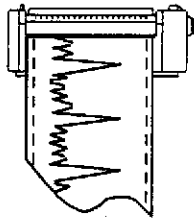


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FIRST QUARTER 1998
QUARTERLY GROUNDWATER MONITORING PROGRAM
REPORT

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

Prepared by:

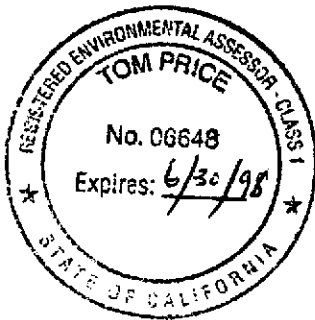


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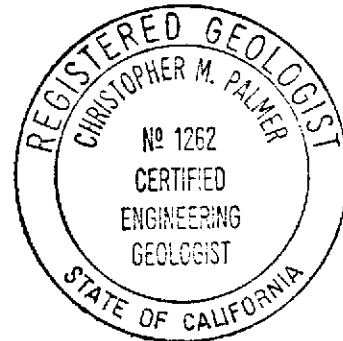
Prepared For:

Mr. Seung Lee
301 E. 14th Street
San Leandro, California



Tom Price, REA, CHMM
Project Manager

Christopher M. Palmer, RG, CEG, HG
Project Geologist



Report issued May 21, 1998

I. INTRODUCTION	2
II. BACKGROUND	3
III. WORK PERFORMED DURING FIRST QUARTER, 1998	3
IV. GROUNDWATER ELEVATION AND GRADIENT	4
V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS	4
VI. CONCLUSIONS	5
VII. RECOMMENDATIONS	6
VIII. LIMITATIONS	6
IX. REFERENCES	7

TABLE 1. FIRST QUARTER 1998 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA	9
TABLE 2. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA	10
TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS	12
TABLE 4. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS	13
FIGURE 1: LOCATION MAP	16
FIGURE 2: SITE MAP	17
FIGURE 3: GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR MAP 3/10/98	18
APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES	19
APPENDIX B: LABORATORY REPORTS AND CHAINS-OF-CUSTODY FORMS	20
APPENDIX C: FIELD DATA SHEETS/GROUNDWATER SAMPLING	21
APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM	22
APPENDIX E: REPORT DISTRIBUTION LIST	23

I. INTRODUCTION

Environmental Testing & Management (ETM) continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar first quarter of 1998 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 (report dated June 7, 1995) 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. The quarterly monitoring program is continued to meet the requirements of the ACDEH.

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, 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 FIRST QUARTER, 1998

Work included preparation of a workplan for continued soil and water investigation, groundwater level gauging and sampling, data analysis, and report preparation. Activity highlights during this period are as follows:

- **February 3, 1998** - ETM issued "Proposed Workplan for Continued Soil and Water Investigation, and Expanded Groundwater Monitoring" for the subject site.
- **February 11, 1998** - Scott O. Seery, of the ACDEH accepted the proposed workplan as submitted.
- **March 10, 1998** - 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). The height of the passive skimmer system at MW-4 was adjusted. Approximately 20 gallons of groundwater was bailed out of MW-4 in an effort to redevelop the well.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected from on-site groundwater wells on March 10, 1998, indicated that the elevation of the shallow groundwater surface beneath the site ranged from 34.13 to 34.35 feet above mean sea level. The estimated groundwater flow direction was to the west (approximate gradient = 0.003 ft/ft).

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

The potentiometric groundwater elevation at the site was observed to rise approximately eleven (11) feet compared to the gauging event of the fourth quarter 1997 on October 21, 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 aquifer outflow.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On March 10, 1998, 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 as some analyte concentrations increased while others decreased. Most of the chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (Table 3).

The sample from MW-1, located upgradient of the former gasoline tank area, contained: TPHg at 120,000 micrograms per liter ($\mu\text{g/L}$); MtBE at $<5 \mu\text{g/L}$; benzene at 11,000 $\mu\text{g/L}$ which exceeds its MCL of 1 $\mu\text{g/L}$; toluene at 46,000 $\mu\text{g/L}$ which exceeds its MCL of 150 $\mu\text{g/L}$; ethyl benzene at 3,700 $\mu\text{g/L}$ which exceeds its MCL of 700 $\mu\text{g/L}$, and; total xylenes at 21,000 $\mu\text{g/L}$ which exceeds its MCL of 1,750 $\mu\text{g/L}$.

The sample from MW-2, located down gradient of the former gasoline tank area, contained 19,000 $\mu\text{g/L}$ of TPHg, $<5 \mu\text{g/L}$ of MtBE, 730 $\mu\text{g/L}$ of benzene, 44 $\mu\text{g/L}$ of toluene, 820 $\mu\text{g/L}$ of ethyl benzene, and 1,000 $\mu\text{g/L}$ of total xylenes.

Monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 25,000 $\mu\text{g/L}$ of TPHg, $<5 \mu\text{g/L}$ of MtBE, 3,000 $\mu\text{g/L}$ of benzene, 1,300 $\mu\text{g/L}$ of toluene, 1,100 $\mu\text{g/L}$ of ethyl benzene, and 3,700 $\mu\text{g/L}$ of total xylenes.

VI. CONCLUSIONS

Available data, including data from the first quarter 1998 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 west at the single gauging event of the first calendar quarter of 1998. Samples will be analyzed to Method 8260 for MtBE to confirm previous results.

The recent groundwater sampling event showed a general variation in concentrations of TPHg and BTEX from those concentrations measured in the previous quarter. Various 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.

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.
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**TABLE 1. FIRST QUARTER 1998 GROUNDWATER POTENTIOMETRIC SURFACE
ELEVATION DATA**

		March 10, 1998	
WELL	CASING ELEVATION ¹	Depth to Groundwater	Groundwater Elevation
MW-1	49.61	15.26	34.35
MW-2	50.14	15.94	34.20
MW-3	49.44	15.31	34.13

¹Elevations in feet above mean sea level.

TABLE 2. HISTORIC GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION

DATA

DATE	Groundwater Surface Elevation ²		
	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

²Elevations in feet above mean sea level.

³This 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
3/10/98	34.35	34.20	34.13

TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS

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

Date Sampled: March 10, 1998 Units: µg/L

WELL	TPHg	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	MtBE ⁴
MW-1	120,000	11,000	46,000	3,700	21,000	<5
MW-2	19,000	730	44	820	1,000	<5
MW-3	25,000	3,000	1,300	1,100	3,700	<5
MCL/AL ⁵	-	1	150	700	1,750	35

X
OK

⁴MtBE = 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.

⁵Maximum 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: $\mu\text{g/L}$

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

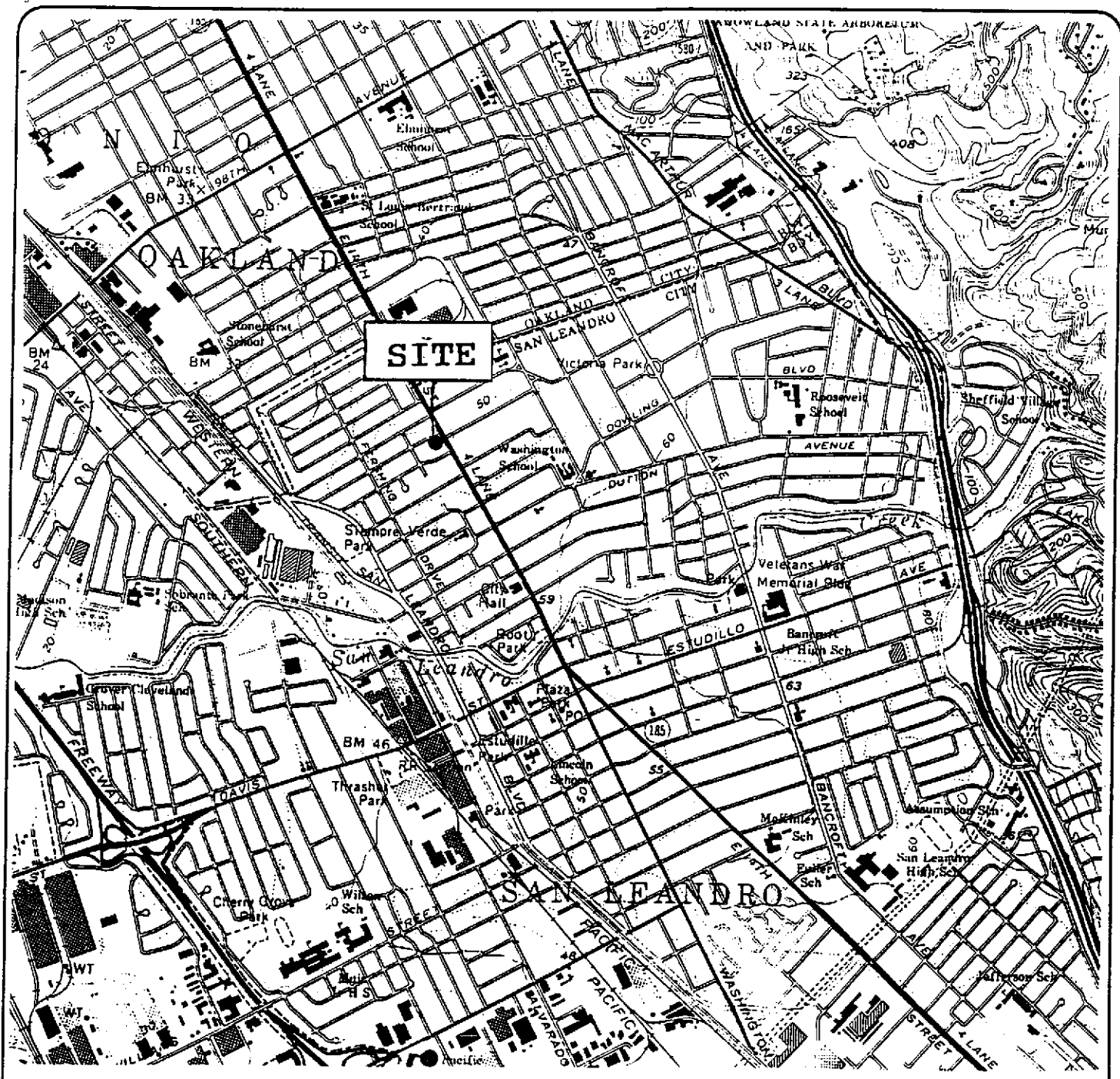
⁶N/A = Not Analyzed. The California Regional Water Quality Control Board initiated the requirement of quantitation of MtBE as an additional analyte for EPA Method 8020 as of January 12, 1996. The samples not analyzed for MtBE in this table pre-date the recent new requirement.

⁷This 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-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	<5
	3/10/98	120,000	11,000	46,000	3,700	21,000	<5
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	<5
	3/10/98	19,000	730	44	820	1,000	<5
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

⁸This 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	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
	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	<5
	3/10/98	25,000	3,000	1,300	1,100	3,700	<5



EXPLANATION:

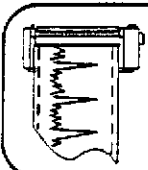
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Base Map Reference:

U.S.G.S. San Leandro 7.5 Minute
Topographic, Quadrangle.

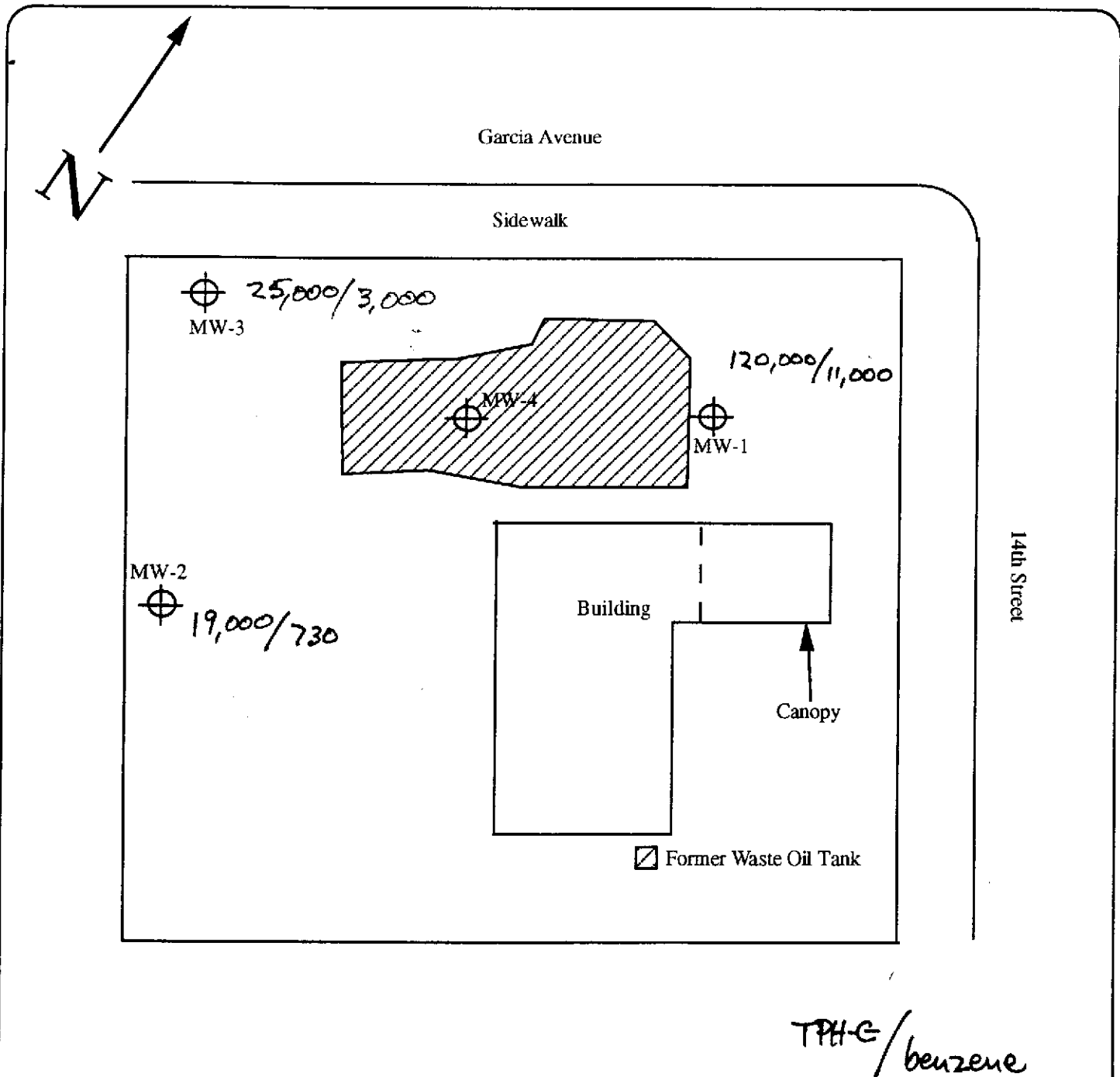


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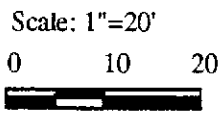
LOCATION MAP
German Autocraft
301 East 14th Street
San Leandro, California



Figure 1

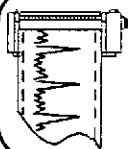
Project No.
94-52
Date: 3/97



EXPLANATION:



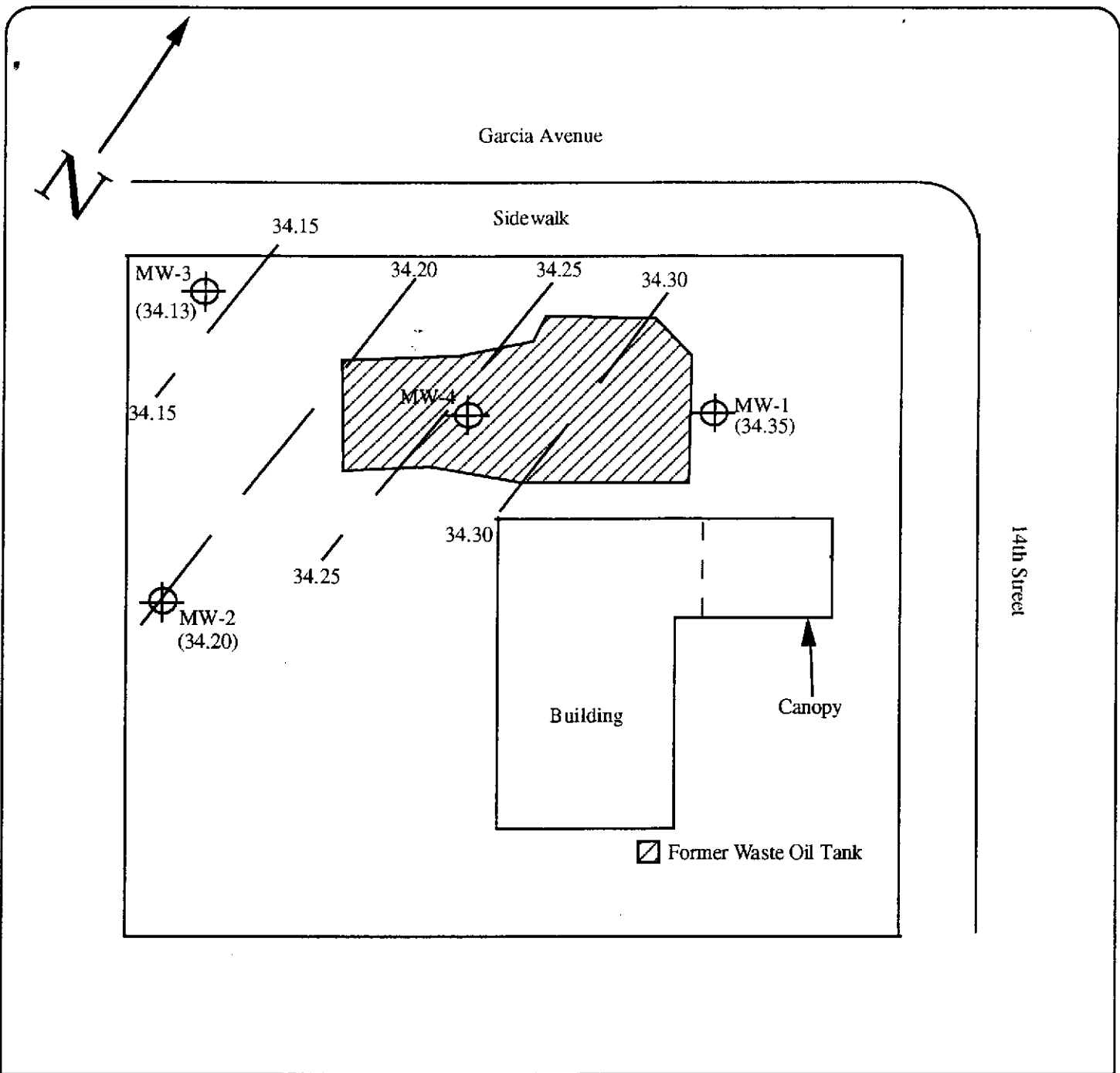
-  MW-1 Monitoring Well
-  Former Tank Pit/Removed Asphalt Areas



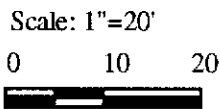
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SAN JOSE, CALIFORNIA 95113

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

Former Tank Pit/Removed Asphalt Areas

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

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GROUNDWATER POTENTIOMETRIC SURFACE
ELEVATION CONTOUR MAP 3/10/98
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3
Date: 5/98

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

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Attn: Tom Price
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San Jose, CA 95113

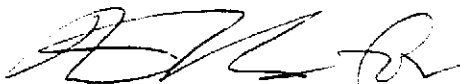
Date:	3/18/98
Date Received:	3/11/98
Date Analyzed:	3/12-3/13/98
Project:	GA
Sampled By:	Client

Certified Analytical Report

Water Sample Analysis:

Test	MW-1	MW-2	MW-3	Units	PQL	EPA Method #
Sample Matrix	Water	Water	Water			
Sample Date	3/10/98	3/10/98	3/10/98			
Sample Time						
Lab #	E5062	E5063	E5064			
DF-Gas/BTEX	100	50	100			
TPH-Gas	120,000	19,000	25,000	µg/liter	50.0 µg/l	8015M
MTBE	ND	ND	ND	µg/liter	5.0 µg/l	8015M
Benzene	11,000	730	3,000	µg/liter	0.5 µg/l	8020
Toluene	46,000	44	1,300	µg/liter	0.5 µg/l	8020
Ethyl Benzene	3,700	820	1,100	µg/liter	0.5 µg/l	8020
Xylenes	21,000	1,000	3,700	µg/liter	0.5 µg/l	8020

1. $DLR = DF \times PQL$
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 #: GBG2980312

Date Analyzed: 03/12/98

Matrix: Water

Quality Control Sample: E4885

Units: ug/L

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC LIMITS (ADVISORY)	
										RPD	%R
Benzene	8020	<0.50	40	ND	40	100	37	93	7.4	25	50-150
Toluene	8020	<0.50	40	ND	40	99	38	95	4.4	25	50-150
Ethyl Benzene	8020	<0.50	40	ND	40	101	38	96	4.9	25	50-150
Xylenes	8020	<0.50	120	ND	120	100	116	96	4.1	25	50-150
Gasoline	8015	<50.0	1000	ND	960	96	1040	104	8.0	25	50-150

Note: LCS and LCSD results reported for the following Parameters:
Gasoline

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG2980313

Matrix: Water

Units: ug/L

Date Analyzed: 03/13/98

Quality Control Sample: E5073

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP % R	SPD ug/L	SPD %R	RPD	QC LIMITS (ADVISORY)	
										RPD	% R
Benzene	8020	<0.50	80	ND	76	95	76	95	0.9	25	50-150
Toluene	8020	<0.50	80	ND	74	92	74	93	0.6	25	50-150
Ethyl Benzene	8020	<0.50	80	ND	74	92	74	92	0.1	25	50-150
Xylenes	8020	<0.50	240	ND	214	89	218	91	2.1	25	50-150
Gasoline	8015	<50.0	1000	ND	900	90	920	92	2.2	25	50-150

Note: LCS and LCSD results reported for the following Parameters:

None

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

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.
SAN LEANDRO CA.
 Contact: _____
 Telephone #: _____
 Date Received: _____
 Turn Around: Normal

Project ID: _____
 Purchase Order #: _____

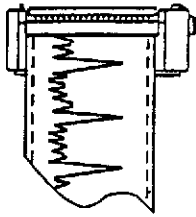
Sampler/Company: Tom Price/Env. Testing & Mgmt Telephone #: _____
 Special Instructions/Comments: _____

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	THG	BTEX	MER						
E5062	mw-1	G	W	3/10/98	-	chill	40 ml VOA	✓								
E5063	mw-2	↓	↓	↓	-	↓	↓	✓								
E5064	mw-3	↓	↓	↓	-	↓	↓	✓								
Relinq. By:	<u>Tom Price</u>					Received By:	<u>J. Singh</u>					Date	<u>3/11/98 12:10 PM</u>		Time	<u>12:10 PM</u>
Relinq. By:	<u>J. Singh</u>					Received By:	<u>[Signature]</u>					Date	<u>3/11/98 12:50</u>		Time	<u>12:50 PM</u>
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: 3/10/98

Project Name: GA

Project No.: _____

Well No./Description: mw-1

Depth of Well: 39.30

1 Well Volume: 3.8

Depth to Water: 15.26

4 Well Volumes: _____

Casing Diameter: 2" 4"

Actual Volume Purged: _____

Calculations:

2" - * 0.1632

4" - * 0.653

$$\begin{array}{r}
 24 \\
 0.16 \\
 \hline
 144 \\
 24 \\
 \hline
 384
 \end{array}$$

Purge Method: Bailer Displacement Pump Impinger/Vacuum _____

Sample Method: Bailer Other Specify: _____

Sheen: No Yes, Describe slight

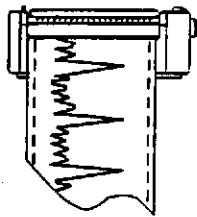
Odor: No Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
<u>1201</u>	<u>4.0</u>	<u>7.1</u>	<u>73</u>	<u>1.8E3</u>	<u>lt gray</u>
<u>1214</u>	<u>8.0</u>	<u>6.8</u>	<u>68</u>	<u>2.6E3</u>	<u>" "</u>
<u>1222</u>	<u>12.0</u>	<u>6.8</u>	<u>73</u>	<u>2.0E3</u>	<u>" "</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: Tom Price



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

Date: 3/10/98

Project Name: GA-

Project No.: _____

Well No./Description: MW-2

Depth of Well: 33.95

1 Well Volume: 2.9

Depth to Water: 15.94

4 Well Volumes: _____

Casing Diameter: 2" 4"

Actual Volume Purged: _____

Calculations:

2" - * 0.1632
 4" - * 0.653

$$\begin{array}{r} 418 \\ 16 \\ \hline 108 \\ 75 \\ \hline 288 \end{array}$$

Purge Method: Bailer Displacement Pump Impinger/Vacuum

Sample Method: Bailer Other Specify: _____

Sheen: No Yes, Describe medium stronger than MW-1

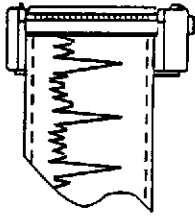
Odor: No Yes, Describe high - stronger than MW-1

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
<u>1240</u>	<u>3.0</u>	<u>6.6</u>	<u>73</u>	<u>2.0E3</u>	<u>gray</u>
<u>1243</u>	<u>6.0</u>	<u>6.6</u>	<u>67</u>	<u>1.8E3</u>	<u>1</u>
<u>1256</u>	<u>9.0</u>	<u>6.8</u>	<u>65</u>	<u>1.7E3</u>	<u>1</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: Tom Price



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

Date: 3/10/98 Project Name: GA
 Project No.: _____ Well No./Description: mw-3
 Depth of Well: 31.90 1 Well Volume: 3.2
 Depth to Water: 15.31 4 Well Volumes: _____
 Casing Diameter: 2" 4" Actual Volume Purged: _____
 Calculations:
$$\begin{array}{r} \sim 20 \\ 6.16 \\ \hline 3.2 \end{array}$$

 2" - * 0.1632
 4" - * 0.653

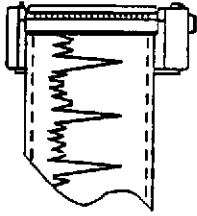
Purge Method: Bailer Displacement Pump Impinger/Vacuum _____
 Sample Method: Bailer Other Specify: _____
 Sheen: No Yes, Describe _____
 Odor: No Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
<u>1301</u>	<u>3.0</u>	<u>7.0</u>	<u>65</u>	<u>1.0E3</u>	<u>gray</u>
<u>1307</u>	<u>6.0</u>	<u>7.0</u>	<u>65</u>	<u>0.9E3</u>	<u>1</u>
<u>1315</u>	<u>9.0</u>	<u>7.0</u>	<u>65</u>	<u>0.9E3</u>	<u>1</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Remarks: _____

Sampler: Tom Price



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

Date: 3/10/98 Project Name: GA
 Project No.: _____ Well No./Description: MW-4
 Depth of Well: 34.40 1 Well Volume: 3.0
 Depth to Water: 15.49 4 Well Volumes: _____
 Casing Diameter: 2" 4" Actual Volume Purged: _____

Calculations:

2" - * 0.1632
 4" - * 0.653

5
 19
 16

 3
 114
 19

 304

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: No product recovered from skimmer.
Interface bailer retrieved floating droplets of
dk. brown HC product. Bailed/surged ~ 20 gallons of
water. Adjusted skimmer height, cleaned screen.

Sampler: Tom Price

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on March 10, 1998 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