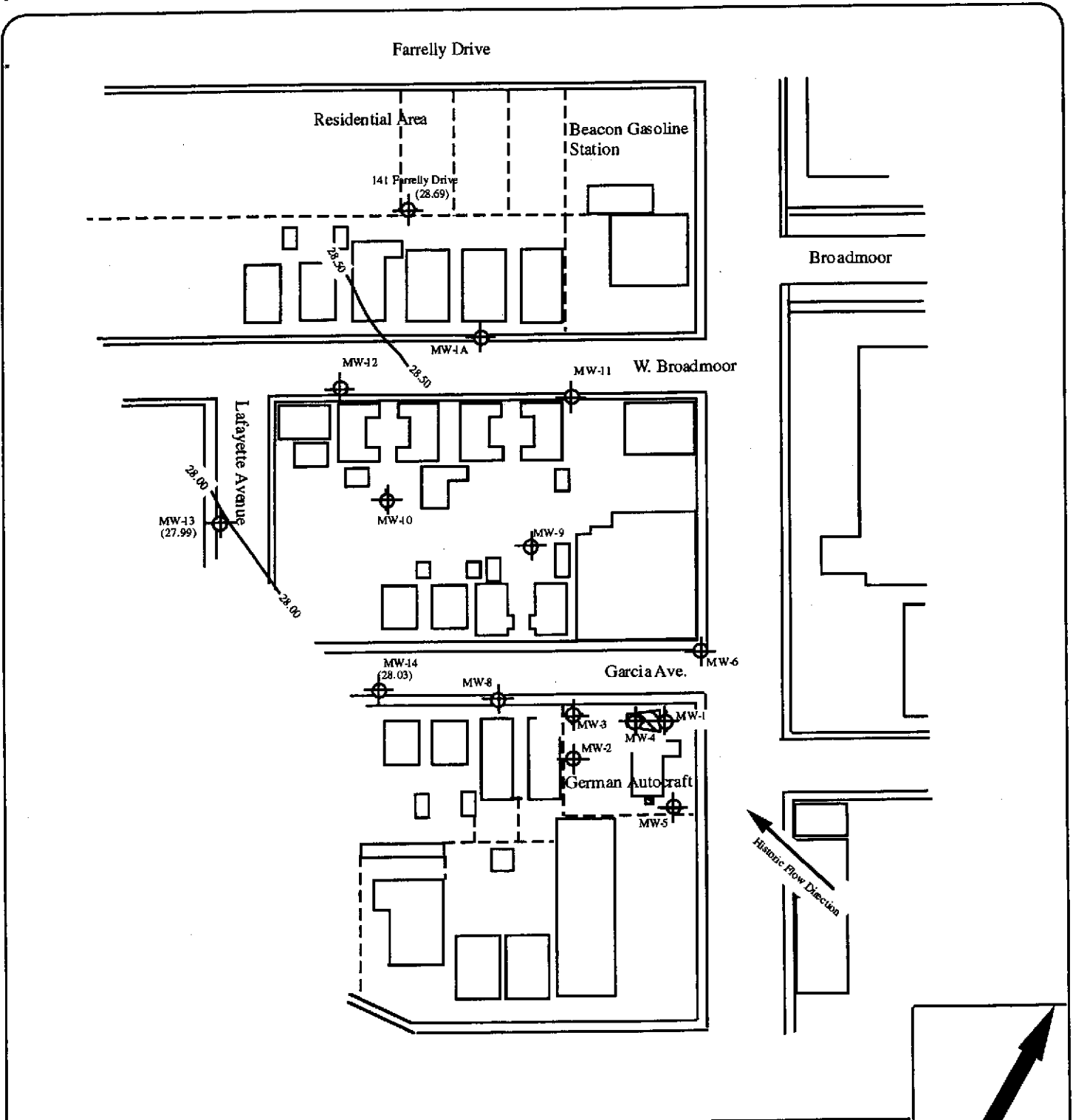
- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings



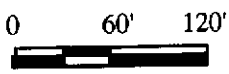

ENVIRONMENTAL TESTING
 1792 ROGERS AVENUE
 SAN JOSE, CA 95112

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
- (27.99) Elevation (Feet Above Mean Sea Level)
- 28.50 Elevation Contour Line

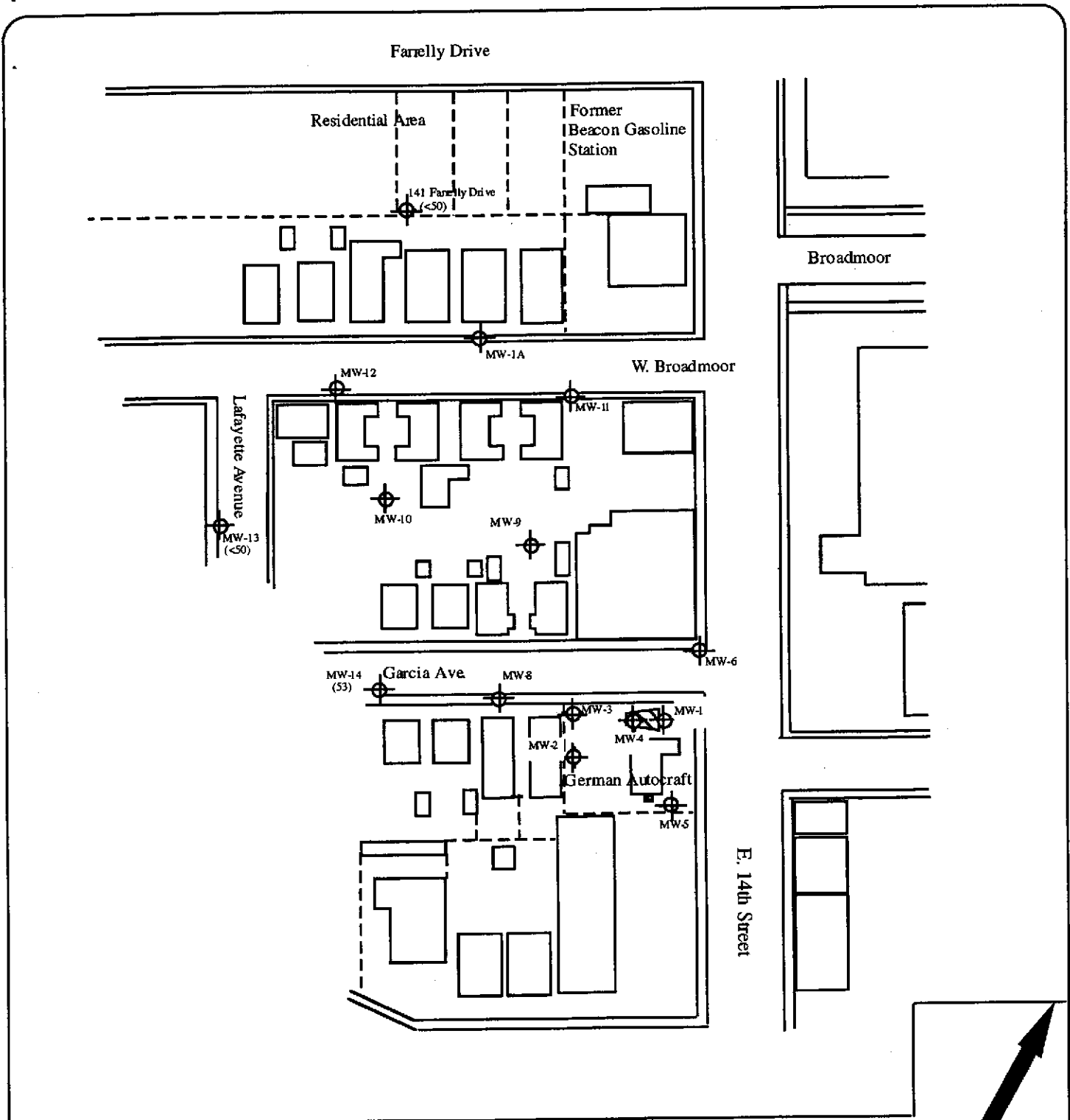


ENVIRONMENTAL TESTING
1792 ROGERS AVENUE
SAN JOSE, CA 95112

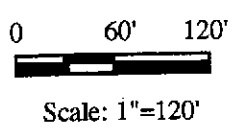
Groundwater Potentiometric Elevation Map (12/21/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 1/03



EXPLANATION:



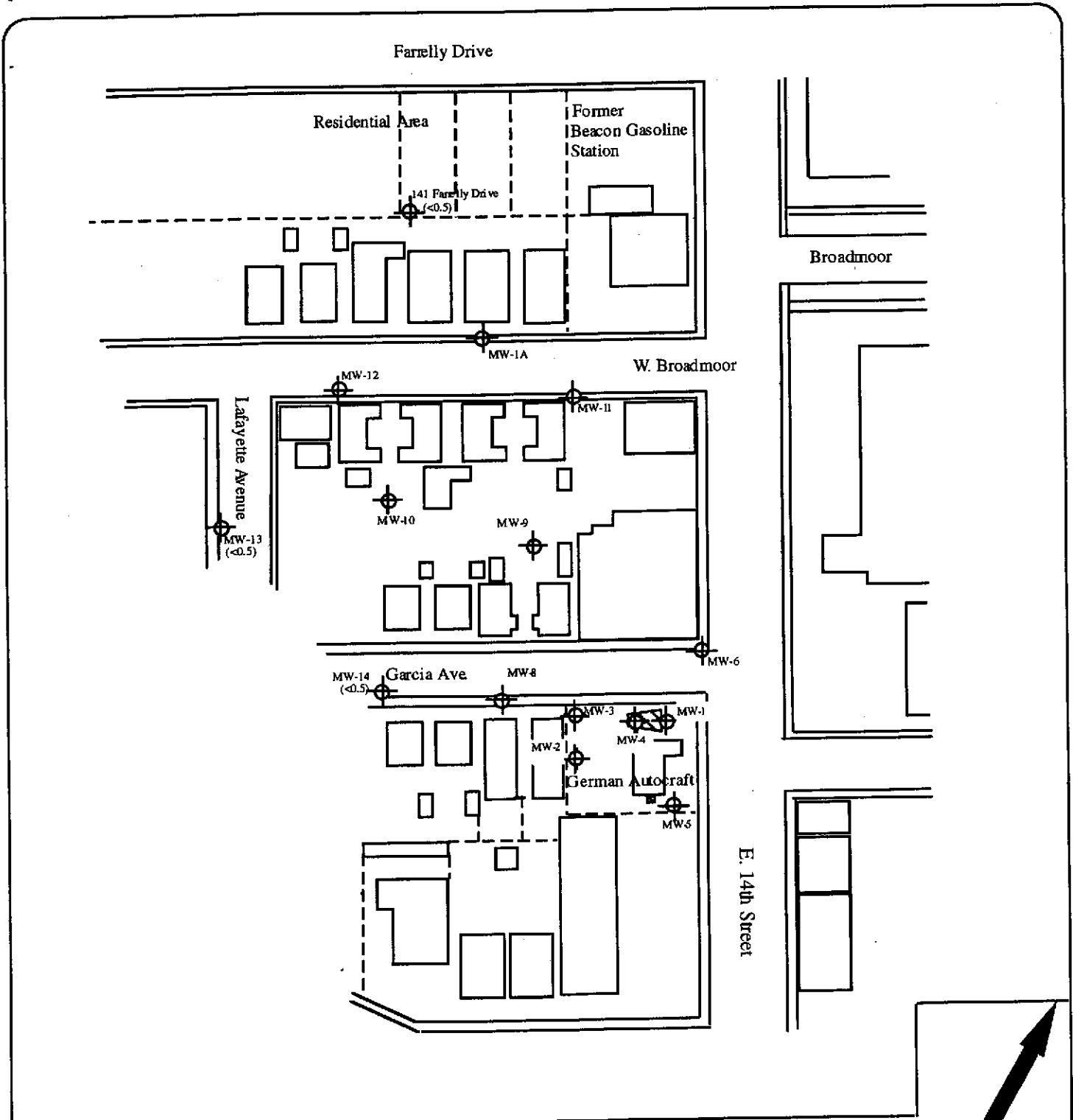
- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings
- (53) Groundwater TPHg Concentration (ug/L)

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

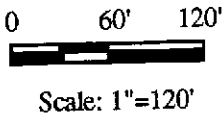
VICINITY MAP WITH GROUNDWATER
 TPHg CONCENTRATIONS (12/21/02)
 German Autocraft
 301 East 14th Street
 San Leandro, California

Figure 4

Date: 1/03



EXPLANATION:



- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings
- (<math><0.5</math>) 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 (12/21/02)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5
Date: 1/03

Figure 6a: Time Trend Plots for MW-1

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

Note: Values may represent the average of method detection limit and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/31/90	51,000	2,200	4.70757	3.342423
1/6/95	110,000	13,000	5.041393	4.113943
1/6/95	580,000	29,000	5.763428	4.462398
7/6/95	49,000	8,000	4.690196	3.90309
7/6/95	47,000	4,800	4.672098	3.681241
10/2/95	120,000	16,000	5.079181	4.20412
10/2/95	160,000	20,000	5.20412	4.30103
1/12/96	1,100,000	11,000	6.041393	4.041393
1/12/96	98,000	2,100	4.991226	3.322219
4/13/96	53,000	1,300	4.724276	3.113943
4/13/96	58,000	820	4.763428	2.913814
7/26/96	91,000	2,900	4.959041	3.462398
7/26/96	67,000	2,300	4.826075	3.361728
10/21/96	210,000	4,800	5.322219	3.681241
10/21/96	210,000	5,400	5.322219	3.732394
1/28/97	120,000	5,600	5.079181	3.748188
1/28/97	130,000	5,500	5.113943	3.740363
4/25/97	180,000	6,900	5.255273	3.838849
4/25/97	170,000	6,500	5.230449	3.812913
7/17/97	220,000	8,300	5.342423	3.919078
10/21/97	240,000	9,400	5.380211	3.973128
3/10/98	120,000	11,000	5.079181	4.041393
6/6/98	110,000	7,600	5.041393	3.880814
9/30/98	140,000	5,800	5.146128	3.763428
12/30/98	78,000	5,200	4.892095	3.716003
3/23/99	250,000	8,000	5.39794	3.90309
9/29/99	140,000	6,100	5.146128	3.78533
3/18/00	120,000	5,100	5.079181	3.70757
3/20/01	120,000	3,600	5.079181	3.556303
3/28/02	100,000	2,800	5	3.447158

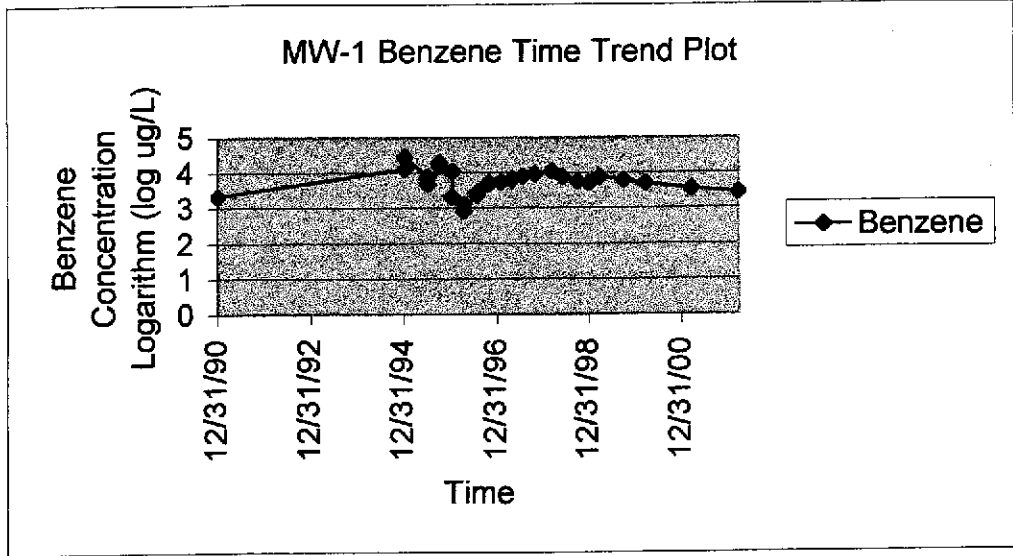
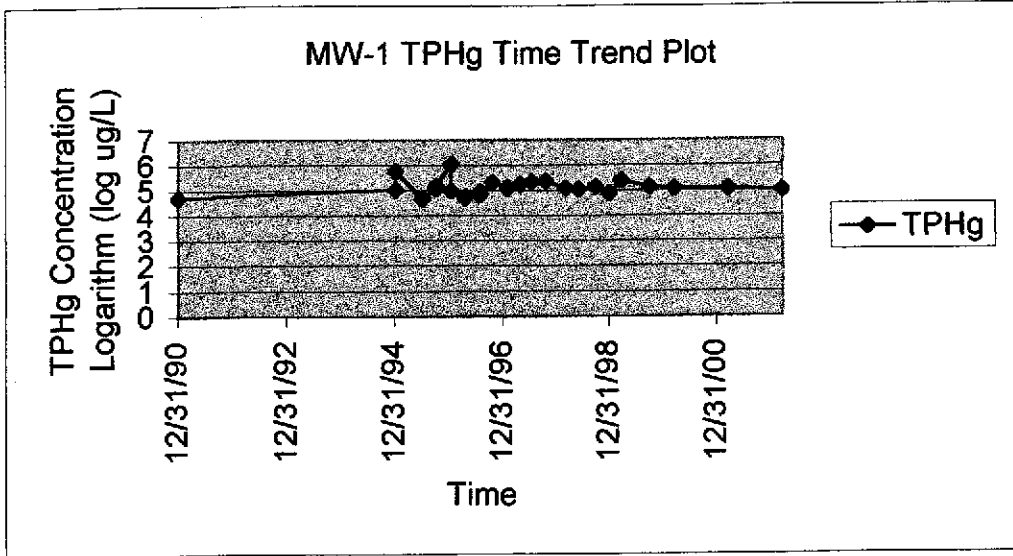


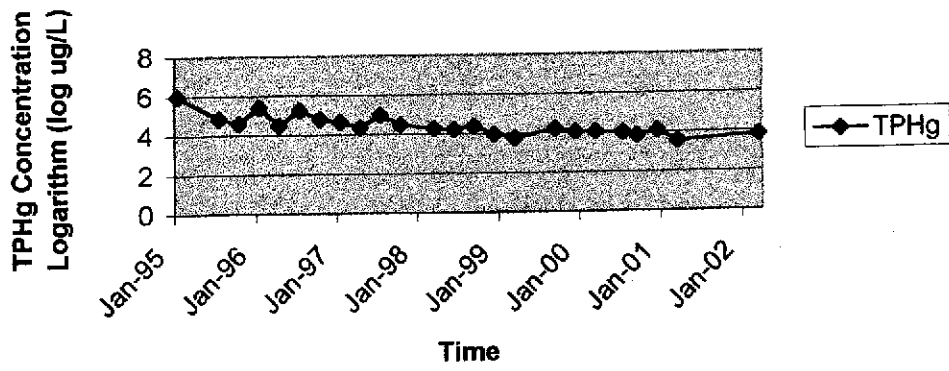
Figure 6b: Time Trend Plots for MW-2

German Autocraft - 301 E. 14th Steet, San Leandro, CA

Note: Values may represent the average of method detection limit and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
1/6/95	980,000	9,400	5.991226	3.973128
7/6/95	71,000	5,300	4.851258	3.724276
10/2/95	40,000	2,900	4.60206	3.462398
1/12/96	260,000	2,600	5.414973	3.414973
4/13/96	30,000	1,900	4.477121	3.278754
7/26/96	180,000	1,400	5.255273	3.146128
10/21/96	62,000	2,100	4.792392	3.322219
1/28/97	46,000	1,500	4.662758	3.176091
4/25/97	23,000	790	4.361728	2.897627
7/17/97	95,000	2,200	4.977724	3.342423
10/21/97	31,000	2,000	4.491362	3.30103
3/10/98	19,000	730	4.278754	2.863323
6/6/98	16,000	670	4.20412	2.826075
9/30/98	24,000	600	4.380211	2.778151
12/30/98	9,300	510	3.968483	2.70757
3/23/99	5,700	580	3.755875	2.763428
9/29/99	17,000	880	4.230449	2.944483
12/29/99	11,000	800	4.041393	2.90309
3/18/00	11,000	790	4.041393	2.897627
7/18/00	10,000	560	4	2.748188
9/26/00	6,800	450	3.832509	2.653213
12/28/00	12,000	540	4.079181	2.732394
3/20/01	3,500	230	3.544068	2.361728
3/28/02	7,000	570	3.845098	2.755875

MW-2 TPHg Time Trend Plot



MW-2 Benzene Time Trend Plot

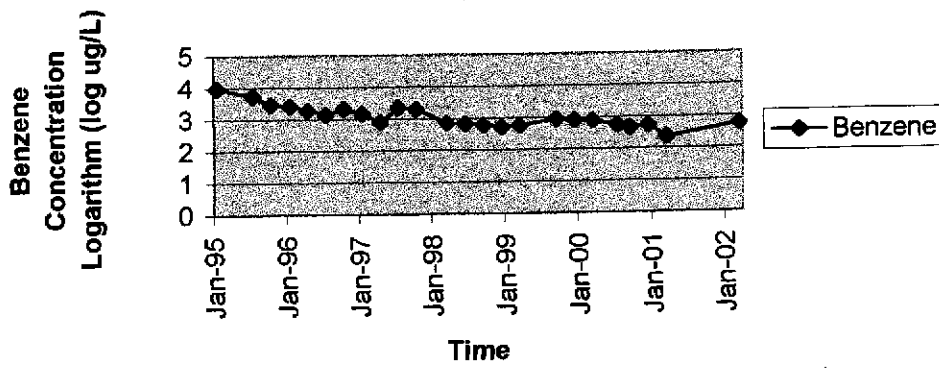


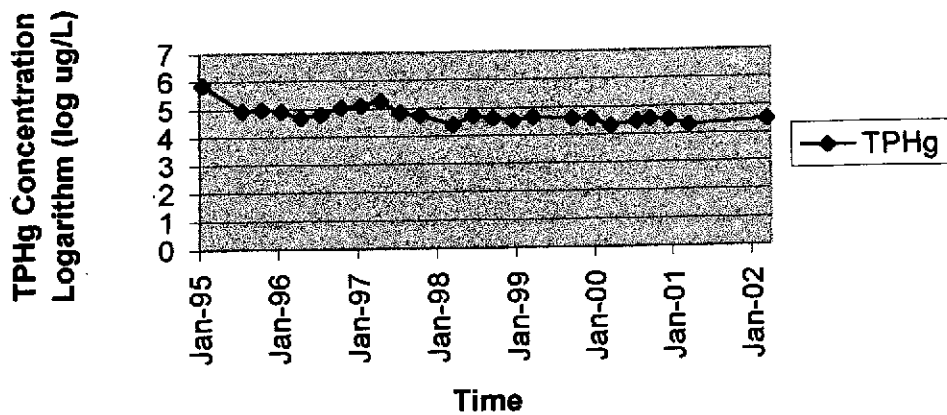
Figure 6c: Time Trend Plots for MW-3

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

Note: Values may represent the average of method detection limit and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
1/6/95	740,000	11,000	5.869232	4.041393
7/6/95	86,000	12,000	4.934498	4.079181
10/2/95	100,000	15,000	5	4.176091
1/12/96	84,000	6,500	4.924279	3.812913
4/13/96	48,000	7,600	4.681241	3.880814
7/26/96	62,000	6,400	4.792392	3.80618
10/21/96	110,000	5,400	5.041393	3.732394
1/28/97	130,000	5,500	5.113943	3.740363
4/25/97	180,000	6,900	5.255273	3.838849
7/17/97	69,000	5,100	4.838849	3.70757
10/21/97	58,000	4,300	4.763428	3.633468
3/10/98	25,000	3,000	4.39794	3.477121
6/6/98	52,000	4,400	4.716003	3.643453
9/30/98	42,000	4,300	4.623249	3.633468
12/30/98	34,000	4,200	4.531479	3.623249
3/23/99	44,000	3,500	4.643453	3.544068
9/29/99	39,000	6,000	4.591065	3.778151
12/29/99	39,000	4,600	4.591065	3.662758
3/18/00	21,000	3,100	4.322219	3.491362
7/18/00	30,000	5,000	4.477121	3.69897
9/26/00	36,000	5,300	4.556303	3.724276
12/28/00	33,000	4,700	4.518514	3.672098
3/20/01	21,000	2,000	4.322219	3.30103
3/28/02	31,000	4,400	4.491362	3.643453

MW-3 TPHg Time Trend Plot



MW-3 Benzene Time Trend Plot

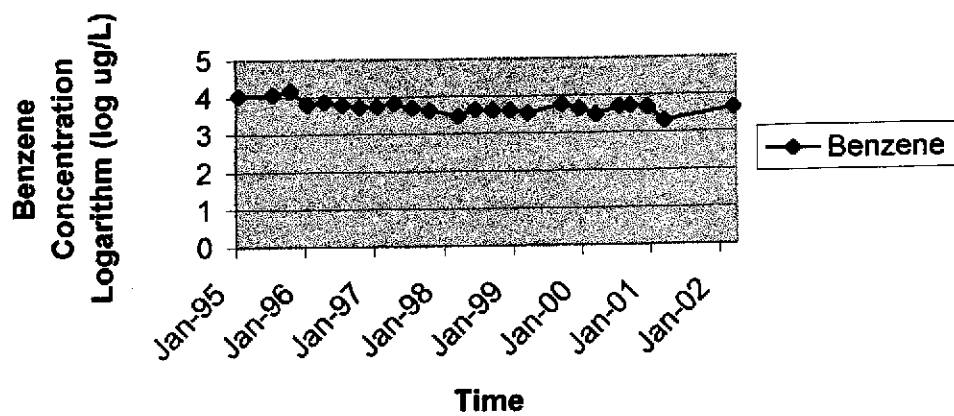


Figure 6d: Time Trend Plots for MW-4

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	12,000	1,200	4.079181	3.079181
3/23/99	89,000	5,900	4.94939	3.770852
9/29/99	48,000	5,300	4.681241	3.724276
3/18/00	44,000	4,500	4.643453	3.653213
3/20/01	10,000	700	4	2.845098
3/28/02	30,000	3,700	4.477121	3.568202

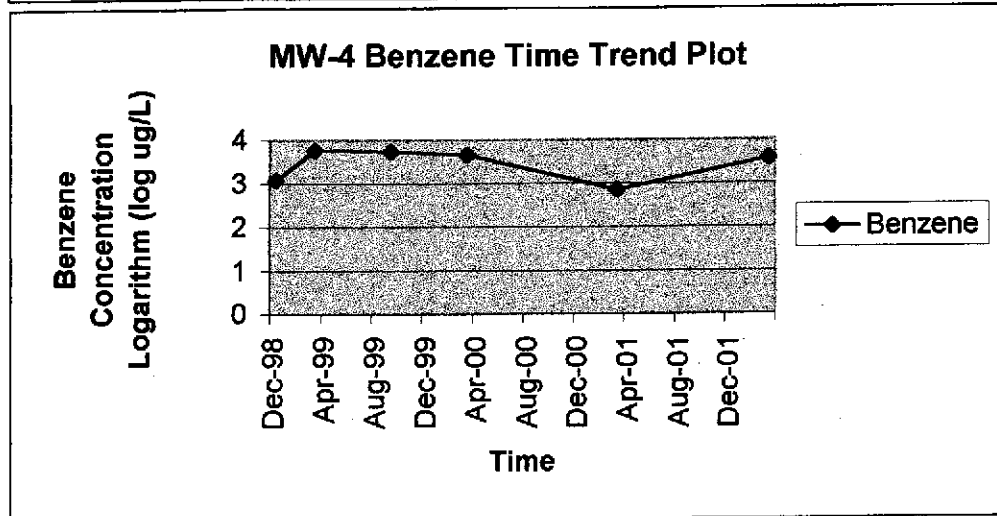
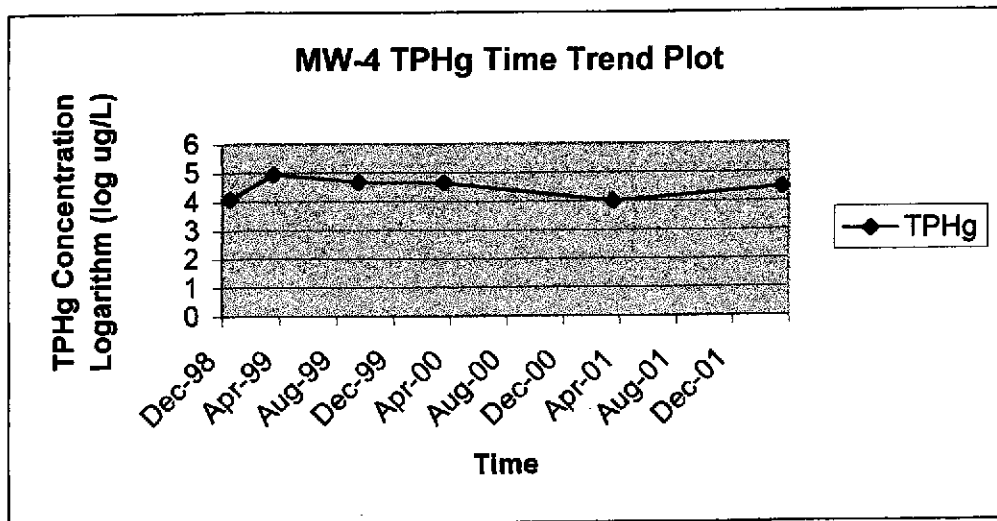


Figure 6e: Time Trend Plots for MW-5

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	170	1.1	2.230449	0.041393
3/22/99	470	3.8	2.672098	0.579784
9/29/99	1,200	13	3.079181	1.113943
3/18/00	660	5.5	2.819544	0.740363

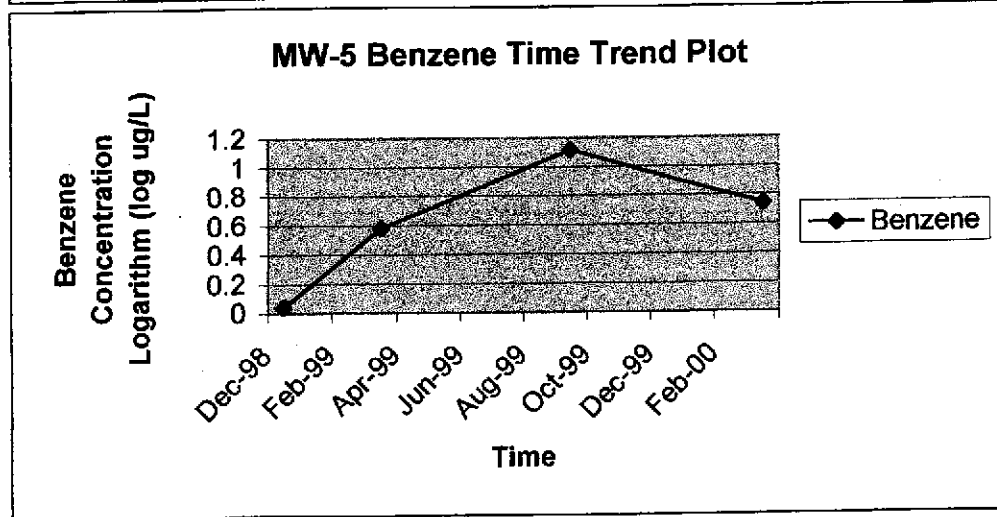
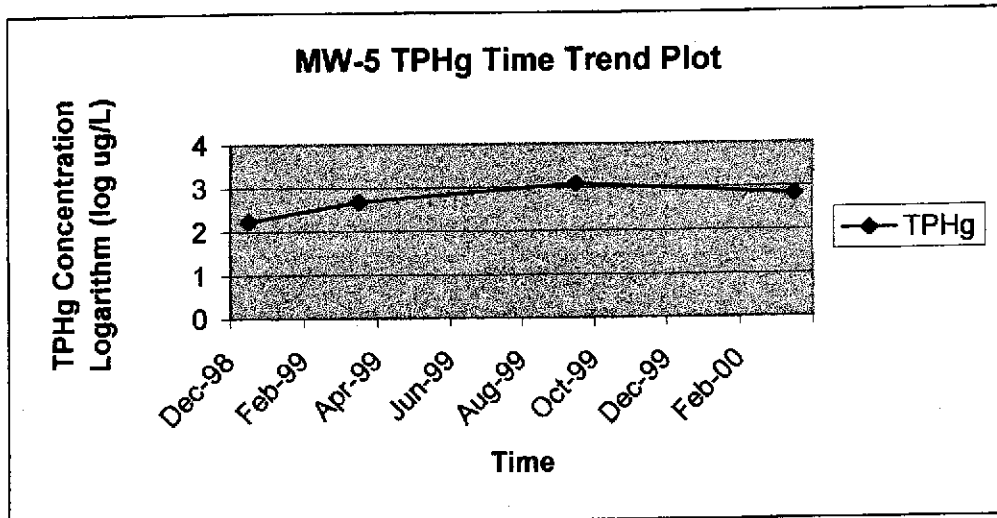


Figure 6f: Time Trend Plots for MW-6

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	400	1	2.60206	0
3/22/99	390	0.25	2.591065	-0.60206
9/30/99	330	1.8	2.518514	0.255273
3/18/00	200	1.3	2.30103	0.113943
9/26/00	240	1.5	2.380211	0.176091
3/20/01	160	0.25	2.20412	-0.60206
3/28/02	88	0.89	1.944483	-0.05061

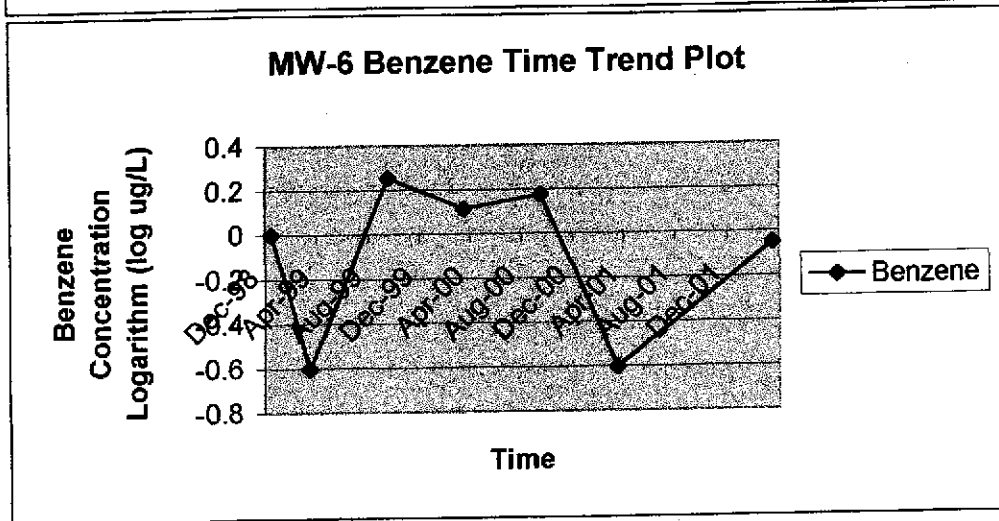
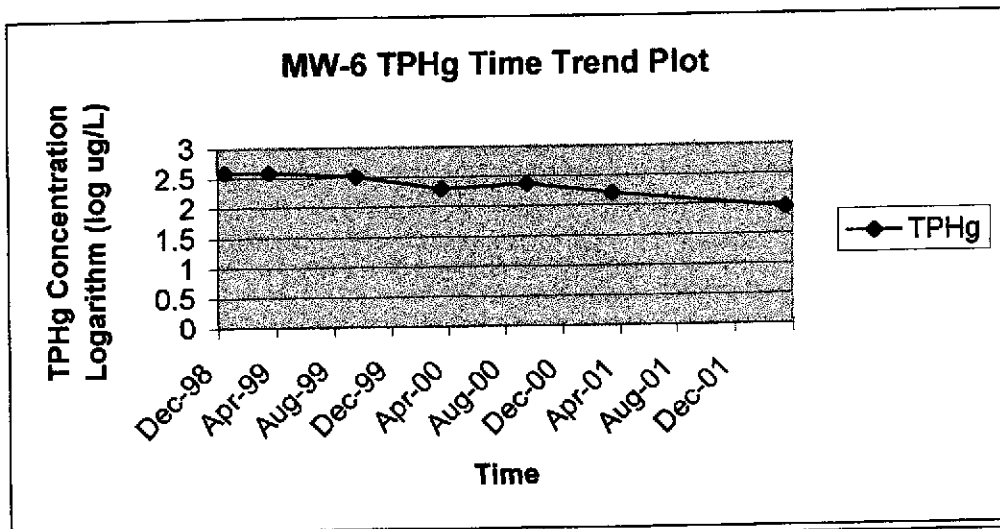


Figure 6g: Time Trend Plots for MW-8

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	2,200	70	3.342423	1.845098
3/23/99	2,300	34	3.361728	1.531479
9/30/99	8,800	140	3.944483	2.146128
12/29/99	1,900	64	3.278754	1.80618
3/18/00	1,400	36	3.146128	1.556303
7/18/00	3,000	67	3.477121	1.826075
9/26/00	1,200	24	3.079181	1.380211
12/28/00	1,200	47	3.079181	1.672098
3/20/01	1,300	7.8	3.113943	0.892095
10/15/01	1,800	28	3.255273	1.447158
3/28/02	1,100	12	3.041393	1.079181
9/30/02	1,400	15	3.146128	1.176091

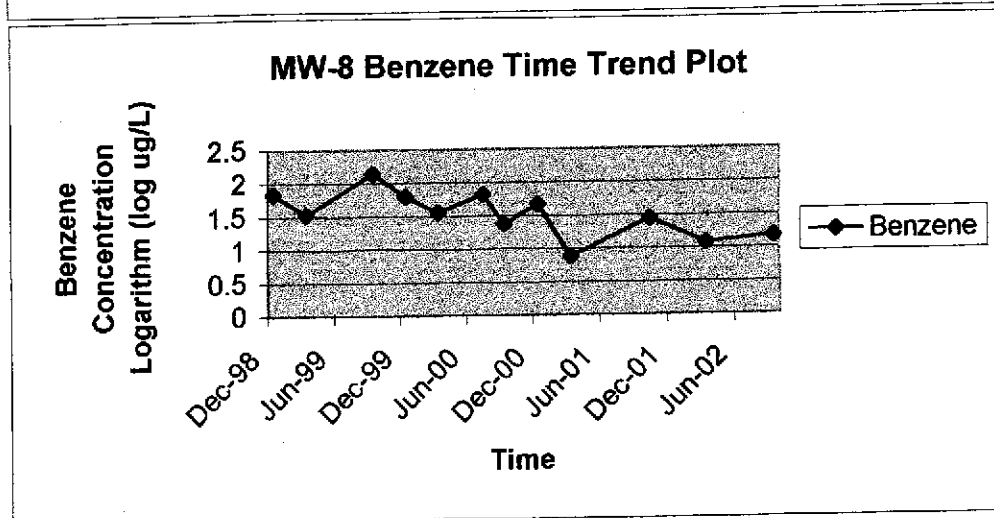
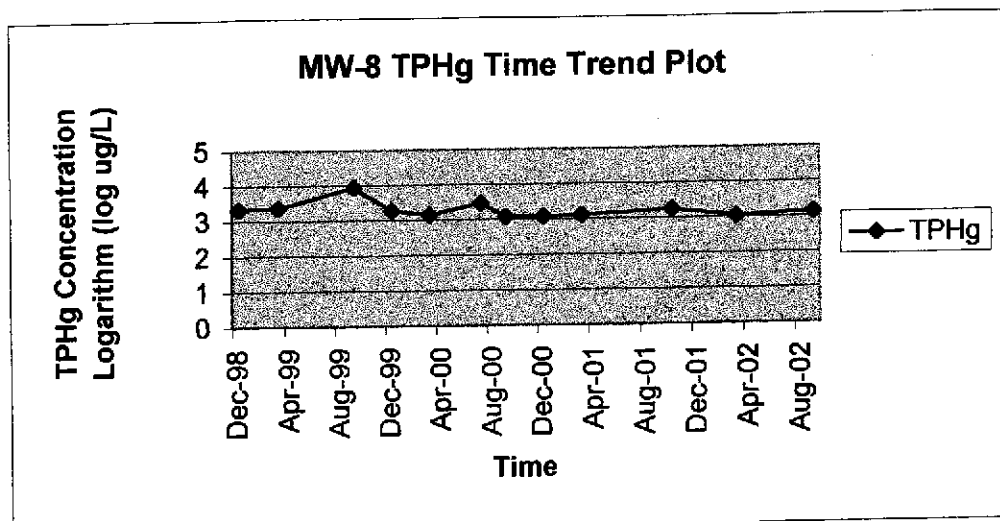


Figure 6h: Time Trend Plots for MW-9

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	25,000	23	4.39794	1.361728
3/23/99	27,000	35	4.431364	1.544068
9/30/99	42,000	140	4.623249	2.146128
12/29/99	1,100,000	1,200	6.041393	3.079181
3/18/00	17,000	89	4.230449	1.94939
7/18/00	12,000	39	4.079181	1.591065
9/26/00	11,000	19	4.041393	1.278754
12/28/00	22,000	100	4.342423	2
3/20/01	8,200	40	3.913814	1.60206
10/5/01	77,000	50	4.886491	1.69897
3/28/02	11,000	34	4.041393	1.531479
9/30/02	34,000	62.5	4.531479	1.79588

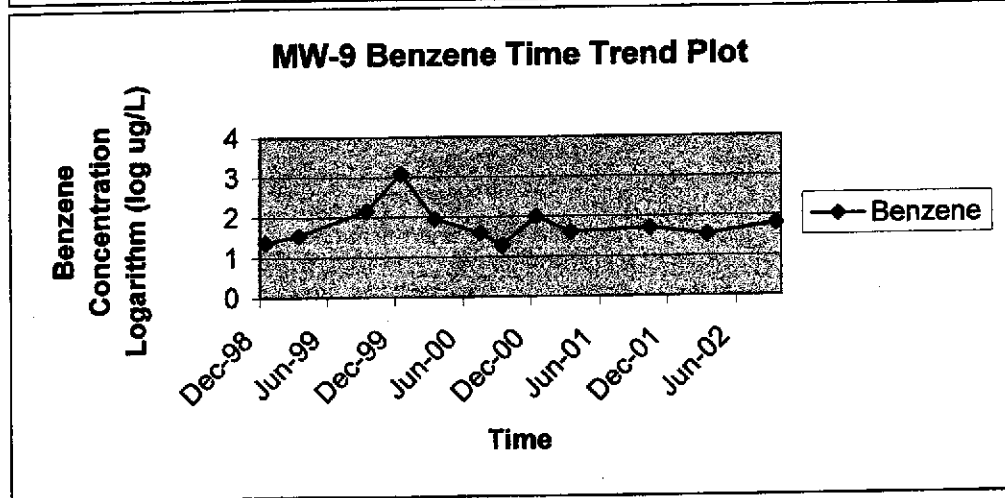
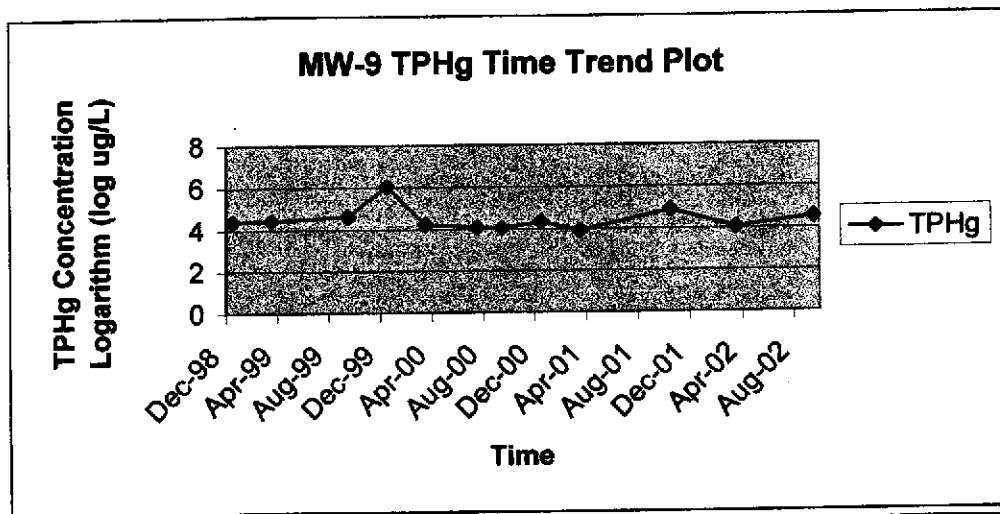


Figure 6i: Time Trend Plots for MW-10

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	6,900	130	3.838849	2.113943
3/23/99	6,600	150	3.819544	2.176091
9/30/99	9,300	60	3.968483	1.778151
12/29/99	5,800	87	3.763428	1.939519
3/18/00	3,800	180	3.579784	2.255273
7/18/00	9,100	120	3.959041	2.079181
9/26/00	4,500	22	3.653213	1.342423
12/28/00	3,900	55	3.591065	1.740363
3/20/01	4,500	48	3.653213	1.681241
10/5/01	5,200	70	3.716003	1.845098
2/28/02	7,400	45	3.869232	1.653213
9/30/02	670	54	2.826075	1.732394

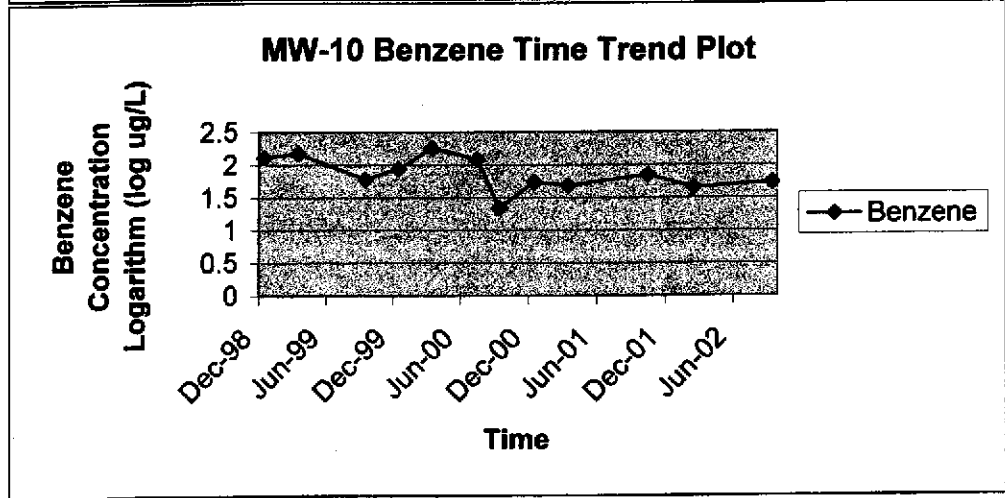
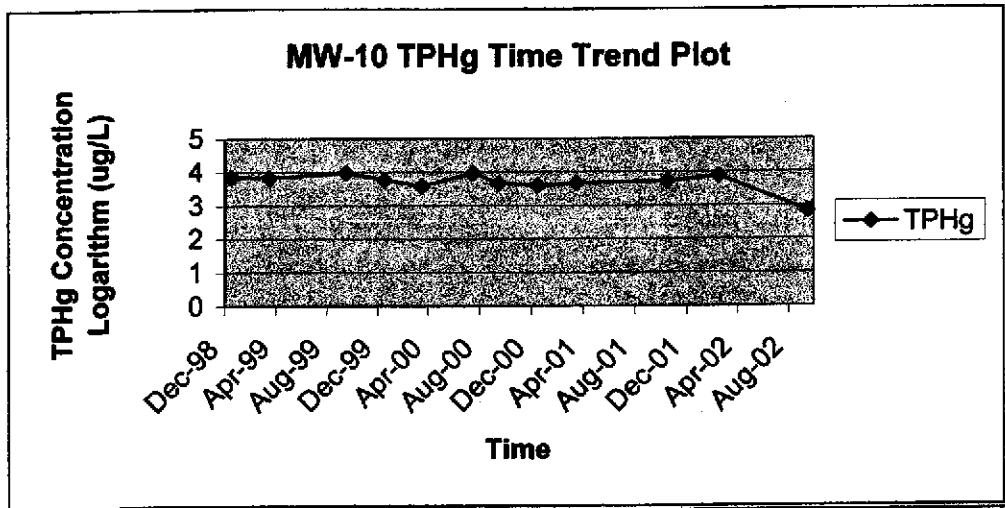


Figure 6j: Time Trend Plots for MW-11

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
12/30/98	80	0.25	1.90309	-0.60206
3/23/99	25	0.25	1.39794	-0.60206
9/30/99	94	0.25	1.973128	-0.60206
3/18/00	25	0.25	1.39794	-0.60206
9/26/00	25	0.25	1.39794	-0.60206
3/20/01	25	0.25	1.39794	-0.60206
3/28/02	25	0.25	1.39794	-0.60206

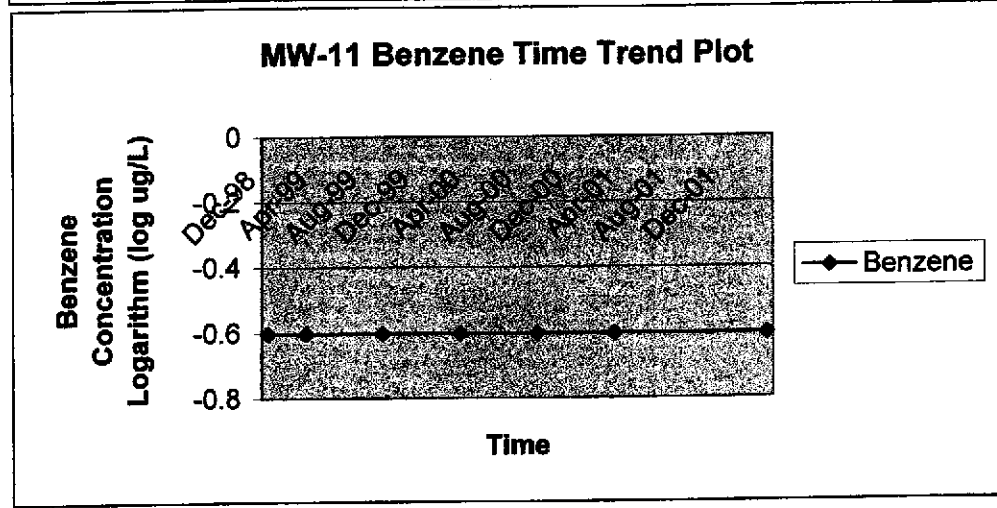
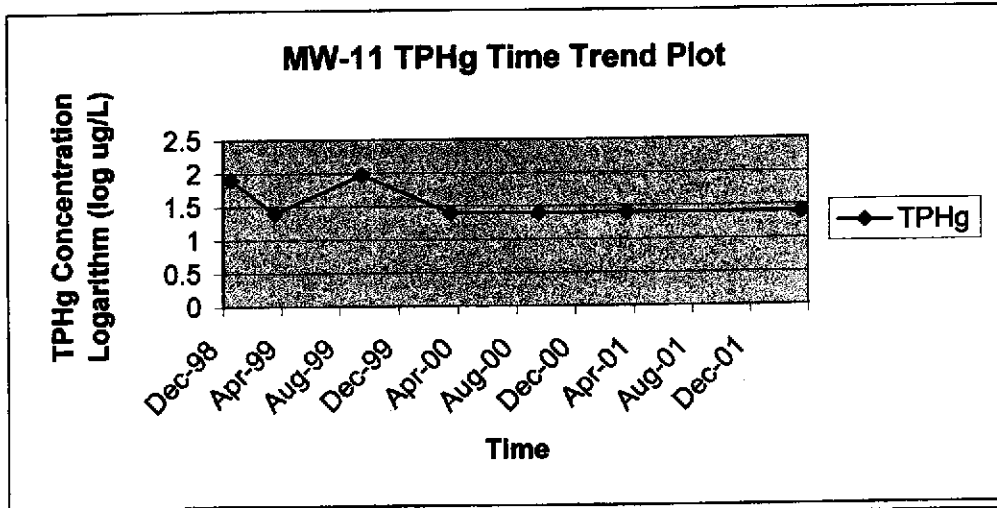


Figure 6k: Time Trend Plots for MW-12

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	4,100	28	3.612784	1.447158
6/29/01	4,200	26	3.623249	1.414973
12/21/01	5,300	9.7	3.724276	0.986772
3/28/02	4,900	20	3.690196	1.30103
6/28/02	2,600	29	3.414973	1.462398
9/30/02	700	16	2.845098	1.20412

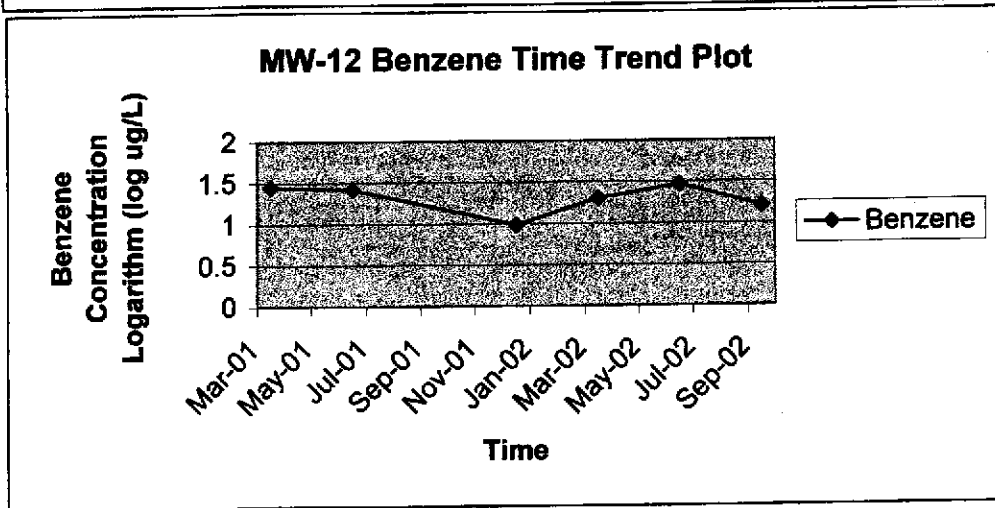
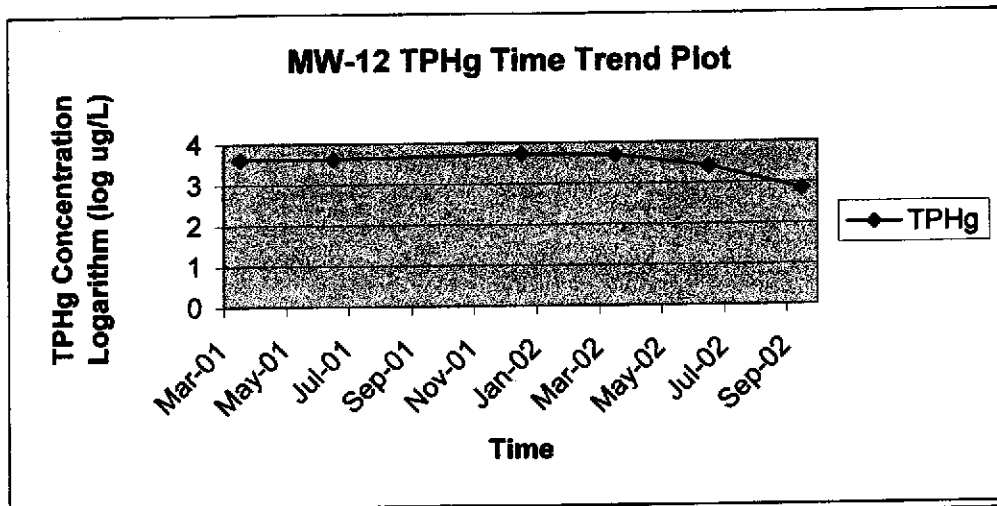


Figure 71: Time Trend Plots for MW-13

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	25	0.25	1.39794	-0.60206
6/29/01	25	0.25	1.39794	-0.60206
10/5/01	25	0.25	1.39794	-0.60206
12/21/01	25	0.25	1.39794	-0.60206
3/28/02	25	0.25	1.39794	-0.60206
6/28/02	25	0.25	1.39794	-0.60206
9/30/02	25	0.25	1.39794	-0.60206
12/21/02	25	0.25	1.39794	-0.60206

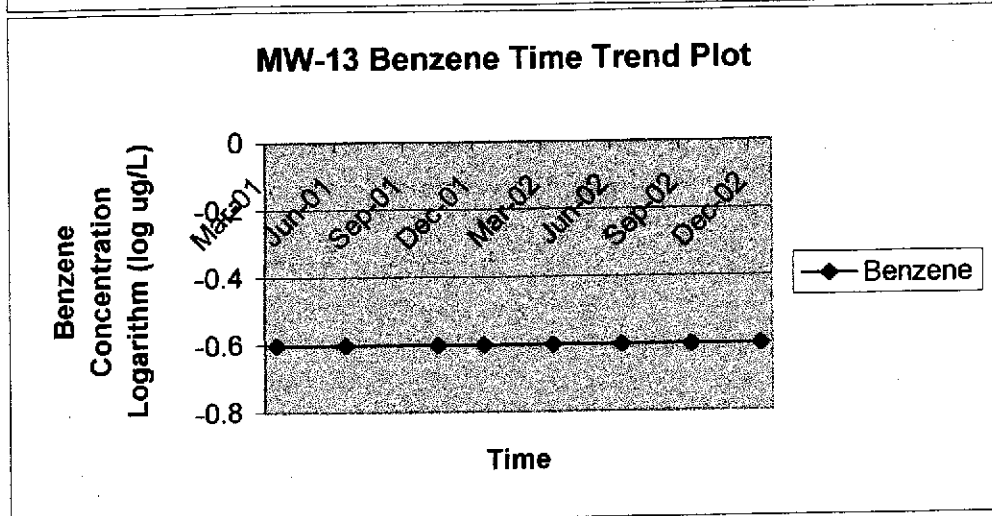
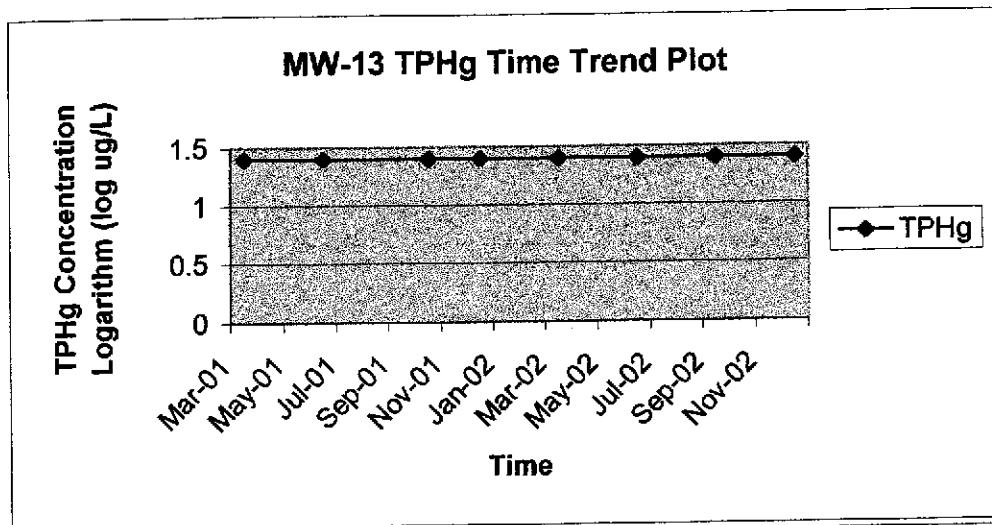


Figure 7m: Time Trend Plots for MW-14

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
3/20/01	200	0.25	2.30103	-0.60206
6/29/01	660	0.25	2.819544	-0.60206
10/5/01	770	1.7	2.886491	0.230449
12/21/01	1,500	3.1	3.176091	0.491362
3/28/02	390	1.7	2.591065	0.230449
6/28/02	120	0.25	2.079181	-0.60206
9/30/02	210	0.25	2.322219	-0.60206
12/21/02	53	0.25	1.724276	-0.60206

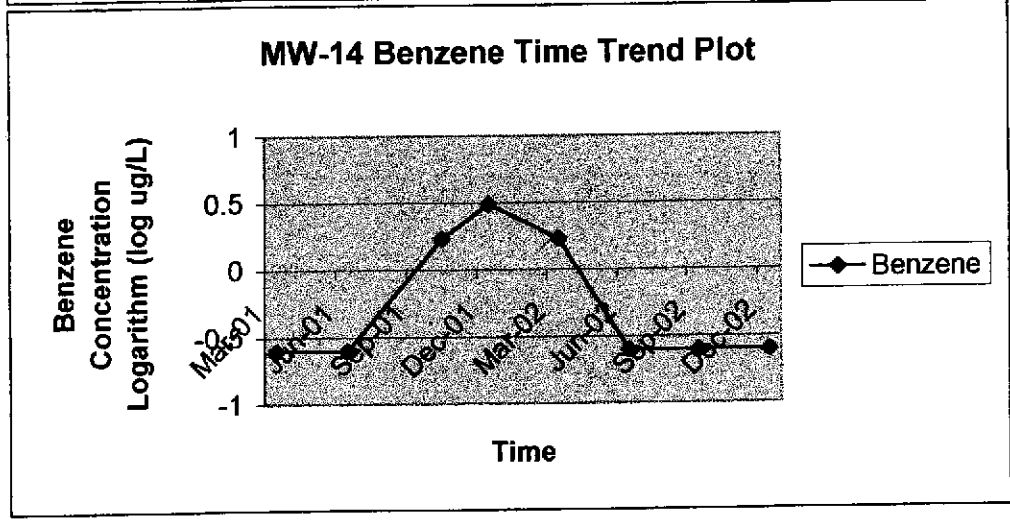
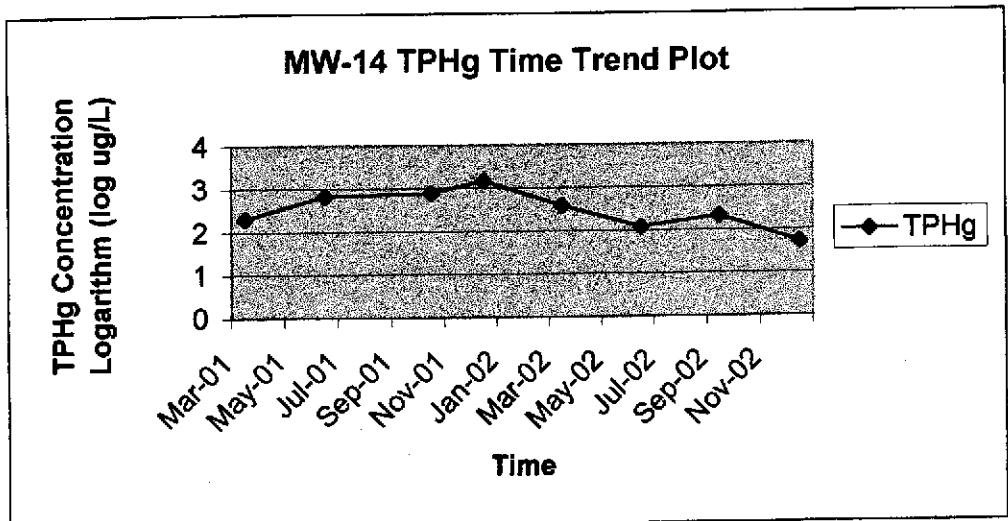


Figure 7n: Time Trend Plots for MW-1A

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

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
5/30/97	12,000	18	4.079181	1.255273
12/30/98	51	0.25	1.70757	-0.60206
3/23/99	1,800	4	3.255273	0.60206
3/23/99	2,200	10	3.342423	1
9/30/99	13,000	63	4.113943	1.799341
3/8/00	6,100	36	3.78533	1.556303
9/26/00	11,000	14	4.041393	1.146128
3/20/01	4,800	30	3.681241	1.477121
10/5/01	15,000	76	4.176091	1.880814
3/28/02	9,300	35	3.968483	1.544068
9/30/02	23,000	25	4.361728	1.39794

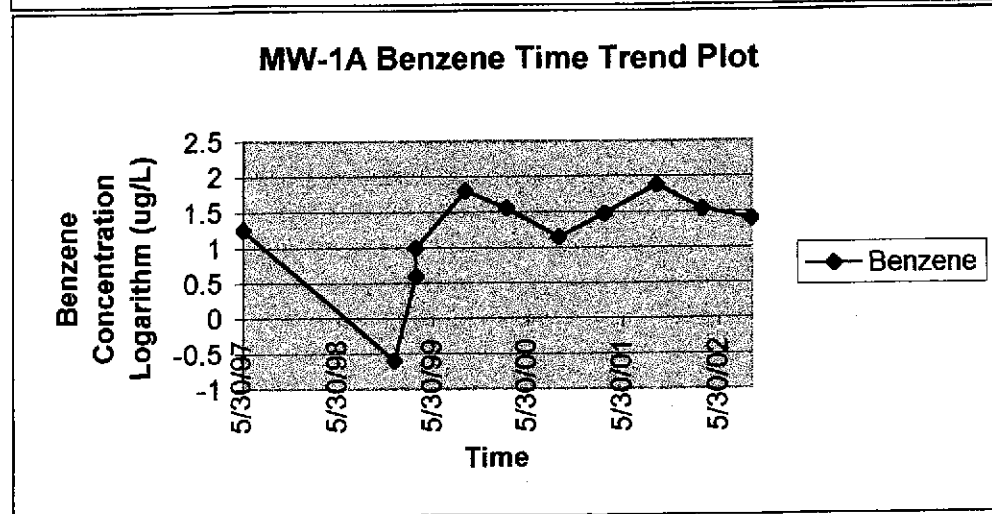
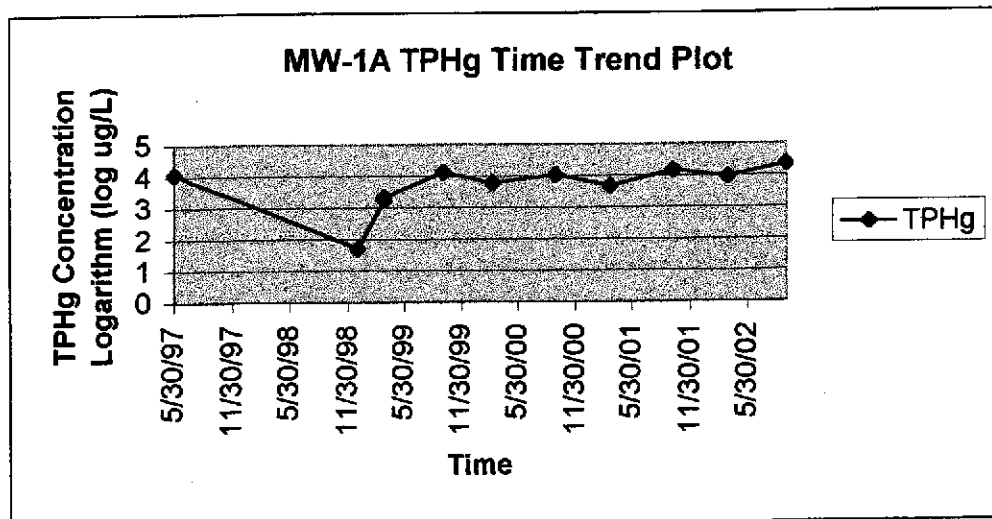
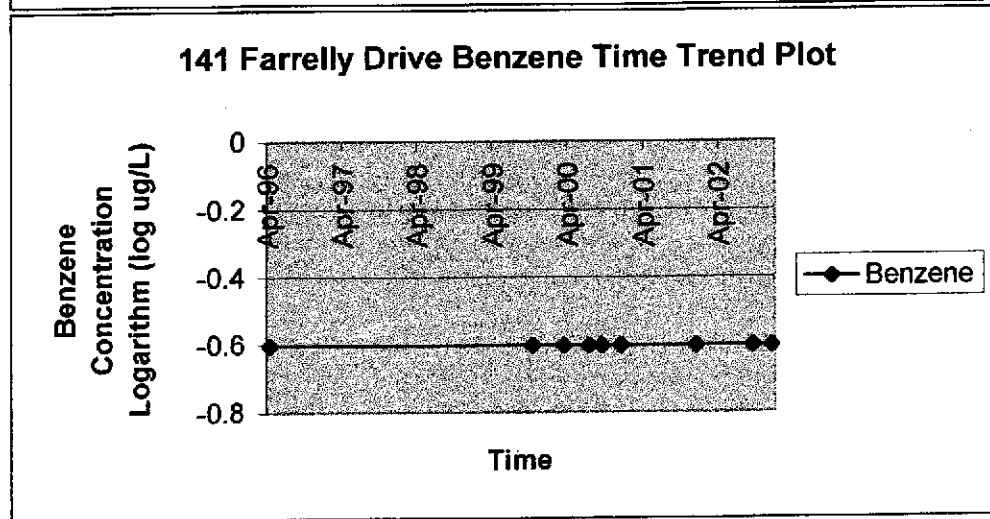
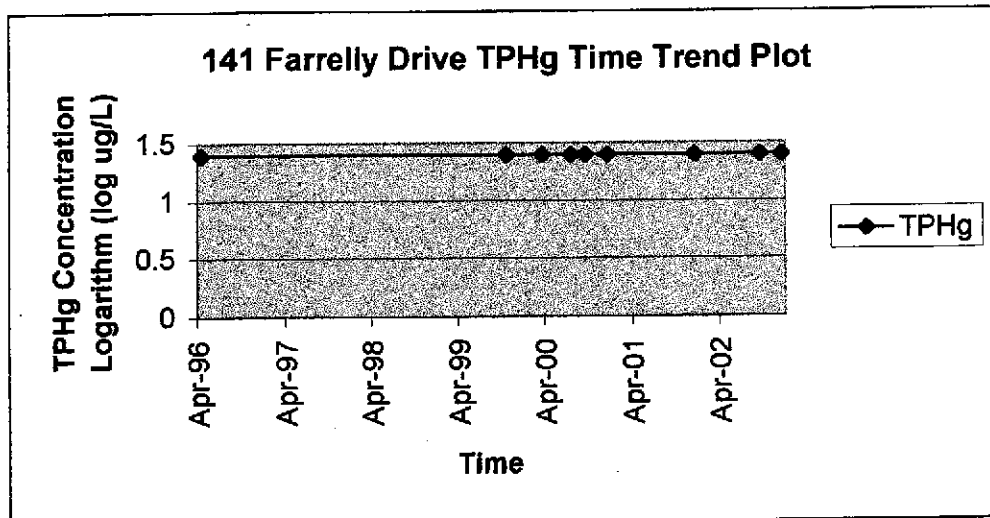


Figure 7o: Time Trend Plots for 141 Farrelly
 German Autocraft - 301 14th Street, San Leandro, CA

Note: Values may represent the average of method detection limits and zero for non-detected results.

Date	TPHg	Benzene	logTPHg	logBenzene
4/6/96	25	0.25	1.39794	-0.60206
10/2/99	25	0.25	1.39794	-0.60206
3/18/00	25	0.25	1.39794	-0.60206
7/13/00	25	0.25	1.39794	-0.60206
9/26/00	25	0.25	1.39794	-0.60206
12/29/00	25	0.25	1.39794	-0.60206
12/21/01	25	0.25	1.39794	-0.60206
9/30/02	25	0.25	1.39794	-0.60206
12/21/02	25	0.25	1.39794	-0.60206



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

December 31, 2002

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

Order: 32719

Date Collected: 12/21/2002

Project Name: GA

Date Received: 12/26/2002

Project Number:

P.O. Number: GA

Project Notes:

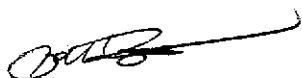
On December 26, 2002, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	Gas/BTEX	EPA 8015 MOD. (Purgeable)
		EPA 8020
		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: 12/31/02
 Date Received: 12/26/2002
 Project Name: GA
 Project Number:
 P.O. Number: GA
 Sampled By: Tom Price


Certified Analytical Report

Order ID: 32719 Lab Sample ID: 32719-001 Client Sample ID: 141 Farrelly
 Sample Time: 10:15 AM Sample Date: 12/21/2002 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	12/27/2002	WGC42704	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							97.1		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	12/27/2002	WGC42704	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							90.3		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: 12/31/02
 Date Received: 12/26/2002
 Project Name: GA
 Project Number:
 P.O. Number: GA
 Sampled By: Tom Price

Certified Analytical Report

Order ID: 32719

Lab Sample ID: 32719-002

Client Sample ID: MW-13

Sample Time: 9:50 AM

Sample Date: 12/21/2002

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	12/27/2002	WGC42704	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							97.8		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	12/27/2002	WGC42704	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							91.8		65 - 135	

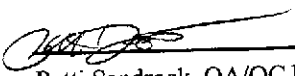
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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: 12/31/02
 Date Received: 12/26/2002
 Project Name: GA
 Project Number:
 P.O. Number: GA
 Sampled By: Tom Price

Certified Analytical Report

Order ID: 32719

Lab Sample ID: 32719-003

Client Sample ID: MW-14

Sample Time: 10:50 AM

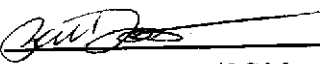
Sample Date: 12/21/2002

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	12/27/2002	WGC42704	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	12/27/2002	WGC42704	EPA 8020
Surrogate						Surrogate Recovery			Control Limits (%)	
4-Bromofluorobenzene						83.5			65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	53		1	50	50	µg/L	N/A	12/27/2002	WGC42704	EPA 8015 MOD. (Purgeable)
Surrogate						Surrogate Recovery			Control Limits (%)	
4-Bromofluorobenzene						84.3			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 #: WGC42704
Matrix: Liquid

Units: µg/L
Date Analyzed: 12/27/2002

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				250		255	LCS	102.0			65.0 - 135.0
TPH as Gasoline	EPA 8015 M	ND									
Surrogate			Surrogate Recovery		Control Limits (%)						
	4-Bromofluorobenzene			78.0		65 - 135					
Test: BTEX											65.0 - 135.0
Benzene	EPA 8020	ND		8		8.68	LCS	108.5			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.81	LCS	110.1			65.0 - 135.0
Toluene	EPA 8020	ND		8		8.26	LCS	103.3			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			103.3		65 - 135					
Test: TPH as Gasoline				250		244	LCSD	97.6	4.41	25.00	65.0 - 135.0
TPH as Gasoline	EPA 8015 M	ND									
Surrogate			Surrogate Recovery		Control Limits (%)						
	4-Bromofluorobenzene			86.8		65 - 135					
Test: BTEX											65.0 - 135.0
Benzene	EPA 8020	ND		8		8.16	LCSD	102.0	6.18	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		8		8.19	LCSD	102.4	7.29	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		8		7.72	LCSD	96.5	6.76	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		24		24.6	LCSD	102.5	7.81	25.00	65.0 - 135.0
Surrogate			Surrogate Recovery		Control Limits (%)						
	4-Bromofluorobenzene			97.8		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: <i>Tom Price</i>	Phone No.: <i>(408) 453-1800</i>	Purchase Order No.: <i>GA</i>	Send Invoice to (if Different)	Phone
Company Name: <i>Environmental Testing</i>	Fax No.: <i>(408) 453-1801</i>	Project Number:	Company	
Mailing Address: <i>1792 Rogers Avenue</i>	Project Name:	Billing Address (if Different)		
City: <i>San Jose</i>	State: <i>CA</i>	Zip: <i>95110</i>	Project Location: <i>GA</i>	City: State Zip

Sampler: <i>Tom Price</i>		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"/>	
Date: <i>12/21/02</i>		Order ID:		Sampling		Matrix		Composite		Grab		Containers	
Client ID	Laboratory No.	Date	Time										Preservative
<i>141 Farrelly</i>	<i>32719-001</i>	<i>12/21/02</i>	<i>1015</i>										<input checked="" type="checkbox"/>
<i>MW-13</i>	<i>002</i>	<i>↓</i>	<i>950</i>										<input checked="" type="checkbox"/>
<i>MW-14</i>	<i>003</i>	<i>↓</i>	<i>1050</i>										<input checked="" type="checkbox"/>

- Volatile Organics by GC/MS: From 173
- Fuel Organics by GC/MS: From 8240
- MTBE by 8240
- Pesticides-8021
- Herbicides or Aromatic Volatiles: 80180110
- PCBs - 8022
- TPH as Gas/STEX
- TPH as Gas/STEX/8022
- Base Neutral/acid Organics: 8270
- Fuel Scan
- Diesel
- w/ Slope Standard Cleanup
- w/ Slope Column Cleanup
- TPH
- Oil & Grease
- THM (802-2)
- Metals - Circle Below
- Total
- Dissolved

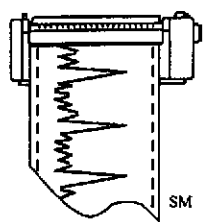
Relinquished by: <i>Tom Price</i>	Received by: <i>[Signature]</i>	Date: <i>12/21/02</i>	Time: <i>13:40</i>
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:

Special Instructions or Comments NPDES Detection Limits

samples collected 12/21/02 12/21/02
please run samples within holding time

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, Ti, Sn, Tl, V, Zn, W: CAM-17 Plating PPM-13 LUFT-5

Time
1015 AM. 141 Farrelly 20.07 win



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

MW-12 car parked
on well, owner
unknown.

Date: 12/21/02 Project Name: GA
Project No.: _____ Well No./Description: MW-13
Depth of Well: 37.3 1 Well Volume: 2.5

Depth to Water: 21.52 3 Well Volumes: _____
Casing Diameter: 2" 4" Actual Volume Purged: 7.5 gallons

Calculations:
2" - * 0.1632
4" - * 0.653
$$\begin{array}{r} 3.16 \\ \times 1.6 \\ \hline 50.56 \end{array}$$

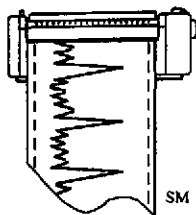
Purge Method: Bailer Displacement Pump Impinger/Vacuum _____
Sample Method: Bailer Other Specify: _____
Sheen: No Yes, Describe _____
Odor: No Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp	EC	Color
<u>940</u>	<u>2.5</u>	<u>7.5</u>	<u>61.1</u>	<u>741</u>	<u>brown</u>
<u>945</u>	<u>5.0</u>	<u>7.0</u>	<u>63.3</u>	<u>523</u>	<u>"</u>
<u>950</u>	<u>7.5</u>	<u>6.9</u>	<u>64.4</u>	<u>524</u>	<u>"</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: Tom Price



ENVIRONMENTAL TESTING

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

Date: 12/21/02

Project Name: GA

Project No.: _____

Well No./Description: MW-14

Depth of Well: 30.25

1 Well Volume: 1.8

Depth to Water: 21.51

3 Well Volumes: _____

Casing Diameter: 2" 4"

Actual Volume Purged: 5.4 gallons

Calculations:

2" - * 0.1632

4" - * 0.653

$$\begin{array}{r} 1.8 \\ \times 3 \\ \hline 5.4 \end{array}$$

Purge Method: Bailer Displacement Pump Impinger/Vacuum _____

Sample Method: Bailer Other Specify: _____

Sheen: No Yes, Describe _____

Odor: No Yes, Describe faint H₂S

Field Measurements:

Time	Volume	pH	Temp.	EC	Color
<u>1040</u>	<u>1.8</u>	<u>7.5</u>	<u>43.6</u>	<u>62.7</u>	<u>brown</u>
<u>1045</u>	<u>3.6</u>	<u>6.9</u>	<u>45.4</u>	<u>63.3</u>	<u>"</u>
<u>1050</u>	<u>5.4</u>	<u>7.0</u>	<u>45.2</u>	<u>62.4</u>	<u>"</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: Tom Price

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.

MISC.

CITY OF SAN LEANDRO

02465

Service No. _____

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

Permit Number
12-19-02

Date Approved

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

Applicant: Name Environmentally Address 1792 Rogers Ave Tel. (408) 953-1800

Owner: Name M.L. Lee Address 301 E. 14th St. San Jose Tel. (408) 638-5473

Emergency: Name _____ Mobile _____ Tel. _____

Purpose of Permit:

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

Detailed Description and Dimensions of Work: _____

Open 3 well boxes gauge wells / collect samples

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

Date Work to be Started: 12/19/02 Date Work to be Completed: 12/31/02

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. 71662, 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: J. Tom Price Signature: [Signature] Date: 12/19/02

PLEASE CALL (510) 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required _____

Pavement Section Required ALL WORK PER CITY GENERAL

Minimum Depth of Cover PROVISIONS

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

PEDESTRIAN SAFETY AND ACCESS SHALL BE MAINTAINED AT ALL TIMES.

SEE REVERSE SIDE FOR GENERAL PROVISIONS
APPLICABLE TO ALL PERMIT WORK

INSPECTION RECORD

Date	Comments	Insp	Hrs. Charged

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

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

[Signature]

FEES

PERMIT FEE: 50 To Acct #3306

RESTORE/INSPECT DEPOSIT: 775 To CN# _____

STREET CUT FEE: _____ To Acct #3304

TOTAL: 775

All charges collected at permit issuance

All charges to be billed to CN# _____

\$500 - Will return after city environmental service has been received. This report

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