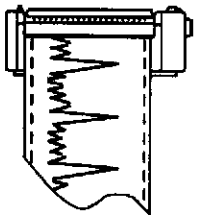
# FOURTH QUARTER 1995
# ENVIRONMENTAL ACTIVITIES REPORT

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

Prepared by:



ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892

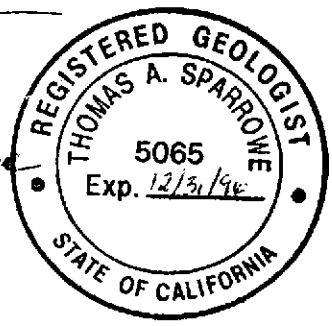
Prepared For:

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

Prepared by:

Tom Price
Project Manager

Thomas A. Sparrowe
Registered Geologist #5065




Report submitted February 26, 1996

## I. INTRODUCTION

In accordance with recommendations set forth in the Soil and Groundwater Investigation (SWI) Workplan, dated June 7, 1995, Environmental Testing & Management (ETM) has continued the Quarterly Monitoring Program (QMP) and related environmental activities 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 also involves an off-site soil and groundwater sampling program to define the limits of the contamination plume. The results of the SWI will be presented later in a separate technical report at the conclusion of the investigation. Sixteen soil borings were drilled between November 28 and December 1, 1995. ETM, on behalf of Mr. Lee, is currently seeking an expanded budget from the UST Cleanup Fund for advancing up to eighteen additional borings to further delineate the downgradient edge of the plume.

The purpose of this QMP is to evaluate potential impacts from soil contamination on groundwater in the area of six former underground fuel storage tanks (USTs) that were removed in 1990. Data accumulated from the QMP will be used to assess seasonal groundwater level fluctuations, changing groundwater quality conditions, and to further determine groundwater sampling locations in the on-going SWI.

This report presents a description of the groundwater monitoring activities, a compilation of groundwater quality and gradient data, updated information on waste disposal activities, maintenance of the passive skimmer system in the former tank pit area, and a brief description of the progress of the on-going SWI activities completed during the 4th Quarter of 1995.

## 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 following documents, all of which have been submitted to the ACDEH:

- *Third Quarter 1995 Environmental Activities Report*
  (Environmental Testing and Management, October 2, 1995)
- *Soil and Water Investigation at German Autocraft*
  (Chemist Enterprises, April 12, 1995);
- *Preliminary Soil and Groundwater Contamination Assessment*
  (The Environmental Construction Company, February 1991);
- *Underground Storage Tank Removals*
  (The Environmental Construction Company, November 1990)

## III. WORK PERFORMED DURING FOURTH QUARTER, 1995

Work has included groundwater level monitoring amd sampling, maintenance of the passive skimmer system installed in MW-4, four days of field sampling for the SWI, and general planning for an expanded SWI. Activity highlights during this period are as follows:

- **October 2, 1995** - ETM measured groundwater elevations and collected groundwater samples from monitoring wells MW-1, MW-2, and MW-3. ETM inspected each well for the presence of floating product or sheen. A light sheen on the water was observed in well MW-2 and very heavy sheen was observed in MW-4. MW-1 and MW-3 did not exhibit sheen, however, detectable hydrocarbon odors were apparent. The samples were submitted to a Department of Health Services (DHS)-certified laboratory for analysis of Total Petroleum Hydrocarbons as Gasoline (TPHg), and Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX).
- **November 7, 1995** - ETM measured groundwater elevations in monitoring wells MW-1, MW-2, and MW-3. ETM inspected each well for the presence of floating product or sheen. A light

sheen on the water was observed in well MW-2 and very heavy sheen was observed in MW-4. MW-1 and MW-3 did not exhibit sheen, however, detectable hydrocarbon odors were apparent. No floating product was recovered from the passive skimmer system in MW-4.

- **November 10, 1995** - Romic Environmental Technologies picked up 12 drums of drilling rinsate and monitoring well purge water for transport to their treatment facility in East Palo Alto, California. The manifests for these wastes are included in Appendix E of this report.
- **November 17, 1995** - Norcal Underground Locating cleared the locations of proposed soil borings for the pending SWI.
- **November 28-December 1, 1995** - Environmental Control Associates and ETM conducted soil and groundwater sampling for the SWI.
- **December 8, 1995** - ETM measured groundwater elevations in monitoring wells MW-1, MW-2, and MW-3. ETM inspected each well for the presence of floating product or sheen. A light sheen was observed in well MW-2 and very heavy sheen was observed in MW-4 waters. MW-1 and MW-3 did not exhibit sheen, however, detectable hydrocarbon odors were apparent. Also, streets and buildings were measured in the neighborhood for preparation of a greater vicinity map for the expanded SWI.

## IV. GROUNDWATER GRADIENT

The estimated groundwater gradient on the Site is consistent with those measured in previous quarters. **The estimated groundwater flow in October, November, and December were approximately 0.002 - 0.003 ft/ft in a southwesterly direction (Figures 3a, b, and c).**

**Table 1** presents the groundwater elevation measurement data obtained during October, November, and December 1995. Historic groundwater elevation data are presented in **Table 2.** Groundwater level measuring procedures are presented in **Appendix A.**

## V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On October 2, 1995, groundwater samples were collected from MW-1, MW-2, and MW-3 and generally followed the groundwater sampling procedures presented in the SWI. Well sampling procedures are presented in **Appendix A.** The groundwater samples were analyzed for TPHg and BTEX using EPA Method 5030 and 8020 by Inchcape Testing Services of San Jose, 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 quality data is presented in **Table 4.**

Compared to the previous quarter, the results of the recent groundwater sampling effort showed a **general increase in TPHg and BTEX concentrations in MW-1 and MW-3** however, the concentrations in MW-2 decreased. All of the constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) (**Table 3**). Estimated groundwater benzene and TPHg isoconcentration maps will be presented in the future technical report for the off-site SWI.

The sample from MW-1, located upgradient of the former gasoline tank area, contained: TPH at 120,000 micrograms per liter (µg/L) (blind duplicate: 160,000 µg/L); benzene at 20,000 µg/L (blind duplicate: 16,000 µg/L) which exceeds its MCL of 1 µg/L; toluene at 47,000 µg/L (blind duplicate: 36,000 µg/L) which exceeds its MCL of 150 µg/L; ethyl benzene at 5,000 µg/L of (blind duplicate: 3,300 µg/L)which exceeds its MCL of 700 µg/L, and ; total xylenes at 23,000 µg/L (blind duplicate: 17,000 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 40,000 µg/L of TPHg, 2,900 µg/L of benzene, 200 µg/L of toluene, 2,800 µg/L of ethyl benzene, and 3,600 µg/L of total xylenes.

Monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 100,000 µg/L of TPHg, 15,000 µg/L of benzene, 11,000 µg/L of toluene, 6,000 µg/L of ethyl benzene, and 20,000 µg/L of total xylenes.

Floating gasoline product was not recovered from MW-4 during the fourth quarter of 1995. During the development of MW-4 on September 22, 1995, the free product present was apparently removed and may take time to recharge.

## VI. CONCLUSIONS

Available data, including data from the fourth quarter 1995 monitoring events, suggest that groundwater flow patterns beneath the site are consistent with the third quarter monitoring during 1995. Groundwater presently flows toward the southwest.

The recent groundwater sampling event showed an increase in concentrations of TPHg and BTEX in MW-1 and MW-3 and decrease in MW-2 from those concentrations measured in the previous quarter. The concentrations of the constituents of concern in all of the wells sampled remain above their respective MCL. ETM will continue the QMP and monthly groundwater level measuring activities during the next sampling quarter (January to April 1996).

## VII. RECOMMENDATIONS

ETM recommends that groundwater levels continue to be monitored on a monthly basis and water quality in the monitoring wells continue to be monitored quarterly basis to comply with the ACDEH requirements, and to assess trends in constituent concentrations over time.

## VIII. LIMITATIONS

The data, information, interpretations and recommendations contained in technical work or report are presented solely as beneficial in meeting minimum requirements for determining groundwater quality on the site and does not take into account omissions or errors on behalf of parties identified in this report.

The conclusions and professional opinions presented herein were developed by ETM in accordance with generally accepted environmental principles and practices. As with all work performed by ETM, the opinions expressed are subject to revisions in light of new information which may develop in the future; no warranties are expressed or implied.

This report has not been prepared for use by parties other than ACDEH and Mr. Seung Lee. It may not contain sufficient information for the purposes of other parties or other uses. If changes are made or new information is discovered, the conclusions and recommendations contained herein should not be considered valid, unless the changes are reviewed by ETM and the recommendations are modified in writing.

## 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 and Management, *Third Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California*, October, 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 1995 GROUNDWATER ELEVATION DATA

| WELL | CASING ELEVATION | October 2, 1995 | | November 7, 1995 | | December 8, 1995 | |
|---|---|---|---|---|---|---|---|
| | | Depth to Groundwater | Groundwater[1] Elevation | Depth to Groundwater | Groundwater Elevation | Depth to Groundwater | Groundwater Elevation |
| MW-1 | 49.61 | 25.49 | 24.12 | 26.25 | 23.36 | 26.84 | 22.77 |
| MW-2 | 50.14 | 26.20 | 23.94 | 27.01 | 23.13 | 27.59 | 22.55 |
| MW-3 | 49.44 | 25.44 | 24.00 | 26.23 | 23.21 | 26.82 | 22.62 |

[1]Elevations in feet above mean sea level.

## TABLE 2. HISTORIC GROUNDWATER ELEVATION DATA

| DATE | Groundwater Surface Elevation[1] | | |
|---|---|---|---|
| | MW-1 | MW-2 | MW-3 |
| 12/31/90 | 19.15[2] | - | - |
| 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]Elevations in feet above mean sea level.

[2]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.

## TABLE 3. GROUNDWATER CHEMICAL TEST RESULTS

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

Date Sampled: October 2, 1995 Units: µg/L

| WELL | TPHg | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES |
|---|---|---|---|---|---|
| MW-1[3] | 120,000 | 16,000 | 36,000 | 3,300 | 17,000 |
| MW-1 | 160,000 | 20,000 | 47,000 | 5,000 | 23,000 |
| MW-2 | 40,000 | 2,900 | 200 | 2,800 | 3,600 |
| MW-3 | 100,000 | 15,000 | 11,000 | 6,000 | 20,000 |
| Detection Limit | 50 | 0.5 | 0.5 | 0.5 | 0.5 |
| MCL[4] | - | 1 | 150 | 700 | 1,750 |

[3]This sample was labeled 'MW-9" and submitted to the lab as a blind duplicate.

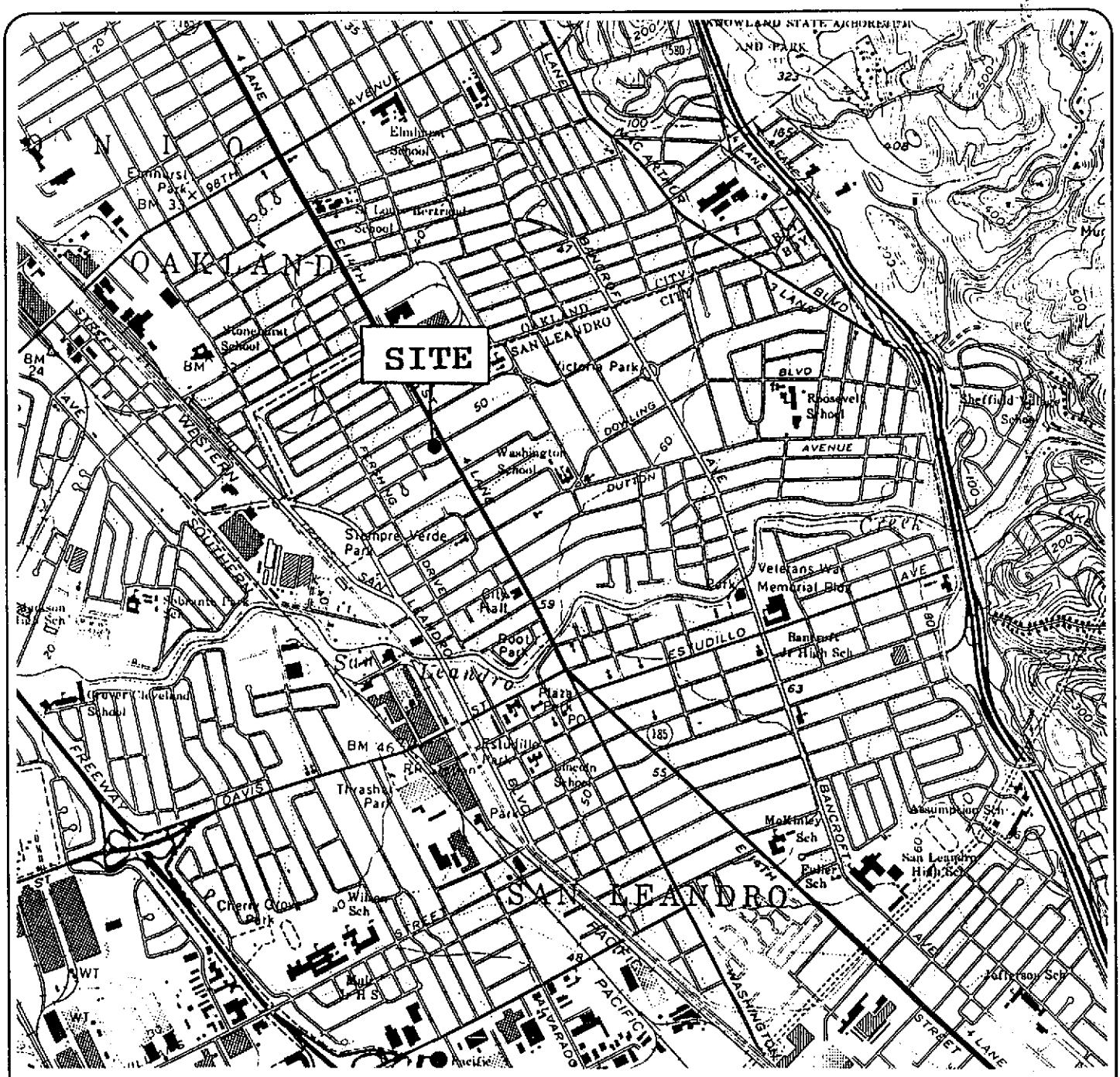
[4]Maximum Contaminant Level as established by the State of California, Division of Drinking Water and Environmental Management, Department of Health Services "Summary, Maximum Contaminant and Action Levels" November, 1994.

## TABLE 4. HISTORIC GROUNDWATER QUALITY TEST RESULTS

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

Units: µg/L

| WELL | DATE | TPHg | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | Total Pb |
|---|---|---|---|---|---|---|---|
| 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 | 134 |
| | 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 | [illegible] | 47,000 | 5,000 | 23,000 | - |
| MW-2 | 1/6/95 | 980,000 | 9,400 | 5,600 | 19,000 | 42,000 | 411 |
| | 7/6/95 | 71,000 | 5,300 | 1,800 | 6,100 | 9,000 | - |
| | 10/2/95 | 40,000 | [illegible]00 | 200 | 2,800 | 3,600 | - |
| MW-3 | 1/6/95 | 740,000 | 11,000 | 2,300 | 8,300 | 28,000 | 237 |
| | 7/6/95 | 86,000 | 12,000 | 8,600 | 4,900 | 19,000 | - |
| | 10/2/95 | 100,000 | [illegible] | 11,000 | 6,000 | 20,000 | - |




EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

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

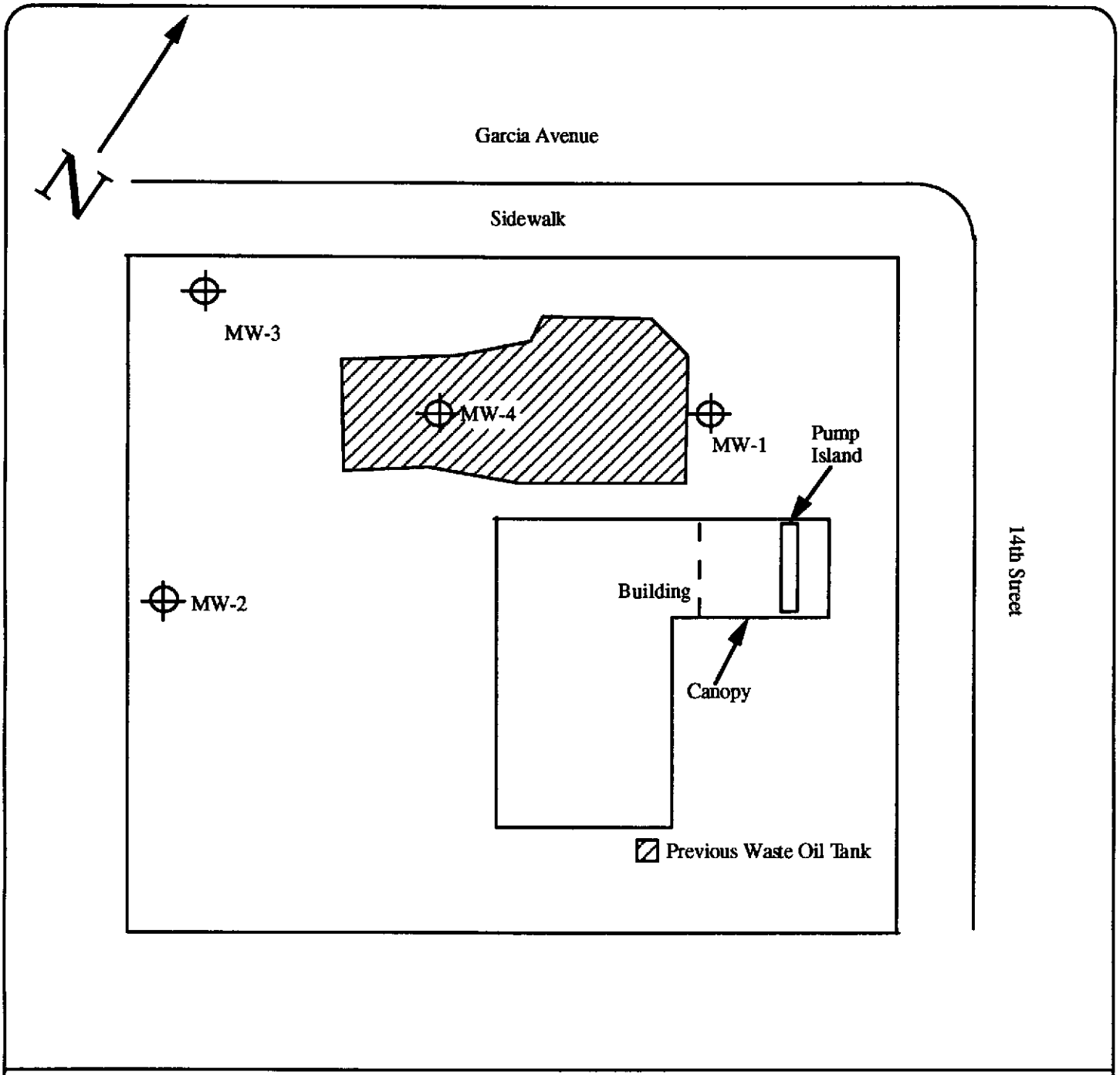
N

ENVIRONMENTAL TESTING AND MANAGEMENT
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128

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

Figure 1

Project No. 94-52
Date: 8/95




EXPLANATION:

Scale: 1"=20'

0 10 20

Monitoring Well

Former Tank Pit/Removed Asphalt Areas

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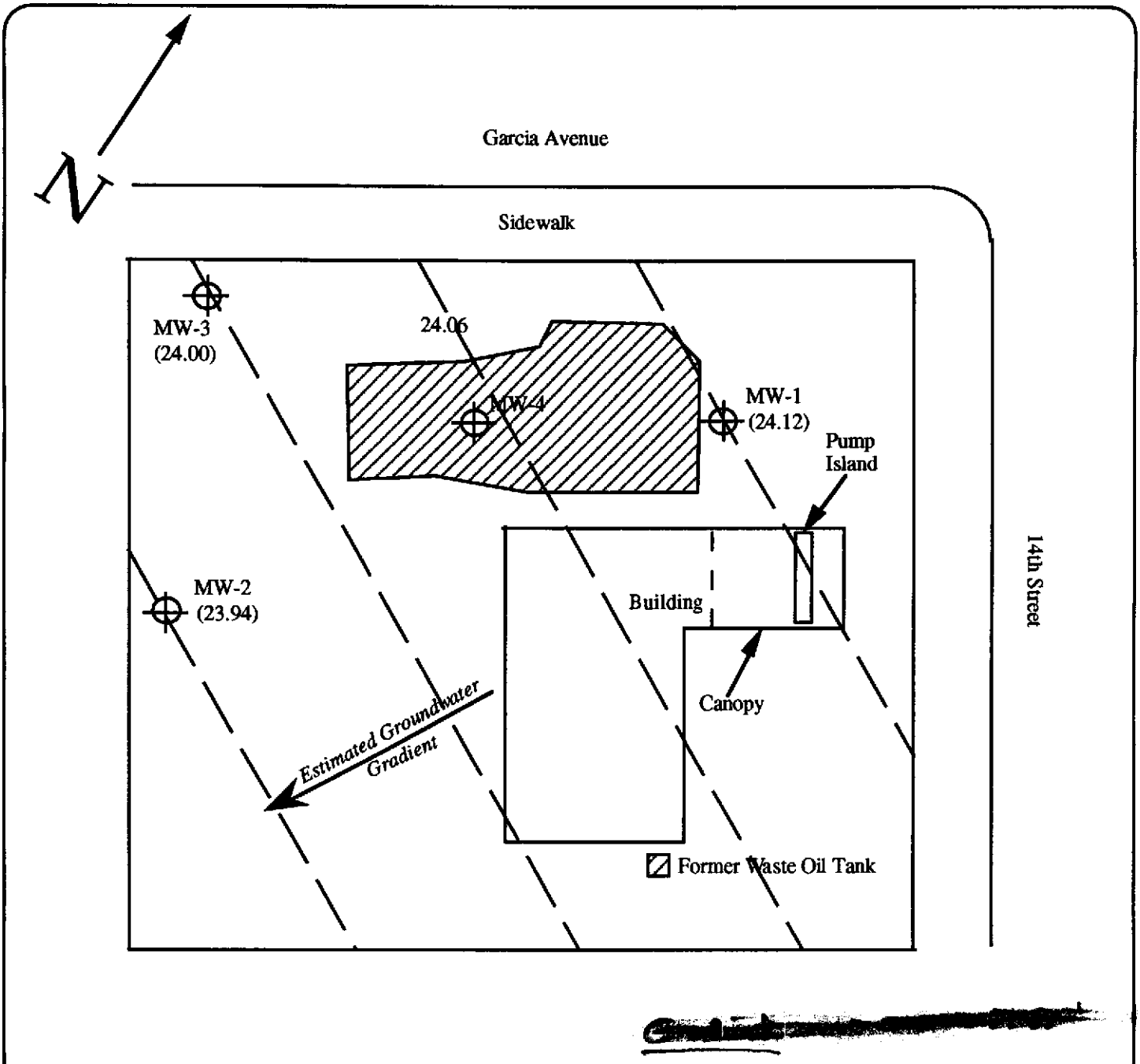
SAN JOSE, CALIFORNIA 95128
408.248.5892

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

Figure 2

Project No. 94-52
Date: 9/95




EXPLANATION:

Scale: 1"=20'

0 10 20

MW-1 Monitoring Well

Former Tank Pit/Removed Asphalt Areas

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

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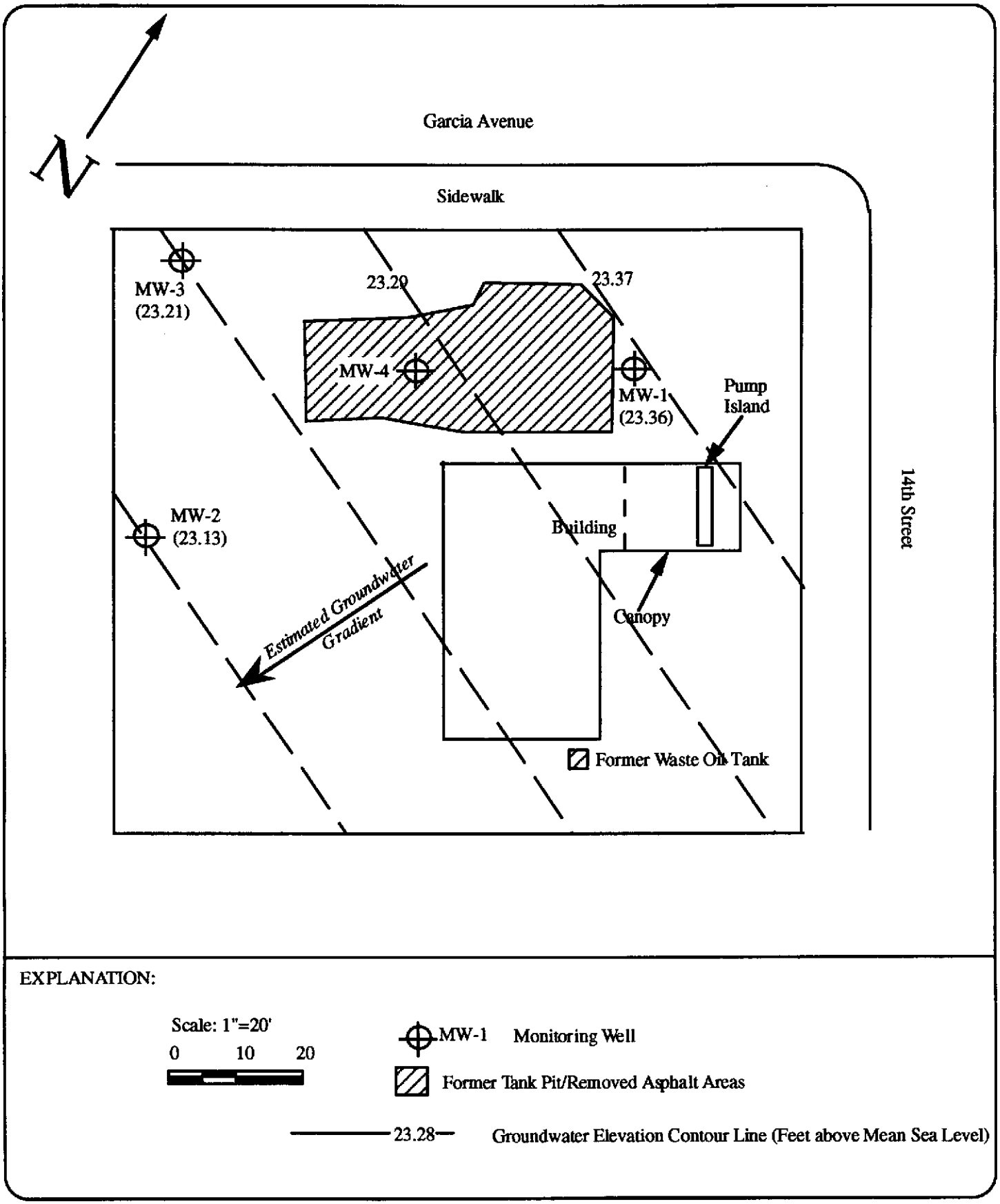
408.248.5892

GROUNDWATER ELEVATION CONTOUR MAP 10/2/95
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3a

Project No. 94-52
Date: 2/96




EXPLANATION:

Scale: 1"=20'

0 10 20

MW-1 Monitoring Well

Former Tank Pit/Removed Asphalt Areas

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

ENVIRONMENTAL TESTING & MGMT.
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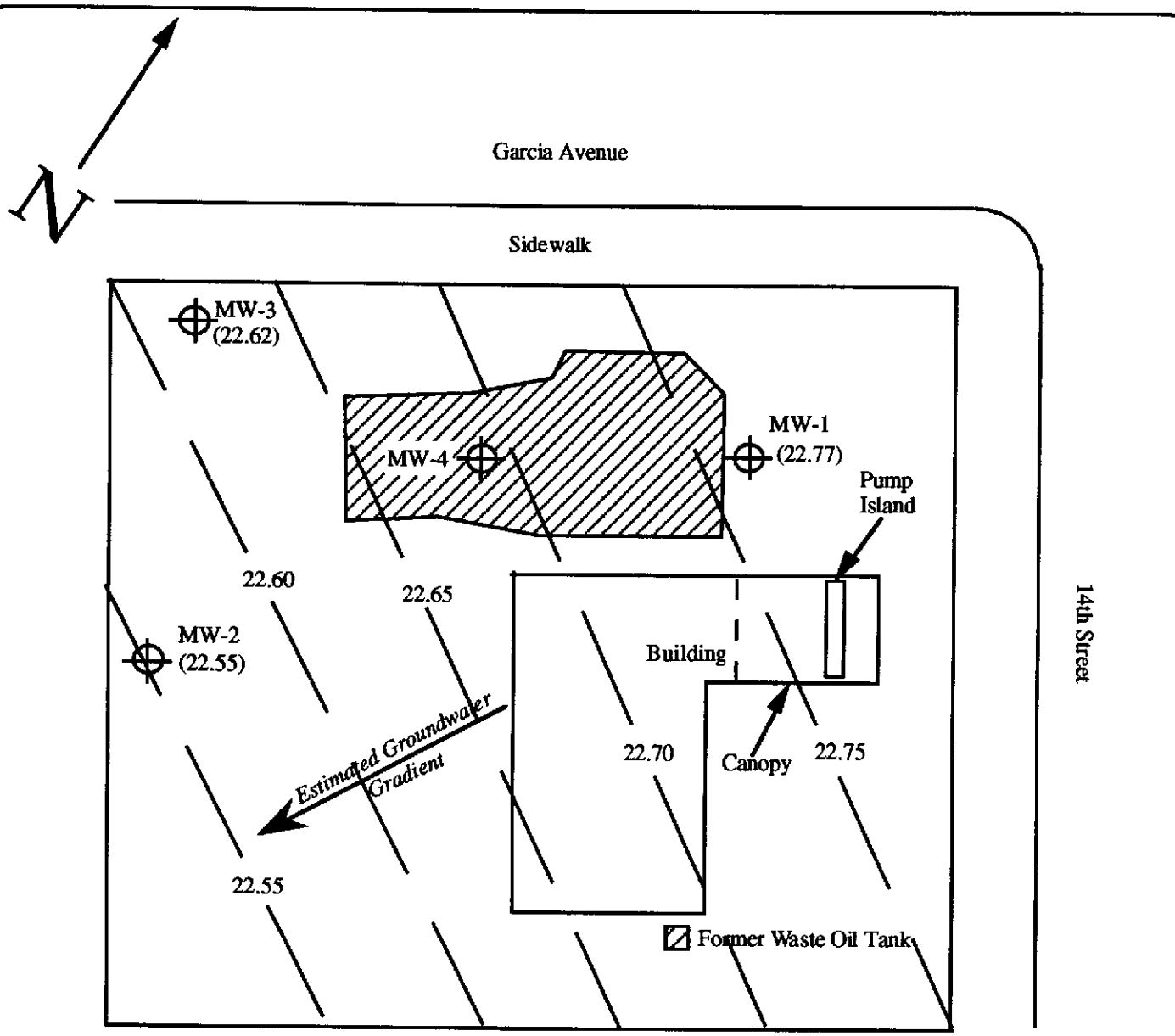
SAN JOSE, CALIFORNIA 95128
408.248.5892

GROUNDWATER ELEVATION CONTOUR MAP 11/7/95
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3b

Project No. 94-52
Date: 2/96




EXPLANATION:

Scale: 1"=20'

0 10 20

MW-1 Monitoring Well

Former Tank Pit/Removed Asphalt Areas

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


ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892


GROUNDWATER ELEVATION CONTOUR MAP 12/8/95
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3c

Project No. 94-52
Date: 2/96

## 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 followed by a distilled water rinse. 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 and/or until groundwater temperature, pH, and specific conductance 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.

# Inchcape Testing Services
## Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198


MR. TOM PRICE
ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DR. SUITE 2
SAN JOSE, CA 95128

Workorder # : 9510005
Date Received : 10/02/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

| ANAMETRIX ID | CLIENT SAMPLE ID |
|---|---|
| 9510005- 1 | TB-1 |
| 9510005- 2 | MW9 |
| 9510005- 3 | MW1 |
| 9510005- 4 | MW2 |
| 9510005- 5 | MW3 |

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Ham for
Susan Kraska Yeager
Laboratory Director

10/12/95
Date

Dave Wahida
Project Manager

This report consists of 8 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. TOM PRICE
ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DR. SUITE 2
SAN JOSE, CA 95128

Workorder # : 9510005
Date Received : 10/02/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

| ANAMETRIX SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE SAMPLED | METHOD |
|---|---|---|---|---|
| 9510005- 1 | TB-1 | WATER | 10/02/95 | TPHgBTEX |
| 9510005- 2 | MW9 | WATER | 10/02/95 | TPHgBTEX |
| 9510005- 3 | MW1 | WATER | 10/02/95 | TPHgBTEX |
| 9510005- 4 | MW2 | WATER | 10/02/95 | TPHgBTEX |
| 9510005- 5 | MW3 | WATER | 10/02/95 | TPHgBTEX |

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. TOM PRICE
ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DR. SUITE 2
SAN JOSE, CA 95128

Workorder # : 9510005
Date Received : 10/02/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Department Supervisor 10/11/95 Date

Chemist 10/11/95 Date

# Organic Analysis Data Sheet
## Total Petroleum Hydrocarbons as Gasoline with BTEX
## ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9510005 | Client Project ID : GERMAN AUTOCRAF

Matrix : WATER | Units : ug/L

| Compound Name | Method Reporting Limit* | Client ID TB-1 Lab ID 9510005-01 | Client ID MW9 Lab ID 9510005-02 | Client ID MW1 Lab ID 9510005-03 | Client ID MW2 Lab ID 9510005-04 | Client ID MW3 Lab ID 9510005-05 |
|---|---|---|---|---|---|---|
| Benzene | 0.50 | ND | 16000 | 20000 | 2900 | 15000 |
| Toluene | 0.50 | ND | 36000 | 47000 | 200 | 11000 |
| Ethylbenzene | 0.50 | ND | 3300 | 5000 | 2800 | 6000 |
| Total Xylenes | 0.50 | ND | 17000 | 23000 | 3600 | 20000 |
| TPH as Gasoline | 50 | ND | 120000 | 160000 | 40000 | 100000 |
| Surrogate Recovery | | 94% | 98% | 100% | 92% | 99% |
| Instrument ID | | HP12 | HP12 | HP12 | HP12 | HP12 |
| Date Sampled | | 10/02/95 | 10/02/95 | 10/02/95 | 10/02/95 | 10/02/95 |
| Date Analyzed | | 10/03/95 | 10/03/95 | 10/03/95 | 10/03/95 | 10/03/95 |
| RLMF | | 1 | 500 | 1000 | 100 | 500 |
| Filename Reference | | FPO00501.D | FPO00502.D | FPO00503.D | FPO00504.D | FPO00505.D |

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst 10/11/95 Date

Supervisor 10/11/95 Date



Issued on 10/10/95 @ 4:24 pm

# Organic Analysis Data Sheet
## Total Petroleum Hydrocarbons as Gasoline with BTEX
## ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9510005 Client Project ID : GERMAN AUTOCRAF

Matrix : WATER Units : ug/L

| Compound Name | Method Reporting Limit* | Client ID | Client ID | Client ID | Client ID | Client ID |
|---|---|---|---|---|---|---|
| | | Lab ID | Lab ID | Lab ID | Lab ID | Lab ID |
| | | METHOD BLANK | | | | |
| Benzene | 0.50 | ND | | | | |
| Toluene | 0.50 | ND | | | | |
| Ethylbenzene | 0.50 | ND | | | | |
| Total Xylenes | 0.50 | ND | | | | |
| TPH as Gasoline | 50 | ND | | | | |
| Surrogate Recovery | | 99% | | | | |
| Instrument ID | | HP12 | | | | |
| Date Sampled | | N/A | | | | |
| Date Analyzed | | 10/03/95 | | | | |
| RLMF | | 1 | | | | |
| Filename Reference | | BO0301E1.D | | | | |

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst 10/11/95 Date

Supervisor 10/11/95 Date

# Laboratory Control Spike Report
## Total Petroleum Hydrocarbons as Gasoline
## ITS - Anametrix Laboratories - (408)432-8192

Instrument ID : HP12
Matrix : LIQUID

Analyst : TS
Supervisor : [illegible]
Units : ug/L

| COMPOUND NAME | SPIKE AMOUNT | LCS RECOVERY | RECOVERY LIMITS |
|---|---|---|---|
| Gasoline | 500 | 92% | 67-127 |
| Surrogate Recovery | | 71% | 61-139 |
| Date Analyzed | | 10/03/95 | |
| Multiplier | | 1 | |
| Filename Reference | | MO0301E1.D | |

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

**Inchcape Testing Services**
**Anametrix Laboratories**

1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

9510005 (10)

# CHAIN-OF-CUSTODY RECORD

| PROJECT NUMBER | PROJECT NAME | Send Report Attention of: | Report Due | Verbal Due |
|---|---|---|---|---|
| | German Auto craft | Tom Price | NORMAL TAT | / / |

| Sample Number | Date | Time | Comp | Matrix | Station Location | Number of Cntnrs | Type of Containers | Type of Analysis: TPH-g/BTEX | Condition of Samples | Initial |
|---|---|---|---|---|---|---|---|---|---|---|
| TB-1 | 10/2/95 | 0952 | | W | distilled blank. | 3 | VOAs | ✓ | | |
| MW9 | " | 1018 | | W | | 3 | " | ✓ | | |
| MW1 | " | 1030 | | W | | 3 | " | ✓ | | |
| MW2 | " | 1141 | | W | | 3 | " | ✓ | | |
| MW3 | " | 1218 | | W | | 3 | " | ✓ | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sampled by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|
| Tom Price | 10/2/95 1308 | | |
| **Relinquished by:(Signature)** | **Date/Time** | **Received by: (Signature)** | **Date/Time** |
| | | | |
| **Relinquished by:(Signature)** | **Date/Time** | **Received by Lab:** | **Date/Time** |
| | | | 10/2/95 1308 |

Remarks: *Special pricing this project*
*NEW BUSINESS NAME*
*NEW ADDRESS* *NEW PHONE #*

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Magliocco Dr. Suite 2
SAN JOSE CA 95128
PHONE: (408) 248-5892 FAX: Same.

**Inchcape Testing Services**
**Anametrix Laboratories**

# SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 950005 CLIENT PROJECT ID: German Aircraft

## COOLER

| | | | |
|---|---|---|---|
| Shipping slip (airbill, etc.) present? | YES | NO | (N/A) |
| If YES, enter carrier name and airbill # : _____ | | | |
| Custody Seal on the outside of cooler? | YES | NO | (N/A) |
| Condition: INTACT ____ BROKEN ____ | | | |
| Temperature of sample (s) within range? | (YES) | NO | N/A |
| List temperature of cooler (s): 2°C | | | |

## SAMPLES

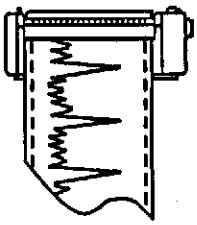
| | | | |
|---|---|---|---|
| Chain of custody seal present for each container? | YES | NO | (N/A) |
| Condition: INTACT ____ BROKEN ____ | | | |
| Samples arrived within holding time? | (YES) | NO | N/A |
| Samples in proper containers for methods requested? | (YES) | NO | |
| Condition of containers: INTACT ✓ BROKEN ____ | | | |
| If NO, were samples transferred to proper container? ____ | | | |
| Were VOA containers received with zero headspace? | (YES) | NO | N/A |
| If NO, was it noted on the chain of custody? ____ | | | |
| Were container labels complete? (ID, date, time preservative, etc.) | (YES) | NO | |
| Were samples preserved with the proper preservative? | (YES) | NO | N/A |
| If NO, was the proper preservative added at time of receipt? ____ | | | |
| pH check of samples required at time of receipt? | YES | (NO) | |
| If YES, pH checked and recorded by: ____ | | | |
| Sufficient amount of sample received for methods requested? | (YES) | NO | |
| If NO, has the client or lab project manager been notified? ____ | | | |
| Field blanks received with sample batch? # of Sets: ____ | YES | NO | (N/A) |
| Trip blanks received with sample batch? # of Sets: 1 | (YES) | NO | N/A |

## CHAIN OF CUSTODY

| | | |
|---|---|---|
| Chain of custody received with samples? | (YES) | NO |
| Has it been filled out completely and in ink? | (YES) | NO |
| Sample ID's on chain of custody agree with container labels? | (YES) | NO |
| Number of containers indicated on chain of custody agree with number received? | (YES) | NO |
| Analysis methods clearly specified? | (YES) | NO |
| Sampling date and time indicated? | (YES) | NO |
| Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date? | (YES) | NO |
| Turnaround time? REGULAR ✓ RUSH ____ | | |

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: TM Date: 10/2/95 Project Manager: W Date: 10/3/95



ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892

Date: 10/2/95 Project Name: German Autocraft

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

Depth of Well: 46.70 1 Well Volume: 3.4

Depth to Water: 25.49 4 Well Volumes: 13.2

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 13.2

Calculations:

2" - * 0.1632
4" - * 0.653

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

Sample Method: ✓ Bailer __ Other Specify: _____

Sheen: __ No ✓ Yes, Describe very slight < 1/16 diameter splotches

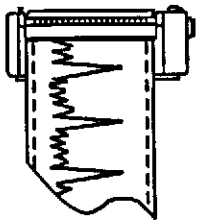
Odor: __ No ✓ Yes, Describe hydrocarbon

Field Measurements:

| Time | Volume | pH | Temp. | E.C. | Color |
|---|---|---|---|---|---|
| 1013 | 4 gal | 6.81 | IND P | 1.09E3 | Gray |
| 1021 | 9 gal | 6.90 | " | 1.1E3 | " |
| 1031 | 13 gal | 6.99 | " | 1.2E3 | " |
| | | | | | |
| | | | | | |

Remarks: Recharge to 25.50 prior to sampling

Sampler: Tom Price



ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892

Date: 10/2/95 Project Name: German Autocraft

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

Depth of Well: 34.1 1 Well Volume: 1.2

Depth to Water: 26.20 4 Well Volumes: 4.8

Casing Diameter: ✓ 2" __ 4" Actual Volume Purged: 8

Calculations: 7.9 X 0.16 = 1.2

2" - * 0.1632
4" - * 0.653

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

Sample Method: ✓ Bailer __ Other Specify: _____

Sheen: __ No ✓ Yes, Describe slight

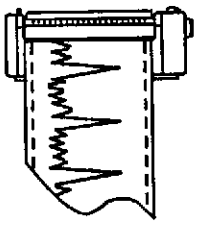
Odor: __ No ✓ Yes, Describe hydrocarbon

Field Measurements:

| Time | Volume | pH | Temp. | E.C. | Color |
|---|---|---|---|---|---|
| 1112 | 2 gal | 7.1 | INOP | 1.9E3 | dark gray |
| 1120 | 4 gal | 7.1 | " | 1.9E3 | " " |
| 1122 | 8 gal | 6.9 | " | 1.7E3 | lt. gray |
| | | | | | |
| | | | | | |

Remarks: Recharged to 26.23 prior to sampling

Sampler: Tom Price



ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892

Date: 10/2/95 Project Name: German Autocraft

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

Depth of Well: 35.50 1 Well Volume: ~1.6 gal

Depth to Water: 25.44 4 Well Volumes: 6.4 gal

Casing Diameter: ~~2"~~ ✓ 2" ___ 4" Actual Volume Purged: 7.5

Calculations: 1.6 x 4 = 6.4

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 hydrocarbon

Field Measurements:

| Time | Volume | pH | Temp. | E.C. | Color |
|---|---|---|---|---|---|
| 1155 | 2.5 | 6.80 | TNTP | 1.8E3 | dk gray |
| 1200 | 5.0 | 6.80 | " | 1.2E3 | lt gray |
| 1205 | 7.5 | 6.60 | " | 1.2E3 | " " |
| | | | | | |
| | | | | | |

Remarks: _____

Sampler: Tom Price

## APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on October 2, 1995 included the following:

- Groundwater samples were collected in triplicate.
- One trip blank was submitted for TPHg and BTEX analyses along with the groundwater samples.
- One duplicate groundwater sample was collected from MW-1. This sample was labeled "MW-9" and submitted for TPHg and BTEX analysis with the other samples.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

**See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

# UNIFORM HAZARDOUS WASTE MANIFEST

| 1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law. |
|---|---|---|---|
| C A C 0 0 0 3 5 4 0 7 6 4 | | | |

**GENERATOR**

3. Generator's Name and Mailing Address
CARRAN AUTOCRAFT
381 EAST 14TH ST
SAN LEANDRO, CA
4. Generator's Phone (510) [illegible] Contact: Tom Price

A. State Manifest Document Number: 95507641
B. State Generator's ID:
C. State Transporter's ID: 6180655-57
D. Transporter's Phone:
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID: CAD 0 0 9 4 6 2 6 5 7
H. Facility's Phone: (415) 324-1638

5. Transporter 1 Company Name: BORIC ENVIRONMENTAL TECH.
6. US EPA ID Number: C A 0 0 0 3 5 2 6 5 7

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
BORIC ENVIRONMENTAL TECH
2061 Bay Road
East Palo Alto, CA 94303 1316
10. US EPA ID Number: C A D 0 0 9 4 6 2 6 5 7

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste Number |
|---|---|---|---|---|---|
| a. HAZARDOUS WASTE, LIQUID, N.O.S. 9 NA3082 PGIII (GASOLINE) | 001 | DM | 00135 | G | State 135 EPA/Other D018 |
| b. HAZARDOUS WASTE, LIQUID, N.O.S. 9 NA3082 PGIII (GASOLINE) | 001 | DM | 00135 | G | State 135 EPA/Other D018 |
| c. | | | | | State EPA/Other |
| d. | | | | | State EPA/Other |

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
a. 01 b. 01
c. d.

15. Special Handling Instructions and Additional Information
24 HR. EMERGENCY RESPONSE NUMBER: (408) 292-5492

| Line # | Profile # | DOT ERG # | EPA/Other Waste Code(s) |
|---|---|---|---|
| 11-A | 319603 | 31 | NONE |
| 11 B | 319604 | 31 | NONE |

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Mr. Lee | | 1 | 10 | 95 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| JERRY FLOWERS | | 1 | 16 | 95 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| L. MURRAY | L Murray | 1 | 10 | 95 |

**DO NOT WRITE BELOW THIS LINE.**

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/95)
EPA 8700—22