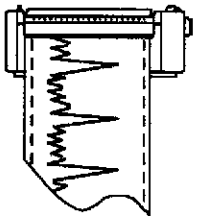
CONTINUED SOIL AND WATER AND OFFSITE INVESTIGATION AT GERMAN AUTOCRAFT 301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

Prepared by:



ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE, SUITE #2
SAN JOSE, CALIFORNIA 95128
408.248.5892 FAX: 408.248.5899

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 Issued July 12, 1996

I. EXECUTIVE SUMMARY

Environmental Testing & Management (ETM) was retained by Mr. Seung Lee to conduct an off site groundwater contamination investigation of German Autocraft property located in San Leandro, California. The purpose of this investigation was to define limits of a petroleum hydrocarbon contamination plume in groundwater in the vicinity of the Site. The investigation consisted of collection and analyses of soil and groundwater samples to define the limits of a gasoline contamination plume, physical analyses of selected soil samples for evaluation of appropriate soil an/or groundwater remediation methods, and provide recommendations for additional environmental activities.

To define the limits of the dissolved hydrocarbons (plume) coming from the former UST area, over 40 grab groundwater samples were collected and analyzed. Accumulated data indicate that four (4) distinct chemical plumes are present in groundwater surveyed in this investigation. Two plumes are from petroleum hydrocarbon releases from two different sources: (1) a "weathered" gasoline plume that originated at the former UST area on the German Autocraft property and extends approximately 240 feet to the northwest, and: (2) a "fresh" gasoline plume encountered on W. Broadmoor that may have originated from a Beacon Gasoline Station and extends approximately 320 feet southwest of that gas station, (3) a small plume of tetrachloroethene emanating from Sunshine Cleaners located at 223 East 14th Street, approximately 240 feet northwest of the Site, and (4) a plume of an unknown chemical located on the Viking Liquor Store property and southeast (up-gradient) of the Site, source unknown.

During our previous investigation (CE, 1995), soil underlying the former UST the excavation was found to contain TPHg was measured at 1,600 mg/kg, benzene at 7.1 mg/kg, toluene at 75 mg/kg, ethyl benzene at 41 mg/kg, and total xylenes at 170 mg/kg. Surface water percolating through this source material transport contaminants that has negatively impacted the shallow underlying aquifer.

The former UST excavation should be backfilled with engineered fill and capped with an impermeable barrier such as asphalt.

Since December 1994, groundwater elevation monitoring of Site wells have shown groundwater flowing in a southwesterly direction at a gradient of approximately 0.001 - 0.003 ft/ft. However, the hydrocarbon plume definition program definitively shows the plume extending approximately 240 feet northwest from Site. Therefore, an off site monitoring well network should be installed to obtain a more accurate model of groundwater quality and flow direction data for the area.

Based on the findings of the SWI, we make the following recommendations:

1. In light of recent developments in addressing corrective actions for UST leaks to the environment, a risk-based corrective action (RBCA) should be conducted on the Site. The RBCA process would do the following:

- base decisions on reducing to appropriate levels the risk of harmful human or environmental impacts
- focus site assessment activities on collecting information to make risk-based corrective action decisions
- focus limited resources toward site that pose the greatest risk
- find the most economical remediation option that has a high probability of achieving the negotiated degree of exposure and risk reduction"
- evaluate compliance "relative to site-specific standards applied at site-specific points of compliance"

2. As part of the RBCA, a corrective action plan (CAP) should be developed for immediate source removal. This plan should be based on an evaluation of remediation techniques e.g. excavation or vapor extraction, and address filling and capping the former UST excavation.

3. An off site monitoring well network consisting of 2-4 monitoring wells should be installed to obtain a accurate model of groundwater flow direction in the area. At a minimum, one well

should be located upgradient (southeast) of the Site and one downgradient (northwest) of the Site. In addition the wells can be used for groundwater qualitative analysis to determine if the plume is migrating away from the Site and if natural biodegradation of the contaminants is occurring.

4. Groundwater levels should continue to be monitored on a monthly basis and water quality in the monitoring wells continue to be monitored on a quarterly basis to comply with the ACDEH requirements, and to assess trends in constituent concentrations over time. This monitoring program should be expanded to include any new wells as they are installed.

5. Groundwater cleanup techniques should be evaluated, however, the initiation of a cleanup program is complicated by the other chemical plumes identified in groundwater around the Site as a result of this investigation. A program for groundwater cleanup would require input from the ACDEH concerning other responsible parties.

II. INTRODUCTION

Environmental Testing & Management (ETM) conducted environmental sampling activities related to a gasoline fuel release from former underground storage tanks (USTs) at German Autocraft located at 301 East 14th Street in the City of San Leandro, Alameda County, California (**Figure 1**). The soil and water investigation (SWI) workplans, dated June 7, 1995 and expanded February 7, 1996, were approved by Mr. Scott Seery of the Alameda County Department of Environmental Health (ACDEH) in his letters dated June 19, 1995 and February 13, 1996. This report is submitted to the ACDEH on behalf of Mr. Seung Lee, owner of German Autocraft.

This SWI includes a soil and groundwater sampling program which has defined the limits of a gasoline contamination plume related to the subject Site. The groundwater plume definition program included drilling sixteen (16) soil borings between November 28 and December 1, 1995 and an additional twenty-four (24) borings March 25-29, 1996 and chemical analysis of all collected groundwater samples. Also included in this report are physical characteristics test results of soil samples which were collected during the drilling of MW-4, on August 31, 1995. Concurrent with the SWI, a Quarterly Monitoring Program (QMP) was initiated on July 6, 1995 and has been maintained to present including quarterly sampling and monthly gauging of on-site monitoring wells MW-1, MW-2, and MW-3, and maintenance of a passive skimmer system at MW-4.

This report was written by Mr. Tom Price, ETM Project Manager and Mr. Thomas Sparrowe, California Registered Geologist and ETM Associate, and presents the results of this soil and groundwater sampling investigation, descriptions of field work and sampling procedures, boring logs, maps, laboratory reports, and chain-of-custody documentation, and an evaluation of sampling data and recommendations for further environmental activities.

III. 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.** The locations of all sampling locations for the SWI are included on the greater vicinity map (**Figure 3**). 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:

- *First Quarter 1996 Environmental Activities Report*
  (Environmental Testing and Management, May 20, 1996)
- *Fourth Quarter 1995 Environmental Activities Report*
  (Environmental Testing and Management, February 26, 1996)
- *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)

IV. INVESTIGATION HIGHLIGHTS FOR THE SOIL AND WATER INVESTIGATION (SWI)

Investigation highlights related to this SWI and not presented in detail as part of the QMP reporting include:

- **August 31, 1995** - Groundwater monitoring well MW-4 was installed in the former underground storage tank (UST) area for immediate source removal. For a detailed description of the installation procedures of MW-4, please refer to the Third Quarter 1995 Environmental

Activities Report, referenced above. Eight (8) soil samples were collected in the process of drilling MW-4 and were submitted to Earth Systems Consultants, Northern California of Fremont, California for testing their physical characteristics.

- **November 10, 1995** - The City of San Leandro issued ETM an encroachment permit for drilling three (3) soil borings on Garcia Avenue. This permit is included in **Appendix A**.
- **November 16, 1995** - Zone 7 Water District issued ETM a drilling permit for 18 soil borings. This permit is included in **Appendix B**.
- **November 17, 1995** - Norcal Underground Locating cleared the locations of proposed soil borings for the pending SWI.
- **November 28-29, 1995** - Environmental Control Associates drilled soil borings ETM-1 through ETM-7. Continuous and discreet interval soil samples were collected and soils observed for lithology and screened with a hand-held PID. Grab groundwater samples were collected at each location with the exception of ETM-6 which was terminated and dry at 29.0'. Selected soil samples and all groundwater samples were submitted for chemical analysis.
- **November 30 - December 1, 1995** - ETM drilled soil borings ETM-8 through ETM-15. Groundwater samples were collected at all locations except ETM-8 and submitted for chemical analysis. ETM-8 was a dry hole which was left open pending grouting. Soil samples were collected at 5' intervals at ETM-10 for lithologic description of soil types.
- **December 8, 1995** - ETM gauged ETM-8 and discovered that groundwater had risen into the boring and a groundwater sample was successfully collected and submitted for chemical analysis.
- **March 5, 1996** - The City of San Leandro issued ETM an encroachment permit for drilling three (3) soil borings on West Broadmoor. This permit is included in **Appendix A**.
- **March 11, 1996** - Norcal Underground Locating cleared the locations of proposed soil borings for the continued SWI.
- **March 21, 1996** - Zone 7 Water District issued ETM a drilling permit for 18 additional soil borings. This permit is included in **Appendix B**.

- **March 25, 1996** - ETM drilled soil borings ETM-17 through ETM-20. Groundwater samples were collected at each location and submitted for chemical analysis.
- **March 26, 1996** - ETM drilled soil borings ETM-21 through ETM-25. Groundwater samples were collected at each location and submitted for chemical analysis. The City of San Leandro issued ETM an encroachment permit for drilling two (2) additional soil borings on West Broadmoor. This permit is included in **Appendix A**.
- **March 27, 1996** - ETM drilled soil borings ETM-26 through ETM-30. Groundwater samples were collected at each location and submitted for chemical analysis.
- **March 28, 1996** - Norcal Underground Locating cleared additional boring locations and ETM drilled soil borings ETM-31 through ETM-36. While canvassing the neighborhood to secure access for additional soil boring locations on private properties, a 6" diameter irrigation well was located at 141 Farrelly Drive (**Figure 3**).
- **March 29, 1996** - Norcal Underground Locating cleared additional boring locations and ETM drilled soil borings ETM-37 through ETM-40. At location ETM-38, approximately 6" of floating pale yellow gasoline product was encountered, approximately 115 feet southeast of the well located at 141 Farrelly Drive. The ACDEH was notified immediately and asked to attend a pre-arranged meeting with Mr. Mitch Ramirez, the owner of the residence located at 141 Farrelly Drive. Ms. Juliet Shin, Senior Hazardous Materials Specialist for ACDEH, and Mr. Paul King, Registered Geologist for P & D Environmental, attended the meeting. The depth to groundwater was gauged to be approximately 19.1 feet below ground surface and the bottom of the well was gauged at a depth of approximately 64.8 feet below the ground surface. Ms. Shin asked Mr. Ramirez to refrain from using his well and asked ETM to collect a sample from the well and submit the sample for chemical analysis.
- **April 6, 1996** - ETM collected a groundwater sample with a small diameter bailer from the well at 141 Farrelly Drive after Mr. Ramirez purged 250 gallons from the well with his pumping system. Purged water was collected in 55-gallon steel Department of Transportation (DOT)

approved drums and transported to German Autocraft for storage pending disposition based on the laboratory results.

V. LOCAL GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

ETM drilled 40 probe holes to collect groundwater samples that defined the limits of the dissolved hydrocarbons (plume) in emanating from the former UST area. Eleven (11) of the forty (40) probes were logged for lithologic description to determine vertical and horizontal distribution of subsurface deposits in the area. The boring logs are included in **Appendix C**. The soil material overlying the shallow aquifer generally consist of moderate to low plasticity sandy and silty clays (CL/CH) with occasional discontinuous lenses of sandy silt (ML). The thickness of this uppermost unit is approximately 24 feet in the former UST area and approximately 30 feet thick in borings drilled in the W. Broadmoor Street area.

Underlying the upper clayey unit are aquifer materials consisting of a poorly-graded sand (SP) with varying amounts of silt and clay and a well-graded sand (SW) with fine grained gravel. Only three (3) the eleven (11) borings were advanced through the aquifer material to determine its thickness and to ascertain the composition of the underlying confining (aquitard) material. Borings MW-2 and MW-3, drilled in December 1994, encountered a low plasticity sandy clay (CL) at a depth of approximately 34 feet that graded into a high plasticity silty clay (CH) at approximately 36.5 feet. Boring ETM-1 encountered a low plasticity sandy clay (CL) at a depth of approximately 34 feet that graded into a high plasticity silty clay (CH) at approximately 36 feet.

The soil borings completed during this investigation have not extended more than 38 feet below ground surface and penetration refusal or bedrock were not encountered. Schematic cross-sections, based on logs of soil and well borings, are presented in **Figures 4** and **5**.

The former UST excavation has been partially filled and the soil backfill material is exposed to the elements. The resulting depression contains poorly compacted low plasticity clays (CL) and clayey sands (SC) that are permeable to any rainfall and surface runoff that enters the depression and is a source of groundwater recharge. The groundwater flow during this period has been consistently in a southwesterly direction at a nearly flat gradient (approximately 0.001 - 0.003 ft/ft). The low gradient may in part be due to this recharge "basin". The gradient is so low that an off-site monitoring well network should be installed to obtain a more accurate model of groundwater flow direction in the area.

VI. PHYSICAL TEST RESULTS OF SOIL SAMPLES

Soil samples of each representative soil type in the former UST area were collected during the drilling and installation of MW-4 to analyze their physical properties for evaluation of appropriate soil and/or groundwater remediation methods. The reports of physical testing conducted by Earth Systems Consultants are presented in **Appendix D**.

A sample of the backfill material for the former UST excavation was collected at a depth of 6 feet. The soil was classified as a loose silty sand with minor gravel, had a dry density of 103.1 lbs/ft^3, moisture content of 12.7%, and a vertical hydraulic conductivity of 3.18×10^{-5} ft/sec.

A representative sample of the native soil material underlying the former UST excavation and above the shallow aquifer was collected at a depth of 11 feet. The soil was classified as a clayey silt with minor sand, had a dry density of 115.1 lbs/ft^3, moisture content of 18.7%, and a vertical hydraulic conductivity of 1.07×10^{-9} ft/sec.

Aquifer material below the former UST was collected at a depth of 31 feet. The soil was classified as a well-graded gravely sand with trace clay, had a dry density of 127.6 lbs/ft^3, moisture content of 10.5%, and a vertical hydraulic conductivity of 2.06×10^{-7} ft/sec.

A sample of the aquiclude material below the aquifer was collected at a depth of 36 feet. The soil was classified as a clayey silt with minor sand, had a dry density of 104.5 lbs/ft^3, moisture content of 21.9%, and a vertical hydraulic conductivity of 2.15 x 10^{-9} ft/sec.

VII. CHEMICAL TEST RESULTS OF SOIL SAMPLES

The chemical test results for selected samples collected from several soil borings drilled on the Site are presented in **Table 1** and are discussed below. A copy of the laboratory sheets are included in **Appendix E.**

Boring ETM-1, located at the southwest corner of E. 14th and Garcia, contained low concentrations of TPHg and benzene (8.4 µg/kg and 0.029 µg/kg) starting at a depth of approximately 21 feet that increased to 370 µg/kg and 9.6µg/kg at 25 feet. These results indicate that the TPHg released from the former tanks have dissipated laterally from the former tank excavation and has affected the surrounding soil.

Conversely, soil samples collected directly above the aquifer in ETM-2 and ETM-7 had faint petroleum odors (PID reading 10-40 ppm) and contained low concentrations of TPHg at 0.54 to 1.1 µg/kg and benzene at 0.019 to 0.026 µg/kg. In these areas the vertical transpiration (off-gassing) of TPHg from the underlying groundwater plume has introduced contamination into the unsaturated soil.

VIII. CHEMICAL TEST RESULTS OF GROUNDWATER SAMPLES

To define the limits of the dissolved hydrocarbons (plume) coming from the former on-site UST area, ETM collected and analyzed over 40 grab groundwater samples. The location and distribution of groundwater sampling points is shown on **Figure 3**. The results of the sampling program show a

contamination plume migrating off site in a northwesterly direction across Garcia toward W. Broadmoor (**Figure 6**). A isoconcentration contour map of benzene levels in groundwater shows two separate areas of elevated concentrations, one in the former USTs area and the second on the north side of W. Broadmoor (**Figure 7**). The two plumes commingle in the area between apartments located south of W. Broadmoor and north Garcia, approximately 240 feet northwest of the Site.

During our previous investigation (CE, 1995), soil underlying the uncapped former UST was found to contain appreciable amounts of hydrocarbon contamination that has negatively impacted the shallow aquifer. Groundwater samples collected in the former UST area contained concentrations of benzene ranging from 18 to 20,000 µg/L and exhibited approximately 1/4" of brownish amber free phase product ("free product") floating on the groundwater. The free product is consistent with weathered gasoline that has been in the ground for some time.

The second area, centered on W. Broadmoor, contains anomalously high concentrations of benzene that range from 19 to 4,000,000 µg/L. Borings ETM-37 and 38 encountered approximately 1/8" and 6", respectively, of very light yellow free product floating on the groundwater and appeared to be fresh gasoline. Methyl-tert-butyl-ether (MtBE) was detected in five (5) samples (ETM-17, 18, 28, 30 and 32) collected in the W. Broadmoor area at concentrations ranging from 8.9 to 670 µg/L. MtBE is a fuel additive which has found widespread use subsequent to the promulgation of the Clean Air Act of 1990. This data indicates that a second petroleum hydrocarbon release was discovered during the investigation. Since MtBE was found in some of the samples, it appears that this fuel release is more recent than the German Autocraft fuel release. The most likely source of the W. Broadmoor plume is the Beacon Gasoline Station located on the southwest corner of East 14th Street and Farrelly Drive (**Figure 3**). A map with chemical test results for gasoline, benzene, and MtBE is presented on **Figure 6**.

Due to access restrictions, the northwest limits of the W. Broadmoor plume could not be determined. A door-to-door survey of adjacent residential properties uncovered a private irrigation well located at 141 Farrelly Drive. Permission was granted to obtain groundwater samples from the well. Analysis of water samples from the well were below the detection levels for TPHg, BTEX and MtBE. As part of the sampling activities, the depth to groundwater was gauged to be approximately 19.1 feet below ground surface and the depth of well was gauged at approximately 64.8 feet below the ground surface suggesting the well might be screened in a deeper aquifer. The deeper aquifer does not appear to have been affected by the hydrocarbon contamination found in the shallow aquifer. Since further definition of the W. Broadmoor plume was beyond our scope of work, our field investigative activities in this area were terminated.

As part of our analytical program, sample ETM-13 was also submitted for analysis of chlorinated solvents due to the close proximity of the sampling location to a dry cleaning business (Sunshine Cleaners located at 223 East 14th). The test results detected 540 µg/L of tetrachloroethene in the sample. Laboratory chromatograms of groundwater samples ETM-21, ETM-25, and ETM-26 showed a "discrete peak not indicative of gasoline". Samples ETM-25 and ETM-26 were also collected near the above referenced dry cleaning facility and the "discrete peak not indicative of gasoline" (retention times: approximately 7.0 minutes according to Simon Hague of Inchcape Testing Services, telephone interview, July 3, 1996) for these samples is likely due to tetrachloroethene in groundwater. Sample ETM-21 (and duplicate sample ETM-43) was found to contain an unknown chemical (chromatogram retention time approximately 3.5 minutes according to Simon Hague of Inchcape Testing Services, telephone interview, July 3, 1996). Sample ETM-21 was collected at the Viking Liquor Store property which is contiguous to the German Autocraft property, southeast (up-gradient) of the Site. The concentrations reported for samples ETM-21, ETM-25, and ETM-26 were reported by the laboratory "as gasoline".

The groundwater sampling procedures employed in this investigation are presented in **Appendix F**. All of the grab groundwater samples were analyzed for TPHg and BTEX using EPA Method 5030 and 8020 by Inchcape Testing Services of San Jose, California. All chemical test reports and chain-of-custody documents are included in **Appendix E.** The quality assurance/quality control description is included in **Appendix G**. Laboratory test results for groundwater samples are tabulated on **Table 2.**

IX. CONCLUSIONS

Accumulated data lead us to conclude that four (4) distinct chemical plumes are present in groundwater surveyed in this investigation. Two plumes are from petroleum hydrocarbon releases from two different sources: (1) a "weathered" gasoline plume that originated at the former UST area on the German Autocraft property and extends approximately 240 feet to the northwest; (2) a "fresh" gasoline plume encountered on W. Broadmoor that may have originated from Beacon Gasoline Station and extends approximately 320 feet southwest of that gas station; (3) a small plume of tetrachloroethene (sampling locations ETM-13, ETM-25 and ETM-26, **Figures 3** and **6**) emanating from Sunshine Cleaners located at 223 East 14th Street, approximately 240 feet northwest of the Site corroborating the findings of a solvent release related soil investigation presented in **Appendix H**, and; (4) a plume of an unknown chemical (sampling location ETM-21, **Figures 3** and **6**) located at the Viking Liquor Store property, adjacent to and southeast (up-gradient) of the Site, source unknown.

During our previous investigation (CE, 1995), soil underlying the former UST the excavation was found to contain TPHg was measured at 1,600 mg/kg, benzene at 7.1 mg/kg, toluene at 75 mg/kg, ethyl benzene at 41 mg/kg, and total xylenes at 170 mg/kg. Surface water percolating through this source material transport contaminants that has negatively impacted the shallow underlying aquifer.

The former UST excavation should be backfilled with engineered fill and capped with an impermeable barrier such as asphalt.

Since December 1994, the on site wells have shown groundwater flow in a southwesterly direction at a gradient of approximately 0.001 - 0.003 ft/ft. However, qualitative analysis of groundwater samples definitively show the hydrocarbon plume extending approximately 240 feet northwest from Site. Therefore, an off site monitoring well network should be installed to obtain a more accurate model of groundwater quality and flow direction data for the area.

X. RECOMMENDATIONS

Based on the findings of the SWI, we make the following recommendations:

1. In light of recent developments in addressing corrective actions for UST leaks to the environment, a risk-based corrective action (RBCA) should be conducted on the Site. The RBCA process would do the following:

- base decisions on reducing to appropriate levels the risk of harmful human or environmental impacts
- focus site assessment activities on collecting information to make risk-based corrective action decisions
- focus limited resources toward site that pose the greatest risk
- find the most economical remediation option that has a high probability of achieving the negotiated degree of exposure and risk reduction
- evaluate compliance "relative to site-specific standards applied at site-specific points of compliance"

2. As part of the RBCA, a corrective action plan (CAP) should be developed for immediate source removal. This plan should be based on an evaluation of remediation techniques e.g. excavation or vapor extraction, and address filling and capping the former UST excavation.

3. An off site monitoring well network consisting of 2-4 monitoring wells should be installed to obtain a accurate model of groundwater flow direction in the area. At a minimum, one well should be located upgradient (southeast) of the Site and one downgradient (northwest) of the Site. In addition the wells can be used for groundwater qualitative analysis to determine if the plume is migrating away from the Site and if natural biodegradation of the contaminants is occurring.

4. Groundwater levels should continue to be monitored on a monthly basis and water quality in the monitoring wells continue to be monitored on a quarterly basis to comply with the ACDEH requirements, and to assess trends in constituent concentrations over time. This monitoring program should be expanded to include any new wells as they are installed.

5. Groundwater cleanup techniques should be evaluated, however, the initiation of a cleanup program is complicated by the other chemical plumes identified in groundwater around the Site as a result of this investigation. A program for groundwater cleanup would require input from the ACDEH concerning other responsible parties.

XI. 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.

TABLE 1. SOIL CHEMICAL TEST RESULTS

EPA Method 5030/8020

Units: mg/Kg

LOCATION	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
ETM-1-22	8.4	0.029	<0.005	0.055	0.067
ETM-1-24	76	0.82	1.8	2.8	3.8
ETM-1-25.5	370	9.6	10	11	18
ETM-1-17	16	<0.005	<0.005	<0.005	<0.005
ETM-2-22	0.54	0.026	<0.005	0.012	0.01
ETM-7-23	<0.5	<0.005	<0.005	<0.005	0.011
ETM-7-26	1.1	0.019	0.017	0.029	0.036

TABLE 2. GROUNDWATER CHEMICAL TEST RESULTS

EPA Method 8015/8020

Units: µg/L

LOCATION	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE
ETM-1	110,000	1,600	2,200	4,000	5,900	N/A[1]
ETM-1[2]	410,000	2.300	1,800	10,000	37,000	N/A
ETM-2	140,000	1,700	2,300	6,200	16,000	N/A
ETM-3	6,200	47	110	130	120	N/A
ETM-4	1,200,000	12,000	24,000	25,000	94,000	N/A
ETM-5	170	<0.5	<0.5	<0.5	1.4	N/A
ETM-5[3]	170	<0.5	<0.5	<0.5	2.0	N/A
ETM-7	160,000	1,500	1,800	3,700	4,500	N/A
ETM-8[4]	1,300	18	24	37	36	N/A
ETM-9	2,500	22	36	68	45	N/A
ETM-9[5]	1,900	18	32	57	45	N/A
ETM-10	<50	<0.5	<0.5	<0.5	1.0	N/A
ETM-11	<50	<0.5	<0.5	<0.5	<0.5	N/A
ETM-11[6]	<50	<0.5	<0.5	<0.5	<0.5	N/A

[1]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 were analyzed in December 1995 and pre-date the recent new requirement.

[2]This sample was labeled ETM-30 and submitted to the laboratory as a blind duplicate.

[3]This sample was labeled ETM-31 and submitted to the laboratory as a blind duplicate.

[4]This sample was collected on 12/8/95, one week after the boring was created. The on-site boring was covered with a drum on 12/1/95 pending grouting due lack of supplies. Prior to grouting, the boring was gauged and groundwater was found to have entered the boring. A sample was collected prior to grouting. The sample was erroneously labeled ETM-7 as shown on the chain of custody and submitted for analysis. The identity of this sample has been changed to ETM-8 here to reflect the logical sequence of the samples collected during the investigation.

[5]This sample was labeled ETM-32 and submitted to the laboratory as a blind duplicate.

[6]This sample was labeled ETM-33 and submitted to the laboratory as a blind duplicate.

LOCATION	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE
ETM-12	200	5.9	3.9	3.0	44	N/A
ETM-13[7]	220	<0.5	<0.5	<0.5	<0.5	N/A
ETM-14	120,000	930	2,000	6,200	22,000	N/A
ETM-15	<50	<0.5	<0.5	<0.5	1.0	N/A
ETM-17	12,000	430	98	1,400	270	360
ETM-17[8]	15,000	650	190	1,600	320	670
ETM-18	2,600	19	5	93	100	84
ETM-19	<50	<0.5	<0.5	<0.5	<0.5	<5
ETM-20	700,000	7,300	10,000	1,500	3,500	<12,500
ETM-21[9]	70	<0.5	0.5	<0.5	1.4	<5
ETM-21[10]	130	<0.5	<0.5	<0.5	0.6	<5
ETM-22	<50	<0.5	<0.5	<0.5	<0.5	<5
ETM-23	22,000	470	<50	960	1,200	<500
ETM-24	3,700	18	170	190	140	80
ETM-25[11]	760	0.8	<0.5	<0.5	<0.5	<5
ETM-26[12]	180	<0.5	<0.5	<0.5	<0.5	<5

[7]The laboratory issued the following comment: "The concentration reported as gasoline for sample ETM-13 is primarily due to the presence of a discrete peak not indicative of gasoline." The sample was also submitted for EPA Method 8010 due to the immediate proximity of a dry cleaning business to the sampling location. The analysis indicates a concentration of 530 µg/L tetrachloroethene in the sample.

[8]This sample was labeled "ETM-42" and submitted to the laboratory as a blind duplicate of ETM-17.

[9]The laboratory issued the following comment regarding this sample: "The concentration reported as gasoline for samples ETM-21, ETM-25, ETM-26, and ETM-44 (duplicate of ETM-26) primarily due to the presence of a discrete peak not indicative of gasoline."

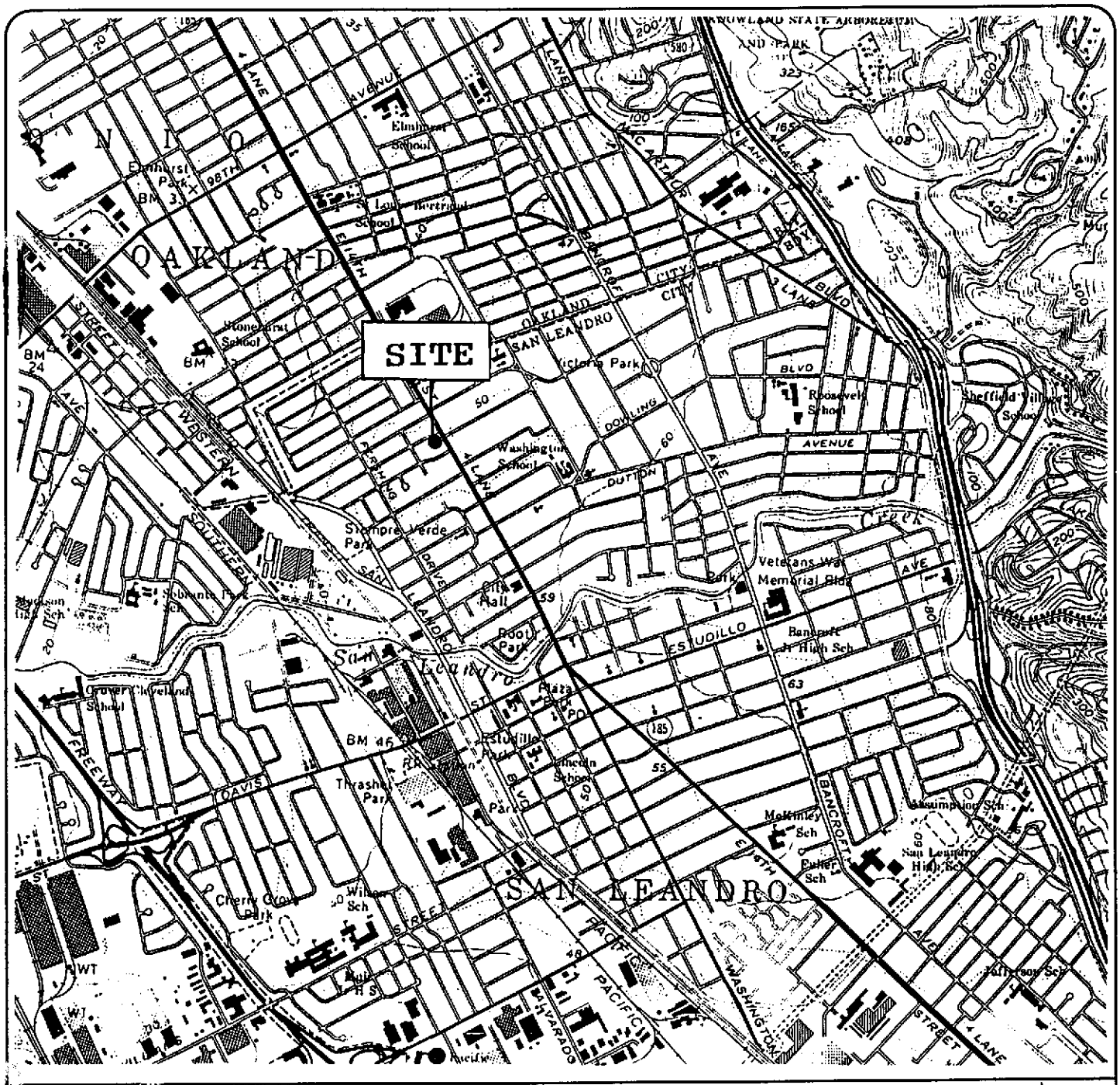
[10]This sample was labeled "ETM-43" and submitted to the laboratory as a blind duplicate of ETM-21. The laboratory issued the following comment regarding this sample: "The concentration reported as gasoline for sample ETM-43 is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline."

[11] Refer to footnote 9.

[12]Refer to footnote 9.

LOCATION	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MtBE
ETM-26[13]	170	<0.5	<0.5	<0.5	<0.5	<5
ETM-27	6,000	97	120	68	34	<250
ETM-28	540	32	3	4	2	13
ETM-29	35,000	880	640	2,300	6,900	1,200
ETM-30	7,500	410	96	530	690	230
ETM-31	600	21	7	7	6	<25
ETM-32	510	60	7	8	11	10
ETM-32[14]	430	56	5	9	11	9
ETM-33	<50	<0.5	<0.5	<0.5	<0.5	<5
ETM-34	<50	<0.5	<0.5	<0.5	1	<5
ETM-35[15]	70	1	<0.5	<0.5	<0.5	<5
ETM-36	<50	1	<0.5	<0.5	1	<5
ETM-37	370,000	2,000	1,400	3,400	5,100	4,000
ETM-38[16]	840,000,000	4,000,000	7,800,000	11,000,000	39,000,000	13,000,000
ETM-39	<50	<0.5	<0.5	<0.5	1.3	<5
ETM-40	<50	<0.5	<0.5	<0.5	1	<5
141 Farrelly	<50	<0.5	<0.5	<0.5	<0.5	<5

[13]This sample was labeled "ETM-44" and submitted to the laboratory as a blind duplicate of ETM-26. Also, refer to footnote 9.
[14]This sample was labeled "ETM-45" and submitted to the laboratory as a blind duplicate of ETM-32.
[15]The laboratory issued the following comment regarding this sample: "The concentration reported as gasoline for sample ETM-35 is due to the presence of a discrete peak not indicative of gasoline."
[16]Six inches of yellow floating gasoline product was observed at this location.

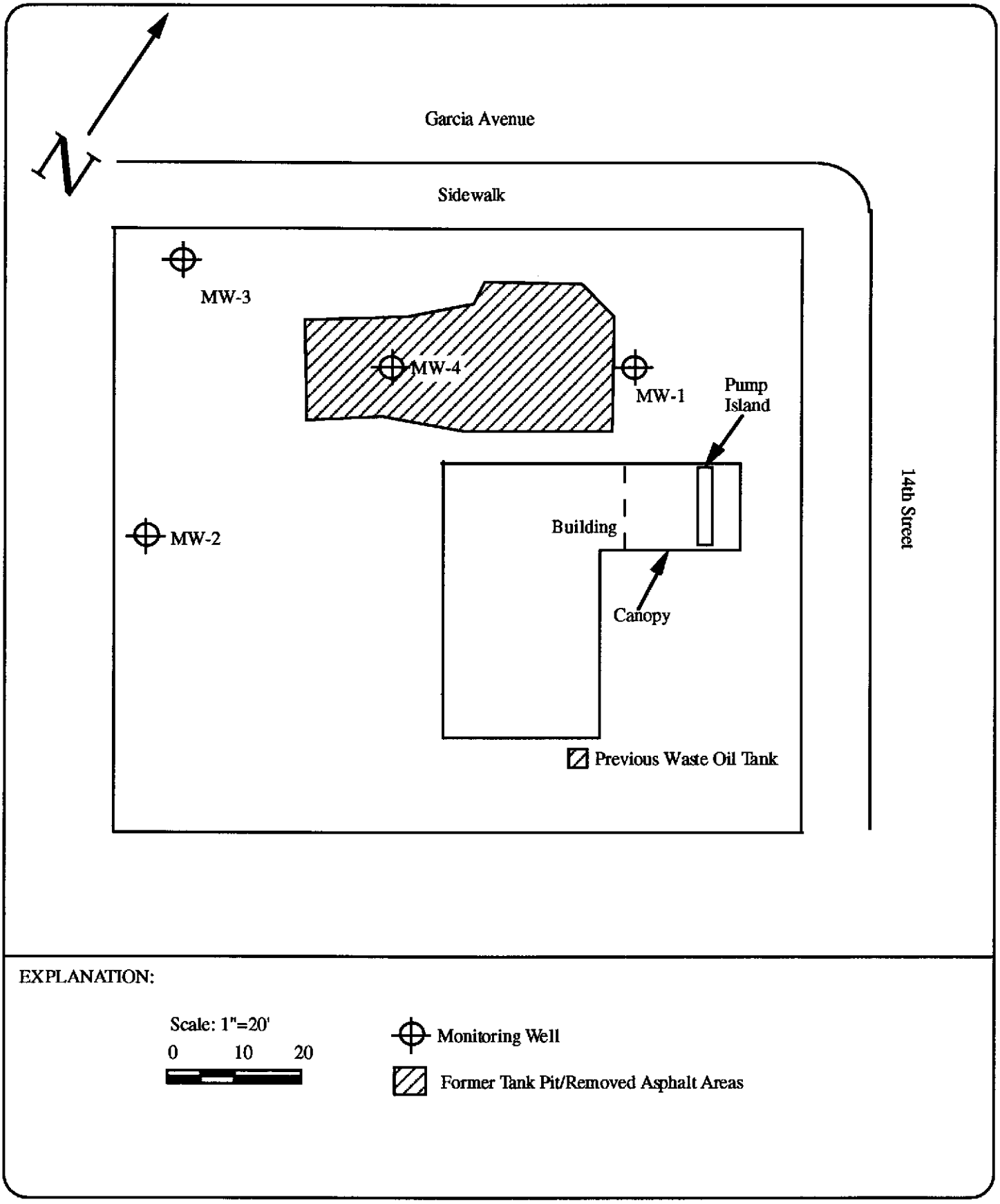


ENVIRONMENTAL TESTING AND MANAGEMENT
2916 MAGLIOCCO DRIVE #2
SAN JOSE, CALIFORNIA 95128

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

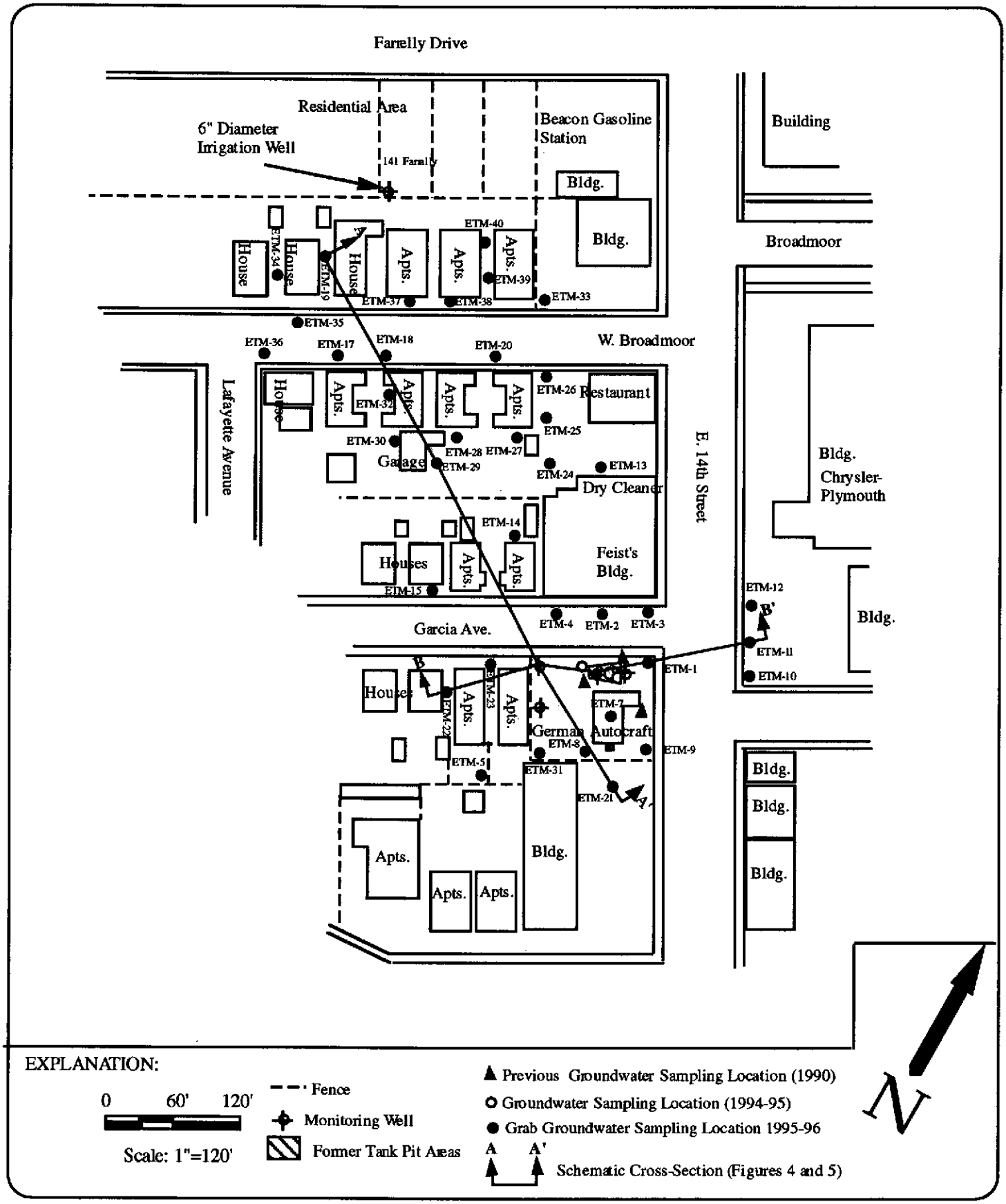
Former Tank Pit/Removed Asphalt Areas

ENVIRONMENTAL TESTING & MGMT.
2916 MAGLIOCCO DRIVE #2
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



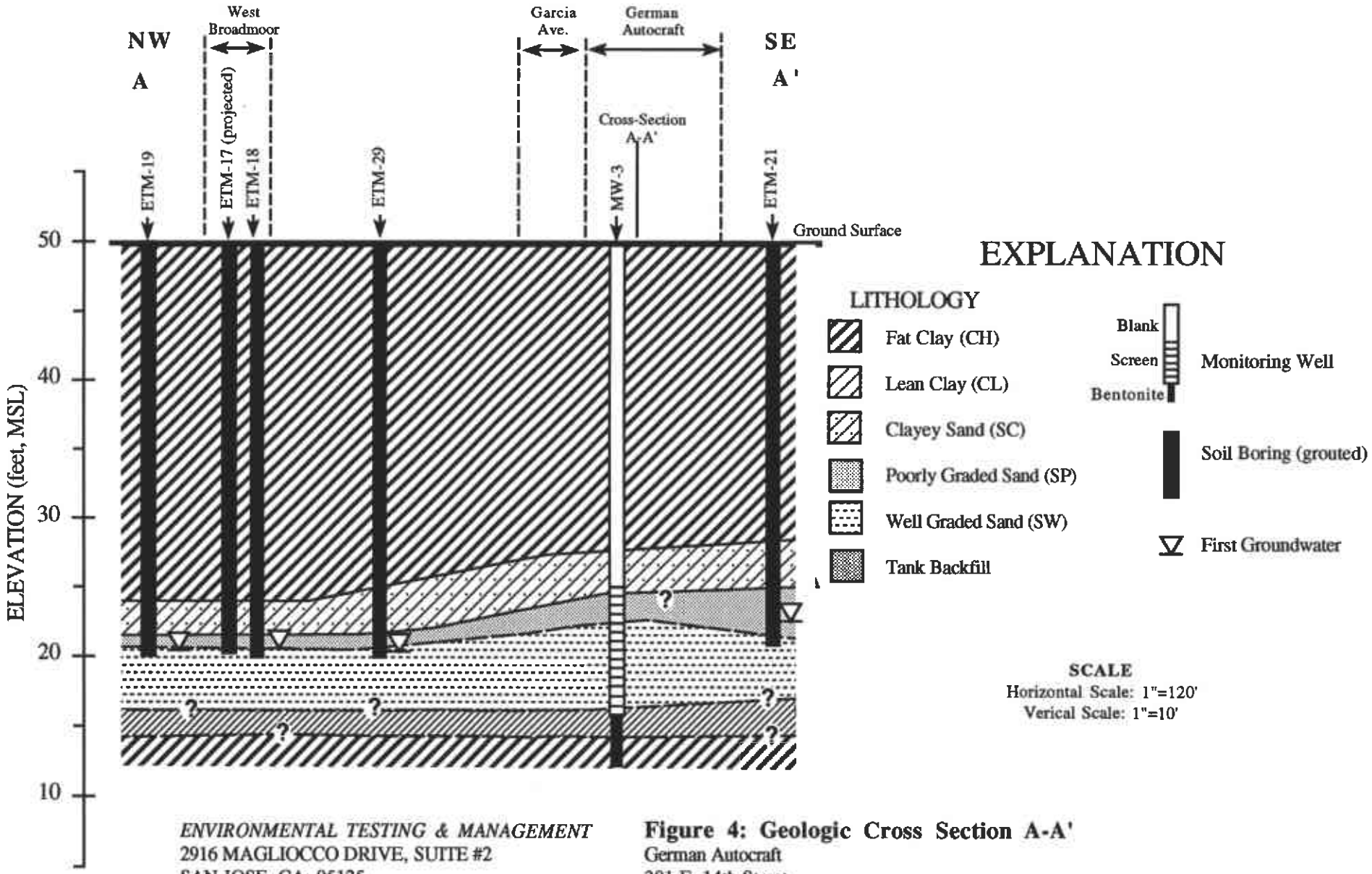
Environmental Testing
and Management
2916 Magliocco #2
San Jose, California

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

Figure 3

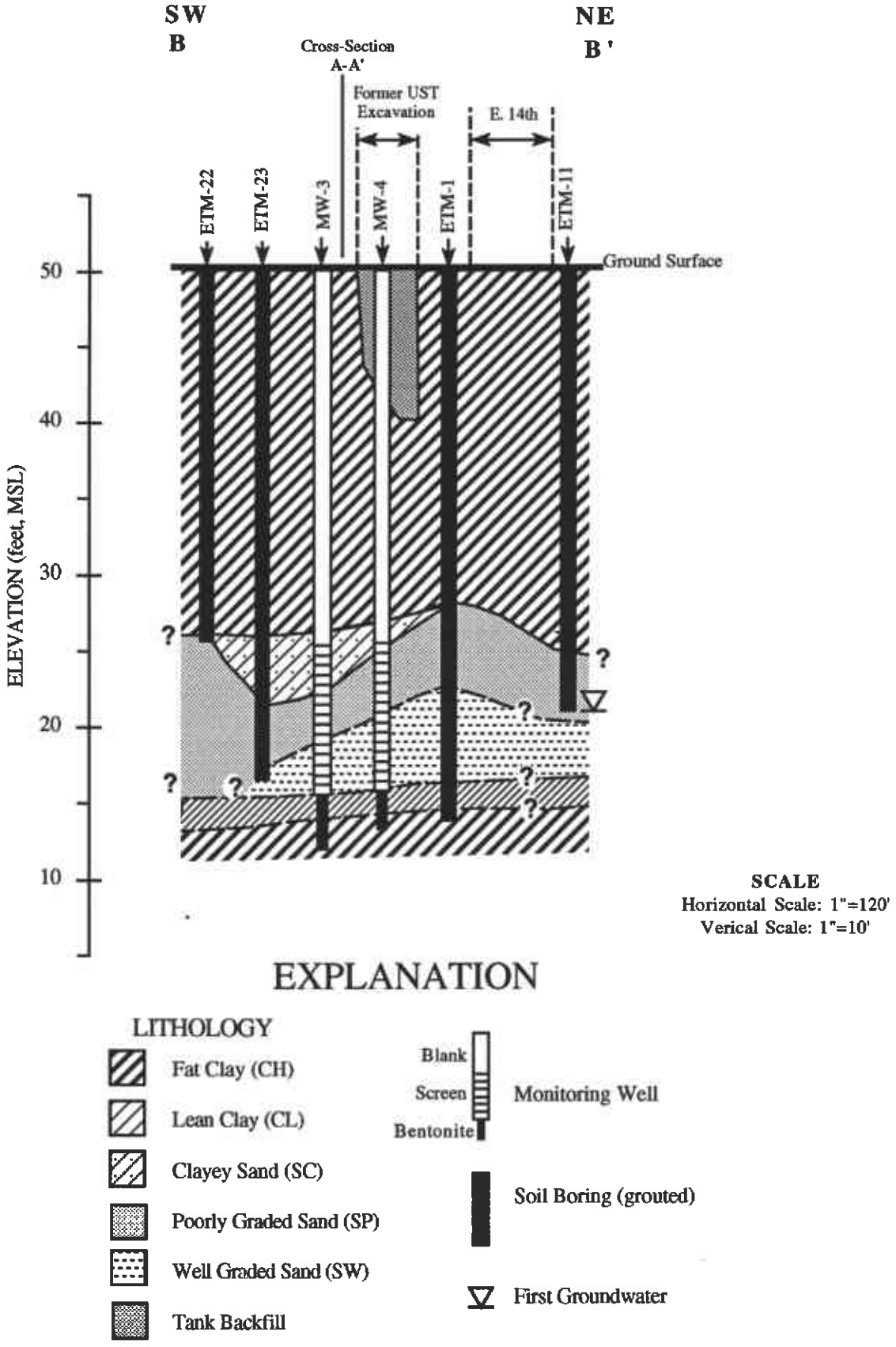
Project No.
94-52
Date: 7/96

SCHEMATIC CROSS-SECTION A-A'



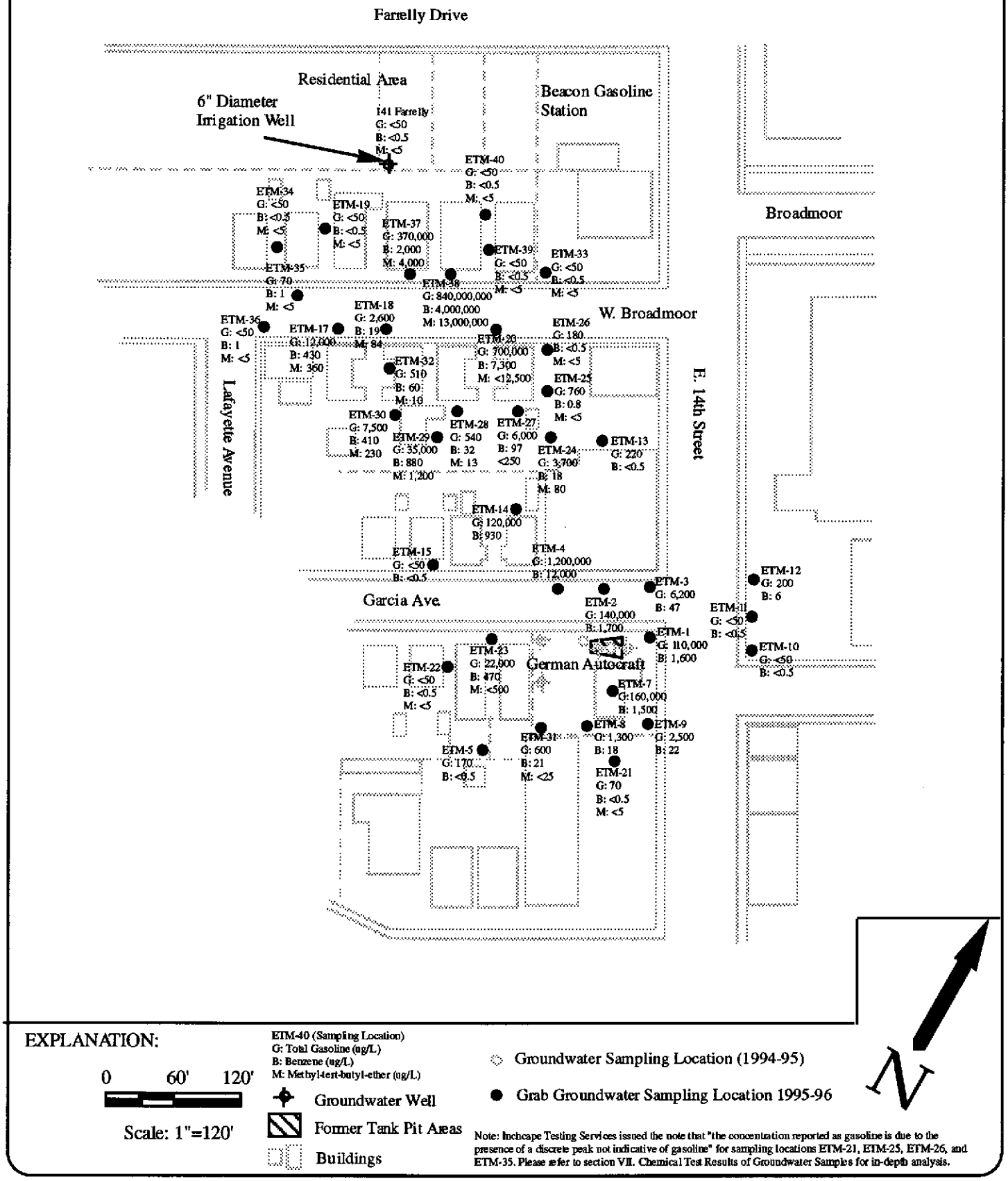
ENVIRONMENTAL TESTING & MANAGEMENT
2916 MAGLIOCCO DRIVE, SUITE #2
SAN JOSE, CA 95125

Figure 4: Geologic Cross Section A-A'
German Autocraft
301 E. 14th Street
San Leandro, California



ENVIRONMENTAL TESTING & MANAGEMENT
2916 MAGLIOCCO DRIVE, SUITE #2
SAN JOSE, CA 95125

Figure 5: Geologic Cross Section B-B'
German Autocraft
301 E. 14th Street
San Leandro, California



EXPLANATION:

0 60' 120'

Scale: 1"=120'

ETM-40 (Sampling Location)
G: Total Gasoline (ug/L)
B: Benzene (ug/L)
M: Methyl-tert-butyl-ether (ug/L)

Groundwater Well

Former Tank Pit Areas

Buildings

Groundwater Sampling Location (1994-95)

Grab Groundwater Sampling Location 1995-96

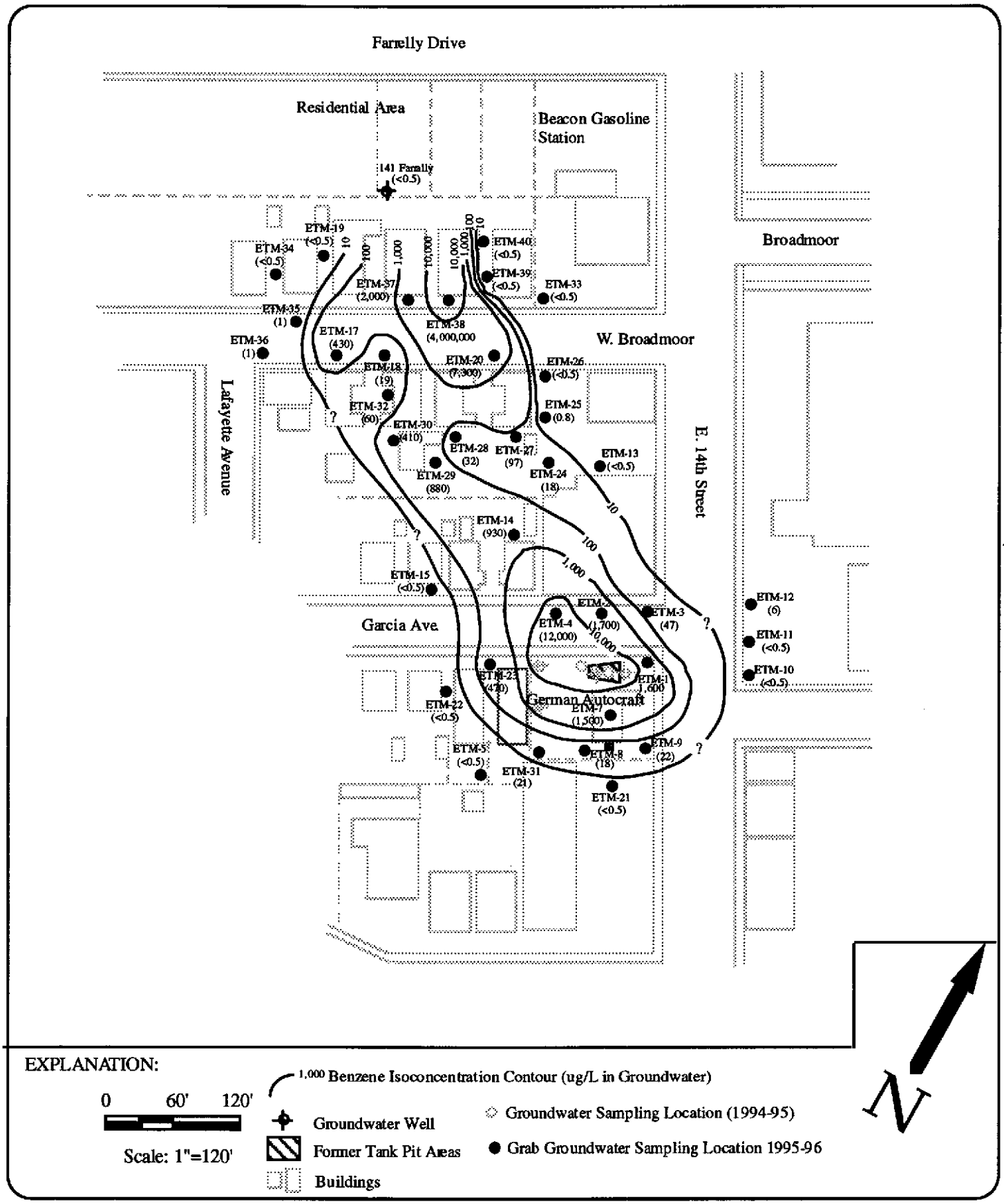
Note: Inchcape Testing Services issued the note that "the concentration reported as gasoline is due to the presence of a discrete peak not indicative of gasoline" for sampling locations ETM-21, ETM-25, ETM-26, and ETM-35. Please refer to section VII. Chemical Test Results of Groundwater Samples for in-depth analysis.

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

CHEMICAL TEST RESULTS MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 6

Project No.
94-52
Date: 7/96



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

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

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

Figure 7

Project No. 94-52
Date: 7/96

JUN-22-95 THU 09:04 SAN LEANDRO-ENG/TRANS FAX NO. 5105773294 P.02

Service No.

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

95261
Permit Number

NOV. 10, 1995
Date Approved

Work Site: 301 E 14th St. San Leandro and Vicinity/see attached map

Applicant: Name Environmental Testing & Mgmt. Address 2916 Maglocco Drive #2 Tel. (408) 248 5892

Owner: Name Tom Price Address 2916 Maglocco Drive #2 Tel (408) 248 5892

Purpose of Permit:

☐ Utility ☒ Street Excavation (Soil boring) ☐ Curb, Gutter Sidewalk, Driveway ☒ Other Soil and Groundwater Investigation (Fuel Leak)

Detailed Description and Dimensions of Work: 2" diameter borings to 25' for hydropunch or grab groundwater sampling

Plan Submitted: Yes V No ____ (via Vicinity map)

Date Work to be Started: 12/1/95 OR TBA

Building Permit No. N/A

Ora Loma Permit No. N/A

Profile Submitted: Yes ____ No ____

Date Work To Be Completed By: SAMEDAY

State Encroachment Permit No. N/A

Alameda County Flood Control Permit No. 95482

Compliance with State Labor Code: In accordance with Section 3800.

☒ Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.

☒ Consultant is hiring licensed driller for drilling in street
Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

☒ DRILLER Applicant has State License No. 695970, Class C57 in full force and effect. (DRILLER: ENVIRONMENTAL CONTROL ASSOCIATES)

☒ Applicant is exempt from the State Contractor's License Law for the following reason(s): DRILLER MAINTAINS WORKERS COMP. INSURANCE

RECEIVED
CITY OF SAN LEANDRO

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signed: Tom Price Proj. Mgr. Date: 9/1/95

PLEASE CALL 577-2708 FOR INSPECTIONS 24 HRS (DA SILVA)

SPECIAL PROVISIONS

Backfill Required AS PER CITY OF SAN LEANDRO STD

Pavement Section Required MONITORING WELLS DETAILS

Minimum Depth of Cover

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

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Chrgd.

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side: ____

TOTAL HOURS CHARGED: ____

FEES

PERMIT FEE: $ 275.00 TO ACCT #3306

RESTORE/INSPECT DEPOSIT: ____ TO CK#____

STREET CUT FEE: ____ TO ACCT #3304

TOTAL: ____

☒ All charges collected at permit issuance

☐ All charges to be billed to

CK#____

Rev. Date 8/91

JUN-22-95 THU 09:04 SAN LEANDRO-ENG/TRANS FAX NO. 5105773294

Service No. _____

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

Permit Number 96072

Date Approved MAR. 5, 1996

Work Site: 301 E 14th St. San Leandro Vicinity - See attached map

Applicant: Name Environmental Testing & Mgmt. Address 2916 Magliocco Dr. # 2 San Jose 95128 Tel (408) 248-5805

Owner: Name Tom Price Address 2916 Magliocco Dr. # 2 San Jose 95128 Tel (408) 248-5805

Purpose of Permit:

☐ Utility ☒ Street ~~Excavation~~ soil boring ☐ Curb, Gutter Sidewalk, Driveway ☒ Other Environmental Sampling Investigation

Detailed Description and Dimensions of Work: Soil boing advanced with pneumatic pounder to groundwate @ ~35' sample groundwater with micro-bailers. Borings 2" in diameter grouted from bottom up at end of day.

Plan Submitted: Yes ✓ No ____ Profile Submitted: Yes ____ No ____

Date Work to be Started: 3/12/96 Date Work To Be Completed By: 3/12/96

Building Permit No. N/A State Encroachment Permit No. N/A

Oro Loma Permit No. N/A Alameda County Flood Control Permit No. TBA

Compliance with State Labor Code: In accordance with Section 3800.

☐ Applicant has on file, with the City of San Leandro, evidence that Workman's compensation insurance is carried.

☒ Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

☒ Applicant has State License No. 716002, Class A in full force and effect.

☐ Applicant is exempt from the State Contractor's License Law for the following reason(s): _____

RECEIVED
SAN LEANDRO
MAR 05 1996

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signed: Tom Price Project Mgr. Date: 3/2/96

PLEASE CALL 577-2708 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required PER GENERAL PROVISIONS

Pavement Section Required (SEE BACK)

Minimum Depth of Cover _____

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

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUED FOR CITY ENGINEER

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Chrgd.

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

FEES

PERMIT FEE: 50.00 TO ACCT #3306

RESTORE/INSPECT DEPOSIT: 225.00 TO CN# _____

STREET CUT FEE: _____ TO ACCT #3304

TOTAL: 275.00

☒ All charges collected at permit issuance

☐ All charges to be billed to

CN# _____

Rev. Date 8/91

Service No._____

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

Permit Number **96105**

Date Approved **MAR. 26, 1996**

Work Site: 205 W Broadmoor, on W. Broadmoor near 201 E 14ST, 220 Lafayette Ave, on Broadmoor near Lafayette Ave

Applicant: Name Environmental Testing & Mgmt Address 2916 Magliocco Dr. Suite #2 SJ 95128 Tel (408) 248 5892

Owner: Name Tom Price Address 2916 Magliocco Dr. Suite #2 SJ 95128 Tel (408) 248 5892

Purpose of Permit:

☐ Utility ☒ Street ~~Excavation~~ soil boring ☐ Curb, Gutter Sidewalk, Driveway ☐ Other_____

Detailed Description and Dimensions of Work: Soil boring advanced with pneumatic pounder to groundwater @ ~ 30'. Taking samples of groundwater with micro bailers. Borings 2" in diameter and grouted up from bottom at end of day.

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

Date Work to be Started: 3/28/96 Date Work To Be Completed By:_____

Building Permit No._____ State Encroachment Permit No._____

Oro Loma Permit No._____ Alameda County Flood Control Permit No. 96214

Compliance with State Labor Code: In accordance with Section 3800.

☐ Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.

☑ Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

☑ Applicant has State License No. 716002, Class A in full force and effect.

☐ Applicant is exempt from the State Contractor's License Law for the following reason(s):

_____

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signed: Tom Price Date: 3/26/96

PLEASE CALL 577-2708 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required ✓ Per General Provision (See Back)

Pavement Section Required

Minimum Depth of Cover

Police & Fire Dept. to be notified 24 hours prior to start: YES___ NO ✓

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER Robert L. Haggerty

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Chrgd.

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side:_____

TOTAL HOURS CHARGED:_____

FEES

PERMIT FEE: 200.00 TO ACCT #3306

RESTORE/INSPECT DEPOSIT:_____ TO CN#_____

STREET CUT FEE:_____ TO ACCT #3304

TOTAL:_____

☑ All charges collected at permit issuance

☐ All charges to be billed to

CN#_____

Rev. Date 8/91

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT German Autocraft/Vicinity
see attached map for locations
301 E. 14th Street, San Leandro CA

CLIENT
Name German Autocraft
Address 301E 14th Street Voice
City San Leandro CA Zip 94577

APPLICANT ENVIRONMENTAL TESTING & MANAGEMENT
Name Tom Price/Project Manager
Chemist Enterprises Fax (408) 338-0198
Address 333-B Camino Verde Voice (408) 338-0198
City Boulder Creek CA Zip 95006
2916 MAGLIOCCO DR #2, SJ. 95128

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection		General	
Water Supply		Contamination	X
Monitoring		Well Destruction	

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger ___
Cable ___ Other Pneumatic

DRILLER'S LICENSE NO. 695970 Environmental Control Associates

WELL PROJECTS

Drill Hole Diameter	___	in.	Maximum		
Casing Diameter	___	in.	Depth	___	ft.
Surface Seal Depth	___	ft.	Number	___	

GEOTECHNICAL PROJECTS

Number of Borings	6 (18)		Maximum		
Hole Diameter	1	in. (2)	Depth	~25	ft.

ESTIMATED STARTING DATE November 28, 1995
ESTIMATED COMPLETION DATE December 1, 1995

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tom Price Date 7/14/95

FOR OFFICE USE

PERMIT NUMBER 95766
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
(3.) Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 16 Nov 95
Wyman Hong

91992

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT German Autocraft/vicinity
see Attached map for proposed locations

CLIENT
Name German Autocraft
Address 301E 14St Voice
City San Leandro CA Zip 94577

APPLICANT
Name Environmental Testing & Mgmt
Fax
Address 2916 Magliocco Dr #2 Voice (408) 248-5892
City San Jose CA Zip 95128

TYPE OF PROJECT
Construction
Cathodic Protection
Water Supply
Monitoring
Geotechnical Investigation
General
Contamination * ✓
Well Destruction
* Environmental Sampling Investigation

PROPOSED WATER SUPPLY WELL USE
Domestic Industrial Other
Municipal Irrigation

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other Pneumatic
General Engineering Contractor
~~DRILLER'S~~ LICENSE NO. 716002
(Environmental Testing & Mgmt.)

WELL PROJECTS
Drill Hole Diameter in. Maximum
Casing Diameter in. Depth ft.
Surface Seal Depth ft. Number

GEOTECHNICAL PROJECTS
Number of Borings 18 Maximum
Hole Diameter 2 in. Depth ~35 ft.

ESTIMATED STARTING DATE ~~3/15/96~~ 3/25/96
ESTIMATED COMPLETION DATE ~~3/20/96~~ 3/28/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tom Price Date 3/2/96

FOR OFFICE USE

PERMIT NUMBER 96214
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
(3.) Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 21 Mar 96
Wyman Hong

91992

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOIL MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL-GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP		POORLY-GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, SILTY GRAVELS WITH SANI
			GC		CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER HAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL-GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP		POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOIL MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
			OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH		ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

2.5Y3/2 - Soil color according to Muncell Soil Color Charts (1992 Edition)

- No Soil Sample Recovered
- Partial Soil Sample Recovered
- Undisturbed Soil Sample Recovered
- Soil Sample Submitted For Laboratory Analysis
- First Encountered Groundwater Level
- Static Groundwater Level

ENVIRONMENTAL TESTING & MANAGEMENT
2916 MAGLIOCCO DRIVE, SUITE #2
SAN JOSE, CA 95125

Unified Soil Classification System Chart
German Autocraft
301 E. 14th Street
San Leandro, California

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-1 Sheet 1 of 3 Date Drilled: 11/28/95
Drilling Co.: Environmental Control Assoc. Driller: Jeff Edmond Geologist: Thomas A. Sparrowe, R.G.	Boring Location: NE Property Corner Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Geoprobe Boring Diameter: 1" Total Depth: 37.0 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Geoprobe Length (ft): 2.0 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
									Asphalt
							1		
							2		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, 70% clay, 20% sand, 10% silt, stiff, slightly moist.
							3		
							4		
		6					5		
		6					6		
		6	0		08:15		7		Very dark gray FAT CLAY (CH) 10YR3/1, 80% clay, 20% silt, stiff, slightly moist.
							8		
							9		Dark yellowish brown LEAN CLAY (CL) 10YR4/4, 70% clay, 20% silt, 10% fine grained sand, very stiff, slightly moist.
							10		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-1	Sheet 2 of 3
									DESCRIPTION		
		6	0		08:29		11		Lean Clay with (CL) with 5% fine grained sub-angular chert-derived gravel at 11.5-12'.		
		6 6					12				
							13		Brown, FAT CLAY (CH) 10YR 4/3, 90% clay, 10% silt, very stiff, moist.		
							14				
		6 6					15				
16-16.5		6 6	7		08:45	ETM-1-16	16				
							17				
							18				
							19				
							20		Brown mottled dark grayish brown FAT CLAY, with silt (CH) 10YR4/3 and 2.5Y4/2, stiff, moist, 90% clay, 10% silt, slight to moderate petroleum odor.		
21-21.5 21.5-22			25		08:55	ETM-1-22	21				
							22		Dark greenish gray POORLY GRADED SAND with clay (SC) 5GY4/1, stiff, moist, 60% sand, 40% clay.		
23-23.5			300			ETM-1-23	23				
							24		Dark greenish gray POORLY GRADED SAND (SP), 5GY4/1, dense, very moist, 90% sand, 10% silt, strong petroleum odor.		
							25				

Project: German Autocraft	Boring No. ETM-1	Sheet 3 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
25-25.5		6 6		09:38 ▼			25 26		Dark greenish gray POORLY GRADED SAND (SP), 5GY4/1, dense, very moist, 90% sand, 10% silt, strong petroleum odor. Grab water sample ETM-1 and duplicate ETM-30 collected.
							27 28 29		
		6 6		10:25			30 31		Dark greenish gray well graded SAND (SW) 5GY4/1, dense, wet, 90% fine to coarse grained subangular to subrounded sand, 10% fine grained gravel, strong petroleum odor, sheen.
		6					32 33		
							34		Dark yellowish brown LEAN CLAY (CL)10YR4/4, firm, very moist, 65% clay, 30% fine to medium sand, 5% silt, faint petroleum odor.
		6 6					35		
		6		30	10:50		36		Dark yellowish brown FAT CLAY (CH) 10YR4/4, stiff, moist, 90% clay, 5% fine grained sand, occaisional carbonate nodules, faint petroleum odor.
							37 38 39		BORING TERMINATED AT 37.0' BGS.

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-2 Sheet 1 of 3 Date Drilled: 11/28/95
Drilling Co.: Environmental Control Assoc. Driller: Jeff Edmond Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Garcia Avenue Ground Surface Elevation: ~ 49' MSL TOC Elevation:	Drill Rig Type: Pneumatic Method: Geoprobe Boring Diameter: 1" Total Depth: 30.0 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Geoprobe Length (ft): 2.0 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
									Asphalt
							1		Baserock
							2		
							3		
							4		
		6 6					5		Very dark brown FAT CLAY (CH) 10YR2/2, very stiff, moist, 80% clay, 10% silt, trace fine grained sand.
		6	0		11:35		6		
							7		
							8		
							9		
							10		
		6							Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% silt.

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-2	Sheet 2 of 3
									DESCRIPTION		
		6					11		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% silt, with 5 % fine-grained sub-angular chert derived gravel @ 11.5-12'.		
		6 6	0		11:45		12				
							13				
							14				
							15				
		6 6	0		11:58		16		Dark yellowish brown FAT CLAY (CH) 10YR4/4, very stiff, moist, 90% clay, 10% silt.		
		6 6					17				
							18				
							19				
							20				
		6 6					21		Olive gray FAT CLAY (CL) 5Y4/2, stiff, moist, 90% clay, 10% silt.		
		6 6	17		12:10	EIM -2-21	22				
		6 6					23				
		6 6					24		Dark greenish gray POORLY GRADED SAND (SP) 5GY4/1, firm, wet, 90% fine grained sand, 10% silt.		
		6 6					25				

Project: German Autocraft	Boring No. ETM-2	Sheet 3 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
		6 6		▼ 13:14			25		Dark greenish gray POORLY GRADED SAND (SP) 5GY4/1, firm, wet, 90% fine grained sand, 10% silt.
		6 6					26		
							27		
							28		Dark greenish gray well graded SAND (SW) 5GY4/1, dense, wet, 90% fine to coarse grained subangular to subrounded sand, 10% fine grained gravel, strong petroleum odor, sheen.
							29		Water sample ETM-2 collected at 13:35, hydropunch temporary casing installed from 24-30'.
							30		BORING TERMINATED AT 30.0' BGS.
							31		
							32		
							33		
							34		
							35		
							36		
							37		
							38		
							39		

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-5 Sheet 1 of 3 Date Drilled: 11/28-29/95
Drilling Co.: Environmental Control Assoc. Driller: Jeff Edward Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Apartment Backyard Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Geoprobe Boring Diameter: 1" Total Depth: 27.0 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Geoprobe Length (ft): 2.0 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
							1		
							2		
							3		
							4		
							5		
		6 6					6		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, firm, moist, 70% clay, 20% silt, 10% fine grained sand.
		6	0		09:05		7		
							8		
							9		
							10		Dark yellowish brown FAT CLAY (CH), 10YR4/4, stiff, moist, 90% clay 5% silt, 5% fine grained sand.
		6							

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-5	Sheet 2 of 3
									DESCRIPTION		
		6	0				11		Dark yellowish brown FAT CLAY (CH), 10YR4/4, stiff, moist, 90% clay 5% silt, 5% fine grained sand.		
		6 6					12				
							13				
							14				
							15				
		6 6	0		10:15		16		Brown FAT CLAY (CH) 10YR5/3, stiff, moist, 90% clay, 10% silt.		
		6 6					17				
							18				
							19				
							20				
		6 6					21		Dark greenish gray FAT CLAY (CH) 10YR3/4, stiff, moist, 90% clay, 10% silt.		
		6 6		0	10:25		22				
		6 6					23				
		6 6					24				
		6 6					25		Olive brown LEAN CLAY, with sand (CL), 2.5Y 4/3, soft, very moist to wet, 50% clay, 30% fine grained sand, 20% silt.		

Project: German Autocraft	Boring No. ETM-5	Sheet 3 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
		6 6					25		Olive brown LEAN CLAY, with sand (CL), 2.5Y 4/3, soft, very moist to wet, 50% clay, 30% fine grained sand, 20% silt.
		6 6	0	26.61 11/29/95 09:36	11:35		26		Lt. olive brown LEAN CLAY, with sand (CL), 2.5Y 5/3, soft, very moist to wet, 70% clay, 20% silt, 10% fine grained sand. Water samples ETM-5 and duplicate (ETM-31) collected.
		6 6					27		
		6 6	0		11:45		28		
							29		
		6 6					30		Yellowish brown FAT CLAY (CH) 10YR5/4, stiff, very moist, 90k% clay 10% silt.
		6 6			11:55		31		
							32		
							33		
							34		
		6 6					35		Yellowish brown LEAN CLAY with snad (CL) 10YR5/4, firm, very moist, 80% clay, 20% fine grained sand.
		6 6			12:05		36		Yellowish brown FAT CLAY (CH) 10YR 5/4, very stiff, moist, 90% clay, 5% silt, 5% sand.
							37		BORING TERMINATED AT 37.0' BGS.
							38		
							39		

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-6 Sheet 1 of 3 Date Drilled: 11/29/95
Drilling Co.: Environmental Control Assoc. Driller: Jeff Edward Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Apartment Courtyard Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Geoprobe Boring Diameter: 1" Total Depth: 29.0 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Geoprobe Length (ft): 2.0 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					12:40		1		
							2		
							3		
							4		
							5		
		6 6					6		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, firm, moist, 70% clay, 20% silt, 10% fine grained sand.
		6	0				7		
							8		
							9		
							10		Dark yellowish brown FAT CLAY (CH), 10YR4/4, stiff, moist, 90% clay 5% silt, 5% fine grained sand.
		6							

Project: German Autocraft	Boring No. ETM-6	Sheet 2 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
		6	0		12:25		11		Dark yellowish brown FAT CLAY (CH), 10YR4/4, stiff, moist, 90% clay 5% silt, 5% fine grained sand.
		6 6					12		
							13		
							14		
		6 6	0		12:40		15		Brown FAT CLAY (CH) 10YR5/3, stiff, moist, 90% clay, 10% silt.
		6 6					16		
							17		
							18		
							19		
		6 6		0	13:00		20		Light olive-brown with mottled yellowish brown FAT CLAY (CH) 10YR3/4, stiff, moist.
		6 6					21		
							22		
							23		
							24		Dark greenish gray POORLY GRADED SAND with clay (SC) 5GY4/1, firm, very moist, 60% sand, 40% clay.
							25		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG
		6 6					25	
		6 6	0		13:25		26	
		6 6					27	
		6 6	0		13:40		28	
							29	
							30	
							31	
							32	
							33	
							34	
							35	
							36	
							37	
							38	
							39	

Project: German Autocraft	Boring No. ETM-6	Sheet 3 of 3

DESCRIPTION

Dark greenish gray POORLY GRADED SAND with clay (SC) 5GY4/1, firm, very moist, 60% sand, 40% clay.

Dark greenish gray LEAN CLAY with sand (CL) SGY4/1, firm, very moist, 70% clay, 30% fine grained sand.

Dark yellowish-brown FAT CLAY (CH) 10YR4/4, very stiff, slightly moist, 90% clay, 10% silt.

BORING TERMINATED AT 29.0'.
BORING LEFT OPEN FOR WATER.

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-7 Sheet 1 of 3 Date Drilled: 11/29/95
Drilling Co.: Environmental Control Assoc. Driller: Jeff Edmond Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Inside Building Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Geoprobe Boring Diameter: 1" Total Depth: 28.0 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Geoprobe Length (ft): 2.0 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
									Concrete
							1		
							2		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, stiff, moist, 80% clay, 10% fine grained sand, 10% silt.
							3		
							4		
		6					5		
		6					6		
		6	0		14:15		7		Very dark gray FAT CLAY (CH) 10YR2/2, stiff, moist, 90% clay, 10% silt, trace fine grained sand.
							8		
							9		
		6					10		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist, 90% clay, 10% silt.

Project: German Autocraft	Boring No. ETM-7	Sheet 2 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
		6	0		14:25		11		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 85% clay, 10% silt, 5% fine grained chert derived gravel at 11.5-12' bgs.
		6 6					12		
							13		
							14		
							15		
		6 6	0		14:40		16		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% silt.
		6 6					17		
							18		
							19		
							20		
		6 6					21		Dark greenish gray FAT CLAY (CH) 5GY4/1, very stiff, moist, 90% clay, 10% silt, faint petroleum odor.
		6 6		1	14:50		22		Brown mottled gray FAT CLAY (CH) 10YR4/3-10YR5/1, stiff, moist 90% clay, 10% silt.
		6 6					23		Dark greenish gray FAT CLAY (CH) 5GY4/1, very stiff, moist, 90% clay, 10% silt, faint petroleum odor. Why No PID Reading?
		6 6		9	15:15	ETM-7-23	24		
		6 6					25		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-7	Sheet 3 of 3
									DESCRIPTION		
		6 6	30	15:40		ETM -7-26	25		Dark greenish gray FAT CLAY (CH) 5GY4/1, very stiff, moist, 90% clay, 10% silt, faint petroleum odor.		
		6 6					26		LEAN CLAY (CL) 70% Clay, 20% silt, 10% sand.		
		6 6	20	16:00 ▼		ETM -7-28	27				
							28		Water Sample ETM-7 collected at 16:20. TPHg, BTEX.		
									BORING TERMINATED AT 28.0' BGS.		
							29				
							30				
							31				
							32				
							33				
							34				
							35				
							36				
							37				
							38				
							39				

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDO ALAMEDA COUNTY, CA	Boring No. ETM-10 Sheet 1 of 3 Date Drilled: 11/30/95
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: N. Side of E. 14th Street Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 27.3 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					09:00				Concrete
							1		
							2		
							3		
							4		
		6					5		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, stiff, moist, 70% clay, 20% silt, 10% sand.
							6		
							7		
							8		
							9		
		6					10		Dark yellowish brown LEAN CLAY (CL) 10YR4/4, very stiff, slightly moist, 70% clay, 20% silt, 10% fine grained sand.

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-10	Sheet 2 of 3
									DESCRIPTION		
							11				
							12				
							13				
							14				
		6					15		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% sand.		
							16				
							17				
							18				
							19				
		6					20		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% sand.		
							21				
							22				
							23				
				10:50			24		Dark greenish gray LEAN CLAY (CL) with silt, 5GY4/1, firm, very moist, 70% clay, 20% silt, 10% fine grained sand.		
							25				

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG
		6					25	
							26	
							27	
							28	
							29	
							30	
							31	
							32	
							33	
							34	
							35	
							36	
							37	
							38	
							39	

Project: German Autocraft | Boring No. ETM-10 | Sheet 3 of 3

DESCRIPTION

Dark greenish gray poorly graded SAND with clay (SP) 5GY4/1, dense, very moist, 80% fine grained sand, 10% clay, 10% silt.

Water Sample ETM-10 collected.

BORING TERMINATED AT 27.3' BGS.

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-11 Sheet 1 of 3 Date Drilled: 11/30/95
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: N. Side of E. 14th Street Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 27.3 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					09:00				Concrete
							1		
							2		Very dark grayish brown LEAN CLAY (CL) 10YR 3/2, stiff, moist, 70% clay, 20% silt, 10% sand.
							3		
							4		
		6					5		
							6		
							7		Dark yellowish brown LEAN CLAY (CL) 10YR4/4, very stiff, slightly moist, 70% clay, 20% silt, 10% fine grained sand.
							8		
							9		
		6					10		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-11	Sheet 2 of 3
									DESCRIPTION		
							11				
							12				
							13				
							14				
		6					15		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% sand.		
							16				
							17				
							18				
							19				
		6					20		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% sand.		
							21				
							22				
							23				
				▼ 10:50			24		Dark greenish gray LEAN CLAY (CL) with silt, 5GY4/1, firm, very moist, 70% clay, 20% silt, 10% fine grained sand.		
							25				

Project: German Autocraft	Boring No. ETM-11	Sheet 3 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
		6		▽			25		Dark greenish gray LEAN CLAY (CL) with silt, 5GY4/1, firm, very moist, 70% clay, 20% silt, 10% fine grained sand. Dark greenish gray poorly graded SAND with clay (SP) 5GY4/1, dense, very moist, 80% fine grained sand, 10% clay, 10% silt.
							26		
							27		Water Sample ETM-11 collected.
							28		BORING TERMINATED AT 27.3' BGS.
							29		
							30		
							31		
							32		
							33		
							34		
							35		
							36		
							37		
							38		
							39		

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-17 Sheet 1 of 3 Date Drilled: 3/25/96
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Street, 185 W. Broadmoor Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 30 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					09:00				Asphaltic concrete
									Baserock
							1		
							2		Dark grayish brown FAT CLAY (CH) 10YR 3/2, stiff, very moist, 80% clay, 20% silt, trace fine-grained sand.
							3		
							4		
							5		
							6		
							7		Dark yellowish brown LEAN CLAY with sand (CL) 10YR4/4, very stiff, slightly moist, 60% clay, 30% fine grained sand, 10% silt.
		6					8		
							9		
							10		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-17	Sheet 2 of 3
									DESCRIPTION		
							11		Dark yellowish brown LEAN CLAY with sand (CL) 10YR4/4, very stiff, slightly moist, 60% clay, 30% fine grained sand, 10% silt.		
							12				
							13				
							14				
				1102			15				
							16				
		6					17		Dark yellowish brown FAT CLAY (CH) 10YR4/2, very stiff, slightly moist, 80% clay, 20% sand, trace fine-grained sand.		
							18				
							19				
							20				
							21				
							22				
							23				
		6					24		Same as above		
							25				

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-17	Sheet 3 of 3
									DESCRIPTION		
							25		Dark yellowish brown FAT CLAY (CH) 10YR4/2, very stiff, slightly moist, 80% clay, 20% sand, trace fine-grained sand.		
							26				
							27				
							28				
		6		▽ 1055			29		Dark gray well-graded SAND (SW), dense, wet, 80% fine to coarse grained sand, 10% fine-grained gravel, 10% silt, faint petroleum odor. Water sample ETM-17 and blind duplicate, ETM-42, collected.		
							30		BORING TERMINATED AT 30.0' BGS.		
							31				
							32				
							33				
							34				
							35				
							36				
							37				
							38				
							39				

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-19 Sheet 1 of 3 Date Drilled: 3/25/96
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Driveway, 188 W. Broadmoor Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 30 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					1155		1		Dark yellowish brown brown FAT CLAY (CH) 10YR 3/2, medium stiff, very moist, 80% clay, 20% silt, trace fine-grained sand.
							2		
							3		
							4		
							5		
							6		
							7		Dark yellowish brown LEAN CLAY with sand (CL) 10YR4/4, very stiff, slightly moist, 60% clay, 30% fine grained sand, 10% silt.
		6					8		
							9		
							10		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-19	Sheet 2 of 3
									DESCRIPTION		
							11		Dark yellowish brown LEAN CLAY with sand (CL) 10YR4/4, very stiff, slightly moist, 60% clay, 30% fine grained sand, 10% silt.		
							12				
							13				
							14				
							15				
							16				
		6					17		Dark yellowish brown FAT CLAY (CH) 10YR4/2, very stiff, slightly moist, 80% clay, 20% sand, trace fine-grained sand.		
							18				
				▼			19				
							20				
							21				
							22				
							23				
		6					24		Same as above		
							25				

Project: German Autocraft	Boring No. ETM-19	Sheet 3 of 3

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
							25		Dark yellowish brown FAT CLAY (CH) 10YR4/2, very stiff, slightly moist, 80% clay, 20% sand, trace fine-grained sand.
							26		
							27		
							28		
							29		Dark gray well-graded SAND (SW), dense, wet, 80% fine to coarse grained sand, 10% fine-grained gravel, 10% silt, faint petroleum odor.
				▽					Water sample ETM-19 collected.
							30		BORING TERMINATED AT 30.0' BGS.
							31		
							32		
							33		
							34		
							35		
							36		
							37		
							38		
							39		

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-21 Sheet 1 of 2 Date Drilled: 3/26/96
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Viking Liquor, E. 14th Street Ground Surface Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 24.5 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
					09:00				Asphaltic Concrete
									Baserock
							1		
							2		Dark grayish brown LEAN CLAY with sand (CL) 10YR 3/2, stiff, moist, 60% clay, 20% silt, 20% fine-grained sand.
							3		
							4		
							5		
							6		
							7		Yellowish brown FAT CLAY (CH), very stiff, moist, 85% clay, 15% silt, trace fine-grained sand.
		6					8		
							9		
							10		

Project: German Autocraft	Boring No. ETM-21	Sheet 2 of 2

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	DESCRIPTION
							11		Yellowish brown FAT CLAY (CH), very stiff, moist, 85% clay, 15% silt, trace fine-grained sand.
							12		
							13		
							14		
							15		
		6					16		
							17		
				▼			18		
							19		Grayish brown LEAN CLAY (CL), very stiff, very moist to wet, 70% clay, 30% silt, trace fine grained sand.
				▽			20		Gray POORLY GRADED SAND with clay (SP) firm, wet, 80% sand, 20% silt.
							21		Grab water sample ETM-21 and duplicate ETM-43 collected.
							22		
							23		Grayish brown LEAN CLAY (CL), very stiff, very moist to wet, 70% clay, 30% silt, trace fine grained sand.
		6					24		
							25		BORING TERMINATED AT 24.5' BGS.

BORING LOG Environmental Testing & Management 2916 Magliocco Drive, Suite #2 San Jose, CA 95128	**GERMAN AUTOCRAFT** 301 EAST 14th STREET SAN LEANDRO ALAMEDA COUNTY, CA	Boring No. ETM-22 Sheet 1 of 2 Date Drilled: 3/26/96
Drilling Co.: Environmental Testing & Mgmt Driller: Tyrone Clark Geologist: Thomas A. Sparrowe, R.G.	Boring Location: Driveway, 156 Garcia Ground Surface Elevation: TOC Elevation:	Drill Rig Type: Pneumatic Method: Driven Rod Boring Diameter: 1.5" Total Depth: 24.5 feet
Outer Casing Type: Diameter: Length:	Well Casing/Screen/Filter Pack Diameter/Type: Screen Length (ft): Slot Size:	Sampler Method: Barrel Sampler Length (ft): 0.5 Hammer Weight (lbs)/(ft):

Sample Depth	Blows/6-in	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH IN FEET	GRAPHIC LOG	DESCRIPTION
									Concrete
							1		
							2		Dark grayish brown LEAN CLAY with sand (CL) 10YR 3/2, stiff, moist, 60% clay, 20% silt, 20% fine-grained sand.
							3		
							4		
							5		
							6		
							7		Dark yellowish brown LEAN CLAY with sand (CL) 10YR4/4, very stiff, moist, 65% clay, 15% silt, 25% fine-grained sand.
		6					8		
							9		
							10		

Sample Depth	Blows	Drive (Inches)	PID (ppm)	Water Level Time & Date	Time	Sample Number	DEPTH	GRAPHIC LOG	Project: German Autocraft	Boring No. ETM-22	Sheet 2 of 2
									DESCRIPTION		
							11				
							12				
							13				
							14				
							15		Brown FAT CLAY (CH) 10YR4/3, very stiff, slightly moist 90% clay, 10% sand.		
		6					16				
							17				
							18				
							19				
				▼			20				
							21				
							22		Grayish brown mottled yellowish brown LEAN CLAY (CL), very stiff, very moist to wet, 70% clay, 30% silt, trace fine grained sand.		
							23				
							24		Dark gray POORLY GRADED SAND (SP), dense, wet, 90% sand, 10% silt.		
		6		▽					Grab water sample ETM-21 and duplicate ETM-43 collected.		
							25		BORING TERMINATED AT 24.5' BGS.		

Earth Systems Consultants
5880 West Las Positas Blvd., Suite #52, Pleasanton, CA 94588

Page No.

Moisture / Density

File No.: NFH 3525-01
Date: 9-1-93
By:

HOLE 4

PERMEABILITY

f = 1.295

Sample No.	5.5	6.0		11.0	30.5	31.0	35.5	36.0
Ht. of Sample	5.85"	2.7"	"	3.70"	5.90"	"	5.8"	—"
Tare No.	40	71		18	85		40	42
Gross Wet Wt.	546.7	389.9		410.4	719.2		643.6	455.7
Gross Dry Wt.	492.9	362.6		357.2	657.9		541.1	389.5
Tare Weight	73.1	147.7		72.8	76.6		73.1	73.7
Net Dry Wt.	419.8	214.9		284.4	581.3		468.0	315.8
Wt. of Water	53.8	27.3		53.2	61.3		102.5	66.2
% Moisture	12.8	12.7		18.7	10.5		21.9	21.0
Dry Density	92.9	103.1		115.1	127.6		104.5	✓
Pocket Pen.								

Soil Testing and Inspection – Field and Laboratory

$$\gamma d = \frac{Wds(g.) \cdot f}{L(in.)}$$

Density Factors
Liners: (1.9375" dia.) f = 1.295
(2.375" dia.) f = 0.86
Shelby: (1.870" dia.) f = 1.388

Description

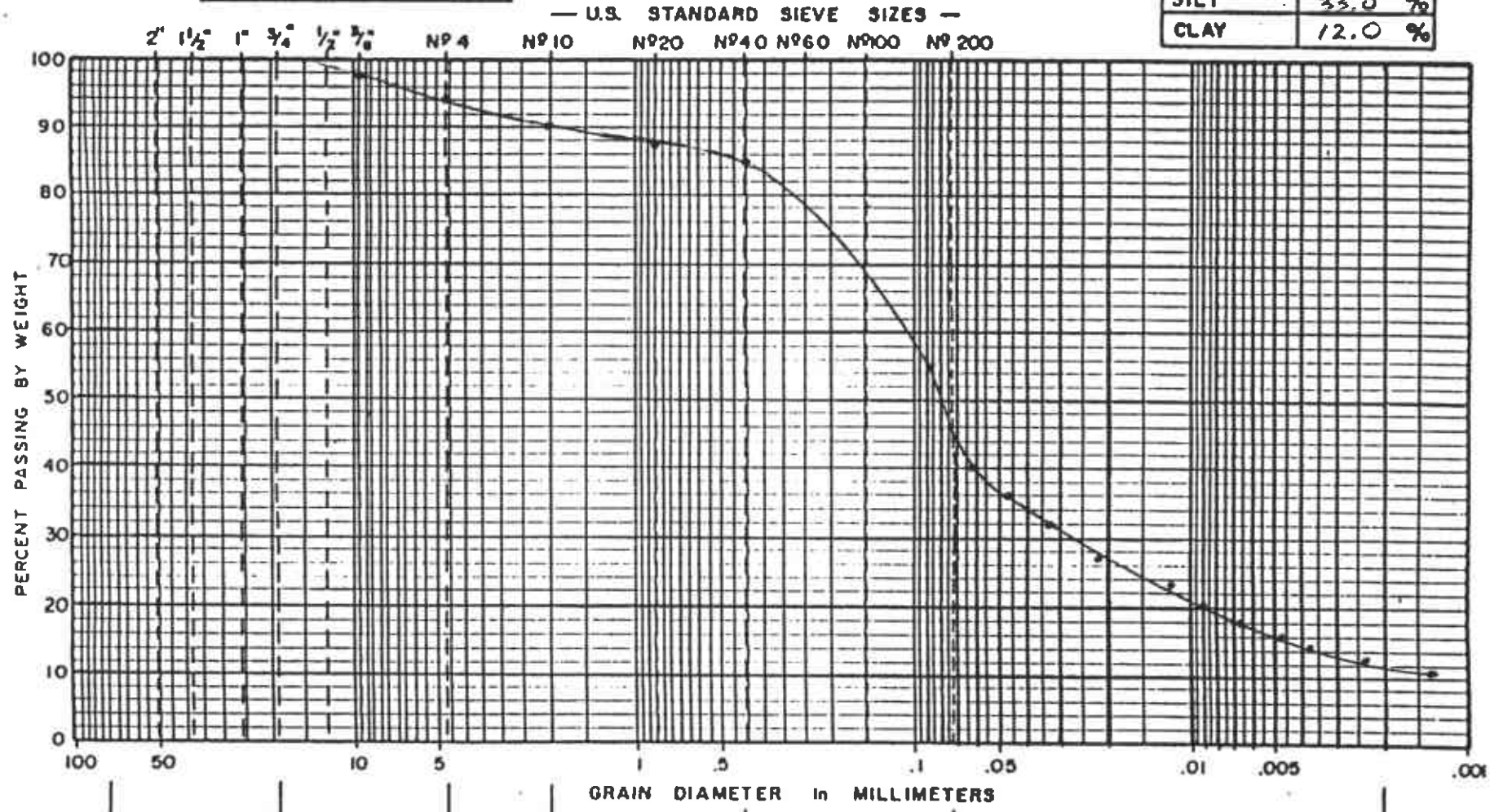
- LT BROWN - DARK BROWN VERY LOOSE MOIST SILTY CLAY - SILTY SAND
- VERY STIFF - HARD GREY - BROWN SILTY CLAY
- GREY SILTY SAND GRAVEL DIESEL O/S - CONTAMINATED
- LT BROWN FIRM SILTY CLAY DIESEL O/S
- LT BROWN SILTY CLAY

FICENO NFH 3525-01

DESCRIPTION: LT BROWN SILTY SAND W/MINOR GRAVEL

SAMPLE Nº: MW4 - 6

GRAVEL	5.9 %
SAND	49.1 %
SILT	33.0 %
CLAY	12.0 %



COBBLES	GRAVEL		SAND			SILT SIZES	CLAY SIZES
	COARSE	FINE	COARSE	MEDIUM	FINE	FINES	

ASTM-ASCE GRAIN SIZE SCALE

MW-4

FILE Nº: NFH 3575-0
SAMPLE Nº: 6
DATE: 9-12-95
BY:

HYDROMETER ANALYSIS

A.S.T.M. D 422-63.

DATE 1995	ACTUAL TIME	ELAPSE TIME (MIN)	R_H	TEMP. °C	$R_{H_1} = R_H + (C_m + C_d)$	DIAMETER (mm)	m_t	$R = R_{H_1} + m_t$	N (%)	N_1 (%)
Sep 13	0708	.25	29.0	20.0	25.5	0.086	-0.2	25.3	50.3	45.3
		.50	26.0	20.0	22.5	0.063	-0.2	22.3	44.4	40.0
		1.00	23.7	20.0	20.2	0.047	-0.2	20.0	39.8	35.8
		2.00	21.7	20.0	18.2	0.034	-0.2	18.0	35.8	32.2
		5.00	18.7	20.0	15.2	0.022	-0.2	15.0	29.9	26.9
		15.00	16.5	20.0	13.0	0.012	-0.2	12.8	25.5	23.0
	0738	30.00	15.0	20.0	11.5	0.0091	-0.2	11.3	22.5	20.3
	0808	60.00	13.8	20.0	10.3	0.0066	-0.2	10.1	20.1	18.1
	0908	120.00	12.8	20.0	9.3	0.0047	-0.2	9.1	18.1	16.3
	1008	180.00	11.8	20.0	8.3	0.0038	-0.2	8.1	16.1	14.5
	1508	8 Hrs	10.8	20.0	7.3	0.0024	-0.2	7.1	14.1	12.7
Sep 14	0708	24 Hrs	9.8	20.0	6.3	0.0014	-0.2	6.1	12.1	10.9

DESCRIPTION: _____

SPECIFIC GRAVITY; G_s: ASSUMED = 2.65; CALCULATED = _____

MENISCUS CORRECTION, Cm: _____ +0.6

DISPERSING AGENT CORRECTION, Cd: _____ -4.1 -3.5

DRY WEIGHT OF SOIL, W_s: 80.7 .

% < Nº 10 SIEVE: 90.1 .

$N_1 = \left(\frac{\% < \text{Nº } 10}{100}\right) N =$ _____ N (COMBINED ANALYSIS).

$N = R \frac{G}{G-1} \times \frac{100}{W_s} = R$ 1.990 . $\frac{2.65}{1.65} \times \frac{100}{80.7}$

REMARKS: _____

FILE Nº: NEH 3525-U
SAMPLE Nº: MW4-6
DATE: 9.12.
BY:

– SIEVE ANALYSIS –

SIEVE SIZE	WEIGHT RETAINED, g.	PERCENT RETAINED	CUMULATIVE PERCENT RETAINED	CUMULATIVE PERCENT PASSING
3 IN.				
2½ IN.				
2 IN.				
1½ IN.				
1 IN.				
¾ IN.				
½ IN.	0.0	0.0	0.0	100.0
⅜ IN.	10.9	2.6	2.6	97.4
NO. 4	13.7	3.3	5.9	94.1
NO. 10	16.8	4.0	9.9	90.1
NO. 20	10.6	2.5	12.4	87.6
NO. 40	11.4	2.7	25.1	84.9
NO. 60				
NO. 100				
NO. 140				
NO. 200				
PAN	356.4	84.9		
TOTAL	419.8			

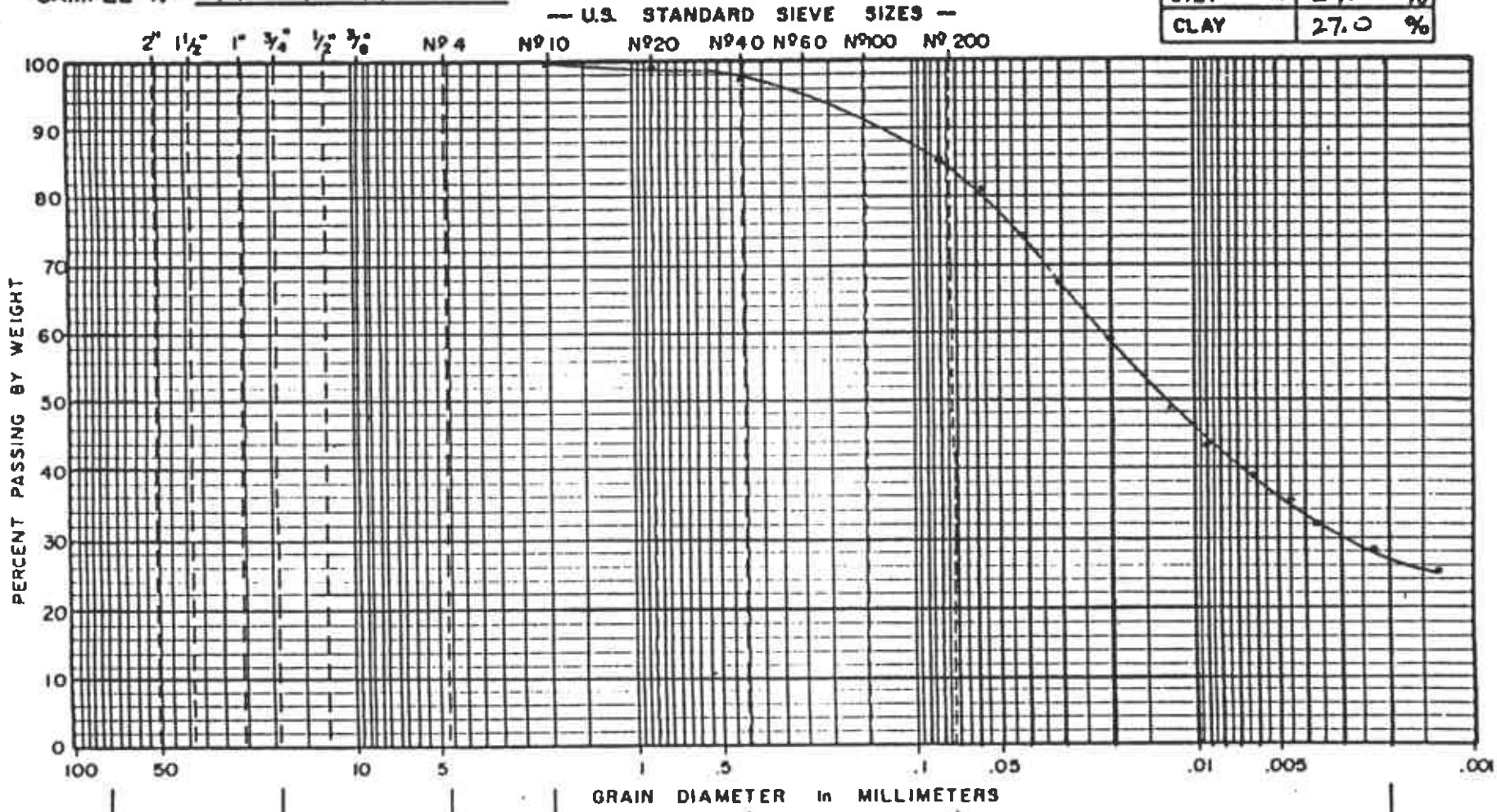
REMARKS

NFH 3525-01
GOULMAN AUTOCLAVE

DESCRIPTION: LT BROWN CLAYEY SILT

SAMPLE Nº: MW44-11

GRAVEL	0.3 %
SAND	15.7 %
SILT	57.0 %
CLAY	27.0 %



COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	SILT SIZES	CLAY SIZES
	GRAVEL		SAND			FINES	

ASTM-ASCE GRAIN SIZE SCALE

FILE Nº: NFH 3521.01
SAMPLE Nº: BW 4-11
DATE: 9-5-91
BY:

HYDROMETER ANALYSIS

A.S.T.M. D422-63.

DATE 1995	ACTUAL TIME	ELAPSE TIME (MIN)	R_H	TEMP. °C	R_{H_1} = R_H + (Cm-Cd)	DIAMETER (mm)	m_t	$R = R_{H_1} + m_t$	N (%)	N_1 (%)
Sep 6	0701	.25	35.5	20.0	32.0	0.050	-0.2	31.8	85.1	84.8
		.50	33.0	20.0	30.5	0.038	-0.2	30.3	81.1	80.9
		1.00	31.5	20.0	25.0	0.041	-0.2	27.8	74.4	74.2
		2.00	29.0	20.0	25.5	0.031	-0.2	25.3	67.7	67.5
		5.00	25.7	20.0	22.2	0.020	-0.2	22.0	58.9	58.7
		15.00	22.0	20.0	18.5	0.012	-0.2	18.3	49.0	48.8
	0731	30.00	20.0	20.0	16.5	0.0090	-0.2	16.3	43.6	43.5
	0801	60.00	18.2	20.0	14.7	0.0063	-0.2	14.5	38.8	38.7
	0901	120.00	17.0	20.0	13.5	0.0045	-0.2	13.3	35.6	35.5
	1001	180.00	15.8	20.0	12.3	0.0036	-0.2	12.1	32.4	32.3
	1501	5 hr	14.3	20.0	10.8	0.0023	-0.2	10.6	28.4	28.3
9-7	0701	24 hr	13.0	20.0	9.5	0.0013	-0.2	9.3	24.9	24.8

DESCRIPTION: _____

SPECIFIC GRAVITY; G_s: ASSUMED = 2.65; CALCULATED = _____

MENISCUS CORRECTION, Cm: _____ +0.6 ?

DISPERSING AGENT CORRECTION, Cd: _____ -4.1 ; -3.3

DRY WEIGHT OF SOIL, W_s: 60.0 .

% < Nº 10 SIEVE: 99.7 .

$N_1 = \left(\frac{\% < \text{Nº 10}}{100}\right) N =$ _____ N (COMBINED ANALYSIS).

$N = R \frac{G}{G-1} \times \frac{100}{W_s} = R$ _____ . $\frac{2.65}{1.65} \times \frac{100}{60}$.

REMARKS: _____

FILE Nº: NFH 3525-01
SAMPLE Nº: MW4-11
DATE: 9-5-95
BY: ✓

– SIEVE ANALYSIS –

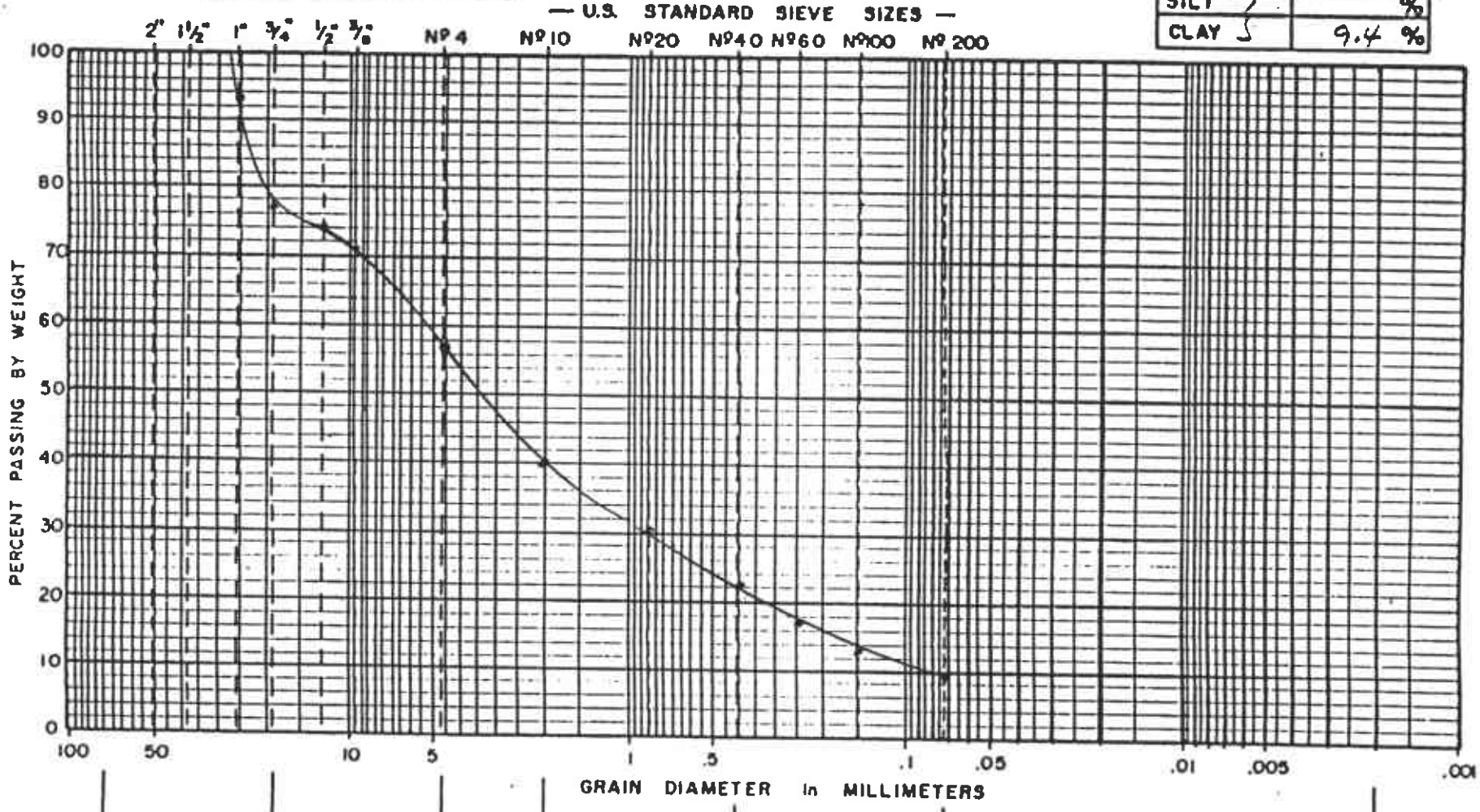
SIEVE SIZE	WEIGHT RETAINED, g.	PERCENT RETAINED	CUMULATIVE PERCENT RETAINED	CUMULATIVE PERCENT PASSING
3 IN.				
2 1/2 IN.				
2 IN.				
1 1/2 IN.				
1 IN.				
3/4 IN.				
1/2 IN.				
3/8 IN.				
NO. 4	0.0	0.0	0.0	100.0
NO. 10	0.8	0.3	0.3	99.7
NO. 20	2.2	1.0	1.3	98.7
NO. 40	2.6	1.2	2.5	97.1
NO. 60				
NO. 100				
NO. 140				
NO. 200				
PAN	218.2	97.5		
TOTAL	223.8			

REMARKS

DESCRIPTION: GREY GRAVELLY SAND w/ CLAY BINDER

SAMPLE Nº: MW4 -31

GRAVEL	42.8 %
SAND	47.8 %
SILT ?	%
CLAY ?	9.4 %



ASTM-ASCE GRAIN SIZE SCALE

FILE Nº: NFH3525-0
SAMPLE Nº: MW4-31
DATE: 9-12
BY:

– SIEVE ANALYSIS –

SIEVE SIZE	WEIGHT RETAINED, g.	PERCENT RETAINED	CUMULATIVE PERCENT RETAINED	CUMULATIVE PERCENT PASSING
3 IN.				
2½ IN.				
2 IN.				
1½ IN.	0.0	0.0	0.0	100.
1 IN.	40.8	7.0	7.0	93.0
¾ IN.	92.9	16.0	23.0	77.0
½ IN.	17.8	3.1	26.1	73.9
⅜ IN.	17.7	3.0	29.1	70.9
NO. 4	79.5	13.7	42.8	57.2
NO. 10	98.9	17.0	59.8	40.2
NO. 20	57.1	9.8	69.6	30.4
NO. 40	47.7	8.2	77.8	22.2
NO. 60	31.6	5.4	83.2	16.8
NO. 100	22.2	3.8	87.0	13.0
NO. 140				
NO. 200	20.7	3.6	90.6	9.4
PAN	54.4	9.4		
TOTAL	581.3			

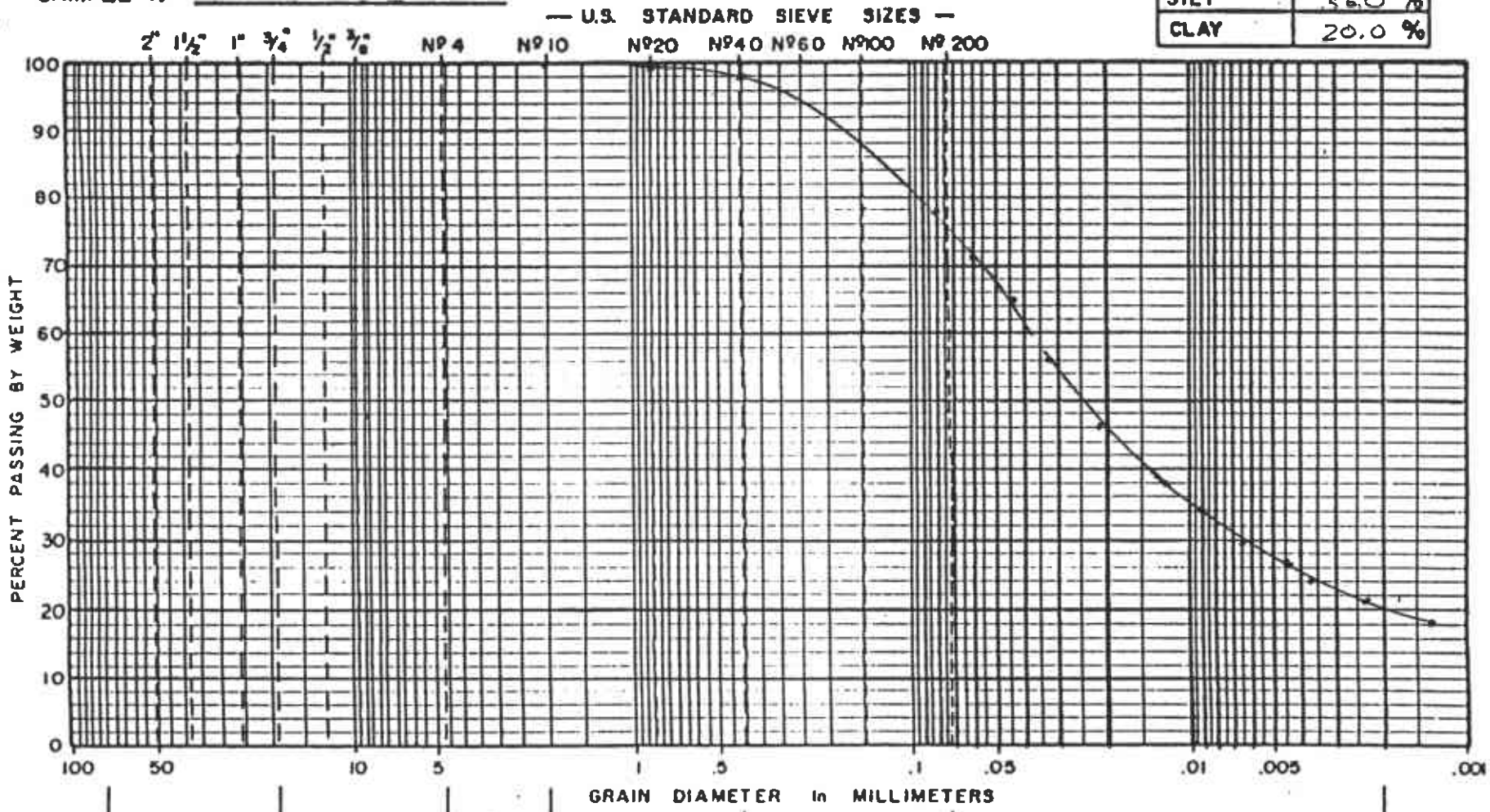
REMARKS

FIGENO NFH 3525N1
GERMAN AUTOCRAFT

DESCRIPTION: LT BROWN CLAYEY SILT

SAMPLE Nº: MW4 -3C

GRAVEL	0.4 %
SAND	23.6 %
SILT	56.0 %
CLAY	20.0 %



ASTM-ASCE GRAIN SIZE SCALE

FILE Nº: NFH 3525-01
SAMPLE Nº: MW4-36
DATE: 9-5
BY:

HYDROMETER ANALYSIS

A.S.T.M. D422-63.

DATE 1991	ACTUAL TIME	ELAPSE TIME (MIN)	R_H	TEMP. °C	R_{H_1} = R_H + (Cm-Cd)	DIA-METER (mm).	m_t	R = R_{H_1} + m_t	N (%)	N_1 (%)
SEP 6	0651	.25	34.0	20.0	30.5	0.080	-0.2	30.3	77.9	77.6
		.50	31.5	20.0	28.0	0.060	-0.2	27.8	71.4	71.1
		1.00	29.0	20.0	25.5	0.044	-0.2	25.3	65.0	64.7
		2.00	25.7	20.0	22.2	0.032	-0.2	22.0	56.5	56.3
		5.00	21.7	20.0	18.2	0.021	-0.2	18.0	46.3	46.1
		15.00	18.5	20.0	15.0	0.012	-0.2	14.8	38.0	37.8
	0921	30.00	17.0	20.0	13.5	0.0090	-0.2	13.3	34.2	34.1
	0951	60.00	15.3	20.0	11.8	0.0065	-0.2	11.6	29.5	29.7
	0851	120.00	14.0	20.0	10.5	0.0048	-0.2	10.3	26.5	26.4
	0951	180.00	13.0	20.0	9.5	0.0038	-0.2	9.3	23.9	23.8
	1451	8 Hrs	12.0	20.0	8.5	0.0024	-0.2	8.3	21.3	21.2
9-7	0651	24 Hrs	10.8	20.0	7.3	0.0014	-0.2	7.1	18.2	18.1

DESCRIPTION: _____

SPECIFIC GRAVITY; G_s: ASSUMED = 2.65; CALCULATED = _____

MENISCUS CORRECTION, Cm: _____ +0.6 ?

DISPERSING AGENT CORRECTION, Cd: _____ -4.1 ? -3.5

DRY WEIGHT OF SOIL, W_s: 62.5 .

% < Nº 10 SIEVE: 99.6 .

$N_1 = \left(\frac{\% < \text{Nº 10}}{100}\right) N =$ _____ N (COMBINED ANALYSIS).

$N = R \frac{G}{G-1} \times \frac{100}{W_s} = R$ 2.570 . $\frac{2.65}{1.65} \times \frac{100}{62.5}$

REMARKS: _____

FILE Nº: NFH 3525-01
SAMPLE Nº: MW4-36'
DATE: SEP 5, 1995
BY:

– SIEVE ANALYSIS –

SIEVE SIZE	WEIGHT RETAINED, g.	PERCENT RETAINED	CUMULATIVE PERCENT RETAINED	CUMULATIVE PERCENT PASSING
3 IN.				
2½ IN.				
2 IN.				
1½ IN.				
1 IN.				
¾ IN.				
½ IN.				
⅜ IN.				
NO. 4	0.0	0.0	0.0	100.0
NO. 10	1.3	0.4	0.4	99.6
NO. 20	1.8	0.6	1.0	99.0
NO. 40	3.7	1.2	2.2	97.8
NO. 60				
NO. 100				
NO. 140				
NO. 200				
PAN	309.8	97.8		
TOTAL	316.6			

REMARKS

FILE NO. NFH 3525-01
PROJECT. GERMAN AUTO CLAIM
DATE.

PERMEABILITY TEST DATA

CONSTANT: ✓
VARIABLE:
SAMPLE NO: MW 4 - 11'

L = 2"

DATE	TIME (Start)	TIME (End)	T	Q	K cm/SEC
SEP 8	0700	9/8 (0700)	72 Hrs	2	9.81×10^{-9}
9-8	0700	9/11 (0700)	72 Hrs	4	1.96×10^{-8}
9-11	0700	9/14 (0700)	72 Hrs	6	2.94×10^{-8}
9-15	0700	9/15 (0700)	72 Hrs	7	3.43×10^{-8}
9-18	0700	9/21 (0700)	72 Hrs	8	
9-25	0700	9/28 (0700)	72 Hrs	8	3.27×10^{-8}
	FINAL	K = 3.27×10^{-8}	cm/SEC		
				L = 2" =	5.08 cm
		$K = \frac{QL}{tAh}$		h =	250 cm
				A =	19.15 cm^2
				t =	72 Hrs
		K = 5.08 Q		=	2.592×10^5 SEC
		$2.592 \times 10^5 \times 2.50 \times 10^2 \times 1.915 \times 10^1$			

= 0.40087×10^{-8} Q

= 4.0087×10^{-9} Q

gsa3/94

FILE NO. NFH 3525-01

PROJECT. GERMAN AUTOCRAFT

DATE.

PERMEABILITY TEST DATA

CONSTANT: ✓

VARIABLE:

SAMPLE NO: MW4 -6

L = 2.7"

DATE	TIME (Start)	TIME (End)	T	Q	K cm/SEC
9-11	0900	0905	5MIN	270	1.29×10^{-3}
	0910	0915	5MIN	238	1.14×10^{-3}
9-13	0900	0905	5MIN	223	1.06×10^{-3}
	0910	0915	5MIN		
9-15			5MIN	218	1.04×10^{-3}
			5MIN	210	1.00×10^{-3}
			5MIN	205	9.79×10^{-4}
			5MIN	203	
			5MIN	203	9.69×10^{-4}

FINAL $K = 9.69 \times 10^{-4}$ cm/SEC

L = 2.7" = 6.858 cm

$K = \frac{QL}{tAh}$

h = 250 cm

A = 1.9" DIA

= 19.15 cm^2

$= \frac{6.858\ Q}{2.50 \times 10^{2} \times 19.15 \times 10^{1} \times 3.00 \times 10^{2}}$

$= 0.4775 \times 10^{-5}\ Q$

$= 4.775 \times 10^{-6}\ Q$

t = 5 MIN = 300 SEC

gsa3/94

1-408 269 9114

FILE NO. NFH 3525-01
PROJECT. GERMAN AUTOCRAFT
DATE. 9-8-95

PERMEABILITY TEST DATA

CONSTANT: ✓
VARIABLE:
SAMPLE NO: MW4-31

DATE	TIME (Start)	TIME (End)	T	Q	K cm/SEC
SEP 11	0700	9-12 (0700)	24 Hrs	160	5.70×10^{-6}
12	0700	9-13 (0700)	24 Hrs	173	6.16×10^{-6}
13		9-14 (0700)	24 Hrs	175	6.23×10^{-6}
14		9-15 (0700)	24 Hrs	176	6.27×10^{-6}
15					
SEP 18	0700	SEP 19 (0700)	24 Hrs	176	6.27×10^{-6}
	FINAL	$K = 6.27 \times 10^{-6}$	cm/SEC		
		$K = \frac{LQ}{tIA}$		$L = 5.80'' = 14.732 cm$	
				$h =$	250 cm
		$= 14.732 Q$		$A = d/2 = 1.944''$	
		$2.50 \times 10^2 \times 1.9115 \times 10^1 \times 8.64 \times 10^4$			$= 4.9378 cm$
				$=$	$19.15 cm^2$
		$= 0.35616 \times 10^{-6} Q$		$t = 24 Hrs$	
		$= 3.5616 \times 10^{-5} Q$		$= 8.64 \times 10^4 SEC$	

gsa3/94

FILE NO. NFH 3525-01

PROJECT. GERMAN AUTOCAMP

DATE.

PERMEABILITY TEST DATA

CONSTANT: ✓

VARIABLE:

SAMPLE NO: MW4-36

L = 2"

DATE	TIME (Start)	TIME (End)	T	Q	K cm/sec
SEP 5	0700	9/8 (0700)	72 Hrs	7	2.86×10^{-8}
9-8	0700	9/11 (0700)	72 Hrs	10	4.09×10^{-8}
9-11	0700	9/14 (0700)	72 Hrs	13	5.32×10^{-8}
9-15	0700	9/18 (0700)	72 Hrs	15	6.14×10^{-8}
9-18	0700	9/21	72 Hrs	16	6.55×10^{-8}
9-21	0700				
9-25	0700	9/28 (0700)	72 Hrs	16	6.55×10^{-8}

FINAL $K = 6.55 \times 10^{-8}$ cm/sec

L = 2.0" = 5.08 cm

h = 250 cm

$K = \frac{QL}{tAh}$

A = 19.15 cm^2

t = (72 Hrs)

= 259200 sec

$K = 4.0937 \times 10^{-5} Q$

$= 2.592 \times 10^{5}$ sec

$K = 4.0937 \times 10^{-9} Q$

gsa3/94

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 # : 9511292
Date Received : 11/29/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9511292- 1	ETM-1-22
9511292- 2	ETM-1-24
9511292- 3	ETM125.5
9511292- 4	ETM-1-17
9511292- 5	ETM-2-22
9511292- 6	ETM-7-23
9511292- 7	ETM-7-26

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.

Susan Kraska Yeager for
Susan Kraska Yeager
Laboratory Director

12/18/95
Date

Project Manager

This report consists of 12 pages.

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

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

Workorder # : 9511292
Date Received : 11/29/95
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
9511292- 1	ETM-1-22	SOIL	11/28/95	TPHgBTEX
9511292- 2	ETM-1-24	SOIL	11/28/95	TPHgBTEX
9511292- 3	ETM125.5	SOIL	11/28/95	TPHgBTEX
9511292- 4	ETM-1-17	SOIL	11/28/95	TPHgBTEX
9511292- 5	ETM-2-22	SOIL	11/28/95	TPHgBTEX
9511292- 6	ETM-7-23	SOIL	11/29/95	TPHgBTEX
9511292- 7	ETM-7-26	SOIL	11/29/95	TPHgBTEX

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

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

Workorder # : 9511292
Date Received : 11/29/95
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 12/11/95 Date

Chemist 12/11/95 Date

Organic Analysis Data Sheet

Total Petroleum Hydrocarbons as Gasoline with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9511292 Client Project ID : GERMAN AUTOCRAF

Matrix : SOIL Units : mg/Kg

Compound Name	Method Reporting Limit*	Client ID ETM-1-22 Lab ID 9511292-01	Client ID ETM-1-24 Lab ID 9511292-02	Client ID ETM125.5 Lab ID 9511292-03	Client ID ETM-1-17 Lab ID 9511292-04	Client ID ETM-2-22 Lab ID 9511292-05
Benzene	0.0050	0.029	0.82	9.6	ND	0.026
Toluene	0.0050	ND	1.8	10	ND	ND
Ethylbenzene	0.0050	0.055	2.8	11	ND	0.012
Total Xylenes	0.0050	0.067	3.8	18	ND	0.010
TPH as Gasoline	0.50	8.4	76	370	16	0.54
Surrogate Recovery		106%	113%	100%	99%	102%
Instrument ID		HP12	HP12	HP12	HP12	HP12
Date Sampled		11/28/95	11/28/95	11/28/95	11/28/95	11/28/95
Date Analyzed		12/06/95	12/08/95	12/08/95	12/07/95	12/06/95
RLMF		5	25	100	10	1
Filename Reference		FRN29201.D	FTN29202.D	FTN29203.D	FRN29204.D	FRN29205.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 53-147%.

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

Analyst 12/11/95 Date

Supervisor 12/11/95 Date

Issued on 12/11/95 @ 6:32 pm

Organic Analysis Data Sheet

Total Petroleum Hydrocarbons as [redacted] with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9511292

Matrix : SOIL

Client Project ID : GERMAN AUTOCRAF

Units : mg/Kg

Compound Name	Method Reporting Limit*	Client ID ETM-7-23 Lab ID 9511292-06	Client ID ETM-7-26 Lab ID 9511292-07	Client ID Lab ID SAND BLANK	Client ID Lab ID MEOH BLANK	Client ID Lab ID MEOH BLANK
Benzene	0.0050	ND	0.019	ND	ND	ND
Toluene	0.0050	ND	0.017	ND	ND	ND
Ethylbenzene	0.0050	ND	0.029	ND	ND	ND
Total Xylenes	0.0050	0.011	0.036	ND	ND	ND
TPH as Gasoline	0.50	ND	1.1	ND	ND	ND
Surrogate Recovery		110%	127%	99%	86%	101%
Instrument ID		HP12	HP12	HP12	HP12	HP12
Date Sampled		11/29/95	11/29/95	N/A	N/A	N/A
Date Analyzed		12/06/95	12/06/95	12/06/95	12/07/95	12/08/95
RLMF		1	1	1	5	5
Filename Reference		FRN29206.D	FRN29207.D	BD0601E1.D	BD0702E1.D	BD0802E1.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 53-147%.

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

Analyst Dayell Syed 12/11/95 Date

Supervisor Cheryl Bateman 12/11/95 Date

Issued on 12/11/95 @ 6:37 pm

Organic Analysis Data Sheet

Total Petroleum Hydrocarbons as Gasoline with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9511292 | Client Project ID : GERMAN AUTOCRAF

Matrix : SOIL | Units : mg/Kg

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
		MEOH BLANK				
Benzene	0.0050	ND				
Toluene	0.0050	ND				
Ethylbenzene	0.0050	ND				
Total Xylenes	0.0050	ND				
TPH as Gasoline	0.50	ND				
Surrogate Recovery		109%				
Instrument ID		HP12				
Date Sampled		N/A				
Date Analyzed		12/06/95				
RLMF		5				
Filename Reference		BD0602E1.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 53-147%.

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

Joyce Boyd 12/11/95
Analyst Date

Cheryl Balmer 12/11/95
Supervisor Date

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

Project ID : GERMAN AUTOCRAFT
Sample ID : ETM-7-23
Matrix : SOIL
Date Sampled : 11/29/95

Laboratory ID : 9511292-06
Analyst : SBS
Supervisor : CB
Instrument ID : HP12
Units : mg/Kg

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Gasoline	1.0	ND	96%	91%	48-149	5%	30
Surrogate Recovery		110%	92%	87%			
Date Analyzed		12/06/95	12/06/95	12/06/95			
Multiplier		1	1	1			
Filename Reference		FRN29206.D	FMN29206.D	FDN29206.D			

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP12
Matrix : SOLID

Analyst : BBS
Supervisor : [illegible]
Units : mg/Kg

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	0.50	86%	58-130
Surrogate Recovery		88%	53-147
Date Analyzed		12/06/95	
Multiplier		1	
Filename Reference		MD0601E1.D	

Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP12
Matrix : SOLID

Analyst : BB
Supervisor : CD
Units : mg/Kg

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	0.50	106%	58-130
Surrogate Recovery		79%	53-147
Date Analyzed		12/07/95	
Multiplier		1	
Filename Reference		MD0701E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP12
Matrix : SOLID

Analyst : TS
Supervisor : CM
Units : mg/Kg

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	0.50	108%	58-130
Surrogate Recovery		114%	53-147
Date Analyzed		12/08/95	
Multiplier		1	
Filename Reference		MD0801E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

Inchcape Testing Services
Environmental Laboratories

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

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	PO#	TOM PRICE
	GERMAN AUTO CRAFT. - AG		12/4/95 RL

Send Report Attention of: Tom Price | Report Due: / / | Verbal Due: / /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHG/BTEX	Condition of Samples	Initial
1	ETM-1-22	11/28/95	0855		S	21-22	1	Acet Sleeve	X		
2	ETM-1-24	"	—		S	23.5-24	1	"	X		
3	ETM-1-25.5	"	9:40		S	25-25.5	1	"	X		
4	ETM-1-17	"	—		S	16.5-17	1	"	X		
5	ETM-2-22	"	12:10		S	21.5-22	1	"	X		
6	ETM-7-23	11/29/95	15:15		S	23	1	"	X		
7	ETM-7-26	"	15:40		S	26	1	"	X		

Sampled by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Tom Price	11/29/95	15:40	
Relinquished by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by:(Signature)	Date/Time	Received by Lab:	Date/Time
			11/29/95 940

Remarks: special pricing this project → normal turn-around-time

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Magliocco Dr. #2 San Jose CA 95128
PHONE : 408 248 5892 FAX :

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9511292 CLIENT PROJECT ID: _____

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): 4°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: ____	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: SP Date: 11/29/95 Project Manager: KD Date: 12/4/95

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95151
Tel: 408-452-8192
Fax: 408-452-8198

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

Workorder # : 9511293
Date Received : 11/29/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9511293- 1	ETM-1
9511293- 2	ETM-2
9511293- 3	ETM-3
9511293- 4	ETM-4
9511293- 5	ETM-5
9511293- 6	ETM-7
9511293- 7	ETM-30
9511293- 8	ETM-31
9511293- 9	TRIP.B.

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

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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.

rucka/heath for
Susan Kraska Yeager
Laboratory Director

12/19/95
Date

Project Manager

This report consists of 12 pages.

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

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

Workorder # : 9511293
Date Received : 11/29/95
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
9511293- 1	ETM-1	WATER	11/28/95	TPHgBTEX
9511293- 2	ETM-2	WATER	11/28/95	TPHgBTEX
9511293- 3	ETM-3	WATER	11/28/95	TPHgBTEX
9511293- 4	ETM-4	WATER	11/28/95	TPHgBTEX
9511293- 5	ETM-5	WATER	11/29/95	TPHgBTEX
9511293- 6	ETM-7	WATER	11/29/95	TPHgBTEX
9511293- 7	ETM-30	WATER	11/28/95	TPHgBTEX
9511293- 8	ETM-31	WATER	11/29/95	TPHgBTEX
9511293- 9	TRIP.B.	WATER	11/28/95	TPHgBTEX

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

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

Workorder # : 9511293
Date Received : 11/29/95
Project ID : GERMAN AUTOCR. FT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this workorder.
- The concentrations reported as gasoline for samples ETM-5 and ETM-31 are primarily due to the presence of discrete peaks not indicative of gasoline.
- The confirmations for samples ETM-5, ETM-31, and TRIP.B. were reanalyzed outside of hold time due to suspected carryover in the original confirmation analysis.

Cheryl Balman 12/13/95
Department Supervisor Date

Chemist 12/9/95
Date

Organic Analysis Data Sheet

Petroleum Hydrocarbons as Gasoline with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9511293

Matrix : WATER

Client Project ID : GERMAN AUTOCRAF

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID ETM-1 Lab ID 9511293-01	Client ID ETM-2 Lab ID 9511293-02	Client ID ETM-3 Lab ID 9511293-03	Client ID ETM-4 Lab ID 9511293-04	Client ID ETM-5 Lab ID 9511293-05
Benzene	0.50	1600	1700	47	12000	ND
Toluene	0.50	2200	2300	110	24000	ND
Ethylbenzene	0.50	4000	6200	130	25000	ND
Total Xylenes	0.50	5900	16000	120	94000	1.4
TPH as Gasoline	50	110000	140000	6200	1200000	170
Surrogate Recovery		100%	99%	88%	101%	111%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		11/28/95	11/28/95	11/28/95	11/28/95	11/29/95
Date Analyzed		12/01/95	12/01/95	12/04/95	12/08/95	12/04/95
RLMF		1000	1000	25	2500	1
Filename Reference		FPN29301.D	FPN29302.D	FRN29303.D	FTN29304.D	FRN29305.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.

Sayed Syed 12/19/95

Analyst Date

Cheryl Balmer 12/19/95

Supervisor Date

Issued on 12/19/95 @ 1:26 pm

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

Lab Workorder : 9511293 | Client Project ID : GERMAN AUTOCRAF

Matrix : WATER | Units : ug/L

Compound Name	Method Reporting Limit*	Client ID ETM-7 Lab ID 9511293-06	Client ID ETM-30 Lab ID 9511293-07	Client ID ETM-31 Lab ID 9511293-08	Client ID TRIP.B. Lab ID 9511293-09	Client ID Lab ID METHOD BLANK
Benzene	0.50	1500	2300	ND	ND	ND
Toluene	0.50	1800	1800	ND	ND	ND
Ethylbenzene	0.50	3700	10000	ND	ND	ND
Total Xylenes	0.50	4500	37000	2.0	ND	ND
TPH as Gasoline	50	160000	410000	170	ND	ND
Surrogate Recovery		113%	123%	114%	103%	110%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		11/29/95	11/28/95	11/29/95	11/28/95	N/A
Date Analyzed		12/05/95	12/02/95	12/04/95	12/01/95	12/04/95
RLMF		500	1000	1	1	1
Filename Reference		FTN29306.D	FPN29307.D	FRN29308.D	FPN29309.D	BD0401E1.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 12/19/95 Date

Supervisor 12/19/95 Date

Issued on 12/19/95 @ 1:27 pm

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

Lab Workorder : 9511293
Matrix : WATER

Client Project ID : GERMAN AUTOCRAF
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	METHOD BLANK	METHOD BLANK		
Benzene	0.50	ND	ND	ND		
Toluene	0.50	ND	ND	ND		
Ethylbenzene	0.50	ND	ND	ND		
Total Xylenes	0.50	ND	ND	ND		
TPH as Gasoline	50	ND	ND	ND		
Surrogate Recovery		108%	104%	102%		
Instrument ID		HP4	HP4	HP4		
Date Sampled		N/A	N/A	N/A		
Date Analyzed		12/05/95	12/08/95	12/01/95		
RLMF		1	1	1		
Filename Reference		BD0501E1.D	BD0802E1.D	BD0101E1.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 Boyd Byrd 12/11/95 Date

Supervisor Cheryl Bulman 12/11/95 Date

Issued on 12/11/95 @ 7:07 pm

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

Instrument ID : HP4
Matrix : LIQUID

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

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	10	101%	52-133
Toluene	10	98%	57-136
Ethylbenzene	10	104%	56-139
Total Xylenes	10	104%	56-141
Surrogate Recovery		103%	61-139
Date Analyzed		12/04/95	
Multiplier		1	
Filename Reference		MD0401E1.D	

Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4
Matrix : LIQUID

Analyst : SBS
Supervisor : G
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	88%	67-127
[illegible]rrogate Recovery		115%	61-139
[illegible]te Analyzed		12/05/95	
M[illegible]ltiplier		1	
Filename Reference		MD0501E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4
Matrix : LIQUID

Analyst : GRL
Supervisor : ds
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	10	113%	52-133
Toluene	10	113%	57-136
Ethylbenzene	10	124%	56-139
Total Xylenes	10	121%	56-141
rrogate Recovery		108%	61-139
te Analyzed		12/08/95	
ltiplier		1	
Filename Reference		MD0801E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4
Matrix : LIQUID

Analyst : SBS
Supervisor : W
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	86%	67-127
Surrogate Recovery		95%	61-139
Date Analyzed		12/01/95	
Multiplier		1	
Filename Reference		MD0103E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

[redacted] Inchcape Testing Services [redacted] 961 [redacted] ourse [redacted], Sui[redacted] 9[redacted]293 [redacted]
Laboratories
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME		
	German Autocraft		
Send Report Attention of: Tom Price	Report Due / /	Verbal Due / /	

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPH & BTEX	Condition of Samples	Initial
1	ETM-1	11/28/95	0950		Water	ETM-1	2	40 ml VOA	X		
2	ETM-2		1335			ETM-2	2		X		
3	ETM-3		1407			ETM-3	2		X		
4	ETM-4		1440			ETM-4	2		X		
5	ETM-5	11/29/95	0950			ETM-5	2		X		
6	ETM-7		1620			ETM-7	2		X		
7	ETM-30	11/28/95	0950			ETM-30	2		X		
8	ETM-31	11/29/95	0910			ETM-31	2		X		
9	Trip Blank	11/28/95					2		X		

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Tom Price	11/29/95	15:40	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time 11/29/95 1940

Remarks: * special pricing this project * → normal turn around time.

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Magliocco Dr. #2 San Jose 95128
PHONE : 4082485892 FAX :

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9511293 CLIENT PROJECT ID: German Autocraft

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): 4°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: JP Date: 11/29/95 Project Manager: _____ Date: 12/4/95

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 # : 9512028
Date Received : 12/01/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9512028- 1	ETM-9
9512028- 2	ETM-32
9512028- 3	ETM-10
9512028- 4	ETM-11
9512028- 5	ETM-12
9512028- 6	ETM-13
9512028- 7	ETM-14
9512028- 8	ETM-33
9512028- 9	TBLANK
9512028-10	ETM-15

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.

Susan Kraska Yeager
Laboratory Director

12-18-95
Date

Project Manager

This report consists of 19 pages.

GC VOA REPORT DESCRIPTION

Organic Analysis Data Sheets (OADS)
OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Inchcape Testing Services ID number.

Surrogate Recovery Summary (SRS)
SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labeled "Total Out."

Matrix Spike Recovery Form (MSR)
MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers
Inchcape Testing Services uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- **U** - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- **B** - Indicates that the compound was detected in the associated method blank.
- **J** - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- **E** - Indicates that the reported amount exceeded the linear range of the instrument calibration.
- **D** - Indicates that the compound was detected in an analysis performed at a secondary dilution.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

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

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

Workorder # : 9512028
Date Received : 12/01/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9512028- 6	ETM-13	WATER	12/01/95	8010

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

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

Workorder # : 9512028
Date Received : 12/01/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: VOA

QA/QC SUMMARY :

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

M. Hosseini 12/12/95
Department Supervisor Date

Kamel G. Kamel 12/12/95
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010
ANAMETRIX, INC. (408)432-8192

Project ID : GERMAN A
Sample ID : ETM-13
Matrix : WATER
Date Sampled :12/ 1/95
Date Analyzed :12/11/95
Instrument ID : HP24

Anametrix ID : 9512028-06
Analyst : KL
Supervisor : DL

Dilution Factor : 20.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	20.	ND	U
74-87-3	Chloromethane	20.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	10.	ND	U
76-13-1	Trichlorotrifluoroethane	10.	ND	U
75-35-4	1,1-Dichloroethene	10.	ND	U
75-09-2	Methylene chloride	20.	ND	U
156-60-5	trans-1,2-Dichloroethene	10.	ND	U
75-34-3	1,1-Dichloroethane	10.	ND	U
156-59-2	cis-1,2-Dichloroethene	10.	ND	U
67-66-3	Chloroform	10.	ND	U
71-55-6	1,1,1-Trichloroethane	10.	ND	U
56-23-5	Carbon tetrachloride	10.	ND	U
107-06-2	1,2-Dichloroethane	10.	ND	U
79-01-6	Trichloroethene	10.	ND	U
78-87-5	1,2-Dichloropropane	10.	ND	U
75-27-4	Bromodichloromethane	10.	ND	U
110-75-8	2-Chloroethylvinylether	20.	ND	U
10061-01-5	cis-1,3-Dichloropropene	10.	ND	U
10061-02-6	trans-1,3-Dichloropropene	10.	ND	U
79-00-5	1,1,2-Trichloroethane	10.	ND	U
127-18-4	Tetrachloroethene	10.	530.	
124-48-1	Dibromochloromethane	10.	ND	U
108-90-7	Chlorobenzene	10.	ND	U
75-25-2	Bromoform	10.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010
ANAMETRIX, INC. (408)432-8192

Project ID : GERMAN
Sample ID : VBLKB1
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :12/11/95
Instrument ID : HP24

Anametrix ID : BD1102I1
Analyst : KK
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	ND	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8010
ANAMETRIX, INC. (408)432-8192

Project ID : GERMAN A
Matrix : LIQUID

Anametrix ID : 9512028
Analyst : KK
Supervisor : ph

	SAMPLE ID	SU1	SU2	SU3
1	VBLKB1	70	78	87
2	ETM-13	71	85	85
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

	QC LIMITS
SU1 = Bromochloromethane	(33-141)
SU2 = 1-Chloro-2-fluorobenze	(53-125)
SU3 = 2-Bromochlorobenzene	(60-118)

* Values outside of Anametrix QC limits

EPA METHOD 8010
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

LABORATORY CONTROL SAMPLE

Sample ID: LAB CONTROL SAMPLE
Batch: 12028
Matrix: WATER
Date Analyzed: 12/11/95

Laboratory ID: MD1101I1
Instrument ID: HP24
Concentration Units: ug/L
Analyst: kk
Supervisor: DL

COMPOUND NAME	SPIKE AMOUNT	LCS REC	%REC LCS	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	9.4	94%	65-116
1,1-Dichloroethene	10	9.4	94%	64-125
trans-1,2-Dichloroethene	10	9.6	96%	77-113
1,1-Dichloroethane	10	10.3	103%	85-129
cis-1,2-Dichloroethene	10	10.7	107%	78-130
1,1,1-Trichloroethane	10	8.9	89%	83-125
Trichloroethene	10	9.8	98%	76-124
Tetrachloroethene	10	9.3	93%	80-118
Chlorobenzene	10	9.1	91%	81-130
1,3-Dichlorobenzene	10	8.5	85%	82-115
1,4-Dichlorobenzene	10	8.6	86%	85-122
1,2-Dichlorobenzene	10	9.0	90%	86-122

SURROGATE NAME	SPIKE AMT	SURR. REC	% REC	% REC LIMITS
Bromochloromethane	5	4.4	88%	33-141
1-Chloro-2-fluorobenzene	5	4.8	96%	53-125
2-Bromochlorobenzene	5	4.7	94%	60-118

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

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

Workorder # : 9512028
Date Received : 12/01/95
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
9512028- 1	ETM-9	WATER	11/30/95	TPHgBTEX
9512028- 2	ETM-32	WATER	11/30/95	TPHgBTEX
9512028- 3	ETM-10	WATER	11/30/95	TPHgBTEX
9512028- 4	ETM-11	WATER	12/01/95	TPHgBTEX
9512028- 5	ETM-12	WATER	12/01/95	TPHgBTEX
9512028- 6	ETM-13	WATER	12/01/95	TPHgBTEX
9512028- 7	ETM-14	WATER	12/01/95	TPHgBTEX
9512028- 8	ETM-33	WATER	12/01/95	TPHgBTEX
9512028- 9	TBLANK	WATER	12/01/95	TPHgBTEX
9512028-10	ETM-15	WATER	12/01/95	TPHgBTEX

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

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

Workorder # : 9512028
Date Received : 12/01/95
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.
- The concentration reported as gasoline for sample ETM-13 is primarily due to the presence of a discrete peak not indicative of gasoline.

Cheryl Baerman 12/13/95
Department Supervisor Date

Boyd Syd 12/13/95
Chemist Date

Organic Analysis Data Sheet
Total Petroleum Hydrocarbons - [redacted]line with BTEX
ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9512028
Matrix : WATER

Client Project ID : GERMAN AUTOCRAF
Units : ug/L

Compound Name	Method Reporting Limit*	Client ID ETM-9 Lab ID 9512028-01	Client ID ETM-32 Lab ID 9512028-02	Client ID ETM-10 Lab ID 9512028-03	Client ID ETM-11 Lab ID 9512028-04	Client ID ETM-12 Lab ID 9512028-05
Benzene	0.50	22	18	ND	ND	5.9
Toluene	0.50	36	32	ND	ND	3.9
Ethylbenzene	0.50	68	57	ND	ND	3.0
Total Xylenes	0.50	45	45	1.0	ND	44
TPH as Gasoline	50	2500	1900	ND	ND	200
Surrogate Recovery		119%	124%	107%	107%	86%
Instrument ID		HP4	HP4	HP4	HP4	HP6
Date Sampled		11/30/95	11/30/95	11/30/95	12/01/95	12/01/95
Date Analyzed		12/09/95	12/09/95	12/09/95	12/09/95	12/12/95
RLMF		10	10	1	1	2
Filename Reference		FPD02801.D	FPD02802.D	FPD02803.D	FPD02804.D	FCD02805.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.

Sayed Syed 12/13/95
Analyst Date

Cheryl Balman 12/13/95
Supervisor Date

Issued on 12/13/95 @ 4:19 pm

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

Lab Workorder : 9512028
Matrix : WATER

Client Project ID : GERMAN AUTOCRAF
Units : ug/L

Compound Name	Method Reporting Limit*	Client ID ETM-13 Lab ID 9512028-06	Client ID ETM-14 Lab ID 9512028-07	Client ID ETM-33 Lab ID 9512028-08	Client ID TBLANK Lab ID 9512028-09	Client ID ETM-15 Lab ID 9512028-10
Benzene	0.50	ND	930	ND	ND	ND
Toluene	0.50	ND	2000	ND	ND	ND
Ethylbenzene	0.50	ND	6200	ND	ND	ND
Total Xylenes	0.50	ND	22000	ND	ND	1.0
TPH as Gasoline	50	220	120000	ND	ND	ND
Surrogate Recovery		102%	103%	106%	112%	109%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		12/01/95	12/01/95	12/01/95	12/01/95	12/01/95
Date Analyzed		12/09/95	12/11/95	12/08/95	12/08/95	12/08/95
RLMF		1	1000	1	1	1
Filename Reference		FPD02806.D	FPD02807.D	FPD02808.D	FPD02809.D	FPD02810.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.

Daniel Byrd 12/13/95
Analyst Date

Cheryl Baeza 12/13/95
Supervisor Date

Issued on 12/13/95 @ 2:38 pm

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

Lab Workorder : 9512028
Matrix : WATER

Client Project ID : GERMAN AUTOCRAF
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	METHOD BLANK	METHOD BLANK		
Benzene	0.50	ND	ND	ND		
Toluene	0.50	ND	ND	ND		
Ethylbenzene	0.50	ND	ND	ND		
Total Xylenes	0.50	ND	ND	ND		
TPH as Gasoline	50	ND	ND	ND		
Surrogate Recovery		122%	107%	87%		
Instrument ID		HP4	HP4	HP6		
Date Sampled		N/A	N/A	N/A		
Date Analyzed		12/08/95	12/11/95	12/11/95		
RLMF		1	1	1		
Filename Reference		BD0801E1.D	BD1101E1.D	BD1101E1.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 Dayel Byrd 12/13/95 Date

Supervisor Cheryl Balmer 12/13/95 Date

Issued on 12/13/95 @ 4:22 pm

Matrix Spike Report

Total Petroleum Hydrocarbons as BTEX

ITS - Anametrix Laboratories - (408)432-8192

Project ID : GERMAN AUTOCRAFT
Sample ID : ETM-15
Matrix : WATER
Date Sampled : 12/01/95

Laboratory ID : 9512028-10
Analyst : BRB
Supervisor : ∞
Instrument ID : HP4
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Benzene	10	ND	87%	106%	45-139	-20%	30
Toluene	10	ND	95%	115%	51-138	-19%	30
Ethylbenzene	10	ND	101%	126%	48-146	-22%	30
Total Xylenes	10	1.0	113%	133%	50-139	-16%	30
Surrogate Recovery		109%	104%	112%			
Date Analyzed		12/08/95	12/08/95	12/08/95			
Multiplier		1	1	1			
Filename Reference		FPD02810.D	FMD02810.D	FDD02810.D			

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4
Matrix : LIQUID

Analyst : SBS
Supervisor : a
Units : ug/L

MPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	10	113%	52-133
Toluene	10	113%	57-136
Ethylbenzene	10	124%	56-139
Total Xylenes	10	121%	56-141
Surrogate Recovery		108%	61-139
Date Analyzed		12/08/95	
Multiplier		1	
Filename Reference		MD0801E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4 Analyst : BBS

Matrix : LIQUID Supervisor : CS

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	10	117%	52-133
Toluene	10	118%	57-136
Ethylbenzene	10	125%	56-139
Total Xylenes	10	125%	56-141
Surrogate Recovery		110%	61-139
Date Analyzed		12/11/95	
Multiplier		1	
Filename Reference		MD1101E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP6
Matrix : LIQUID

Analyst : SBB
Supervisor : Ø
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	10	97%	52-133
Toluene	10	88%	57-136
Ethylbenzene	10	90%	56-139
Total Xylenes	10	92%	56-141
Surrogate Recovery		97%	61-139
Date Analyzed		12/11/95	
Multiplier		1	
Filename Reference		MD1101E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

8241

Inchcape Testing Services
Anametrix Laboratories

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

9512028

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER | PROJECT NAME German Autocraft

Send Report Attention of: Tom Price, Environmental Testing & Mngt. | Report Due / / | Verbal Due / /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPH g / BTEX 8010	Condition of Samples	Initial
1	ETM-9	11/30/95	1430		L	Boring ETM-9	2	40 ml VOA	X		
2	ETM-32	11/30/95	0950		L	Boring ETM-32	2		X		
3	ETM-10	11/30/95	1615		L	Boring ETM-10	2		X		
4	ETM-11	12/1/95	1055		L	Boring ETM-11	2		X		
5	ETM-12	12/1/95	1115		L	ETM-12	2		X		
6	ETM-13	12/1/95	1250		L	ETM-13	2		X X		
7	ETM-14	12/1/95	1430		L	ETM-14	2		X	Analyze marked VOA first.	
8	ETM-33	12/1/95	0830		L	ETM-33	2		X		
9	Trip Blank	12/1/95	1150		L		2		X		
10	ETM-15	12/1/95	1595		L	ETM-15	2		X	Analyze marked VOA first	

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	12/1/95	[signature]	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	Dec 19 '95		
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time
[signature]		[signature]	12/1/95 7:00

Remarks:

COMPANY:
ADDRESS:
PHONE : FAX :

Inchcape Testing Services
Environmental Laboratories

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

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9512028 CLIENT PROJECT ID: German autocraft

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): 4°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: JP Date: 12/4/95 Project Manager: [signature] Date: 12/04/95

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

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

Workorder # : 9512105
Date Received : 12/08/95
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9512105- 1	ETM-7
9512105- 2	FBLNK

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.

Susan Kraska Yeager
Laboratory Director

12-20-95
Date

Project Manager

This report consists of 11 pages.

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

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

Workorder # : 9512105
Date Received : 12/08/95
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
9512105- 1	ETM-7	WATER	12/08/95	TPHgBTEX
9512105- 2	FBLNK	WATER	12/08/95	TPHgBTEX

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

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

Workorder # : 9512105
Date Received : 12/08/95
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 12/14/95 Date

Chemist 12/19/95 Date

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9512105-01	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-7
Date Sampled:	12/8/95	Instrument ID:	HP4
Date Analyzed:	12/13/95	Surrogate Recovery:	101%
Date Released:	12/19/95	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	10	50	ND
Benzene	10	5.0	18
Toluene	10	5.0	24
Ethylbenzene	10	5.0	37
Total Xylenes	10	5.0	36
Gasoline	10	500	1300

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8020) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Sayed Syed 12/19/95
Analyst Date

Cheryl Balman 12/14/95
Supervisor Date

Issued on 12/19/95 at 2:43 pm

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9512105-02	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	FBLNK
Date Sampled:	12/8/95	Instrument ID:	HP6
Date Analyzed:	12/14/95	Surrogate Recovery:	83%
Date Released:	12/19/95	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.0
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.4
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8020) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Analyst Dayal Byrd 12/19/95 Date

Supervisor Cheryl Balmer 12/19/95 Date

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BD1301E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	METHOD BLANK
Date Sampled:	N/A	Instrument ID:	HP4
Date Analyzed:	12/13/95	Surrogate Recovery:	113%
Date Released:	12/19/95	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8020) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Analyst Date 12/19/95

Supervisor Date 12/19/95

Issued on 12/19/95 at 11:32 am

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BD1401E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	METHOD BLANK
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	12/14/95	Surrogate Recovery:	86%
Date Released:	12/19/95	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8020) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Analyst Jayce Syed 12/19/95 Date

Supervisor Cheryl Brown 12/19/95 Date

Issued on 12/19/95 at 5:45 pm

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MD1301E1
Matrix:	WATER	Date Released:	12/19/95
Date Analyzed:	12/13/95	Instrument ID:	HP4
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MTBE	10	8.8	88%
Benzene	10	9.1	91%
Toluene	10	10.5	105%
Ethylbenzene	10	11.4	114%
Total Xylenes	10	11.3	113%
p-Bromofluorobenzene			113%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MD1401E1
Matrix:	WATER	Date Released:	12/19/95
Date Analyzed:	12/14/95	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	470	94%
p-Bromofluorobenzene			83%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

Inchcape Testing Services
Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 4[illegible]

9512005 [illegible]

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME		
	German Autocraft,		
Send Report Attention of:	Report Due	Verbal Due	
Tom Price	/ /	/ /	

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPH g/BTEX	Condition of Samples	Initial
(1)	ETM-7	12/8/95	2:55		W		2	40 ml VOA's	✓		
(2)	FieldBlank	"	3:00		W		2	2x VOA	✓		

Sampled by: (Signature)	Date/Time 12/8/95 6:40	Received by: (Signature)	Date/Time	Remarks: Normal Turn Around Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time 12/8/95 1640	

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Mogliocco Dr. #2
San Jose CA 95128
PHONE : FAX :

Inchcape Testing Services
Environmental Laboratories

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

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9512105 CLIENT PROJECT ID: German Autocraft

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): 5°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: 1	(YES)	NO	N/A
Trip blanks received with sample batch? # of Sets: ____	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: DM Date: 12/8/95 Project Manager: [signature] Date: 12/12/95

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

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

Workorder # : 9603206
Date Received : 03/25/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9603206- 1	ETM-17
9603206- 2	ETM-18
9603206- 3	ETM-19
9603206- 4	ETM-20
9603206- 5	ETM-42
9603206- 6	ETM-21
9603206- 7	ETM-22
9603206- 8	ETM-23
9603206- 9	ETM-24
9603206-10	ETM-25
9603206-11	ETM-43
9603206-12	EQUIP.B.
9603206-13	TRIP.B.
9603206-14	ETM-26
9603206-15	ETM-27
9603206-16	ETM-28
9603206-17	ETM-29
9603206-18	ETM-30
9603206-19	ETM-44
9603206-20	TRIP-2

This report is organized in sections according to the specific Inchcape 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 Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape 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.

Project Manager

4/9/96
Date

This report consists of 44 pages.

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

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

Workorder # : 9603206
Date Received : 03/25/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9603206- 1	ETM-17	WATER	03/25/96	TPHgBTEX
9603206- 2	ETM-18	WATER	03/25/96	TPHgBTEX
9603206- 3	ETM-19	WATER	03/25/96	TPHgBTEX
9603206- 4	ETM-20	WATER	03/25/96	TPHgBTEX
9603206- 5	ETM-42	WATER	03/25/96	TPHgBTEX
9603206- 6	ETM-21	WATER	03/26/96	TPHgBTEX
9603206- 7	ETM-22	WATER	03/26/96	TPHgBTEX
9603206- 8	ETM-23	WATER	03/26/96	TPHgBTEX
9603206- 9	ETM-24	WATER	03/26/96	TPHgBTEX
9603206-10	ETM-25	WATER	03/26/96	TPHgBTEX
9603206-11	ETM-43	WATER	03/26/96	TPHgBTEX
9603206-12	EQUIP.B.	WATER	03/26/96	TPHgBTEX
9603206-13	TRIP.B.	WATER	03/26/96	TPHgBTEX
9603206-14	ETM-26	WATER	03/27/96	TPHgBTEX
9603206-15	ETM-27	WATER	03/27/96	TPHgBTEX
9603206-16	ETM-28	WATER	03/27/96	TPHgBTEX
9603206-17	ETM-29	WATER	03/27/96	TPHgBTEX
9603206-18	ETM-30	WATER	03/27/96	TPHgBTEX
9603206-19	ETM-44	WATER	03/27/96	TPHgBTEX
9603206-20	TRIP-2	WATER	03/27/96	TPHgBTEX

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

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

Workorder # : 9603206
Date Received : 03/25/96
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.
- The concentrations reported as gasoline for samples ETM-21, ETM-25, ETM-26, and ETM-44 are primarily due to the presence of a discrete peak not indicative of gasoline.
- The concentration reported as gasoline for sample ETM-43 is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- For sample ETM-25, the relative percent difference between the primary and confirmation concentrations for benzene is greater than 25%. The lower of the two values is reported.
- For samples ETM-43 and EQUIP.B., the relative percent differences between the primary and confirmation concentrations for total xylenes are greater than 25%. The lower of the two values is reported in each case.
- For samples TRIP.B. and TRIP2, the relative percent differences between the primary and confirmation concentrations for toluene and total xylenes are greater than 25%. The lower of the two values is reported in each case.
- Values flagged with a "J" qualifier are estimated concentrations between one-half of the reporting limit and the reporting limit.

Department Supervisor 4/16/96 Date

Chemist Reggie Dawson 4/18/96 Date

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-01	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-17
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	4/2/96	Surrogate Recovery:	105%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	50	250	360
Benzene	50	25	430
Toluene	50	25	98
Ethylbenzene	50	25	1400
Total Xylenes	50	25	270
Gasoline	50	2500	12000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Issued on 4/5/96 at 12:55 pm

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-02	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-18
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	106%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	10	50	84
Benzene	10	5.0	19
Toluene	10	5.0	5.3
Ethylbenzene	10	5.0	93
Total Xylenes	10	5.0	100
Gasoline	10	500	2600

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-03	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-19
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	105%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-04	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-20
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	3/30/96	Surrogate Recovery:	93%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	2500	12500	ND
Benzene	2500	1250	7300
Toluene	2500	1250	10000
Ethylbenzene	2500	1250	1500
Total Xylenes	2500	1250	3500
Gasoline	2500	125000	700000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-05	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-42
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	98%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	100	500	670
Benzene	100	50	650
Toluene	100	50	190
Ethylbenzene	100	50	1600
Total Xylenes	100	50	320
Gasoline	100	5000	15000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

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TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-06	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-21
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	96%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	0.5
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.4
Gasoline	1	50	70

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-07	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-22
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	104%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

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TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-08	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-23
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	108%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	100	500	ND
Benzene	100	50	470
Toluene	100	50	ND
Ethylbenzene	100	50	960
Total Xylenes	100	50	1200
Gasoline	100	5000	22000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

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TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-09	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-24
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	105%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	25	125	80 J
Benzene	25	12.5	18
Toluene	25	12.5	170
Ethylbenzene	25	12.5	190
Total Xylenes	25	12.5	140
Gasoline	25	1250	3700

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-10	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-25
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	92%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	0.8
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	760

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-11	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-43
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	102%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.6
Gasoline	1	50	130

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-12	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	EQUIP.B.
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	106%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.2
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.8
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-13	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	TRIP.B.
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	104%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.1
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.9
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-14	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-26
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	104%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	180

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-15	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-27
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	107%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	50	250	ND
Benzene	50	25	97
Toluene	50	25	120
Ethylbenzene	50	25	68
Total Xylenes	50	25	34
Gasoline	50	2500	6000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-16	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-28
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	111%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	2	10	13
Benzene	2	1.0	32
Toluene	2	1.0	2.6
Ethylbenzene	2	1.0	4.4
Total Xylenes	2	1.0	2.0
Gasoline	2	100	540

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-17	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-29
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	4/2/96	Surrogate Recovery:	101%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	250	1250	1200 J
Benzene	250	125	880
Toluene	250	125	640
Ethylbenzene	250	125	2300
Total Xylenes	250	125	6900
Gasoline	250	12500	35000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-18	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-30
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	92%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	25	125	230
Benzene	25	12.5	410
Toluene	25	12.5	96
Ethylbenzene	25	12.5	530
Total Xylenes	25	12.5	690
Gasoline	25	1250	7500

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-19	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-44
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	95%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	170

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603206-20	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	TRIP-2
Date Sampled:	3/27/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	105%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.1
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.8
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BM2901E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	3/29/96	Surrogate Recovery:	100%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0101E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/1/96	Surrogate Recovery:	99%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0201E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/2/96	Surrogate Recovery:	101%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0301E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	107%
Date Released:	4/4/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9603206-03
Client Sample ID:	ETM-19	Date Released:	4/5/96
Date Sampled:	3/25/96	Instrument ID:	HP6
Date Analyzed:	3/29/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Gasoline	500	0	470	94%	470	94%	0%
p-Bromofluorobenzene				95%		99%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9603206-06
Client Sample ID:	ETM-21	Date Released:	4/5/96
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	4/1/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
MtBE	10.0	0	13.1	131%	13.9	139%	6%
Benzene	10.0	0	10.9	109%	11.0	110%	1%
Toluene	10.0	0.5	10.6	101%	10.2	97%	-4%
Ethylbenzene	10.0	0	10.5	105%	10.2	102%	-3%
Total Xylenes	10.0	1.4	10.5	91%	10.2	88%	-3%
p-Bromofluorobenzene				103%		98%	

Quality control limits for MS/MSD recovery are 50-150% for MtBE, 45-139% for benzene, 51-138% for toluene, 48-146% for ethylbenzene, and 50-139% for total xylenes.

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9603206-08
Client Sample ID:	ETM-23	Date Released:	4/5/96
Date Sampled:	3/26/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
MtBE	1000	0	1070	107%	1010	101%	-6%
Benzene	1000	470	1520	105%	1440	97%	-6%
Toluene	1000	0	1110	111%	1030	103%	-8%
Ethylbenzene	1000	960	2010	105%	1970	101%	-2%
Total Xylenes	1000	1200	2130	93%	2120	92%	0%
p-Bromofluorobenzene				107%		113%	

Quality control limits for MS/MSD recovery are 50-150% for MtBE, 45-139% for benzene, 51-138% for toluene, 48-146% for ethylbenzene, and 50-139% for total xylenes.

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

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LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN CRAFT	Anametrix ID:	MM2901E1
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	3/29/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	500	100%
p-Bromofluorobenzene			99%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NM2901E3
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	3/29/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	8.2	82%
Benzene	10.0	9.1	91%
Toluene	10.0	9.2	92%
Ethylbenzene	10.0	9.2	92%
Total Xylenes	10.0	8.9	89%
p-Bromofluorobenzene			102%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
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LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA0101E3
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/1/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	10.7	107%
Benzene	10.0	10.3	103%
Toluene	10.0	10.0	100%
Ethylbenzene	10.0	10.3	103%
Total Xylenes	10.0	9.9	99%
p-Bromofluorobenzene			101%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
INCHCAPE TESTING SERVICES - ANAMETRIX
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LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN CRAFT	Anametrix ID:	NA0101E1
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/1/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	440	88%
p-Bromofluorobenzene			92%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN CRAFT	Anametrix ID:	MA0201E1
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/2/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	490	98%
p-Bromofluorobenzene			101%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NA0201E3
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/2/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	10.4	104%
Benzene	10.0	10.0	100%
Toluene	10.0	10.1	101%
Ethylbenzene	10.0	10.4	104%
Total Xylenes	10.0	9.8	98%
p-Bromofluorobenzene			110%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
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LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA0301E3
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/3/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	9.0	90%
Benzene	10.0	10.0	100%
Toluene	10.0	10.2	102%
Ethylbenzene	10.0	10.5	105%
Total Xylenes	10.0	10.4	104%
p-Bromofluorobenzene			107%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN CRAFT	Anametrix ID:	NA0301E1
Matrix:	WATER	Date Released:	4/5/96
Date Analyzed:	4/3/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	490	98%
p-Bromofluorobenzene			104%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

Inchcape Testing Services
Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	Send Report Attention of:	Report Due	Verbal Due
	German Autocraft	Tom Price	Standard	/ /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHg	BTEX	TPHg/BTEX	Condition of Samples	Initial
6	1	ETM-21	3/26/96	0925	Liq		2	40 ml VOA	X	X	✓		
7	2	ETM-22		1105			2		X	X	✓		
8	3	ETM-23		1230			2		X	X	✓		
9	4	ETM-24		1655			2		X	X	✓		
10	5	ETM-25		1615			2		X	X	✓		
11	6	ETM-43		1705			2		X	X	✓		
12	7	Equipment Blank		1605			2		X	X	✓		
13	8	Trip Blank		1700			2		X	X	✓		

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]		[signature]	3/26/96 20:30
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time
[signature]		[signature]	3/26/96 2030

Remarks: 1

COMPANY: Environmental Testing & Management
ADDRESS: 2916 Magliocco #2, San Jose, CA
PHONE : 248-5892 FAX : same

Inchcape Testing Services
Anametrix Laboratories

19[redacted] Concourse Drive, [redacted]
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	Send Report Attention of:	Report Due	Verbal Due
	German Autocraft	Tom Price	/ /	/ /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHg/BTEX	Condition of Samples	Initial
14	ETM-26	3/27/96	1025	H_2O			2	40 ml VOA	X		
15	ETM-27		1110				2		X		
16	ETM-28		1210				2		X		
17	ETM-29		1505				2		X		
18	ETM-30						2		X		
19	ETM-44		1705				2		X		
20	Trip Blank		1630				2		X		

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	3/27/96/1705		
Relinquished by:(Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**
Relinquished by:(Signature)	**Date/Time**	**Received by Lab:**	**Date/Time**
			3/27/ 17

Remarks:

COMPANY: Environmental Testing & Management
ADDRESS:
PHONE : FAX :

Inchcape Testing Services
Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

9643206 18

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER: Environmental Testing & Management
PROJECT NAME: German Autocraft
Send Report Attention of: Tom Price
Report Due: / /
Verbal Due: / /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHg	BTEX	TPHg/BTEX	Condition of Samples	Initial
1	ETM-17	3/25/96	11:10	LI		Probe Hole ETM-17	2	40 ml VOAs	X	X	✓		
2	ETM-18		1135			Probe Hole ETM-18			X	X	✓		
3	ETM-19		1225			Probe Hole ETM-19			X	X	✓		
4	ETM-20		1505			Probe Hole ETM-20			X	X	✓	2 vials in bubbles	
5	ETM-42		1715			Probe Hole ETM-42			X	X	✓		

Sampled by: (Signature) Tom Price — Date/Time: 3/25/96 1020 PM
Received by: (Signature) — Date/Time:
Relinquished by: (Signature) — Date/Time:
Received by: (Signature) — Date/Time:
Relinquished by: (Signature) — Date/Time:
Received by Lab — Date/Time: 3/25/96 1902

Remarks: Normal Turn Around Time
Expect more samples this week, please issue only one report for all samples received this week.

COMPANY: Environmental Testing & Management
ADDRESS: 2716 Magliocco #2, San Jose, CA 95128
PHONE: 408 248 5892 FAX:

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9603206 **Client Project ID:** German Autocraft

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 6° Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

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

Chain of Custody

Chain of custody form received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample IDs on chain of custody form agree with labels?	(YES)	NO
Number of containers on chain agree with number received?	(YES)	NO
Analysis methods specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO
Turnaround time? Standard ✓ Rush ____		

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: ____ Date: 4/1/96 Project Manager: ____ Date: 4/1/96

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Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9603206 **Client Project ID:** German Autocraft

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 6°C Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

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

Chain of Custody

Chain of custody form received with samples?	(YES)	NO	
Has it been filled out completely and in ink?	(YES)	NO	
Sample IDs on chain of custody form agree with labels?	(YES)	NO	
Number of containers on chain agree with number received?	(YES)	NO	
Analysis methods specified?	(YES)	NO	
Sampling date and time indicated?	(YES)	NO	
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO	
Turnaround time? Standard ✓ Rush ____			

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: JP Date: 3/27/96 Project Manager: [signature] Date: 4/1/96

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Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9603206 **Client Project ID:** German Autocraft

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact Broken	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 4°C Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

Chain of custody seal present for each container? Condition: Intact Broken	YES	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested? Condition of containers: Intact 6 Broken If NO, were samples transferred to proper container(s)?	(YES)	NO	
Were VOA containers received with zero headspace? If NO, was it noted on the chain of custody? Yes	YES	(NO)	N/A
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt?	(YES)	NO	N/A
pH check of samples required at time of receipt? If YES, pH checked and recorded by:	YES	(NO)	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified?	(YES)	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)

Chain of Custody

Chain of custody form received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample IDs on chain of custody form agree with labels?	(YES)	NO
Number of containers on chain agree with number received?	(YES)	NO
Analysis methods specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO
Turnaround time? Standard 6 Rush		

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: [signature] Date: 03/05/96 Project Manager: [signature] Date: 4/1/96

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 # : 9603245
Date Received : 03/29/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9603245- 1	ETM-31
9603245- 2	ETM-32
9603245- 3	ETM-33
9603245- 4	ETM-34
9603245- 5	ETM-35
9603245- 6	ETM-36
9603245- 7	ETM-45
9603245- 8	TRIPBLNK
9603245- 9	ETM-37
9603245-10	ETM-39
9603245-11	ETM-46
9603245-12	ETM-40

This report is organized in sections according to the specific Inchcape 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 Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape 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.

Project Manager

4/11/96
Date

This report consists of 29 pages.

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

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

Workorder # : 9603245
Date Received : 03/29/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9603245- 1	ETM-31	WATER	03/28/96	TPHgBTEX
9603245- 2	ETM-32	WATER	03/28/96	TPHgBTEX
9603245- 3	ETM-33	WATER	03/28/96	TPHgBTEX
9603245- 4	ETM-34	WATER	03/28/96	TPHgBTEX
9603245- 5	ETM-35	WATER	03/28/96	TPHgBTEX
9603245- 6	ETM-36	WATER	03/28/96	TPHgBTEX
9603245- 7	ETM-45	WATER	03/28/96	TPHgBTEX
9603245- 8	TRIPBLNK	WATER	03/28/96	TPHgBTEX
9603245- 9	ETM-37	WATER	03/29/96	TPHgBTEX
9603245-10	ETM-39	WATER	03/29/96	TPHgBTEX
9603245-11	ETM-46	WATER	03/29/96	TPHgBTEX
9603245-12	ETM-40	WATER	03/29/96	TPHgBTEX

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

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

Workorder # : 9603245
Date Received : 03/29/96
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.
- The concentration reported as gasoline for sample ETM-35 is primarily due to the presence of a discrete peak not indicative of gasoline.
- The concentration reported as gasoline for sample ETM-46 is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- For samples ETM-36, TRIPBLNK, ETM-46, and ETM-40, the relative percent differences between the primary and confirmation concentrations for total xylenes are greater than the internal quality control limit of 25%. For each sample, the lower of the two values is reported.
- Values flagged with a "J" qualifier are estimated concentrations between one-half of the reporting limit and the reporting limit.

Cheryl Bullmore 4/16/96
Department Supervisor Date

Reggie Dawson 4/18/96
Chemist Date

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-01	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-31
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/3/96	Surrogate Recovery:	108%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	5	25	ND
Benzene	5	2.5	21
Toluene	5	2.5	7.2
Ethylbenzene	5	2.5	6.8
Total Xylenes	5	2.5	5.7
Gasoline	5	250	600

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Issued on 4/9/96 at 11:12 am

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-02	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-32
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	118%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	2	10	9.6 J
Benzene	2	1.0	60
Toluene	2	1.0	7.5
Ethylbenzene	2	1.0	8.1
Total Xylenes	2	1.0	11
Gasoline	2	100	510

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-03	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-33
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	99%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-04	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-34
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	105%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.8
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-05	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-35
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	99%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	1.3
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	70

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-06	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-36
Date Sampled:	3/28/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	115%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	0.6
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.3
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-07	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-45
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	111%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	2	10	8.9 J
Benzene	2	1.0	56
Toluene	2	1.0	4.9
Ethylbenzene	2	1.0	9.3
Total Xylenes	2	1.0	11
Gasoline	2	100	430

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-08	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	TRIPBLNK
Date Sampled:	3/28/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	115%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.0
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.2
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-09	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-37
Date Sampled:	3/29/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	104%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1000	5000	4000 J
Benzene	1000	500	2000
Toluene	1000	500	1400
Ethylbenzene	1000	500	3400
Total Xylenes	1000	500	5100
Gasoline	1000	50000	370000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-10	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-39
Date Sampled:	3/29/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Surrogate Recovery:	105%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.3
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-11	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-46
Date Sampled:	3/29/96	Instrument ID:	HP6
Date Analyzed:	4/4/96	Surrogate Recovery:	113%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.1
Gasoline	1	50	60

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9603245-12	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-40
Date Sampled:	3/29/96	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	106%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	0.8
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0201E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/2/96	Surrogate Recovery:	101%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0301E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP4
Date Analyzed:	4/3/96	Surrogate Recovery:	101%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA0301E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/3/96	Surrogate Recovery:	107%
Date Released:	4/8/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9603245-03
Client Sample ID:	ETM-33	Date Released:	4/8/96
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/2/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Gasoline	500	0	460	92%	440	88%	-4%
p-Bromofluorobenzene				118%		124%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9603245-01
Client Sample ID:	ETM-31	Date Released:	4/8/96
Date Sampled:	3/28/96	Instrument ID:	HP4
Date Analyzed:	4/3/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
MtBE	50.0	0	43.5	87%	43.6	87%	0%
Benzene	50.0	21	70.0	98%	70.1	98%	0%
Toluene	50.0	7.2	48.9	83%	54.1	94%	10%
Ethylbenzene	50.0	6.8	60.5	107%	57.5	101%	-5%
Total Xylenes	50.0	5.7	56.6	102%	50.8	90%	-11%
p-Bromofluorobenzene				111%		112%	

Quality control limits for MS/MSD recovery are 50-150% for MtBE, 45-139% for benzene, 51-138% for toluene, 48-146% for ethylbenzene, and 50-139% for total xylenes.

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA0201E1
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/2/96	Instrument ID:	HP4
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	450	90%
p-Bromofluorobenzene			133%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NA0201E3
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/2/96	Instrument ID:	HP4
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	9.4	94%
Benzene	10.0	9.8	98%
Toluene	10.0	10.1	101%
Ethylbenzene	10.0	10.6	106%
Total Xylenes	10.0	10.8	108%
p-Bromofluorobenzene			102%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA0301E3
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/3/96	Instrument ID:	HP4
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	9.4	94%
Benzene	10.0	10.3	103%
Toluene	10.0	10.5	105%
Ethylbenzene	10.0	11.0	110%
Total Xylenes	10.0	10.4	104%
p-Bromofluorobenzene			104%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NA0301E1
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/3/96	Instrument ID:	HP4
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	440	88%
p-Bromofluorobenzene			127%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA0301E3
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/3/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	9.0	90%
Benzene	10.0	10.0	100%
Toluene	10.0	10.2	102%
Ethylbenzene	10.0	10.5	105%
Total Xylenes	10.0	10.4	104%
p-Bromofluorobenzene			107%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NA0301E1
Matrix:	WATER	Date Released:	4/8/96
Date Analyzed:	4/3/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	490	98%
p-Bromofluorobenzene			113%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

Inchcape Testing Services
Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

[redacted]03[redacted]15[redacted]

PROJECT NUMBER

PROJECT NAME: German Autocraft

Send Report Attention of: Tom Price

Report Due: / /

Verbal Due: / /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHg / BTEX	Condition of Samples	Initial
1	ETM-31	3/28/96	1105	11.0			2	40 ml VOA	X		
2	ETM-32		1300				2		X		
3	ETM-33		1355				2		X		
4	ETM-34	TAS ~~1505~~	1505				2		X		
5	ETM-35	TAS ~~1540~~	1540				2		X		
6	ETM-36						2		X		
7	ETM-45		[illegible]				2		X		
8	Trip Blank		1625				2		X		

Sampled by: (Signature) [illegible]	Date/Time 3/29/96 1730	Received by: (Signature) [illegible]	Date/Time
Relinquished by: (Signature) [illegible]	Date/Time 3/29/96 9:35 PM	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab: [illegible]	Date/Time 3/29/96 2035

Remarks: * ETM-36 erroneously labeled "ETM-26"

COMPANY: Environmental Testing & Management

ADDRESS:

PHONE FAX :

Inchcape Testing Services
Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

9603245 (18)

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	Send Report Attention of:	Report Due	Verbal Due
	German Autocraft	Tom Price	/ /	/ /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPHg/BTEX	Condition of Samples	Initial
(9)	ETM-37	3/29/96	1400	H_2O			2	40ml VOA	X		
	~~ETM-38~~	↓	~~1435~~	↓			2	↓	X	Pure Product	
(10)	ETM-39	↓	1600	↓			2	↓	X		
(11)	ETM-46	↓	1710	↓			2	↓	X		
(12)	ETM-40		1720	↓			2	↓	X		

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Tom Price	3/29/96 835 pm.		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/	Received by Lab:	Date/Time
			3/29/96 2035

Remarks: Environmental Testing & Mgmt.
ETM-38 No Analysis necessary, floating product.

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Magliocco Dr. Suite# San Jose CA 95128
PHONE: (408) 247-8993 FAX:

asphalt stain (non-toxic)

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9603245 **Client Project ID:** German Autocraft

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact Broken	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 2°C Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

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

Chain of Custody

Chain of custody form received with samples?	(YES)	NO	
Has it been filled out completely and in ink?	(YES)	NO	
Sample IDs on chain of custody form agree with labels?	(YES)	NO	
Number of containers on chain agree with number received?	(YES)	NO	
Analysis methods specified?	(YES)	NO	
Sampling date and time indicated?	(YES)	NO	
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO	
Turnaround time? Standard ✓ Rush			

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: JP Date: 3/29/96 Project Manager: RV Date: 4/1/96

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 # : 9604077
Date Received : 04/08/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9604077- 1	BLANK
9604077- 2	141FARLY
9604077- 3	ETM-38

This report is organized in sections according to the specific Inchcape 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 Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape 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.

Project Manager

4/15/96
Date

This report consists of 12 pages.

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

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

Workorder # : 9604077
Date Received : 04/08/96
Project ID : GERMAN AUTOCRAFT
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9604077- 1	BLANK	WATER	04/06/96	TPHgBTEX
9604077- 2	141FARLY	WATER	04/06/96	TPHgBTEX
9604077- 3	ETM-38	WATER	03/29/96	TPHgBTEX

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

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

Workorder # : 9604077
Date Received : 04/08/96
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 4/12/96 Date

Chemist 04-12-96 Date

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9604077-01	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	BLANK
Date Sampled:	4/6/96	Instrument ID:	HP6
Date Analyzed:	4/10/96	Surrogate Recovery:	101%
Date Released:	4/12/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	1.1
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	1.6
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

Issued on 4/12/96 at 3:18 pm

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9604077-02	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	141FARLY
Date Sampled:	4/6/96	Instrument ID:	HP6
Date Analyzed:	4/10/96	Surrogate Recovery:	99%
Date Released:	4/12/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	9604077-03	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	ETM-38
Date Sampled:	3/29/96	Instrument ID:	HP6
Date Analyzed:	4/10/96	Surrogate Recovery:	99%
Date Released:	4/12/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	2000000	10000000	13000000
Benzene	2000000	1000000	4000000
Toluene	2000000	1000000	7800000
Ethylbenzene	2000000	1000000	11000000
Total Xylenes	2000000	1000000	39000000
Gasoline	2000000	100000000	840000000

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030.

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix ID:	BA1001E1	Client Project ID:	GERMAN AUTOCRAFT
Matrix:	WATER	Client Sample ID:	Method Blank
Date Sampled:	N/A	Instrument ID:	HP6
Date Analyzed:	4/10/96	Surrogate Recovery:	100%
Date Released:	4/12/96	Concentration Units:	ug/L

COMPOUND	Dilution Factor	Reporting Limit	Amount Found
MtBE	1	5.0	ND
Benzene	1	0.5	ND
Toluene	1	0.5	ND
Ethylbenzene	1	0.5	ND
Total Xylenes	1	0.5	ND
Gasoline	1	50	ND

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030.

BTEX: BTEX as Methyl tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, and Total Xylenes is determined by GC/PID (modified EPA Method 8021) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	9604077-02
Client Sample ID:	141FARLY	Date Released:	4/12/96
Date Sampled:	4/6/96	Instrument ID:	HP6
Date Analyzed:	4/10/96	Matrix:	WATER
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Gasoline	500	0	480	96%	490	98%	2%
p-Bromofluorobenzene				101%		101%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	MA1001E1
Matrix:	WATER	Date Released:	4/12/96
Date Analyzed:	4/10/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Gasoline	500	520	104%
p-Bromofluorobenzene			101%

Quality control limits for LCS recovery are 67-127%.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

TOTAL PETROLEUM HYDROCARBONS AS BTEX

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	GERMAN AUTOCRAFT	Anametrix ID:	NA1001E3
Matrix:	WATER	Date Released:	4/12/96
Date Analyzed:	4/10/96	Instrument ID:	HP6
		Concentration Units:	ug/L

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
MtBE	10.0	11.4	114%
Benzene	10.0	10.4	104%
Toluene	10.0	11.0	110%
Ethylbenzene	10.0	11.3	113%
Total Xylenes	10.0	10.8	108%
p-Bromofluorobenzene			103%

Quality control limits for LCS recovery are 50-150% for MTBE, 52-133% for benzene, 57-136% for toluene, 56-139% for ethylbenzene, and 56-141% for total xylenes.

Quality control limits for p-Bromofluorobenzene recovery are 61-139%.

Inchcape Testing Services
Anametrix Laboratories
196 [redacted] Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

9604077

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	Send Report Attention of:	Report Due	Verbal Due
	German Autocraft	Tom Price	/ /	/ /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	TPH-g/BTEX	Condition of Samples	Initial
1	Blank	4/6/96	9:45		W	1/3 VOA w/ BUBBLE	3	VIAs	✓	OK	CH
2	141 FARRALLY	4/6/96	9:45		W		3	VOAs	✓	↓	CH
3	ETM-38	3/29/96	14:35		W	1/1 VOA w/ BUBBLE	1	VOA	✓	PLEASE HOLD FOR FURTHER ANALYSES RK 4/8/96.	

Sampled by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Tom Price			
Relinquished by:(Signature)	**Date/Time**	**Received by: (Signature)**	**Date/Time**
Relinquished by:(Signature)	**Date/Time**	**Received by Lab:**	**Date/Time**
	4/8/96 3:20	Cedrin Robinson	4-8-96 3:20

Remarks: 5 day turn Around Time
* MTBE on ETM-38
ETM-38 PLEASE ANALYZE PRODUCT PHASE ONLY

COMPANY: Environmental Testing & Mgmt.
ADDRESS: 2916 Magliocco Dr. Suite #2
San Jose, CA 95128
PHONE : FAX :

13°

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9604077 **Client Project ID:** GERMAN AUTOCRAFT

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 13° Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	YES	(NO)	N/A

Samples

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

Chain of Custody

Chain of custody form received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample IDs on chain of custody form agree with labels?	(YES)	NO
Number of containers on chain agree with number received?	(YES)	NO
Analysis methods specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO
Turnaround time? Standard ____ Rush ✓ 5 days		

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: HH Date: 4/8/96 Project Manager: [signature] Date: 4/9/96

f:\forms\newscr.doc

APPENDIX F: FIELD SAMPLING METHODS AND PROCEDURES

A. SOIL INVESTIGATION (PHYSICAL PROPERTIES)

To determine the physical properties of soils in the former UST area, soil samples were collected from a borehole that was drilled through the former USTs excavation at MW-4 **(Figure 2)**. Soil samples were analyzed to provide information on the "workability" of soil for evaluating different cleanup measures. The soil samples were transported to a soils laboratory for physical characteristics analysis (bulk density, moisture content, grain-size distribution, and permeability).

Please refer to ETM's Third Quarter 1995 Environmental Activities Report for MW-4 installation procedures, boring logs, and well construction details.

B. CONTINUOUS AND DISCRETE INTERVAL SOIL CORE SAMPLING

Underground Service Alert and a private locator service was be employed to locate underground utilities prior to boring into soils.

A 4-foot long, 2-inch diameter, core barrel sampler and 2-foot long, 1-inch diameter core barrel sampler was used to obtain soil core samples continuously from two borings. The core samplers were fitted with new clear inert acetate plastic liners to contain each sample. The use of a new liner ensures the soil sample will be collected in a decontaminated core tube, reducing decontamination activities. The sampler was connected to 1-inch diameter probe pipe (Geoprobe^{TM}) and pneumatically driven to the sampling depths. The probe was driven 2 or 4 feet. A rod was lowered through the center of the probes triggering a pin to release the bottom point shaft of the sampler core and the sample retrieved.

The sampler was opened and the acetate liner cut into sections to determine lithology, moisture content, and screened for VOC contamination using a hand-held photo-ionization detector (PID). Soil samples exhibiting a PID reading of 5 parts per million (ppm) or greater were submitted for

laboratory analysis. Samples under investigation for contamination were sealed with Teflon tape or aluminum foil and plastic end caps. No soil cuttings were generated during the coring procedure.

All collected soil samples were labeled with the boring number, collection time, and sampling depth using an indelible ink marker. The samples were then placed on ice in an ice chest type cooler for shipment to the laboratory.

Decontamination procedures related to the pneumatic sampling included washing the sampling equipment with a solution of tap water and laboratory grade detergent, followed by a tap water rinse, and a final rinse with distilled water. Rinsate samples were included as part of the quality assurance/quality control program. Also, driving rod used in the pneumatic sampling technique were heated with a propane torch to volatilize any gasoline-related contaminants present.

After each boring was abandoned or completed, it was be backfilled with Portland cement to the surface. Upon completion of each boring, several measurements, relative to permanent physical features near each boring, were made.

C. GRAB GROUNDWATER SAMPLING

Grab groundwater samples were collected from each soil boring for laboratory analysis. A steel probe was pneumatically driven into the soil, removed, and a smaller-diameter Teflon bailer was lowered into the probe hole to collect the groundwater sample. Bailers were decontaminated prior to lowering into the groundwater by washing with Liquinox detergent, rinsing with tap water, and a final rinse using distilled water. At some groundwater sampling locations, steel pipe probe (1" diameter) with forged tip and perforations the lower two feet was driven into the water table and the bailer lowered inside of the pipe for collection of a groundwater sample.

The groundwater samples were gently pouring from the bailer into a 40-milliliter vial until a positive meniscus was formed at the top of the vial, capping, and checking to make sure no bubbles are present where feasible. Groundwater samples were labeled and placed in iced storage with chain-of-custody documentation for transport to Inchcape Testing Services, Anametrix Laboratories located in San Jose, California. Groundwater samples were analyzed for TPHg and BTEX by EPA Modified Method 5030 and for MtBE using EPA Method 8020. The Quality Assurance/Quality Control measures related to the grab groundwater sampling program are included in **Appendix G.** Each borehole was backfilled by placing an initial "plug" of bentonite pellets or Portland cement in the borehole and placing grout from the bottom up.

APPENDIX G: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling included the following:

- Groundwater samples were collected in duplicate.
- On 11/28/95, a duplicate sample was collected at ETM-1 and labeled "ETM-30". This sample was submitted to the lab as a blind duplicate. A trip blank sample was analyzed along with the other samples collected this day.
- On 11/29/95, a duplicate sample was collected at ETM-5 and labeled "ETM-31". This sample was submitted to the lab as a blind duplicate. A trip blank sample was analyzed along with the other samples collected this day.
- On 11/30/95, a duplicate sample was collected at ETM-9 and labeled "ETM-32". This sample was submitted to the lab as a blind duplicate.
- On 12/1/95, a duplicate sample was collected at ETM-11 and labeled "ETM-33". This sample was submitted to the lab as a blind duplicate.
- A field blank of the distilled water used for rinsing the bailer was submitted for analysis with the sample.
- On 3/25/96, a duplicate sample was collected at ETM-17 and labeled "ETM-42". This sample was submitted to the lab as a blind duplicate.
- On 3/26/96 a duplicate sample was collected at ETM-21 and labeled "ETM-43". This sample was submitted to the lab as a blind duplicate. A trip blank sample and bailer rinsate sample was analyzed along with the other samples collected this day.
- On 3/27/96, a duplicate sample was collected at ETM-26 and labeled "ETM-44". This sample was submitted to the lab as a blind duplicate. A trip blank sample was analyzed along with the other samples collected this day.
- On 3/28/96, a duplicate sample was collected at ETM-32 and labeled "ETM-45". This sample was submitted to the lab as a blind duplicate.

- An equipment rinsate blank was collected on 4/6/96 at 141 Farrelly Drive as part of the sampling procedures. A trip blank sample was analyzed along with the other samples collected this day.

ACC
ENVIRONMENTAL
CONSULTANTS

SUBSURFACE ENVIRONMENTAL INVESTIGATION
233 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

Prepared for:

Mr. Jack Etter
Special Administrator of the Estate of Alys C. Garcia
16110 Hexhan Drive
Spring, TX 77379

Prepared by:

ACC Environmental Consultants, Inc.
December, 1993

REGISTERED GEOLOGIST
CHRISTOPHER M. PALMER
№ 1262
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Prepared By:

Misty Kaltreider
Project Geologist

Reviewed By:

Christopher M. Palmer, CEG # 1262
Certified Engineering Geologist

1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 • FAX: (510) 865-5731

ENVIRONMENTAL CONSULTANTS

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1.0 INTRODUCTION

On behalf of Mr. Jack Etter, Special Administrator of the Estate of Alya C. Garcia (Client), ACC Environmental Consultants, Inc. ("ACC") conducted a subsurface environmental investigation of the property located at 233 East 14th Street in San Leandro, California (Figure 1). The work was performed in accordance with the Contract Agreement dated November 16, 1993. The tasks included in the scope of services were as follows:

- coordinate soil sampling activities including obtaining proper permits from the local agencies
- drill and sample exploratory borings strategically located at the subject property to characterize the type of soil and determine if the soil has been impacted from previous site use
- submit soil samples to an analytical laboratory for evaluation of volatile organic compounds
- evaluate the information obtained and prepare a report of findings

2.0 BACKGROUND

The property located at 223 East 14th Street in San Leandro, California has had a dry cleaning operation and retail facility located on the site for over 20 years. During this period, an on-site sewer line broke which led from floor drains inside the dry-cleaning shop to the sewer main. The main line was repaired. The special administrator for the estate requested a Phase II site investigation to evaluate whether the site has been impacted by the chemicals used in dry-cleaning operations which may have been washed into the floor drains through leaks from equipment or spills.

3.0 FIELD PROCEDURES

3.1 Subsurface Soil Investigation

Four borings were located on-site adjacent to the previously repaired sewer lateral. The locations of the borings are shown on Figure 2.

Borings B-1 through B-4 were drilled on December 3, 1993 by Environmental Control Associates, Inc. The drilling method used a pneumatically driven precision sampling device equipped with 5-foot sections of 3/4-inch inside diameter galvanized steel probe pipe. The probe pipe was connected to a 1-foot long galvanized steel soil core tube. Stainless steel insert rods were placed through the probe pipe and sampling core tube. The probe pipe, soil core tube and insert rods were together pneumatically driven using a percussion hammer to the desired depth.

To collect soil samples, the insert rods were removed and the probe pipe and core tube were driven one additional foot. The probe pipe, insert rods, and sampling core tube were all pre-cleaned prior to use and between sample drives by washing them with trisodium phosphate (TSP) and potable water solution, a potable water rinse, and distilled water rinse.

Soil samples were collected every five feet and at any noted changes in lithology. The samples were pre-screened with an HNu photoionization detector (PID) calibrated for Hexane.

The soil samples were logged by Ms. Misty Kaltreider, ACC geologist, during drilling and sampling in accordance with the Unified Soil Classification System (ASTM D-2488-84). Lithologic logs of the borings and the Unified Soil Classification System are attached in Appendix A.

Upon collection, each end of the probe pipe was covered with Teflon tape and plastic caps taped to the ends and labels were affixed to the probe pipe sample tubes. All samples were stored in an ice-filled cooler and transported under chain of custody to ChromaLab, a certified Cal/EPA analytical laboratory.

4.0 FINDINGS

4.1 Subsurface Conditions

During the field investigation, the site was observed to be covered with an asphalt cap. Below the asphalt/baserock cap the subsurface soils in the borings consists of yellowish brown to olive brown silty sand to approximately 8 feet in borings B-1, B-2, and B-3. In boring B-4 the subsurface soils consist of olive brown silty sand to approximately 12-1/2 feet. Below the silty sand the soil consists of dark greyish brown to dark brown silty clay to clay to the depth investigated of 25 feet below ground surface.

During drilling and sampling the Photoionization Detector (PID) indicated from 0 to 5 part per million (ppm) of volatile organic compounds vapor.

Groundwater was not encountered during drilling and sampling. All borings were backfilled with a cement/bentonite slurry.

4.2 Analytical Results - Soil

One soil sample was selected from each boring and submitted to ChromaLab, Inc. for analysis of volatile organic compounds by EPA Test Method 8240. Results of the soil sample analyses are summarized in Table 1. Laboratory analytical results with chain of custody forms are attached as Appendix B.

TABLE 1
Analytical Results

Sample No.	1,2-Dichloroethene (Trans)	Tetrachloroethene	Trichloroethene
B1-5	<5	230	<5
B1-10	<5	3,600	8.1
B2-5	<5	140	<5
B2-10	<5	4,200	82
B3-5	<5	88	<5
B3-10	16	710	370
B4-5	<5	430	<5
B4-10	<5	710	13

Notes: All results reported in parts per billion (ppb)
Other analytes reported to be below detection limits.

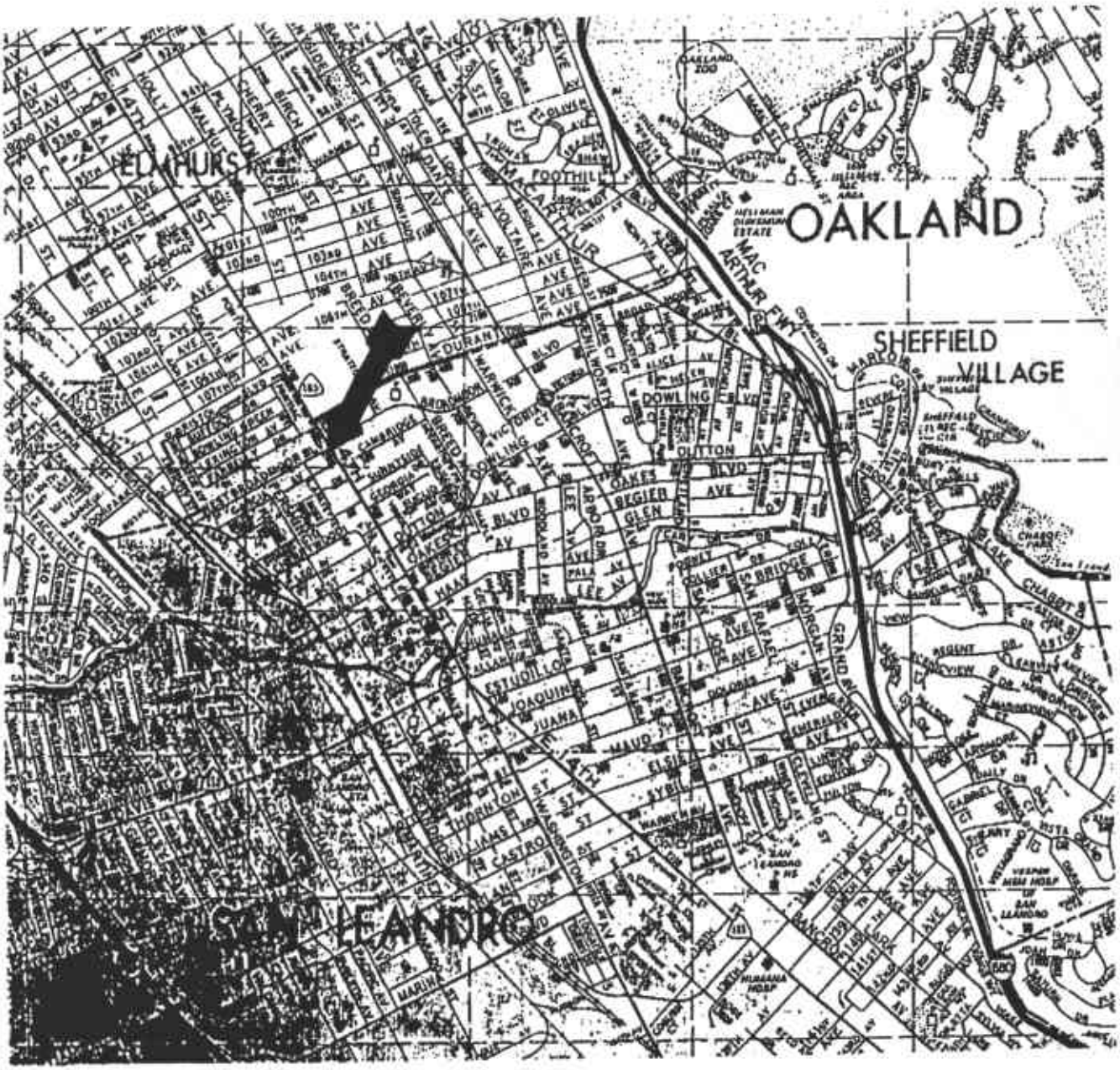
5.0 SUMMARY AND CONCLUSIONS

During the subsurface soil investigation of borings B-1 through B-4, the soils encountered throughout the site included approximately 8 to 12-1/2 feet of silty sand. Soils below the silty sand became clayier with depth.

The PID indicated from 0 to 5 ppm of volatile halogenated hydrocarbons. No other field indications of volatile organics (i.e., soil discoloration) were observed within the soil. Results of the soil analysis indicated detectable levels of Tetrachloroethene, also known as Tetrachloroethylene or Perchloroethylene (PCE), a common dry cleaning solvent in the soil samples from five to ten feet below ground surface.

Results of the laboratory analysis of the soil collected from 10 feet below ground surface indicated increasing levels of PCE and detectable levels of Trichloroethene (TCE) in all four borings and detectable levels of 1,2-Dichloroethene (DCE) in boring B3. TCE and DCE are also solvents used as degreasing agents. However, TCE and DCE are also known as "daughter" products formed naturally from the degradation of PCE.

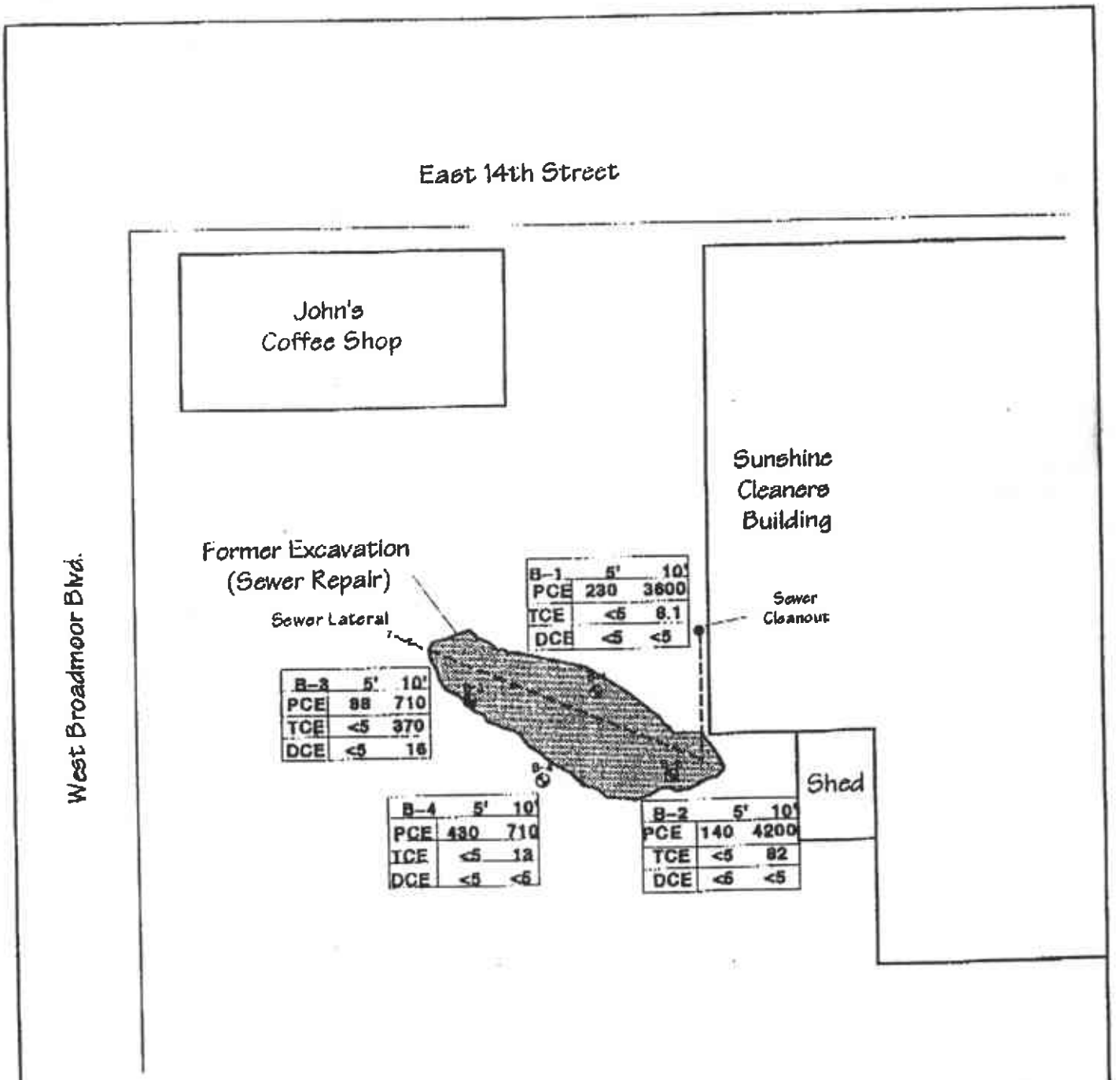
Since levels of constituents in the soil were reported to be above laboratory detection levels, pursuant to Title 23 of the California Code of Regulations (CCR), Division 3, Chapter 16, Article 5, Section 2650; the property owner shall report to the Regional Water Quality Control Board and Alameda County Health Care Services Agency the discovery of any unauthorized release.



Location Map
233 E. 14th Street
San Leandro, CA

12/17/1993	Drawn By: TRF	Project: 6135-1	Figure 1

ACC Environmental Consultants · 1000 Atlantic Avenue, Suite 110 · Alameda, CA 94501· (510) 522-8188 Fax: (510) 865-5731



Boring Location ⊕
PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = 1,2-Dichloroethene (trans)
All results in parts per billion (ppb)

Scale: 1" = 20'

Site Plan
233 E. 14th Street
San Leandro, California

12/17/1993	Drawn By: TRF	Project: 6135-1	Figure 2

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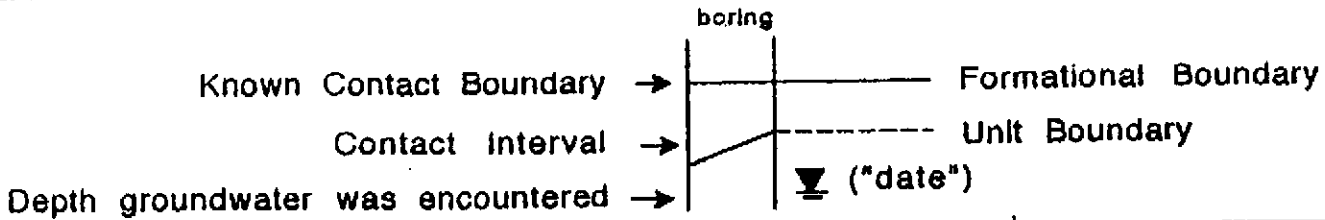
UNIFIED SOIL CLASSIFICATION SYSTEM

	MAJOR DIVISIONS				TYPICAL NAMES
COARSE GRAINED SOILS more than half > #200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		well graded gravels, gravel-sand mixtures
			GP		poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	GM		silty gravels, poorly graded gravel-sand silt mixtures
			GC		clayey gravels, poorly graded gravel-sand clay mixtures
	SANDS more than half coarse fraction is smaller than No. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	SW		well graded sands, gravelly sands
			SP		poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	SM		silty sands, poorly graded sand-silt mixtures
			SC		clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS more than half < #200 sieve	SILTS AND CLAYS liquid limit less than 50		ML		inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/sl. plasticity
			CL		inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		organic clays and organic silty clays of low plasticity
	SILTY AND CLAYS liquid limit greater than 50		MH		inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
			CH		inorganic clays of high plasticity, fat clays
			OH		organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SOILS		Pt		peat and other highly organic soils

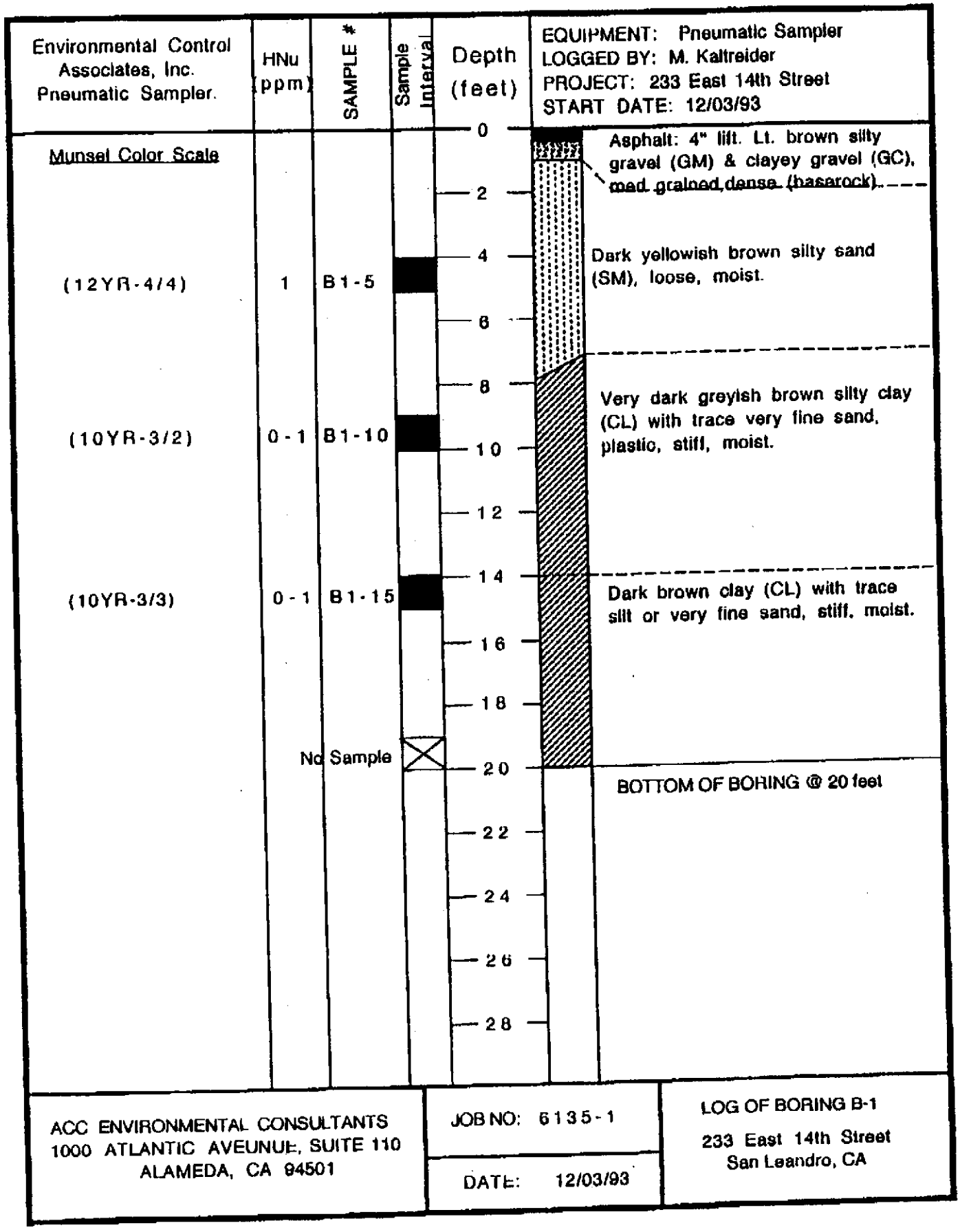
LEGEND FOR BORING LOGS

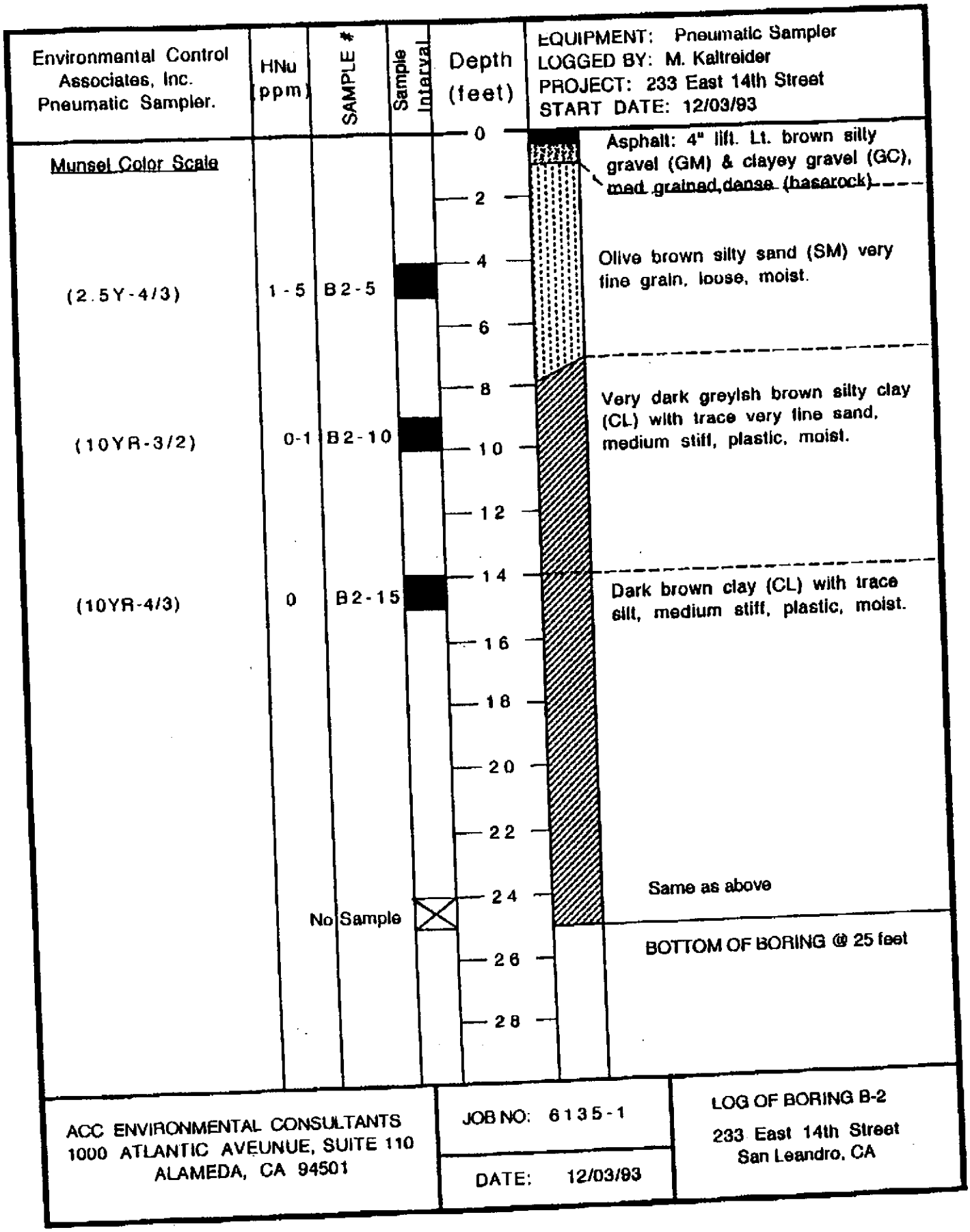


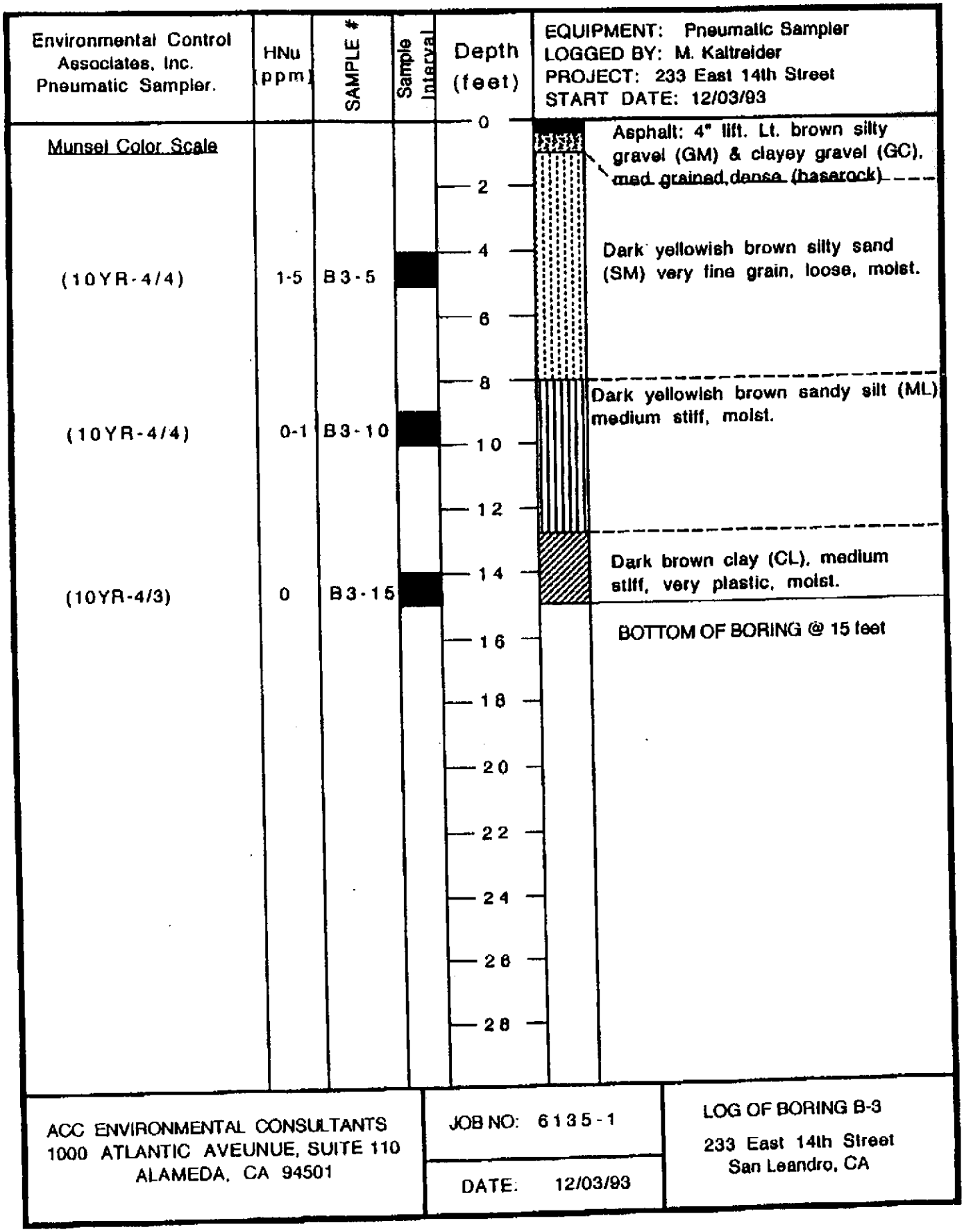
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVENUE, SUITE 110
ALAMEDA, CA 94501

Soil Classification System

Project No. 6135-1	Date: 12/19/93	DRN: MCK	233 E. 14th Street


Environmental Control Associates, Inc. Pneumatic Sampler.
HNu (ppm)
SAMPLE #
Sample Interval
Depth (feet)
EQUIPMENT: Pneumatic Sampler
LOGGED BY: M. Kaltreider
PROJECT: 233 East 14th Street
START DATE: 12/03/93
Munsel Color Scale
(12YR-4/4)
1
B1-5
(10YR-3/2)
0-1
B1-10
(10YR-3/3)
0-1
B1-15
No Sample
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med. grained,dense (baserock).
Dark yellowish brown silty sand (SM), loose, moist.
Very dark greyish brown silty clay (CL) with trace very fine sand, plastic, stiff, moist.
Dark brown clay (CL) with trace silt or very fine sand, stiff, moist.
BOTTOM OF BORING @ 20 feet
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501
JOB NO: 6135-1
DATE: 12/03/93
LOG OF BORING B-1
233 East 14th Street
San Leandro, CA


Environmental Control Associates, Inc. Pneumatic Sampler.
HNu (ppm)
SAMPLE #
Sample Interval
Depth (feet)
EQUIPMENT: Pneumatic Sampler
LOGGED BY: M. Kaltreider
PROJECT: 233 East 14th Street
START DATE: 12/03/93
Munsel Color Scale
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med grained,dense (baserock)
Olive brown silty sand (SM) very fine grain, loose, moist.
(2.5Y-4/3)
1-5
B2-5
Very dark greyish brown silty clay (CL) with trace very fine sand, medium stiff, plastic, moist.
(10YR-3/2)
0-1
B2-10
Dark brown clay (CL) with trace silt, medium stiff, plastic, moist.
(10YR-4/3)
0
B2-15
Same as above
No Sample
BOTTOM OF BORING @ 25 feet
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501
JOB NO: 6135-1
DATE: 12/03/93
LOG OF BORING B-2
233 East 14th Street
San Leandro, CA


Environmental Control Aesociates, Inc. Pneumatic Sampler.
HNu (ppm)
SAMPLE #
Sample Interval
Depth (feet)
EQUIPMENT: Pneumatic Sampler
LOGGED BY: M. Kaltreider
PROJECT: 233 East 14th Street
START DATE: 12/03/93
Munsel Color Scale
(10YR-4/4)
1-5
B3-5
(10YR-4/4)
0-1
B3-10
(10YR-4/3)
0
B3-15
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med. grained, dense (haserock)
Dark yellowish brown silty sand (SM) very fine grain, loose, moist.
Dark yellowish brown sandy silt (ML) medium stiff, moist.
Dark brown clay (CL), medium stiff, very plastic, moist.
BOTTOM OF BORING @ 15 feet
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501
JOB NO: 6135-1
DATE: 12/03/93
LOG OF BORING B-3
233 East 14th Street
San Leandro, CA

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler LOGGED BY: M. Kaltreider PROJECT: 233 East 14th Street START DATE: 12/03/93
Munsel Color Scale				0	Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med. grained, dense. (baserock)
				2	
(2.5Y-4/3)	1-5	B4-5		4	Olive brown silty sand (SM) very fine grain, medium dense to loose, moist.
				6	
				8	
	0	B4-10		10	same as above -siltier- with trace clay
				12	
(10YR-4/3)	0	B4-15		14	Dark brown clay (CL), medium stiff, very plastic, moist.
				16	BOTTOM OF BORING @ 15 feet
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6135-1 DATE: 12/03/93	LOG OF BORING B-4 233 East 14th Street San Leandro, CA

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 10, 1993

ChromaLab File#: 9312079

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH **Project#:** 6135-1
Submitted: December 6, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B1-5 *Matrix:* SOIL
Lab #: 38963-1847 *Sampled:* December 3, 1993 *Analyzed:* December 9, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	5	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	93
TETRACHLOROETHENE	230	5	N.D.	111
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	--
TRICHLOROETHENE	N.D.	5	N.D.	93
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 10, 1993 ChromaLab File#: 9312079

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH **Project#:** 6135-1
Submitted: December 6, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B2-5 *Matrix:* SOIL
Lab #: 38964-1847 *Sampled:* December 3, 1993 *Analyzed:* December 9, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	5	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	93
TETRACHLOROETHENE	140	5	N.D.	111
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	--
TRICHLOROETHENE	N.D.	5	N.D.	93
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 10, 1993

ChromaLab File#: 9312079

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH **Project#:** 6135-1
Submitted: December 6, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B3-5 *Matrix:* SOIL
Lab #: 38965-1847 *Sampled:* December 3, 1993 *Analyzed:* December 9, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	25	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	93
STYRENE	N.D.	5	N.D.	111
1,1,2,2-TETRACHLOROETHANE	88	5	N.D.	--
TETRACHLOROETHENE	N.D.	5	N.D.	--
TOLUENE	N.D.	5	N.D.	93
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	--
TRICHLOROETHENE	N.D.	5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 10, 1993 ChromaLab File#: 9312079

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH **Project#:** 6135-1
Submitted: December 6, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: **B4-5** *Matrix:* SOIL
Lab #: 38966-1847 *Sampled:* December 3, 1993 *Analyzed:* December 9, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	5	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	93
TETRACHLOROETHENE	430	5	N.D.	111
TOLUENE	N.D.	5	N.D.	

* RECEIVE STOPPED *

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 17, 1993

ChromaLab File#: 9312180

ACC ENVIRONMENTAL CONSULTANTS
Attn: Misty Kaltreider
Project: 233 E. 14TH ST. **Project#:** 6135-1
Submitted: December 14, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B1-10 *Matrix:* SOIL
Lab #: 39463-1880 *Sampled:* December 3, 1993 *Analyzed:* December 15, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	25	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	109
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	113
TETRACHLOROETHENE	3600	5	N.D.	--
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	86
TRICHLOROETHENE	8.1	5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 17, 1993

ChromaLab File#: 9312180

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH ST. **Project#:** 6135-1
Submitted: December 14, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: **B2-10** *Matrix:* SOIL
Lab #: 39464-1880 *Sampled:* December 3, 1993 *Analyzed:* December 15, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	5	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	109
TETRACHLOROETHENE	4200	5	N.D.	113
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	--
TRICHLOROETHENE	82	5	N.D.	86
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 17, 1993

ChromaLab File#: 9312180

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH ST. **Project#:** 6135-1
Submitted: December 14, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B3-10 *Matrix:* SOIL
Lab #: 39465-1880 *Sampled:* December 3, 1993 *Analyzed:* December 15, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	16	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	25	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	109
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	113
TETRACHLOROETHENE	710	5	N.D.	--
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	86
TRICHLOROETHENE	370	5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 17, 1993

ChromaLab File#: 9312180

ACC ENVIRONMENTAL CONSULTANTS
Atten: Misty Kaltreider
Project: 233 E. 14TH ST. **Project#:** 6135-1
Submitted: December 14, 1993
re: One sample for Volatile Organic Compounds by GC/MS analysis.

Sample: B4-10 *Matrix:* SOIL
Lab #: 39466-1880 *Sampled:* December 3, 1993 *Analyzed:* December 15, 1993
Method: EPA 8240

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5	N.D.	--
BROMODICHLOROMETHANE	N.D.	5	N.D.	--
BROMOFORM	N.D.	5	N.D.	--
BROMOMETHANE	N.D.	5	N.D.	--
2-BUTANONE	N.D.	5	N.D.	--
CARBON TETRACHLORIDE	N.D.	5	N.D.	--
CHLOROBENZENE	N.D.	5	N.D.	--
CHLOROETHANE	N.D.	5	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	--
CHLOROFORM	N.D.	5	N.D.	--
CHLOROMETHANE	N.D.	5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHANE	N.D.	5	N.D.	--
1,2-DICHLOROETHANE	N.D.	5	N.D.	--
1,1-DICHLOROETHENE	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	--
ETHYL BENZENE	N.D.	5	N.D.	--
2-HEXANONE	N.D.	25	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5	N.D.	--
STYRENE	N.D.	5	N.D.	109
1,1,2,2-TETRACHLOROETHANE	710	5	N.D.	113
TETRACHLOROETHENE	N.D.	5	N.D.	--
TOLUENE	N.D.	5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	--
1,1,2-TRICHLOROETHANE	13	5	N.D.	86
TRICHLOROETHENE	N.D.	5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)				

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David Wintergrass
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

DOHS 1094

SU[redacted]#: [redacted]216[redacted]
CLIENT: ACC
DUE: 12/21/93
REF: 14455

Chain of Custody

DATE 12-14-93 PAGE 1 OF 1

PROJ. MGR. M. Kaltreider
COMPANY ACC Environmental
ADDRESS 1900 Atlantic Ave Suite 110
Alameda, CA 94501

SAMPLERS (SIGNATURE) Misty Kaltreider (PHONE NO.) 510 522-8188

ANALYSIS REPORT

SAMPLE I.D.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
B1-10	12/13/93		S							X															1
B2-10	"		"							X															1
B3-10	"		"							X															1
B4-10	"		"							X															1

PROJECT INFORMATION

PROJECT NAME: 333 E. 14th St.
PROJECT NUMBER: 6135-1
P.O. # 6135-1
TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS.

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	4
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

	1.	2.	3.
RELINQUISHED BY	Misty Kaltreider		
(SIGNATURE) (TIME)	12/14/93		
(PRINTED NAME) (DATE)	ACC Environmental		
(COMPANY)			
RECEIVED BY			RECEIVED BY (LABORATORY)
(SIGNATURE) (TIME)			1430
(PRINTED NAME) (DATE)			A. Marrow 12-14-93
(COMPANY)			Chromalab

CHROMALAB, INC.

DOHS 1094

CLIENT: ACCENV
DUE: 12/13/93
2: REF: 14348

Chain of Custody

DATE 12-6-93 PAGE 1 OF 1

PROJ. MGR. M. Kalkreider
COMPANY Acc Environmental
ADDRESS 1000 Atlantic Ave Suite 110
Alameda, CA 94501

SAMPLERS (SIGNATURE) Misty Kalkreider
(PHONE NO.) (510) 522-8188

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
B1-5'	12/3/93		S							X															1
B2-5			S							X															1
B3-5			S							X															1
B4-5			S							X															1

TOTAL P.06

PROJECT INFORMATION

PROJECT NAME: 333 E. 14th
PROJECT NUMBER: 6135-1
P.O. # 6135-1

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	4
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT: (STANDARD) 5-DAY | | | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Misty Kalkreider (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Misty Kalkreider (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 1.**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) 1445 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) R. Marone 12-6-93 (DATE)
(COMPANY)	(COMPANY)	(LAB) Chromalab

APPENDIX I: 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.

Environmental Testing and Management, *Fourth Quarter 1995 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California*, February, 1995.

Environmental Testing and Management, *First Quarter 1996 Environmental Activities Report, German Autocraft, 301 East 14th Street, San Leandro, California*, May 20, 1996.

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.