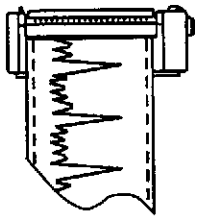
FOURTH QUARTER 1997
QUARTERLY GROUNDWATER MONITORING PROGRAM REPORT

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

Prepared by:



ENVIRONMENTAL TESTING & MGMT.
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Prepared For:

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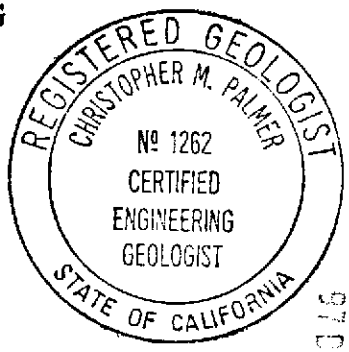
Project Geologist



Report issued December 18, 1997

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ENVIRONMENTAL

I. INTRODUCTION

Following recommendations presented in the Soil and Groundwater Investigation (SWI) Workplan, dated June 7, 1995, Environmental Testing & Management (ETM) continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar fourth quarter of 1997 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 SWI involved an off-site soil and groundwater sampling program which defined the migration limit of the German Autocraft fuel release at approximately 240 feet northwest of the former tank pit in the shallow aquifer. The results of the SWI were presented in a technical report issued by ETM on July 12, 1996. To date, the ACDEH has not issued comment on the SWI report. The quarterly monitoring program is continued to meet the requirements of the ACDEH.

The purpose of this quarterly monitoring program is to evaluate potential impacts from soil contamination on groundwater 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, maintenance of the passive skimmer system in the former tank pit area, and a brief description of the progress of the development of corrective actions at the site.

II. BACKGROUND

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

III. WORK PERFORMED DURING FOURTH QUARTER, 1997

Work included groundwater level gauging and sampling, data analysis, and report preparation. Also during this period, the depression at the former tank location was backfilled. Activity highlights during this period are as follows:

- **October 21, 1997** - ETM measured groundwater elevations and collected groundwater samples from monitoring wells MW-1, MW-2, and MW-3. The samples from MW-1, MW-2, and MW-3 were submitted to a Department of Health Services (DHS)-certified laboratory for analysis of Total Petroleum Hydrocarbons as Gasoline (TPHg), Methyl tert-Butyl Ether (MtBE) and Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX).

- **November 15, 1997** - The depression in the former tank pit location was backfilled with approximately 16 cubic yards of clayey silt material and topped off with approximately six inches of Class II baserock material.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected from on-site groundwater wells on October 21 1997, indicated that the elevation of the shallow groundwater surface beneath the site ranged from 22.69 to 24.85 feet above mean sea level. The estimated groundwater flow direction was to the southwest (approximate gradient = 0.002 ft/ft) which is consistent with the flow direction in the preceding quarter.

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

The potentiometric groundwater elevation at the site was observed to drop approximately two (2) feet in three months compared to the gauging event of the third quarter 1997 on July 17, 1997.

The observed hydraulic gradient at the subject site is very flat. The gradient may change due to groundwater recharge or extraction, seasonal changes and natural outflow.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On October 21, 1997, groundwater samples were collected from MW-1, MW-2, and MW-3 following the groundwater sampling procedures presented in **Appendix A.** The groundwater samples were analyzed for TPHg, BTEX and MtBE using EPA Methods 5030, modified 8015, and 8020, by Entech Analytical Labs, Inc. of Sunnyvale, California. The laboratory report and chain-of-custody documents are included in **Appendix B**. The field sampling data sheets are presented in **Appendix C.** The quality assurance/quality control description is included in **Appendix D.** Historic groundwater chemical test data is presented in **Table 4.**

Compared to the previous quarter, the results of the recent groundwater testing showed a general variation in TPHg and BTEX concentrations in as an increase was observed at MW-1, while MW-2, and MW-3 showed decreases. Most of the chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) with the exception of toluene at MW-2 (**Table 3**).

The sample from MW-1, located upgradient of the former gasoline tank area, contained: TPHg at 240,000 micrograms per liter (µg/L); MtBE at <5 µg/L; benzene at 9,400 µg/L which exceeds its MCL of 1 µg/L; toluene at 33,000 µg/L which exceeds its MCL of 150 µg/L; ethyl benzene at 3,300 µg/L which exceeds its MCL of 700 µg/L, and; total xylenes at 22,000 µg/L which exceeds its MCL of 1,750 µg/L.

The sample from MW-2, located down gradient of the former gasoline tank area, contained 31,000 µg/L of TPHg, <5 µg/L of MtBE, 2,000 µg/L of benzene, <0.5 µg/L of toluene, 2,100 µg/L of ethyl benzene, and 1,900 µg/L of total xylenes.

Monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 58,000 µg/L of TPHg, <5 µg/L of MtBE, 4,300 µg/L of benzene, 1,300 µg/L of toluene, 2,100 µg/L of ethyl benzene, and 8,000 µg/L of total xylenes.

VI. CONCLUSIONS

Available data, including data from the fourth quarter 1997 monitoring events, indicate that groundwater flow patterns beneath the site are consistent with previous monitoring events during 1995, 1996, and 1997. Groundwater flowed toward the southwest at the single gauging event of the fourth calendar quarter of 1997.

The recent groundwater sampling event showed a general variation in concentrations of TPHg and BTEX from those concentrations measured in the previous quarter. Most of the chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) at MW-1, MW-2 and MW-3.

VII. RECOMMENDATIONS

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

In our opinion further work is warranted to more accurately monitor the plume movement. We propose that an additional seven (7) wells be installed at the locations shown on **Figure 4**. These wells would define the down gradient plume extent.

Since another gasoline plume exists north of the site, we feel this step is necessary. These wells and the data collected with them would be used to formulate monitoring approach and possible risk-based management approaches for dealing with the dissolved contaminants.

VIII. LIMITATIONS

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

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

IX. REFERENCES

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.

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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. FOURTH QUARTER 1997 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		October 21, 1997	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.61	26.76	22.85
MW-2	50.14	27.45	22.69
MW-3	49.44	26.71	22.73

[1]Elevations in feet above mean sea level.

TABLE 2. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

	Groundwater Surface Elevation[2]		
DATE	MW-1	MW-2	MW-3
12/31/90	19.15[3]	-	-
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
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

[2]Elevations in feet above mean sea level.
[3]This elevation was determined by using the depth of 30.46' measured by The Environmental Construction Company shortly after installation of MW-1 on December 31, 1990 and the surveyed top of casing elevation of 49.61 at MW-1 on January 6, 1995.

DATE	MW-1	MW-2	MW-3
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

TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS

Locations: MW-1, MW-2, MW-3

Date Sampled: October 21, 1997 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE[4]
MW-1	240,000	9,400	33,000	3,300	22,000	<5
MW-2	31,000	2,000	<0.5	2,100	1,900	<5
MW-3	58,000	4,300	1,300	2,100	8,000	<5
MCL/AL[5]	-	1	150	700	1,750	35

[4]MtBE = methyl-tert-butyl-ether. The California Regional Water Quality Control Board initiated the requirement of quantitation of MtBE as an additional analyte for EPA Method 8020 as of January 12, 1996.
[5]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

Locations: MW-1, MW-2, MW-3

Units: µg/L

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE
MW-1	12/31/90	51,000	2,200	1,200	<0.5	760	N/A[6]
	1/6/95	110,000	13,000	15,000	4,800	13,000	N/A
	1/6/95	580,000	29,000	41,000	17,000	43,000	N/A
	7/6/95	49,000	8,000	17,000	1,900	9,700	N/A
	7/6/95	47,000	4,800	9,500	930	5,000	N/A
	10/2/95	120,000	16,000	36,000	3,300	17,000	N/A
	10/2/95	160,000	20,000	47,000	5,000	23,000	N/A
	1/12/96	1,100,000	11,000	18,000	15,000	51,000	*18,000*[7]
	1/12/96	98,000	2,100	4,600	2,500	10,000	<5,000
	4/13/96	53,000	1,300	2,900	2,100	10,000	<5,000
	4/13/96	58,000	820	3,600	2,800	12,000	<5,000
	7/26/96	91,000	2,900	7,200	2,900	14,000	<5,000
	7/26/96	67,000	2,300	5,500	2,500	11,000	<5,000
	10/21/96	210,000	4,800	17,000	2,300	15,000	N/A
	10/21/96	210,000	5,400	18,000	2,600	11,000	N/A
	1/28/97	120,000	5,600	15,000	2,100	11,000	N/A
	1/28/97	130,000	5,500	15,000	2,300	12,000	N/A

[6]N/A = Not Analyzed. The California Regional Water Quality Control Board initiated the requirement of quantitation of MtBE as an additional analyte for EPA Method 8020 as of January 12, 1996. The samples not analyzed for MtBE in this table pre-date the recent new requirement.

[7]This value may be inaccurate. Please refer to the second quarter 1996 report which includes an evaluation of MtBE which cast doubt on the validity of this laboratory test.

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	[redacted]
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000	N/A
	4/25/97	170,000	6,500	20,000	2,500	13,000	N/A
	7/17/97	220,000	8,300	41,000	2,700	16,000	N/A
	10/21/97	240,000	9,400	33,000	3,300	22,000	[redacted]
MW-2	1/6/95	980,000	9,400	5,600	19,000	42,000	N/A
	7/6/95	71,000	5,300	1,800	6,100	9,000	N/A
	10/2/95	40,000	2,900	200	2,800	3,600	N/A
	1/12/96	260,000	2,600	2,200	6,300	7,800	<12,500
	4/13/96	30,000	1,900	370	2,300	2,400	*520*[8]
	7/26/96	180,000	1,400	640	2,100	5,000	<5,000
	10/21/96	62,000	2,100	<0.5	2,100	2,700	N/A
	1/28/97	46,000	1,500	94	1,800	2,000	N/A
	4/25/97	23,000	790	26	820	730	N/A
	7/17/97	95,000	2,200	<0.5	3,100	4,300	N/A
	10/21/97	31,000	2,000	<0.5	2,100	1,900	[redacted]
MW-3	1/6/95	740,000	11,000	2,300	8,300	28,000	N/A
	7/6/95	86,000	12,000	8,600	4,900	19,000	N/A
	10/2/95	100,000	15,000	11,000	6,000	20,000	N/A
	1/12/96	84,000	6,500	4,100	3,200	12,000	<5,000
	4/13/96	48,000	7,600	3,600	2,800	9,400	<2,500
	7/26/96	62,000	6,400	3,100	3,000	11,000	<2,500
	10/21/96	110,000	5,400	2,400	2,500	9,800	N/A

[8]This value may be inaccurate. Please refer to the second quarter 1996 report which includes an evaluation of MtBE which cast doubt on the validity of this laboratory test.

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE
MW-3	1/28/97	130,000	5,500	15,000	2,300	12,000	N/A
	4/25/97	180,000	6,900	20,000	2,600	13,000	N/A
	7/17/97	69,000	5,100	1,100	1,800	8,600	N/A
	10/21/97	58,000	4,300	1,300	2,100	8,000	

EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

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

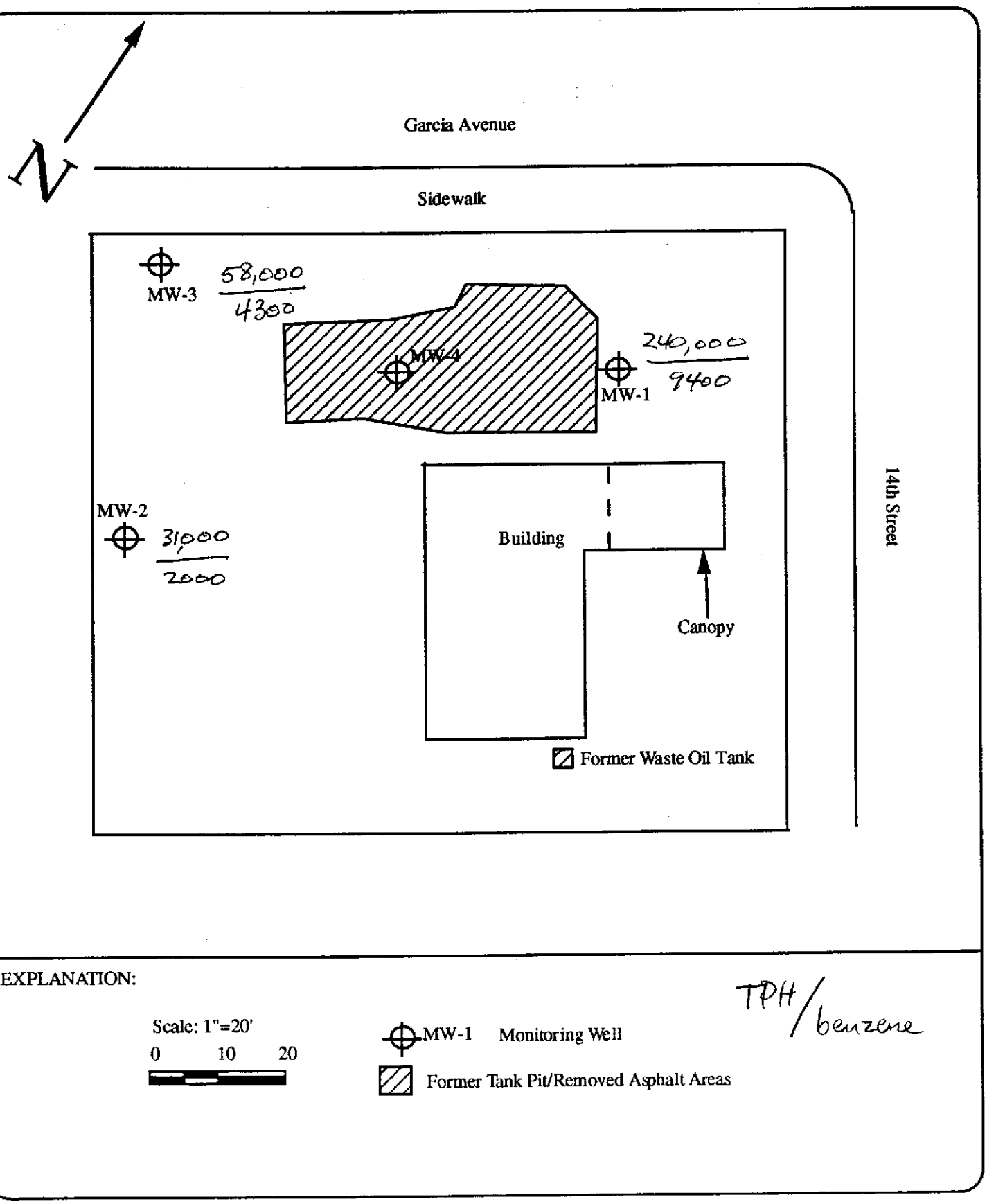
N

Environmental Testing & Mgmt
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

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

Figure 1

Project No. 94-52
Date: 3/97



EXPLANATION:

TPH / benzene

Scale: 1"=20'

0 10 20

MW-1 Monitoring Well

Former Tank Pit/Removed Asphalt Areas

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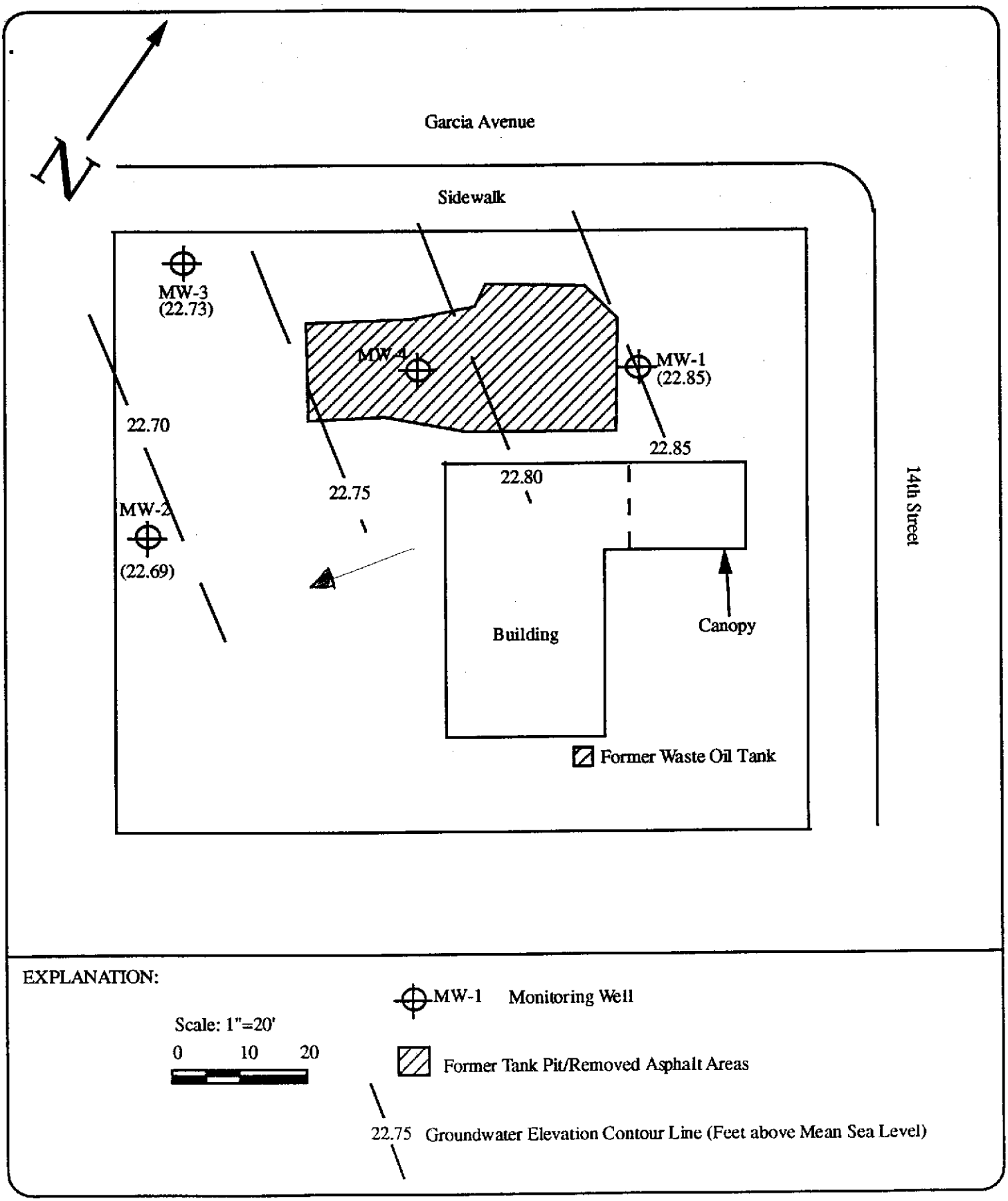
SAN JOSE, CALIFORNIA 95113

SITE MAP

German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Project No. 94-52
Date: 3/97



EXPLANATION:

MW-1 Monitoring Well

Scale: 1"=20'

0 10 20

Former Tank Pit/Removed Asphalt Areas

22.75 Groundwater Elevation Contour Line (Feet above Mean Sea Level)

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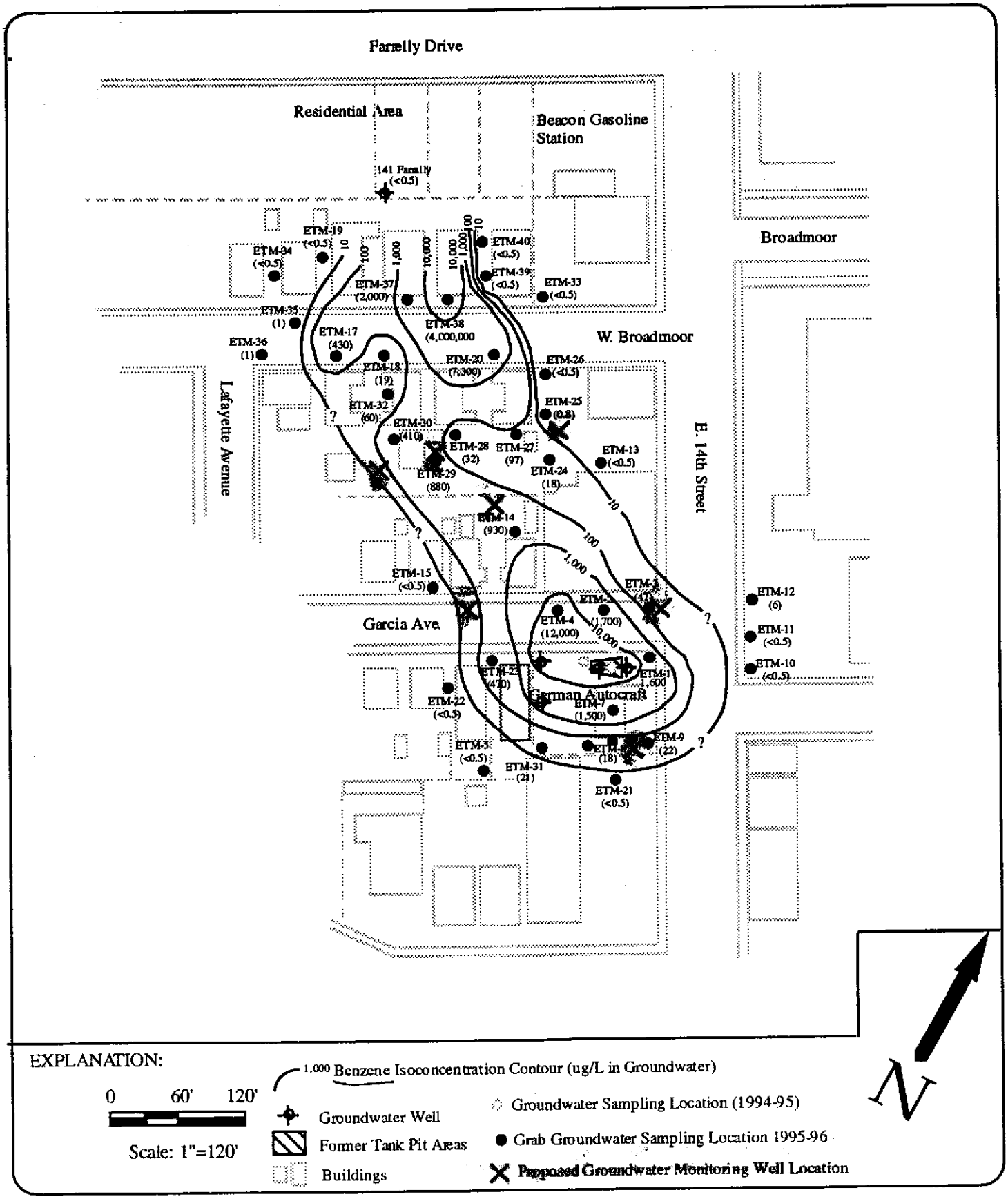
SAN JOSE, CALIFORNIA 95113

GROUNDWATER POTENTIOMETRIC SURFACE
ELEVATION CONTOUR MAP 10/21/97
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 12/97



EXPLANATION:

0 60' 120'

Scale: 1"=120'

1,000 Benzene Isoconcentration Contour (ug/L in Groundwater)

Groundwater Well

Former Tank Pit Areas

Buildings

Groundwater Sampling Location (1994-95)

Grab Groundwater Sampling Location 1995-96

Proposed Groundwater Monitoring Well Location

N

Environmental Testing and Management
2916 Maglocco #2
San Jose, California

PROPOSED MONITORING WELL LOCATIONS ON SWI MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 12/97

APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES

GROUNDWATER LEVEL MEASURING AND SAMPLING:

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

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

Entech Analytical Labs, Inc.

CA ELAP# 2224

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

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

Date:	10/28/97
Date Received:	10/21/97
Date Analyzed:	10/22-10/23/97
Project:	GA
Sampled By:	Client

Certified Analytical Report

Water Sample Analysis:

Test	*MW-1*	*MW-2*	*MW-3*	*Units*	*PQL*	*EPA Method #*
Sample Matrix	Water	Water	Water			
Sample Date	10/21/97	10/21/97	10/21/97			
Sample Time						
Lab #	D16498	D16499	D16500			
DF-Gas/BTEX	1,600	80	200			
TPH-Gas	**240,000**	**31,000**	**58,000**	µg/liter	50.0 µg/l	8015M
MTBE	**ND**	**ND**	**ND**	µg/liter	5.0 µg/l	8020
Benzene	**9,400**	**2,000**	**4,300**	µg/liter	0.5 µg/l	8020
Toluene	**33,000**	**ND**	**1,300**	µg/liter	0.5 µg/l	8020
Ethyl Benzene	**3,300**	**2,100**	**2,100**	µg/liter	0.5 µg/l	8020
Xylenes	**22,000**	**1,900**	**8,000**	µg/liter	0.5 µg/l	8020

1. DLR=DF x PQL
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)

Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above DLR

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG5971022
Matrix: Water
Units: µg/L

Date Analyzed: 10/22/97
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/L	SA µg/L	SR µg/L	SP µg/L	**SP % R**	SPD µg/L	**SPD %R**	RPD	QC LIMITS (ADVISORY) RPD	QC LIMITS (ADVISORY) %R
Benzene	8020	<0.50	5.0	ND	4.7	**95**	5.3	**107**	11.7	25	50-150
Toluene	8020	<0.50	5.0	ND	4.6	**93**	4.9	**97**	4.6	25	50-150
Ethyl Benzene	8020	<0.50	5.0	ND	4.5	**90**	4.7	**94**	3.7	25	50-150
Xylenes	8020	<0.50	15	ND	15	**99**	16	**103**	4.6	25	50-150
Gasoline	8015	<50.0	625	ND	651	**104**	615	**98**	5.7	25	50-150

Definition of Terms:

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

Entech Analytical Labs, Inc.

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

Chain of Custody/Analysis Work Order

Client: GA

Address: 301 E 14 St

S.L.

Contact:

Telephone #:

Date Received:

Turn Around: Normal

Project ID:

Purchase Order #:

Sampler/Company: Tom Price / Environmental Testing & Mgmt.

Telephone #:

Special Instructions/Comments: 111 N Market 6th Fl. SJ CA 95128

LAB USE ONLY

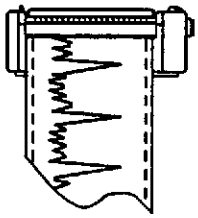
Samples arrived chilled and intact:

Yes No

Notes:

Sample Information								Requested Analysis							
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH(g) BTEX MTBE							
0104498	MW-1	G	W	10/4/97		No	40ml	✓							
0104499	MW-2	↓	↓	↓		↓	↓	✓							
0104500	MW-3	↓	↓	↓		↓	↓	✓							

Relinq. By:	Received By:	Date	Time
Tom Price	Kelley [illegible]	10/4/97	1550
Relinq. By:	Received By:	Date	Time
Relinq. By:	Received By:	Date	Time



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

Date: 10/21/97 Project Name: GA.

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

Depth of Well: 41.6 1 Well Volume: ~~7.6~~ 2.4

Depth to Water: ~~32.60~~ 26.76 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 7.0

Calculations: ~~10' X 0.16 = 1.6~~ 15' X 0.16

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___Other Specify: _____

Sheen: ___No ✓Yes, Describe splotches/streaks

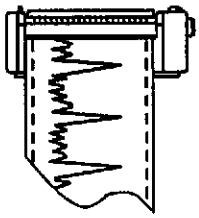
Odor: ___No ✓Yes, Describe mild HC.

Field Measurements:

Time	Volume 2.5	pH	Temp.	E.C.	Color
1245	~~1250~~	7.1	67	1.49	Gray,
1255	~~10~~ 5.0	7.0	67	1.50	gray
105	7.0	7.0	67	1.49	"

Remarks: _____

Sampler: Tom Grace



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Date: 10/21/97 Project Name: GA

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

Depth of Well: 33.7 1 Well Volume: 2.6

Depth to Water: 27.45 4 Well Volumes: _____

Casing Diameter: ✓2" __4" Actual Volume Purged: 5.0

Calculations: 316 / 16 / 96 / 16 / 256

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify:_____

Sheen: ___ No ✓ Yes, Describe splotches/streaks

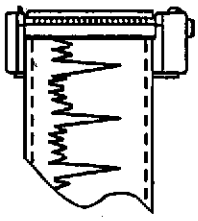
Odor: ___ No ✓ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1215	1.5	7.0	72	1.5E3	gray
1220	3.1	7.1	71	1.4E3	"
1225	5.0	7.1	71	1.4E3	"

Remarks:_____

Sampler: Tom Grieve



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SAN JOSE, CALIFORNIA 95113
408.938.0939 FAX: 408.938.3929

Date: 10/2-1/97 Project Name: GA

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

Depth of Well: 35.3 1 Well Volume: 2.18

Depth to Water: 26.71 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: 5.5

Calculations: 16 / 11

2" - * 0.1632
4" - * 0.653 16 / 16 / 17.6

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

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: X No ___ Yes, Describe _____

Odor: ___ No X Yes, Describe HC mild.

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1150	2.5	7.7	69	1.39E3	gray
1155	4.0	7.1	70	1.41E3	"
1205	5.5	7.0	71	1.35E3	"

Remarks: _____

Sampler: [signature]

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on October 21, 1997 included the following:

- Groundwater samples were collected in duplicate 40 milliliter vials.

APPENDIX E: REPORT DISTRIBUTION LIST

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

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

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

Kevin Graves
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

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