PHASE I ENVIRONMENTAL SITE ASSESSMENT

SKS DIE CASTING AND MACHINING ALAMEDA, CALIFORNIA

PREPARED FOR

SKS DIE CASTING AND MACHINING, INC. ALAMEDA, CALIFORNIA

PROJECT NO. S8152-06-01

AUGUST 1997

Project No. S8152-06-01 April 3, 1997 Revised August 1, 1997

SKS Die Casting and Machining, Inc. 1849 Oak Street Alameda, California 94501

Attn:

Mr. Jerry Keating

Subject:

SKS DIE CASTING AND MACHINING

1849 OAK STREET

ALAMEDA, CALIFORNIA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Keating:

In accordance with your request and our proposal dated October 18, 1996, Geocon Environmental Consultants, Inc. (Geocon) has performed a Phase I Environmental Site Assessment (ESA) of the subject site. The site consists of the SKS Die Casting and Machining (SKS) facility located at 1849 Oak Street in Alameda, California.

The SKS facility consists of a warehouse/machine shop, an office building, a chemical storage building and adjacent paved parking areas. It is understood that the Client, SKS, has requested the performance of an ESA prior to purchasing the site per Sanwa Bank's lending requirements.

The accompanying report presents the details of the Phase I ESA. The report summarizes the findings relative to the potential for the existing presence, as of the date of the site visits (January 23 and March 10, 1997), of hazardous materials/wastes at the site at levels likely to warrant mitigation action pursuant to current regulatory guidelines.

If there are any questions concerning the contents of this "Report," or if Geocon may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

John E. Juhrend, PE, CEG

Regional Manager

KLS:JEJ:db

(6) Addressee

Rebecca L. Silva

Sr. Staff Environmental Scientist

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ENVIRONMENTAL SITE ASSESSMENT

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (ESA) of the SKS Die Casting and Machining (SKS) facility located at 1849 Oak Street in Alameda, California (see Vicinity Map, Figure 1).

It is understood that SKS has requested the performance of an ESA prior to purchasing the site per Sanwa Bank's lending requirements. It is further understood that SKS currently leases the eastern portion of the site, and that modifications and/or redevelopment, other than minor interior improvements, are not presently proposed for the site.

1.1 Purpose and Scope of Services

Geocon Environmental Consultants, Inc. (Geocon) has performed preliminary research and site reconnaissances to estimate the potential for existing impacts to the site (i.e., levels of hazardous materials/wastes likely to warrant mitigation action pursuant to current regulatory guidelines) from the presence of hazardous materials/wastes on or within the vicinity of the site.

The guidelines used for the definition of hazardous materials/wastes are presented in the California Code of Regulations (CCR) Title 22. For the purposes of this report, the site vicinity is defined as properties located within ¼-mile of the site. The services performed by Geocon for this report are presented as follows:

Task I - Preliminary Research and Site Reconnaissances

- Reviewed the following environmental reports prepared by Harding Lawson Associates (HLA) and provided to Geocon by SKS:
 - 1. Site History Study 1849 Oak Street, dated August 27, 1987.
 - 2. Proposal Sampling and Analysis 1849 Oak Street, dated September 16, 1987.
 - 3. Test Results 1849 Oak Street, dated October 14, 1987.
- Reviewed the Geologic Map of California San Francisco Sheet, prepared by the California Division of Mines and Geology (CDMG), dated 1961, to obtain information regarding the prevailing soil and geologic conditions.

- Performed site reconnaissances on January 24 and March 10, 1997 to attempt to identify visual indicators suggestive of the potential presence, as of the date of the site reconnaissance, of hazardous materials/wastes at the site. These indicators typically include the presence of 55-gallon drums, chemical containers, waste disposal areas, industrial facilities, and discolored surficial soil conspicuously absent of vegetation. The onsite reconnaissance included a cursory survey of the building interiors. It is noted that the scope of services outlined herein did not include surveys for radon/methane gas or lead paint.
- Surveyed adjacent properties from public thoroughfares to evaluate if these properties possess
 facilities or structures that, on February 11, 1997, were likely to be occupied by entities that
 potentially use, store, generate, or dispose of hazardous materials/wastes.
- Reviewed aerial photographs for the years 1950, 1959, 1968, 1975, 1981, 1985, 1989 and 1995 available from Pacific Aerial Surveys to obtain information concerning the history of the site.
- Reviewed a U.S. Geological Survey (USGS) topographic map for the Oakland East, California Quadrangle dated 1959 (photorevised 1980) to obtain topographic information.
- Performed a Sanborn map site search for the site to obtain information pertaining to historical
 use, specifically regarding the presence of underground storage tanks (USTs) at the site.
- Conducted a telephone interview with the site owner, Mr. Thomas Nokes, to obtain information
 regarding the historical usages of the site and to identify if present or past occupants have
 reportedly used, generated, stored, or disposed of hazardous materials/wastes onsite.
- Reviewed the following listings/records obtained from governmental agencies for information regarding the potential presence of hazardous materials/wastes on the site and on properties located in the vicinity of the site unless otherwise noted:

US ENVIRONMENTAL PROTECTION AGENCY (EPA)

- "CERCLIS Listing or CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) Superfund Listing," dated January 3, 1997.
- "National Priority List (NPL)," dated September 12, 1995 for properties within 1 mile of the site.

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY (CAL-EPA)

- "Hazardous Waste and Substances Sites List (CORTESE)," dated December 1, 1994.
- "1989 Bond Expenditure Plan," dated January 1989.
- "Calsites Listing," dated December 13, 1996.
- "Facility Inventory Database (FID) ZIP CODE Report 94501," dated January 29, 1997.

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

- "AB 1803 Follow-up Program, Polluted Well Listing" dated January 23, 1989.
- "SWAT Program, Rank List of Solid Waste Disposal Sites," dated July 5, 1989.

CALIFORNIA WASTE MANAGEMENT BOARD

"Solid Waste Information System (SWIS)," dated March 1, 1993.

REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)

"Leaking Underground Storage Tank List," dated October 28, 1996.

- Reviewed seven case files at the Alameda County Department of Environmental Health (ACDEH) pertaining to underground storage tanks (USTs) and hazardous materials and waste generation facilities located in the vicinity of the site. The ACDEH files were reviewed to obtain information regarding the nature and extent of potential reported hazardous material/waste releases, to estimate the potential for the reported releases to impact the subject site, and to obtain information pertaining to the storage of hazardous materials/wastes onsite.
- Reviewed the "1993 Munger Map Book," to obtain information regarding the locations of
 potential oil and gas wells on the site or in the site vicinity.
- Contacted the following agencies to obtain information regarding potential sources of hazardous materials/wastes on the site and on properties located adjacent to the site (unless otherwise indicated):

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Contacted the Bay Area Air Quality Management District for information pertaining to the issuance of air permits for properties located in the vicinity of the site.

ALAMEDA BUREAU OF ELECTRICITY

 Contacted the Alameda Bureau of Electricity to obtain information concerning the potential presence of PCB-containing fluids in the electrical transformers located on site.

ALAMEDA COUNTY AGRICULTURAL COMMISSIONER'S OFFICE

 Contacted the Alameda County Agricultural Commissioner's Office to obtain information concerning the historical use of agricultural chemicals (ie. pesticides and herbicides) at the site.

Task II - Limited Asbestos Survey

- Surveyed the onsite structures for potential asbestos containing building materials (ACBMs) on March 10, 1997. The survey was limited to physically accessible areas and did not include areas which were not visible without demolition and/or product removal (e.g. floor tile covered with carpet, insulation between walls).
- Collected fourteen samples of suspected ACBMs. The samples were submitted to CTL Environmental Services and analyzed for the presence of asbestos in accordance with EPA Test Method 600/R-93/116, Polarized Light Microscopy.

Task III - Limited Soil and Groundwater Sampling

- Performed two hand-auger soil borings (HA-1 and HA-3) adjacent to the onsite railroad tracks to obtain soil and groundwater samples.
- Submitted selected soil and groundwater samples to Advanced Technology Laboratories for the
 analysis of total petroleum hydrocarbons as gasoline (TPHg) following EPA Test Method 8015
 modified, benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether
 (MTBE) following EPA Test Method 8020 and halogenated volatile organic compounds (VOCs)
 following EPA Test Method 8010.

EXISTING SITE, GEOLOGIC, AND GROUNDWATER CONDITIONS 2.0

Existing Conditions and Improvements 2.1

The SKS facility consists of a warehouse/machine shop, an office building, a chemical storage building and adjacent paved parking areas. The site also includes an automobile storage facility currently occupied by Winner Ford. A Site Plan depicting the approximate site boundaries, building locations and current tenant occupancy is presented as Figure 2. Adjacent properties consist primarily of light industrial and residential development.

Review of Previous Bavironmental Reports 2.2

HLA performed an ESA and limited soil and groundwater sampling of the site and the adjacent Winner Ford Automobile Repair facility in 1987. The results of historical research performed by HLA indicated that the site was likely utilized for farming prior to construction of the onsite building in the 1930s and 1940s. The facility was utilized for the manufacture of steel products between the 1930s and the mid-1980s. Winner Ford reportedly utilized the site during 1986 and 1987 for new automobile storage. HLA concluded that "it appears there are no documented releases of hazardous material from the site or adjacent sites."

HLA subsequently collected groundwater and surface water samples at the site and adjacent to the site in September 1987. The samples were collected at the following three locations:

- 1. Hand-auger boring 1A located at the unpaved area south of the adjacent Winner Ford Automobile Repair facility.
- 2. Hand-auger boring 2A located at the unpaved area to the southwest of the site near the laboratory sump at the adjacent Winner Ford Automobile Repair facility.
- Surface water sample 3A collected from the sump/storm drain located at the site near the paint mixing building. (~5b')

HLA reported that no odors or soil discoloration were noted during the excavation of hand-auger borings 1A and 2A. The water samples were analyzed for VOCs following EPA Test Method 624 and CAM 17 metals. VOCs were not detected in the groundwater samples obtained from borings 1A and 2A. Four VOC compounds were detected in surface water sample 3A at concentrations ranging from 9 to 440 micrograms per liter (µg/l). The reported metal concentrations were below their respective Soluble Threshold Limit Concentration (STLC) hazardous waste criteria.

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The approximate locations of the HLA sampling locations are depicted on the Site Plan, Figure 2. Copies of the HLA reports are presented in Appendix A.

2.3 Soil, Geologic and Groundwater Conditions

A review of the referenced CDMG document indicates that the site is underlain by Quaternary-aged Pleistocene marine and marine terrace deposits comprised of interbedded sand and clay. The results of hand-auger borings performed at the site by HLA and Geocon indicates that the site is underlain by one to three foot thick fill materials overlying alluvium. The fill and alluvium deposits generally consist of clayey to silty fine sand.

Groundwater was encountered in the HLA borings at depths between 8 and 9 feet below the ground surface (bgs) in September 1987. Groundwater was encountered in the Geocon borings at depths between 3 and 4.5 feet bgs in March 1997.

3.0 SITE RECONNAISSANCE

3.1 Onsite Survey

Representatives of Geocon performed site reconnaissances on January 23 and March 10, 1997, accompanied by Mr. Jerry Keating and Mr. Chris Keating of SKS. The purpose of the reconnaissances was to survey the existing site conditions to attempt to identify visual indicators of potential hazardous material/waste impacts to the site. The information obtained from the SKS representatives and observations noted during the site reconnaissances are summarized below. Site photographs are presented on Figures 3 and 4. The photograph orientations are depicted on the Site Plan, Figure 2.

Exterior Survey. The 2.75 acre site contains approximately 101,000 square feet of building space. The buildings include a warehouse/machine shop, office and chemical storage buildings currently occupied by SKS and automobile storage facility currently occupied by Winner Ford (see Figure 3). Existing onsite railroad spurs are located parallel to Oak Street and Clement Avenue portions of which are located within the building interiors.

<u>Interior Survey</u>. The site reconnaissance included a cursory survey of the building interiors. During the interior survey, information was obtained from the referenced SKS representatives pertaining to the potential use/storage/generation of hazardous materials/wastes resulting from the onsite tenant operations. Observations noted during the building interior surveys are presented hereinafter.

SKS manufactures die cast aluminum and zinc parts at the site. Waste products generated from the die casting and metal polishing operations include used oil water based coolant and diesel which is used as a cutting oil. New and waste product drums are stored within the chemical storage building (see Figure 3). The chemical storage building has interior sloping concrete floors utilized if necessary for spill containment. Winner Ford utilizes the western portion of the site for automobile storage (see Figure 4).

55-gallon drums were noted at several locations within the site including the following:

- 1. Three unlabeled drums located on the railroad tracks and against the southeastern wall of the Winner Ford automobile storage warehouse on the western portion of the site.
- 2. Four labeled waste antifreeze drums located adjacent to the SKS chemical storage building.

3.2 Offsite Survey

In addition to the onsite reconnaissance, a representative of Geocon performed a survey of adjacent properties from public thoroughfares to assess if facilities and/or structures located on these properties are operated by entities that potentially (as of February 11, 1997) use, store, generate, or dispose of hazardous materials/wastes.

The site is bounded to the north by Clement Avenue, on the west by Elm Street, on the east by Oak Street, and on the south by the Winner Ford Automobile Repair facility. Light industrial development extends to the north along Clement Avenue. Residential development extends to the west, south and east of the site.

4.0 SITE HISTORY

4.1 Review of Aerial Photographs

Aerial photographs for the years 1950, 1959, 1968, 1975, 1981, 1985, 1989 and 1995 available from Pacific Aerial Surveys were reviewed during the preparation of this report. Observations noted during the review are discussed hereinafter.

1950 Aerial Photograph. Review of a 1950 aerial photograph indicates that the site was developed in its current configuration. Street improvements noted within the site vicinity included Clement Avenue and Oak Street. Extensive residential development was present to the west, south and east of the site. Industrial development was noted to the north of the site across Clement Avenue. Railroad tracks were noted leading into the northern most structure at the site, and curving along the eastern boundary of the site along Oak Street.

1959, 1968 and 1975 Aerial Photographs. Review of 1959, 1968 and 1975 aerial photographs indicates similar observations for the site as those noted in the 1950 aerial photograph.

1981 Aerial Photograph. Review of a 1981 aerial photograph indicates similar observations for the site and properties in the vicinity of the site as those noted in the review of the 1975 aerial photograph, with the following exceptions. Increased industrial development was noted to the north of the site.

1985, 1989 and 1996 Aerial Photographs. Review of 1985, 1989 and 1996 aerial photographs indicates similar observations for the site and properties in the vicinity of the site as those noted in the review of the 1981 aerial photograph.

4.2 Review of U.S. Geological Survey (USGS) Topographic Map

A USGS topographic map dated 1959 (photorevised 1980) for the Oakland East, California, Quadrangle was reviewed to obtain information relative to the topography of the site. The review indicates that the site is essentially flat and located at an approximate elevation of 15 feet above Mean Sea Level.

4.3 Review of Sanborn Maps

The results of the Sanborn Map site search indicated maps available for the years 1897, 1948, 1950 and 1987. The Sanborn map review was performed to obtain information pertaining to historical developments on the site and specifically regarding the presence of underground storage tanks at the site. Observations noted during the review are summarized hereinafter.

1897 Sanborn Map. Review of the 1897 Sanborn Map indicates that the site was vacant. A few residential dwellings were noted to the south of the site along Oak Street between Eagle Avenue and Buena Vista Avenue.

1948 Sanborn Map. Review of the 1948 Sanborn Map indicates that the site was occupied the United States Steel Products Company - Boyle Manufacturing Division. Building improvements noted include a warehouse containing a paint room, an office, a paint and oil building, an oxygen cylinder storage area, four transformers, a boiler room and machine shop, and an electric shop. Railroad spurs were noted along Clement Avenue, entering the warehouse located at the northern end of the site, and along Oak Street entering the warehouse on the southern portion of the site. The Pacific Coast Engineering ship building yard was present across Clement Avenue from the site, and residential dwellings were noted to the west of the site along Clement Avenue and Elm Street.

1950 Sanborn Map. Review of the 1950 Sanborn Map indicates similar observations as those noted in the review of the 1948 Sanborn Map.

1987 Sanborn Map. Review of the 1987 Sanborn Map indicates that although the same structures were present at the site, with the exception of the warehouse, which was noted to be a garage, the remaining buildings were noted as vacant.

4.4 Interviews

Mr. Thomas Nokes - Site Owner

Mr. Thomas Nokes of Winner Ford was contacted on March 25, 1997, by a representative of Geocon. Mr. Nokes indicated that he purchased the site in 1988 and soon after leased a portion of the site to SKS. Mr. Nokes indicated that he was not aware of any potential hazardous material/waste site impacts at the site.

The government agency records previously specified in the Scope of Services Section of this report were reviewed for information regarding the potential existing presence of hazardous materials/wastes at the site at levels likely to warrant current regulatory mitigation action. Unless otherwise noted, the information was reviewed for the site, and properties located in the site vicinity (within 1/4-mile of the site). Regulatory information obtained for the properties adjacent to and in the vicinity of the site is presented in Appendix B. Descriptions of each of the information sources reviewed are presented in Appendix C. The information obtained from the governmental agencies is summarized hereinafter.

5.1 EPA CERCLIS and NPL Listings

A review of the referenced EPA CERCLIS and NPL Listings indicates that neither the site, nor properties in the vicinity of the site, are referenced. United Heckathorn Company, located approximately 3/4-mile east of the site, is referenced. Information regarding the Superfund clean-up operations at United Heckathorn Company is presented in Appendix B.

5.2 CAL-EPA CORTESE Listing

A review of the referenced CAL-EPA CORTESE Listing indicates that five facilities within the vicinity of the site are referenced for leaking underground storage tanks. Descriptions of the properties are presented hereinafter. Additional information regarding these facilities is presented hereinafter in the ACDEH file review section of this report.

- Clement Avenue Project, located at 2235 Clement Avenue, adjacent and northeast of the site.
- Ashland Oil, located at 2307 Clement Avenue, adjacent and east of the site.
- Exxon/Regal, located at 1725 Park Street, approximately 1/8-mile southeast of the site.
- An unknown facility, located at 1800 Park Street, approximately 1/8-mile east-southeast of the site.
- Alameda Collision, located at 1911 Park Street, approximately 1/8-mile east of the site.

CAL-EPA BEP Listing <u>5.3</u>

A review of the CAL-EPA BEP Listing indicates that neither the site, nor properties in the vicinity of the site, are referenced. The BEP facility in closest proximity to the site is referenced as the Port of Oakland - Embarcadero Cove, located approximately 1/2-mile north of the site. Information regarding the clean-up operations at the Port of Oakland - Embarcadero Cove is presented in Appendix B.

5.4 CAL-EPA CALSITES Listing

A review of the referenced CAL-EPA CALSITES Listing indicates that neither the site, nor properties in the vicinity of the site, are referenced.

5.5 CAL-EPA FID ZIP CODE Report

A review of the referenced CAL-EPA FID ZIP CODE Report for 94501 indicates that 20 facilities in the vicinity of the site are referenced. Information obtained from a review of the Zip Code report is presented hereinafter. A copy of the Zip Code Report is presented in Appendix B.

- SKS Die Casting, Inc., located onsite at 1849 Oak Street, is referenced for filing a toxic release
 inventory for a chemical release to the air, water or land in 1991 and 1992. Alameda Plant,
 formerly located at 1849 Oak Street, is referenced by the CAL-EPA inactive underground tank
 locations (UTNKI) listing. Additional information regarding this facility is presented hereinafter
 in the ACDEH file review section of this report.
- Alameda Electric, located at 2420 Blanding Avenue, approximately 3/16-mile east of the site, is referenced by the CAL-EPA UTNKI listing.
- Smith-Rice Company Yard, located at 2199 Clement Avenue, approximately 3/16-mile northwest of the site, is referenced by the CAL-EPA active underground tank locations (UTNKA) listing.
- Clement Avenue Project, located at 2235 Clement Avenue, adjacent and northeast of the site, is
 referenced by the CAL-EPA active leaking underground tank (LTNKA) listing. Reliance Sheet
 and Strip Company, formerly located at 2235 Clement Avenue, is referenced by the CAL-EPA
 UTNKI listing. Additional information regarding this facility is presented hereinafter in the
 ACDEH file review section of this report.
- Cal-Steel Coating Company, located at 2241 Clement Avenue, adjacent and northeast of the site, is referenced by the US EPA as having air emissions activities and by CAL-EPA for having air toxics emission data.
- Miracle Auto Painting, located at 2307, adjacent and east of the site, is referenced by the US
 EPA as having air emissions activities. Ashland Oil, formerly located at 2307 Clement Avenue,
 is referenced by the CAL-EPA LTNKA listing. Additional information regarding this facility is
 presented hereinafter in the ACDEH file review section of this report.
- Ron Goode Toyota, located at 2424 Clement Avenue, approximately 3/16-mile east-southeast of the site, is referenced by the CAL-EPA UTNKA listing.
- Alameda Auto Care, located at 2405 Eagle Avenue, approximately 1/8-mile southeast of the site, is referenced by the US EPA as having air emissions activities.

- Union Oil Service Station, located at 2267 Lincoln Avenue, approximately ¼-mile southwest of the site, is referenced by the CAL-EPA UTNKA listing.
- Good Chevrolet, located at 2329 Pacific Avenue, approximately 3/16-mile south of the site, is referenced by the US EPA as having air emissions activities and by the Facility Index Data System (FINDS) listing.
- Brite 1 Hour Cleaners, located at 1607 Park Street, approximately ¼-mile south of the site, is referenced by the US EPA as having air emissions activities and by CAL-EPA for having air toxics emission data.
- Good Chevrolet, located at 1630 Park Street, approximately 3/16-mile south of the site, is referenced by the CAL-EPA UTNKA listing.
- Winner Ford, located at 1650 Park Street, approximately 3/16-mile south of the site, is referenced by the CAL-EPA UTNKA listing.
- Cavanaugh Motors, Inc., located at 1700 Park Street, approximately 1/8-mile south-southeast of the site, is referenced by the US EPA as having air emissions activities and by the CAL-EPA UTNKI listing.
- Shell Oil, located at 1701 Park Street, approximately 1/8-mile south-southeast of the site, is referenced by the CAL-EPA UTNKA listing.
- Exxon Regal, located at 1725 Park Street, approximately 1/8-mile southeast of the site, is referenced by the CAL-EPA LTNKA and UTNKA listings. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.
- Alameda Foreign Auto, located at 1726 Park Street, approximately 1/8-mile southeast of the site, is referenced by the CAL-EPA UTNKA listing.
- Chevron #4463, located at 1801 Park Street, approximately 1/8-mile east-southeast of the site, is referenced by the CAL-EPA UTNKA listing.
- Ron Goode Toyota, located at 1825 Park Street, approximately 1/8-mile east-southeast of the site, is referenced by the CAL-EPA UTNKI listing.
- Alameda Collision Repair, located at 1911 Park Street, approximately 1/8-mile east of the site, is referenced by the US EPA as having air emissions activities and by the CAL-EPA LTNKA listing. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.

5.6 California State Water Resources Control Board AB1803 and SWAT Listings

A review of the referenced California State Water Resources Control Board AB1803 and SWAT Listings indicates that neither the site, nor properties in the vicinity of the site, are referenced.

California Waste Management Board SWIS Listing 5.7

A review of the California Waste Management Board SWIS Listing indicates that neither the site, nor properties in the vicinity of the site, are referenced.

RWOCB Leaking Underground Storage Tank Listing <u>5.8</u>

A review of the RWQCB Leaking Underground Storage Tank Listing indicates that 11 facilities are referenced in the vicinity of the site. Descriptions of the properties listed are presented hereinafter.

- Alameda Electric, located at 2420 Blanding Avenue, approximately 3/16-mile east of the site. This case has been closed.
- Dollres Staudenraus, located at 2424 Blanding Avenue, approximately 3/16-mile east of the site. A leak has been confirmed at this facility.
- Clement Avenue Project, located at 2235 Clement Avenue, adjacent and northeast of the site. This case has been closed. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.
- Good Chevrolet, located at 1630 Park Street, approximately 3/16-mile south of the site. A preliminary assessment is being performed at this facility.
- Cavanaugh Motors, located at 1700 Park Street, approximately 1/8-mile south-southeast of the site. A pollution characterization is being performed at this facility.
- Xtra Oil Company, located at 1701 Park Street, approximately 1/8-mile south-southeast of the site. A leak has been confirmed at this facility.
- Exxon/Regal, located at 1725 Park Street, approximately 1/8-mile southeast of the site. A remediation workplan has been submitted for this facility. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.
- Henry Dare Property, located at 1726 Park Street, approximately 1/8-mile southeast of the site. This case has been closed.
- An unknown facility, located at 1800 Park Street, approximately 1/8-mile east-southeast of the site. This case has been closed. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.
- Ron Goode Toyota, located at 1825 Park Street, approximately 1/8-mile east-southeast of the site. A preliminary assessment is being performed at this facility.
- Alameda Collision, located at 1911 Park Street, approximately 1/8-mile east of the site. This case has been closed. Additional information regarding this facility is presented hereinafter in the ACDEH file review section of this report.

5.9 ACDEH Case File Review

Information obtained from a review of the ACDEH regulatory compliance case files is presented hereinafter:

- A review of the case file information for SKS Die Casting, located onsite at 1849 Oak Streets indicates that the site was formerly occupied by Container Products in 1984, and by U.S. Steel prior to 1984. Hazardous materials used at the site by Container Products included xylenes, glycol, ether, MEK, and paints which were stored in an explosion proof building. The mixing of paints was also performed in the explosion proof building. A 250-gallon liquid petroleum gas. AST was present at the site. Painting hood filters and paint waste were picked up by a licensed hauler. In a 1987 letter from Alameda County Health Care Services, no violations were reported for the site, and it was stated that no contamination was located within 2,000 feet of the site. During an August 1996 inspection of the SKS Die Casting facility, hazardous waste generated included waste oils from the die cast machines, water based coolant and diesel which is used as a cutting oil. The was used as a vapor degreaser as recently as 1993, but is no longer used at the site. No violations were noted at the site with the exception of drum labeling violations.
- A review of the case file information for Winner Ford, located at 1835 Oak Street, adjacent and south of the site, indicates that this facility is an automotive business which generates waste oil, waste antifreeze, dead batteries, spent solvent, and powder absorbent for spills. The waste oil is contained in an aboveground storage tank, and the additional wastes are collected in 55-gallon drums and removed from the facility by Evergreen Environmental. Hazardous materials used at this facility include automatic transmission fluid, gear lubricant, antifreeze, solvents, motor oil, acetylene and oxygen. No violations were noted for this facility during a June 1996 inspection.
- A review of the case file information for Miracle Auto Painting, located at 2307 Clement. Avenue, adjacent and east of the site, indicates that this facility is listed as a hazardous waste generator. Hazardous wastes include paint and paint thinners Hazardous materials used at this facility include vinyls, lacquers, solvents, thinners, adhesives and apoxies. Leftover paint is processed through a solvent distillation unit at this facility, producing a solid waste. The hazardous waste is removed from the facility by a licensed hauler. No violations were noted for this facility during a July 1996 inspection with the exception of labeling and training record violations.
- A review of the case file information for the Clement Avenue Project, located at 2235 Clement Avenue, adjacent and north of the site, indicates that this facility had an unauthorized release from a 550-gallon gasoline UST discovered during a UST removal in May 1989. Impacted soil was excavated and aerated onsite. The UST excavation was backfilled and the ACDEH issued a no further action letter for this release. Reliance Sheet and Strip Company began leasing the property in June 1991. This facility is listed as a generator of hazardous waste including waste oil from machinery and forklifts. The upper level of a warehouse at this facility was quarantined in June 1991 due to suspected asbestos contamination. Pipe insulation in the warehouse was thought to be asbestos, however, after analytical testing of the material it was determined that it was not asbestos. The quarantine was lifted in July 1991 and no additional violations were noted for this facility.

- A review of the case file information for Alameda Collision, located at 1800 Park Street, approximately 1/8-mile east-southeast of the site, indicates that this facility removed one 200gallon and one 750-gallon gasoline UST in June 1988. It was noted in the removal report that both tanks had holes along the seams. Groundwater was present in the UST excavation at the time of the removal, and free product was noted floating on the water in the excavation. Soil samples collected from the excavation had nondetected concentrations of the target compounds, however, a groundwater sample collected from the standing water in the excavation had reported TPHg and benzene concentrations of 1,700 and 4.3 ppb, respectively. One groundwater monitoring well was installed downgradient of the UST excavation in December 1992. Groundwater monitoring was conducted for this well for four quarters, and TPHg, TPHd and BTEX were reported below the laboratory test methods detection limits for each sampling event. Groundwater was reported at a depth of 4 to 4.5 feet bgs with a flow direction to the north. The soil removed during the removal of the USTs was replaced in the excavation, and additional clean soil was used for the backfill of the UST excavation. The ACDEH issued a no further action letter regarding this release in June 1994. In March 1993 this facility received a release report from the Department of Fish and Game for the release of lead based paint into the nearby Alameda/Oakland estuary. Paint was reportedly being water blasted from a wall adjacent to this facility, and washed into the storm drain and through an outfall pipe to the estuary. 1,500 ppm lead was detected in a water sample collected from the outfall pipe. The water blasting activities were stopped and operations were changed to collect the runoff before it was released into the storm drain. This facility uses hazardous materials including acetylene, argon and oxygen. Hazardous wastes generated at this facility include waste paint, solvent and thinner. The waste products are collected in 55-gallon drums and are picked up by Safety Kleen. No violations were noted for this facility during a July 1996 inspection with the exception of drum labeling violations.
- A review of the case file information for Alameda Auto Repair, located at 1800 Park Street, approximately 1/8-mile east-southeast of the site, indicates that this facility was formerly owned by Gonsalves and Sons and had two 7,500-gallon gasoline USTs and one 1,000-gallon waste oil UST removed in October 1991. The two gasoline USTs were reportedly in good condition, however, the waste oil UST had rust, holes and pitting. No impacts to the soil were noted at the time of the UST removals. Soil samples collected from each of the UST excavations had nondetected concentrations of the target compounds. Groundwater was encountered within the excavations at a depth of 9 to 10 feet bgs. Slight petroleum hydrocarbon impacts were detected in the soil sample collected from the stockpiled soil removed from the UST excavation, however, the ACDEH issued a no further action letter regarding the release in June 1995. Alameda Auto Repair assumed the business in November 1991. Hazardous wastes generated at this facility include waste oil, antifreeze and batteries. The waste products generated at the site are removed by Safety Kleen. No violations were noted for this facility during a July 1996 inspection with the exception of drum labeling violations.
- A review of the case file information for Regal/Exxon Gas Station, located at 1725 Park Street, approximately 1/8-mile southeast of the site, indicates that this facility has been issued a permit to operate three 10,000-gallon gasoline USTs. The three USTs were installed in 1986 to replace three additional USTs. An initial site investigation was performed at this facility in 1988. Six soil borings were drilled and converted to groundwater monitoring wells. Gasoline was detected in both the soil and the groundwater, therefore, seven additional soil boring and one additional groundwater monitoring well were drilled and installed at the facility in 1990. In 1991 five soil borings were drilled at the facility and were converted to groundwater extraction wells. In

September 1992 research was performed to determine if the impacts at the facility were from other sources or a release at their facility. Service stations were present on each of the other three corners of the intersection, and a known release was reported at the Shell Station located southwest of this facility. In December 1992 a groundwater treatment system was constructed, and in February 1993 it began operation. Groundwater is extracted and treated with activated carbon and is discharged to the sanitary sewer. In May 1993 three additional groundwater monitoring wells were installed at the facility, and in 1995 two groundwater monitoring wells were installed in the streets adjacent to the facility. An air sparge pilot test was conducted at the facility in January 1994, and a vapor extraction test was performed in February 1994. The radius of influence for air sparging was determined to be 15 to 20 feet. Groundwater monitoring has been performed at the site from June 1988 to the present. Free product has been detected and a sheen noted on the groundwater during select groundwater monitoring events. The most recent groundwater monitoring event, conducted during the fourth quarter of 1996, indicated TPHg and benzene concentrations in the groundwater samples ranging from 550 to 53,000 µg/l and 0.52 to 9,100 µg/l, respectively. Groundwater was encountered at depths between 6 an 20 feet bgs with a groundwater flow to the east during the fourth quarter 1996 monitoring event.

5.10 Munger Map Book

A review of the 1993 Munger Map Book indicates that oil or gas wells are not depicted on the site or in the site vicinity.

6.0 CONTACTS - PUBLIC AGENCIES

Public agencies previously specified in the Scope of Services Section of this report were contacted to obtain information regarding the potential existing presence of hazardous materials/wastes at the site at levels likely to warrant current regulatory mitigation action. Unless otherwise noted, information was obtained for the site and adjacent properties. The information obtained from public agencies is summarized hereinafter.

6.1 Bay Area Air Quality Management District

Information was requested from the Bay Area Air Quality Management District on February 27, 1997 regarding the issuance of air permits and/or violations for facilities located within the vicinity of the site. Geocon has not received the requested information as of the date of this report.

6.2 Alameda Bureau of Electricity

A representative of Geocon contacted the Alameda Bureau of Electricity on February 18, 1997 regarding the potential presence of PCB-containing fluids within electrical transformers at the site. Mr. Hank Steffenetti indicated that the transformers located at the site most likely do not contain PCBs. The Bureau of Electricity has reportedly replaced all PCB-containing transformers over the last several years.

6.3 Alameda County Agricultural Commissioner's Office

Information obtained from the Alameda County Agricultural Commissioner's Office indicates that no pesticide/herbicide use permits or historical crop production records are available for the site.

7.0 LIMITED ASBESTOS SURVEY

7.1 Field Sampling Activities

Fourteen potential ACBM samples were obtained from the site on March 10, 1997. The samples included wallboard, vinyl floor tile, ceiling tiles and window glaze from exposed building material surfaces.

7.2 Analytical Results

The samples were analyzed in accordance with EPA Test Method 600/MA-82-020, Polarized Light Microscopy. Two samples obtained from vinyl floor tile materials contained chrysotile asbestos concentrations of 2 and 8 percent. Asbestos was not detected at concentrations above the analytical method detection limit for the remaining samples.

A summary of the asbestos laboratory test results are presented on Table 1. Copies of the laboratory reports and the chain-of-custody documentation are presented in Appendix D.

8.0 LIMITED SOIL AND GROUNDWATER SAMPLING

8.1 Field Activities

Based on the history of industrial manufacturing operations and the presence of existing railroad spurs at the site, Geocon performed two hand-auger borings (HA1 and HA3) to collect soil and groundwater samples for analytical testing.

The hand-auger boring locations are depicted on Figure 2. Boring logs indicating the soil conditions encountered and sample locations are presented in Appendix E.

8.2 Analytical Results

TPHg, BTEX and VOCs were not detected in the two soil samples analyzed from borings HA1 and HA3. The groundwater sample obtained from boring HA1 contained TPHg and trichloroethene (TCE) at concentrations of 70 and 1.5 μ g/l, respectively. Reported BTEX and MTBE concentrations consisted of 1.8, <0.5, 0.7, 0.7 and 0.96 μ g/l, respectively.

A summary of the soil and groundwater laboratory test results is presented on Table 2. Copies of the laboratory reports and the chain-of-custody documentation are presented in Appendix D.

9.0 SUMMARY OF FINDINGS

- 1. The site consists of the SKS Die Casting and Machining facility located at 1849 Oak Street in Alameda, California.
- 2. The site is underlain by shallow fill materials and alluvial deposits generally comprised of clayey to silty fine sands. The current depth to groundwater beneath the site is approximately 3 to 5 feet bgs.
- 3. The results of onsite reconnaissances performed on January 24 and March 10, 1997 indicate that visual indicators of potential hazardous material/waste impacts were not noted at the site. Facility operations at SKS include the storage and use of potential hazardous materials/wastes including aluminum, zinc and white brass alloys, oils, coolants, degreasers, lubricants, fuels and solvents. The results of the offsite survey indicate that the surrounding properties generally include light industrial and residential development.
- 4. A review of the historical information obtained during the preparation of this report suggests that the site was developed as a steel manufacturing warehouse in the 1930's and 1940's. Farming activities apparently occurred at the site prior to the 1930's.
- 5. A review of information obtained from governmental agencies indicates that: (1) underground storage tanks are not reported for the site; (2) hazardous materials/wastes have been reported as being used, generated, stored, and/or disposed of at the site; and (3) incident reports of hazardous materials/wastes releases/spills have not been reported at the site.
- 6. A review of information obtained from governmental agencies indicates that leaking underground storage tanks are reported for 11 properties located within the vicinity of the site.
- 7. The results of the limited asbestos survey indicates the presence of chrysotile asbestos at concentrations of 2 and 8 percent in two vinyl floor tile samples. The remaining samples did not contain detectable asbestos concentrations.
- 8. The results of the limited soil and groundwater sampling activities indicated that TPHg, BTEX and VOCs were not detected in two soil samples analyzed from borings HA1 and HA3. The groundwater sample obtained from boring HA1 contained TPHg, benzene, TCE and MTBE concentrations of 70, 1.8 and 1.5 and 0.96 μg/l, respectively.

10.0 CONCLUSIONS AND RECOMMENDATIONS

A review of the information sources referenced herein indicates that hazardous materials releases have not been reported for the site. Unauthorized releases from USTs have been reported for 11 facilities within the vicinity of the site. Based on the distance of the site from the USTs, it is not likely that the site has been impacted by these UST releases.

Benzene was detected in the groundwater sample obtained from boring HA1 at a concentration of $1.8 \mu g/l$, slightly higher than the California maximum contaminant level (MCL) for benzene of $1.0 \mu g/l$. However, due to the lack of detectable petroleum hydrocarbon soil impacts at the site and the general industrial development in the vicinity of the site, additional site investigation and/or remedial action does not appear to be warranted.

55-gallon drums located throughout the site should be collected, the contents of the drums characterized and subsequently disposed of in accordance with regulatory protocols.

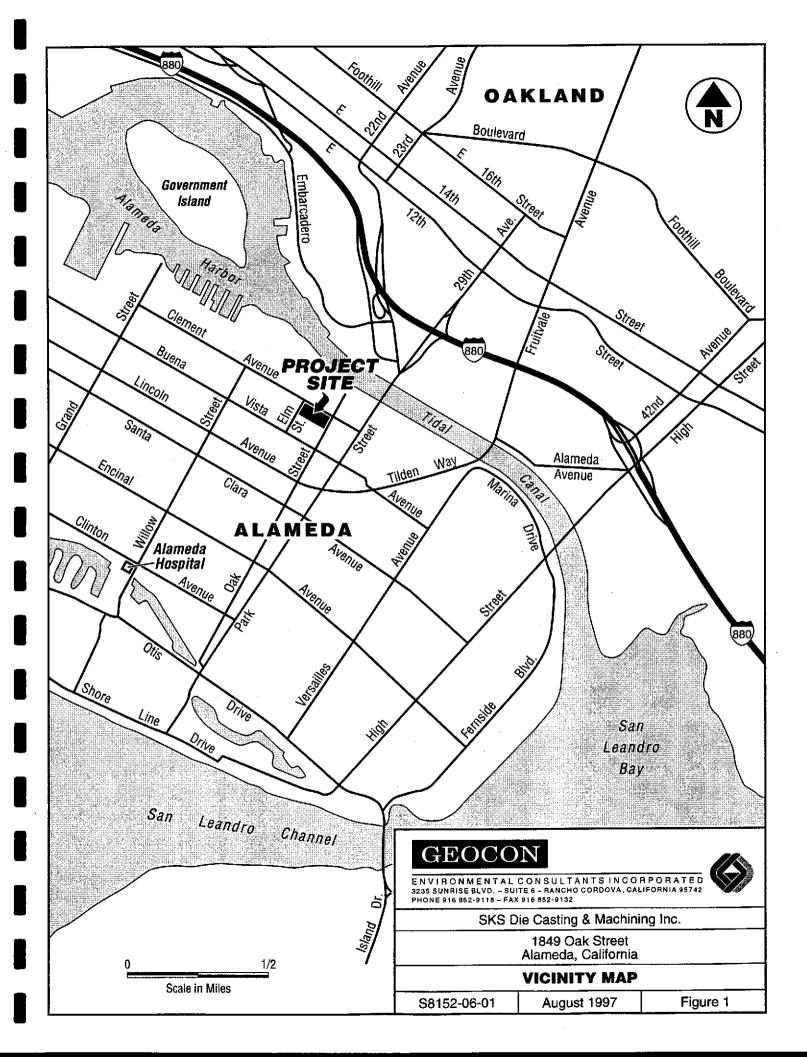
Based upon the laboratory results of the bulk samples collected, the identified vinyl floor tile ACBMs should be maintained to prevent the generation of airborne asbestos fibers and will require abatement and proper disposal prior to any future structural demolition/renovation.

11.0 REPORT LIMITATIONS

This preliminary site assessment report has been prepared exclusively for SKS Die Casting and Machining, Inc. If the report is to be used by other parties for informational purposes only, then the party agrees to abide by the "Terms and Conditions" of the "Proposal" dated October 18, 1996. The information obtained is only relevant for the dates of the records reviewed or as of the date of the latest site visit. Therefore, the information contained herein is only valid as of the date of the report, and will require an update to reflect recent records/site visits.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the site reconnaissance, a review of the specified regulatory records, and a review of the historical usage of the site, as presented in this report. The Client should also understand that asbestos, radon, methane gas, and wetlands delineation were not included in the scope of services for this report.

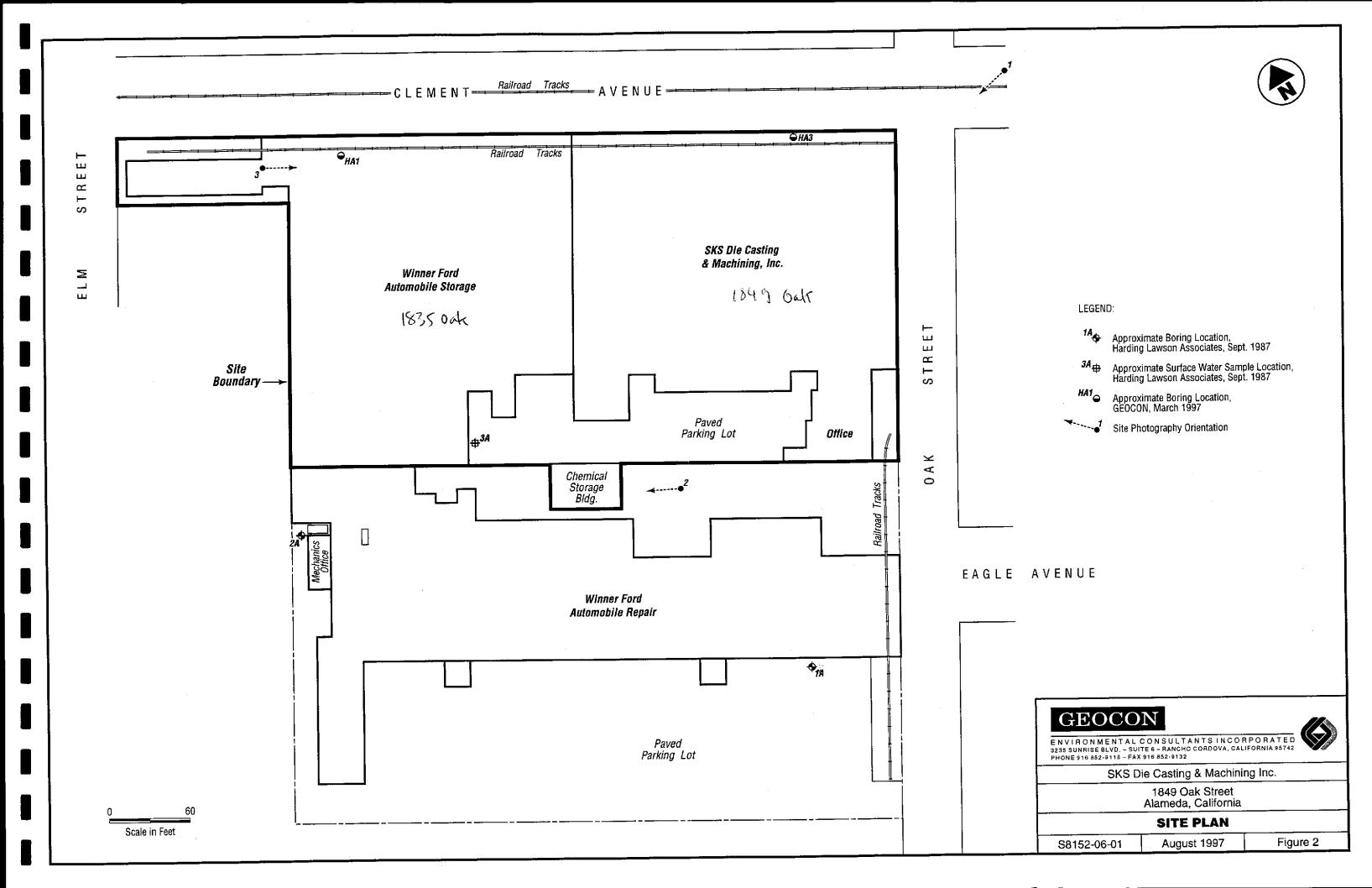
Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warrantee of the results of the ESA is implied within the intent of this report or any subsequent reports, correspondence or consultation, either expressed or implied. Geocon strived to conduct the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



entire site is concrete flooring excepts along railroad tracks She was constructived 1930/-1940's original concrete floor.

No opvious staming (other contamuation noted in buildings: us soil (GW sampling done through encrete floors.

Only soil/6w from r.r. tecause it usent paved. Unknown 6w floridizedion, possible NE to Alameda. Harbur.



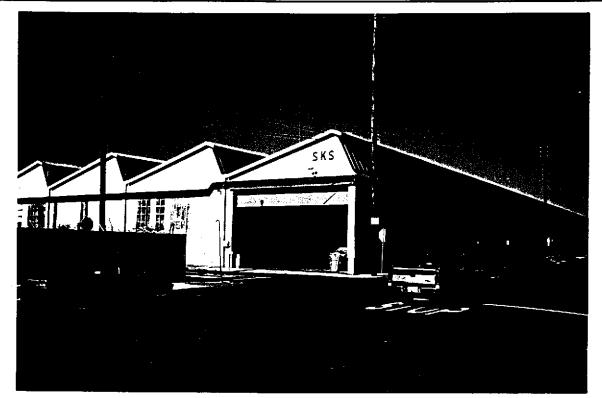


Photo No. 1 SKS Facility Exterior

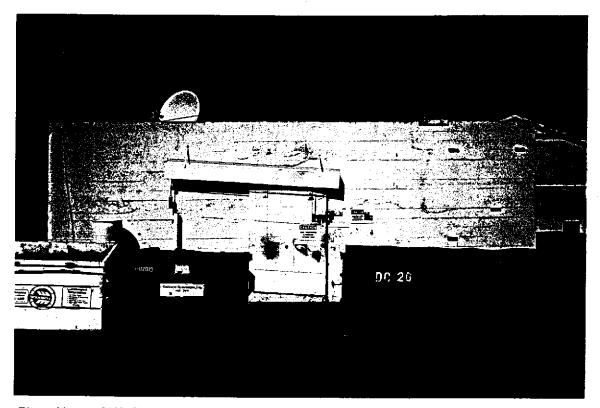


Photo No. 2 SKS Chemical Storage Building

SITE PHOTOS NO. 1 & 2

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED 3235 SUNRISE BLVD. – SUITE 6 – RANCHO CORDOVA, CALIFORNIA 95742 PHONE 916 852-9118 – FAX 916 862-9132



SKS Die Casting & Machining Inc

1849 Oak Street Alameda, California

S8152-06-01 August 1997

Figure 3

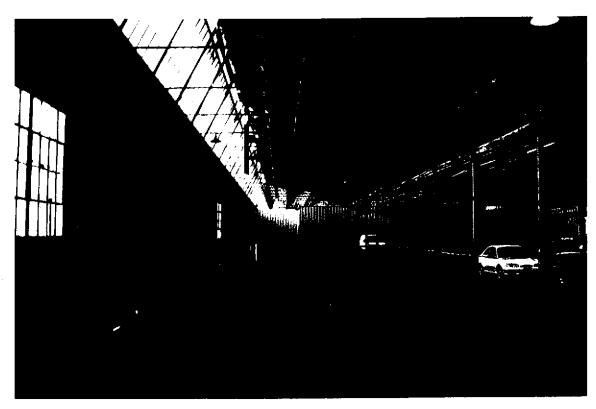


Photo No. 3 Winner Ford Automobile Storage

SITE PHOTO NO. 3

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED 3235 SUNRISE BLVD. — SUITE 6 - RANCHO CORDOVA, CALIFORNIA 95742 PHONE 916 852-9118 - FAX 916 852-9132



SKS Die Casting & Machining Inc

1849 Oak Street Alameda, California

S8152-06-01 August 1997 Figure 4

Project No. S8152-06-01 April 3, 1997 Revised August 1, 1997 Page ! of 1

TABLE I SUMMARY OF ASBESTOS ANALYTICAL DATA SKS DIE CASTING ALAMEDA, CALIFORNIA

SAMPLE I.D.	AREA/ROOM MATERIAL		PERCENTAGE ASBESTOS	
SKS-1	Hallway Near Men's Bathroom	Wallboard	<	
SKS-2	Utility Room Adjacent to Men's Bathroom	Wallboard	< 1	
SKS-3	Utility Room	Vinyl Floor Tile	<1	
SKS-4	Computer Room	Pegboard Waliboard	<1	
SKS-5	Conference Room	Dropped Ceiling Tiles	<1	
SKS-6	Exterior	Window Glaze	<1	
SKS-7	Warehouse Bathroom	Ceiting Tile	<1	
SKS-8	Warehouse Locker Room	Ceiling Tile	<1	
SKS-9	Warchouse Locker Room	Vinyl Floor Tile	8% Chrysotile	
SKS-10	Warehouse Shop Office	Ceiling Tile	<1	
WIN-5	Warehouse Kitchen	Ceiling Tile	<1	
WIN-6A WIN-6B	Warehouse Kitchen Warehouse Kitchen	Vinyl Floor Tile Vinyl Floor Tile	2% Chrysotile <1	
WIN-7	Storeroom	Ceiling Tile	<1	
WIN-8	Chemical Storage	Ceiling Tile	<1	

Project No. S8152-06-01 April 3, 1997 Revised August 1, 1997 Page 1 of 1

TABLE 2 SUMMARY OF SOIL AND GREEN ANALYTICAL DATA - PETROLEUM HYDROCARBONS AND VOC'S SKS DIE CASTING

ALAMEDA, CALIFORNIA

SAMPLE ID	DATE	TPHg (mg/kg)	BTEX (µg/kg)	MTBE (μg/l)	8010 (μg/kg)
^HA1-2.5	3/10/97	<1	<5		ND
HA2-3	3/10/97	<1	<5		ND
HA1-W*	3/10/97	70	1.8/<0.5/0.7/0.7	0.96	TCE = 1.5

Notes:

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene and total xylenes

MTBE = Methyl tert-butyl ether

8010 = Halogenated volatile organic compounds

TCE = Trichloroethene

* = Water sample; results reported in micrograms per liter

< = Less than laboratory test method detection limits

--- = Not tested

ND = Not detected above laboratory test method detection limits

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Harding Lawson Associates



August 27, 1987

17206,009.04

Mr. Robert Thompson . P.O. Box 829 Larkspur, California 94939

Dear Mr. Thompson:

Site History Study 1849 Oak Street Property Alameda, California

This letter presents the results of our site history study at the former Container Products facility located at 1849 Oak Street, Alameda, California. The purpose of the study was to determine whether past practices at the subject and/or adjacent properties have resulted in the release of hazardous materials into the soil and ground water beneath the site. The work was performed in accordance with our confirmation letter and Service Agreement dated August 5, 1987.

The scope of our study consisted of:

- Site inspection and walkthrough of existing manufacturing buildings
- Review of building permits, historical directories, Sanborn insurance maps, and tax records for preparation of site history
- Examination of aerial photographs
- Discussions with regulatory agencies and review of Regional Water Quality Control Board files.

The information in this letter is based solely on the above-listed four items. Subsurface drilling or chemical analysis of soils or ground water was not performed during this investigation.

SITE DESCRIPTION

The subject property is in the southeast portion of Alameda Island. It is bounded by Oak Street on the southeast, Elm Street on the northwest, Clement Avenue on the northeast, and Buena Vista Avenue on the southwest. The Alameda Harbor Tidal Canal is approximately 800 feet northeast of the site. The property is zoned for industrial use, as are the adjacent properties to the northeast. Property zoning to the southwest, southeast, and northwest is residential. Plate I illustrates the current site usage and zoning in the area.

Mr. Robert Thompson August 27, 1987 17206,009.04 Page 2

The property is 5.24 acres, of which approximately 3.5 acres are occupied by buildings. Plate 2 shows the layout of the buildings. The buildings were used for the manufacture of steel drums and pails, and they include warehouses, machine and electric shops, a paint and oil storage building, and an office building. The warehouses and shops are constructed of corrugated steel with steel framing. The storage building is cinderblock, and the office building appears to be a wood-frame stucco/masonry building. The manufacturing buildings have concrete flooring, the space between the two buildings is paved, and an open lot exists southeast of the warehouse (Building 2). The attached Table 1 lists the buildings and describes items noted in our walkthrough. We saw no evidence, either visual or in historic documents, that indicates there are underground storage tanks at the site.

PROPERTY HISTORY

In 1924, the property was owned by Pietro and Antonio Vallerga and Basilo Casagrande. There were no recorded improvements to buildings on the property, and according to the City Historian of Alameda, the property was probably used for farming. Dwellings occupied the residential areas to the southeast, southwest, and northwest (Reference: City of Alameda Assessor's Blocks, Book 2, 1924).

In 1934 or 1935, the property was acquired by J. O. Boyle, a manufacturer of steel products. (His firm had offices at 1918 Park Street since at least 1930.) The first recorded building permit for the property was issued by the City of Alameda on May 1, 1941; however, it is possible that some buildings were constructed in 1934 or 1935, as the Alameda County Register lists J. O. Boyle Manufacturing as having a warehouse at this site.

U. S. Steel apparently acquired Boyle Manufacturing in 1948, as indicated in the 1948 telephone directory listing, U. S. Steel - Boyle Manufacturing Division. In approximately 1983, U. S. Steel sold the property to Container Products, Inc., a Japanese firm. It is unknown whether manufacturing took place during this time. We were unsuccessful in efforts to contact the current property owners.

For the past year, Winner Ford has leased the property for storage of new cars.

AERIAL PHOTOGRAPH REVIEW

We reviewed aerial photographs on file at Pacific Areal Surveys for the years 1947, 1950, 1953, 1957, 1968, 1969, 1971, 1979, 1981, and 1983. We noted the following:

 1947: Buildings 1 through 5 and 8 were present; area between warehouses (Buildings 1 and 2) may not be paved; vacant lot used for farming. Mr. Robert Thompson August 27, 1987 17206,009.04 Page 3

- 1950: The electric shop was present (Building 6); drums located in areas between Building 3 (paint and oil) and Building 6 and in the area of Building 7, the future transformer building; area between buildings may not be paved; vacant lot used for farming.
- 1953: No changes or items of significance noted.
- 1957: No changes or items of significance noted.
- 1968: No changes or items of significance noted.
- 1969: Vacant lot not being farmed.
- 1971: No changes or items of significance noted.
- 1979: Drums noted in vacant lot.
- 1981: Drums noted in vacant lot.
- 1983: Drums noted in vacant lot, quantity less than in previous years.

The attached building permit record provides additional information on the development of the site.

ON-SITE OPERATIONS

According to the U. S. Steel Realty Division, U. S. Steel manufactured steel drums and pails by rolling, forming, and finishing raw steel sheets. Machines for forming the tops and bottoms of the drums and pails and welding them to the drum cylinder were probably located at the site. The drums and pails were then cleaned and painted. The only heavy machinery still on site is a large crane in the manufacturing building (Building 1). Signs observed and manufacturing literature obtained during the site walkthrough indicates that chemicals used in the manufacture of these drums and pails include:

- 1. Oils used in cutting
- 2. Alkaline solutions used to clean the metals
- Zinc phosphates used to form a corrosion-resistant surface to which the paint can bond
- · 4. Phenolic resins, epoxies, and vinyls used to line the drums
 - 5. Butyl acetate, methyl ethyl ketone, ethyl, and/or butyl alcohols used to thin the lining solutions

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Mr. Robert Thompson August 27, 1987 17206,009.04 Page 4

- 6. Resin solutions containing styrenes, vinyl toluene, and acrylate monomers used for coating the drums
- 7. Miscellaneous paints and varnishes.

The paints and lining materials were known to be pigmented, and pigments commonly contain heavy metals such as lead, zinc, copper, and chromium.

Additional chemicals or materials that may be present on site include: polychlorinated biphenyls (PCBs) in transformers and electrical systems and asbestos in piping insulation, wallboard, and ceiling tiles. It is highly unlikely that asbestos-containing materials are present in the warehouse buildings, considering that the construction material is corrugated steel. It is possible that asbestos-containing materials are present in the office building but we were unable to obtain access into the building.

ADJACENT INDUSTRIAL PROPERTY USAGE

The only adjacent property used for industrial activities is to the northeast, across Clement Avenue. This property has been zoned for industrial since the early 1900s. Dow Pump and Diesel Engine Company (1917 to approximately 1937) and Pacific Coast Engineering Company (Paceco, 1941 to 1975) were the primary users/owners of this property. Paceco was noted for design engineering, heavy steel plate manufacturing, and construction. Companies currently operating on this site are shown on Plate 1. It is evident that site use has continued in this same area of metals design and manufacturing. It appears that the adjacent industries use/used hazardous chemicals similar to those formerly used at the subject property.

CONVERSATIONS WITH REGULATORY AGENCIES

We contacted the City of Alameda, the County of Alameda Department of Environmental Health, the Department of Health Services, and Cal OSHA. They had no records or knowledge of complaints, past chemical releases, or information pertaining to past releases.

Attached is a letter from the County of Alameda Hazardous Materials Division that states that an inspection by the county revealed no contamination within 2000 feet of this site.

We reviewed the Regional Water Quality Control Board files and found no files regarding the subject property or adjacent properties.

CONCLUSIONS

Based on the results of our investigation, it appears there are no documented releases of hazardous material from the site or adjacent sites. Our

Mr. Robert Thompson August 27, 1987 17206,009.04 Page 5

study did determine that hazardous materials, including heavy metals, paints, thinners, resins, alkaline solutions, and organic solvents, among others, were probably used on-site during steel drum and pail manufacturing. The impact of any possible release of the hazardous materials identified from past operations is not known.

LIMITATIONS

This report was prepared in general accordance with the accepted standard of practice which exists in Northern California at the time this investigation was performed. It should be emphasized that the statements herein are made with no specific knowledge of subsurface conditions. More extensive investigations, including a subsurface investigation and chemical testing, could reduce some of the inherent uncertainties associated with this type of investigation.

We have prepared this report for your exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made.

Yours very truly,

HARDING LAWSON ASSOCIATES

Diane L. Sarmiento

Project Engineer

Keith Bergman

Civil Engineer

DLS/KB/MS/sjp

Attachments: Plate 1 - Zoning and Adjecent Property Use

Plate 2 - Site Plan

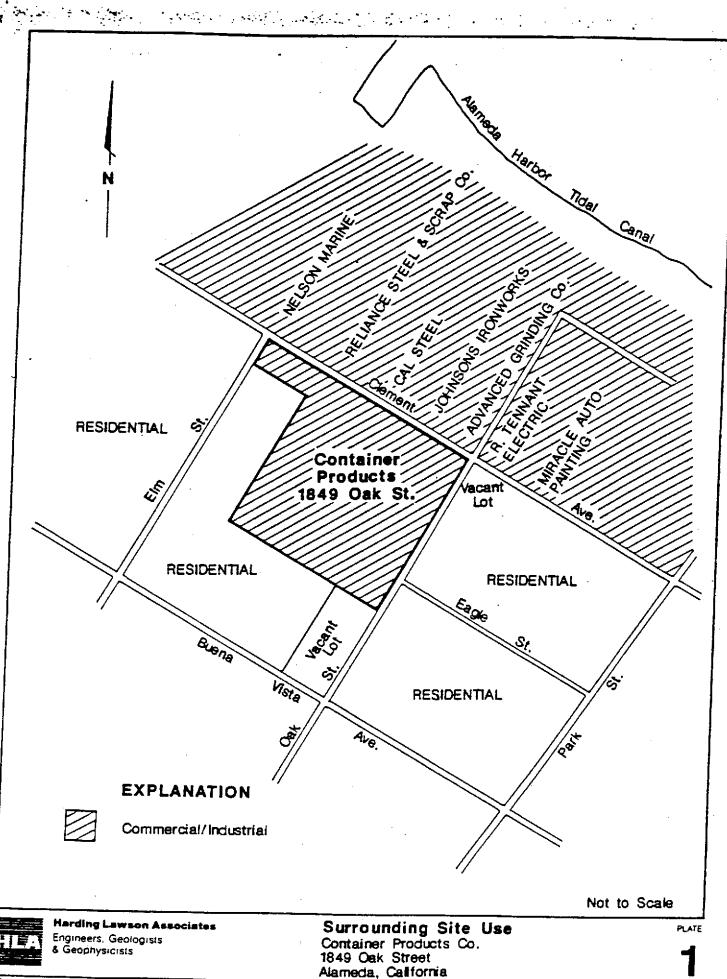
Table 1 - Description of Main Buildings

Record of Building Permits

Letter from County of Alameda Hazardous Materials Division

3/31/89

cc: Mr. Tim Noakes



DRAWN RS

JOB NUMBER 17206,009.04

APPROVED 7265

DATE 8/87

REVISED

DATE

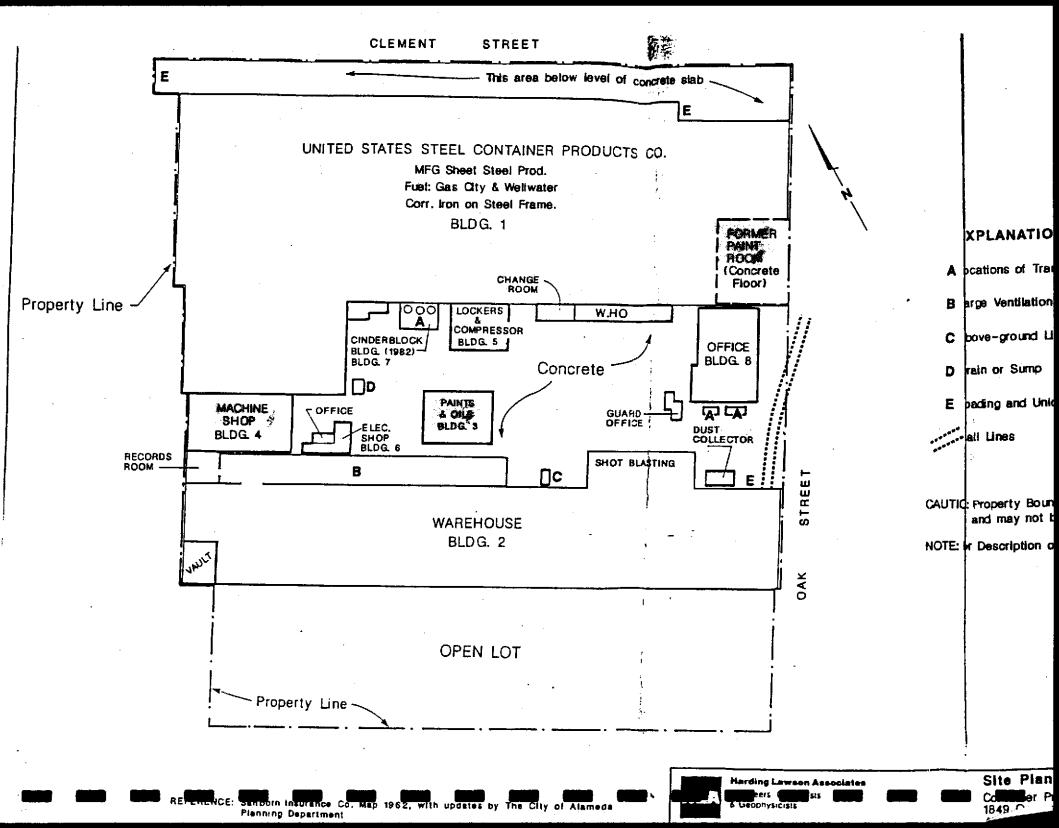


Table l Description of Main Buildings and Items Noted during Walkthrough (Refer to Plate 2 for Locations)

Building	Description
1	Main Manufacturing Building (ore-1947) construction of steel-frame with corrugated sheet metal walls and roof, concrete slab floor. - Unloading dock and rail system below floor level Large movable ceiling crane - Numerous piping systems beneath floor - Above-ground steel air compressor tanks - Restrooms with associated sewage pipes; one cleanout open - "Flammable" signs at various locations - Posted permit to operate air pressure tanks (issued by Dept. Health Services)
2	<pre>Warehouse (pre-1947; 1941?), steel-frame with corrugated sheet metal walls and roof, cancrete floor; - Portion of building apparently used for painting (large ventilation fans, sink) - Adjoining records room - "No Smoking," "Flammable Liquid" signs - Conveyor belt in main warehouse - Acetylene cylinder - Above-ground liquid propane tank - Shot blasting area</pre>
3	Paint and oil storage building, pre-1947*(1942?), cinder-block construction, concrete floor - "Flammable Liquid," "Resin Solution" signs
4	Machine shop, pre-1947, steel-frame, corrugated steel walls and roof
5	Lockers and compressor building, pre-1947, cinder-block construction - Remains of compressor system (?)
6	Electric shop and office, 1947-1950 corrugated steel construction, small - Storage of electrical parts
7	Transformer building, 1982, concrete-block building containing electrical circuits with capacitors
8	Office building, pre-1941, wood-frame, stucco masonry, two-story

3320	office bldg.		Bldr
DATE		COST	PERMIT NO. PEMARKS
4-18-41	addition	1,200.00	∳ 263
11-13-57	addition to office		
3_17_60	building —_Alter_for_loung	e4800	<u> 349 Plan 624 – </u>
	toilet rooms, loc		
3-28-67	Sample Test Room	4,287.	413 " 48A U.S. Steel Prod
12-5-72	Remodel locker	room\$7,000.	1106 " 141 "
7-25- 73	Loading Dock	\$6,000 <u>.</u>	#654 Plan 63A
10-13-76	construct concr	e ^{te} \$13,000	#843 #38A Owner: U.S.Stee
	storage racks		
	•		
-			
			
OAL ST.	1849		Owner- Boyle Mfg. Co.
6-1-41	warehouse	50,000.00	Owner- Boyle Mfg. Co. Bldr Same
The state of the s		50.000.00 COST	Bldr Same PERMIT NO. REMARKS
6-1-41	warehouse	COST	PERMIT NO. REMARKS
5-1-41 DATE	warehouse JOB	COST 15,736. 7,000.	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A
8-1-41 DATE 2-26-48 1-15-52 2-19-58	warehouse JOB Addition to warehouse Alterations Reroofing	COST 15.736. 7.000. 485.	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A
5-1-41 DATE 2-26-18 1-15-52 2-19-58 11-28-61	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors	COST 15,736. 7,∞0. 485. 5,000.	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A 100 1675 Plan att. to permit
8-1-41 DATE 2-26-48 1-15-52 2-19-58	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors	COST 15.736. 7.000. 485. 5,000. 1,298.00	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A 100 1675 Plan att. to permit 76
5-1-41 DATE 2-26-48 1-15-52 2-19-58 11-28-61 1-8-62	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors	COST 15.736. 7.000. 1485. 5,000. 1,298.00	PERMIT NO. REMARKS 198 Plan #84 71 Plan #34 100 1675 Plan att. to permit 76 181 Plan 304 U.S,Steel Products
5-1-41 DATE 2-26-18 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover	COST 15,736. 7,000. 1,85. 5,000. 1,298.00	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A 100 1675 Plan att. to permit 76
5-1-41 DATE 2-26-48 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover Block wault	COST 15,736. 7,000. 1,85. 5,000. 1,298.00 5,164. \$ 2,500.	PERMIT NO. REMARKS 198 Plan #8A 71 Plan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products
5-1-41 DATE 2-26-48 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover	COST 15.736. 7.000. 1485. 5,000. 1,298.00 5,164. \$ 2,500.	PERMIT NO. REMARKS 198 Plan #8A 71 Plan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products 1105 Plan #144A 1021 Plan 143A PS
5-1-41 DATE 2-26-48 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67 8-20-68	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover Block vault addition to rear of office bldg	COST 15,736. 7,000. 1,85. 5,000. 1,298.00 5,164. \$ 2,500. 1400.	PERMIT NO. REMARKS 198 Plan #8A 71 Flan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products 1105 Plan #144A
8-1-41 DATE 2-26-18 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67 8-20-68	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover Block vault addition to rear of office bldg Improve loading do	COST 15,736. 7,000. 1,85. 5,000. 1,298.00 5,164. \$ 2,500. 1400. 3.	PERMIT NO. REMARKS 198 Plan #8A 71 Plan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products 1105 Plan #144A 1021 Plan 143A PS 264
8-1-41 DATE 2-26-18 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67 8-20-68 3-28-73 3-15-78	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover Block vault addition to rear of office bldg Improve loading do new truck loading new pavement	COST 15,736. 7,000. 1,85. 5,000. 1,298.00 5,164. \$ 2,500. 1400. 3. 6ck \$9,984.00 dock \$79,000.0	Bldr Same PERMIT NO. REMARKS 198 Plan #8A 71 Plan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products 1105 Plan #144A 1021 Plan 143 A PS 264
8-1-41 DATE 2-26-18 1-15-52 2-19-58 11-28-61 1-8-62 2-18-66 8-17-67 8-20-68 3-28-73 3-15-78	Warehouse JOB Addition to warehouse Alterations Reroofing Two truck doors Reroofing Steel Dock Cover Block vault addition to rear of office bldg Improve loading do new truck loading new pavement	COST 15,736. 7,000. 1,85. 5,000. 1,298.00 5,164. \$ 2,500. 1400. 3. 6ck \$9,984.00 dock \$79,000.0	PERMIT NO. REMARKS 198 Plan #8A 71 Plan #3A 100 1675 Plan att. to permit 76 181 Plan 30A U.S,Steel Products 1105 Plan #144A 1021 Plan 143A PS 264

3-3-75

Replace crane \$3,000.00

بإجماء إيمان حجء

STREET, 184		A # 000 00	Owner-	rmit No. 23 Boyle Mfg. C Victor E. Si	o.
-5-42	Paint Shop	\$3,000.00			<u>.600 - " - " - " - " - " - " - " - " - " -</u>
DATE	· JOB	COST	PERMIT_NO.		 - · · · · · · ·
12-10-62	roof	4,361	#1833	X-Y-XY-Y-XVEV	ZVX ZXXXI
EATATREAT	Abelbelbelbelbelbelbelbelbe			KATATIK ITALIA	
-4-73	Reroofing (Paint Storage Bldg	\$760.00 g.}	397	U.S.Steel	Product
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239

*** SITY of A L.A h E.D. Property Inquiry File 07/29/87

Permit Address: 1949 DAK ST

PERMIT/#	ISSUE DATE	FINAL DATE	CONTRACTOR	JGB		AF -
P-32-0374 5P-24-0186	06/10/82 03/15/84	•	R. HARDIN ARROW SIGN	CONCRETE	BUILDING	

NO COMPLAINTS HAVE BEEN FILED AGAINST THIS ADDRESS

Mr. Robert Thompson

General Condition	The attached General Conditions to Service Ac	greement are incorporated into and made a part of this Service Agreemen
Contract Document	The following documents further describe the sci	ope and conditions of HLA's services:
	Confirmation Agreement dated Schedule of Charges	August 5, 1987
		provisions of this Service Agreement (together with the attached General intract documents, the provisions of this Service Agreement and General
	CORDINORS Shall control.	
Limitation of Liability	Initial one of the following: Client agrees to the limitation of professional liability	ty described in the attached General Conditions.
	Client requests warver of limitation of professional additional consideration of 4% of the total fee.	liability described in the attached General Conditions and agrees to pay the
Pee .	HLA agrees to provide services covered by this Agrestimate that our fee will be	reement on a time-and-expense basis. We approximately \$2,300.
	This fee quotation is effective provided that HLA rethis proposal.	oceives Client's authorization to proceed within 30 days of the date of
	ment should be revised, an additional Service Agri	ns encountered indicate that the scope of services covered by this Agree- element or a written addendum to this Agreement shall be entered into to thorize a revision in the scope of services without a revision to this agree- tily performed.
uthorized	HLA	Client
-	By Donald Rangers	Ву:
<u> </u>	ide: Associate	Tide:
ğ	Date: August 5, 1987	Date:



REVIEW OF HAZARDOUS WASTE MANAGEMENT PROCEDURES

Winner Ford

EPA I.D. No.: CAD982329690 Date: October 28th. 1992

The primary objective of this review is to examine and evaluate the compliance status of Winner Ford's management of its various hazardous waste streams. The secondary objective of this review is to provide the dealership with an overview of California Hazardous Waste Regulations so that they have an understanding of why certain procedures are necessary in achieving compliance.

At Winner Ford the following hazardous wastes were identified:

- Waste Motor Oil
- Waste Oil Filters
- Spent Parts Cleaning Solvent
- Waste Carburetor Cleaner
- Spent Lead Acid Batteries
- Sump Sludge
- Waste Antifreeze
- Ashestos Residue
- Drain Oil: Using an exception procedure, the generator can avoid manifesting this waste if a properly completed receipt is obtained from a licensed hazardous waste hauler. 1. Management advises that Winner Ford makes use of this alternative to manifesting. A review of a receipt provided by management during the site visit revealed that the receipt was properly filled out by a licensed hauler, Artesian Oil Recovery of Oakland, California. If a properly completed receipt is obtained for each service and each receipt is retained for a minimum of three years as a record, the dealership will be properly managing this waste. Management should refer to the Waste Minimization Program that has been developed for Winner Ford this year by KPA. This program outlines ways to significantly reduce the amount paid to their waste oil (and other hazardous waste) hauler.
- Used Oil Filters: Used oil filters can be manifested off-site as a hazardous waste. To avoid doing so, however, the facility need only follow the storage and disposal 2. requirements outlined in section 66828 Chapter 30, Division 4, of Title 22 of the California Code of Regulations. In summary, this section allows recycling of the used oil filters under the following provisions:
 - The filters are drained of free-flowing used oil. 1.
 - The drained used oil filters are transferred for the purposes of metal reclamation. 2.
 - The drained used oil filters are accumulated, stored, and transferred in a closed, rainproof container that is capable of containing any used oil that may separate from the filters placed inside. Containers shall be labeled as "drained used oil filters" (not as hazardous waste) and show initial date of accumulation and receipt.
 - Storage of less than one ton of used oil filters shall be limited to one year. Storage 4. of one ton or more used oil filters is limited to 90 days.
 - Persons generating, transporting, or receiving used oil filters shall use a bill of lading to record the transfer of used oil filters. Bills of lading must indicate 5.

of wastes and could result in an entire load of waste oil being deemed a mixed waste and therefore necessitating manifested disposal at considerable cost.

An alternative to the current system is to check with Safety-Kleen or other supplier to see if they provide small, portable brake-washing units similar in design to parts washers. These units prevent most brake residue from becoming airborne and represent a safe, acceptable method of storage and disposal of this possibly hazardous material as the used solvent is collected and transported by the supplier to a recycling facility.

Executive Summary:

Except for a minor deficiency identified with the documentation of spent lead acid batteries, Winner Ford is in substantial compliance with all local, state and federal regulations with regard to the management of their various hazardous waste streams.

There is no indication that any underground storage tanks (UST) or subsurface structures have ever existed at this site and the current occupants of the site have not installed or have ever operated any such subsurface structures at the Oak Street location. Because there are no UST's being used by Winner Ford at this location, current regulations regarding the operation of underground tanks need not be followed. This evaluation, however, does not confirm the presence of actual subsurface structures at the site. Locations of subsurface structures could only be found be having a qualified contractor conduct a magnetometer test of the site. Due to past uses of the facility, KPA does not feel that such testing is warranted.

This hazardous material management review is performed by KPA annually and it is the responsibility of Winner Ford management to maintain their compliance status on an ongoing basis. Any questions regarding the evaluations contained within this document can be directed to Mr. Kevin Skarritt at (800) 486-0400.

Kevin Lane Skarritt

Environmental Engineer,

Kip Prahl Associates



September 16, 1987

17206,009,04

Oak Street Investors c/o Lilja Industrial Construction Corp. 22 Beta Court San Ramon. California 94583

Attention: Mr. Robert Lilja, Partner

Dear Mr. Lilja:

Proposal Sampling and Analysis 1849 Oak Street Alameda, California

Harding Lawson Associates (HLA) is pleased to present this proposal to perform a water and soil sampling and chemical analysis at 1849 Oak Street in Alameda, California. We have developed the following scope of services on the basis of our walk-through on September 15, 1987 and your subsequent discussion with Mr. Michael Siembiedo of our Novato office:

- 1. Obtain soil and water samples from the following three areas: A) the unpayed area in the southeast corner of the site; B) the unpayed area in the southwest corner of the site near the laboratory sump and behind the loading docks; and C) the sump/storm drain in the center of the site near the paint mixing building.
- 2. Submit three samples for analysis of volatile organics (EPA test methods 8240 Soil, 624 Water, and 17 Metals [CAM 17]). Samples from Areas A and B are expected to be soil samples. The sample from Area C will be water/sludge. The soil samples will be composites of three to four samples from each area. If possible, we will hand auger to the ground water and obtain two water samples in lieu of the two soil samples.
- 3. Prepare a letter report describing field procedures and sample locations and presenting results of laboratory testing. We will not make any conclusions or recommendations.

Oak Street Investors c/o Lilja Industrial Construction Corp. September 16, 1987 17206,009.04 Page 2

Our estimated fee is \$3700 as outlined below:

HLA field technician \$ 500
Equipment and truck 100
Laboratory analysis* 1,800

(Normal turneround -10 working days) Letter report and

Consultation 1,300 TOTAL \$3,700

* For 3-Day turnaround - increase cost by \$900

We plan to obtain and submit the samples for analysis on Thursday, September 17, 1987; therefore, laboratory results can be verbally transmitted to you ten working days from this date, October 1, 1987. Our letter report will follow within approximately one week.

Attached are our Service Agreement, General Conditions, and Schedule of Charges. If you are in agreement with the proposed scope of work, please sign the attached Service Agreement and return one copy as our notice to proceed.

If you have any questions, please call.

Yours very truly,

HARDING LAWSON ASSOCIATES

Diane L. Sarmiento Project Engineer

Donald E. Bruggers Civil Engineer

DLS/DEB/n1h

Attachments: Service Agreement

General Conditions Schedule of Charges

Harring Lawren Associates



General Conditions

Involve

Harding Lawson Associates (HLA) will submit progress invoices to Client at least as frequently as monthly and a final bill upon completion of the services. Each invoice is due on presentation and is past-due thirty (30) days from invoice date. Client agrees to pay a finance charge equal to the maximum rate allowed by law on past-due accounts.

Semples

All samples of soil and rock will be discarded sixty (80) days after report submittal. Upon Clients authorization, samples will be either delivered in accordance with Clients instructions or stored for an agreed charge.

Flightof-Entry

Client will furnish right-of-entry for HLA to make bonngs surveys and/or explorations. HLA will operate with reasonable care to minimize damage to property. However, some damage frequently is unavoidable and the cost of repairing such damage is not included in the fee unless otherwise stated.

Utilities

Client shall be responsible for designating the location of all utility lines and aubterranean structures within the property lines of the Project. HLA will request responsible utilities to locate off-site utility lines when necessary. Client agrees to hold HLA harmless for damage to utilities or subterranean structures which are not correctly located by Client.

Workers' Compensation Insurance

HLA is protected by Workers' Compensation insurance as required by applicable state law.

Professional Liebility Insurance and Limitation

HLA's liability for damages due to professional negligence will be limited to an amount not to exceed \$50,000 or the fee, whichever is greater. In the event that Client does not wish to limit HLA's professional liability to this sum, HLA agrees to weive this limitation upon written notice from Client and Payment by Client of an additional consideration of 4% of the total fee.

General Liebility Insurance and Limitation

HLA is covered by general flability insurance for bodily injury and properly damage arising directly from its negligent acts or omissions, with limits which HLA considers reasonable. Cartificates of insurance shall be provided to Client upon request in writing. Within the limits and conditions of such insurance, HLA agrees to indemnify and save Client harmless from any loss, damage or liability ansing directly from any negligent act or omission by HLA. HLA shall not be responsible for any loss, damage or liability beyond the amounts, limits and conditions of such insurance. HLA shall not be responsible for any loss, damage or liability arising from any act or omission by Client, its agents, staff, other consultants, independent contractors, third parties or others working on the project over which HLA has no supervision or control.

Standard of Care and Warranty

Services performed by HLA under this agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied, is made. HLA's interpretations and recommendations will be based on the results of test borings, surveys or other investigative work. The Client recognizes that subsurface conditions elsewhere in the work area may differ from those at the exploration locations, and that conditions may change over time. HLA will not be responsible for the interpretation or use by others of data developed by HLA.

Job Site

Client agrees that in accordance with generally accepted construction practices, the construction contractor will be required by Client to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of persons and property. Client further agrees to defend, indemnify and hold HLA harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting flability arising directly from the negligence of HLA.

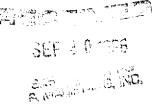
Termination: This Agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure of performance by the other party or if the Client suspends the work for more than three months. In the event of termination, HLA, shall be paid for services performed prior to the termination notice date plus reasonable termination expenses, including the cost of completing analyses, records and reports necessary to document job status at the time of termination.

Notices Communications from the Client shall be to HLA's designated project manager or to the Principal-in-Charge of the HLA office performing the work. Verbal communications shall be confirmed in writing.

If a dispute arises relating to the performance of the services covered by this agreement, and legal or other costs are incurred, it is agreed that the preveiling party shall be entitled to recover all reasonable costs incurred in the defense of the claim, including staff time at current billing rates, court costs, attorney's less, and other claim-related expenses.

Entire
These General Conditions shall be used in combination with a Service Agreement, a proposal or a contract. These combined documents shall be the entire agreement and shall supersede any other agreement between Client and HLA relating to the subject matter. In case of conflict or inconsistency between these General Conditions and any other contract documents, these General Conditions shall control.

Harding Lawson Associates



Section Street



October 14, 1987

17206,009.04

. Oak Street Investors c/o Lilja Industrial Construction Corporation 22 Beta Court San Ramon, California 94583

Attention: Mr. Robert Lilja, Partner

Gentlemen:

Test Results 1849 Oak Street Alameda, California

This letter presents the results of chemical tests on three water samples from the property at 1849 Oak Street in Alameda, California. The work was performed in accordance with our proposal and signed Service Agreement dated September 16 and 17, respectively. Our scope of services consisted of:

- 1. Obtaining three water samples from three different areas of the site
- 2. Submitting the samples for analysis of volatile organics (EPA test method 624) and 17 metals (EPA Test Method Series 7000)
- 3. Preparing this letter describing our sampling procedures and presenting the results of chemical analysis.

SAMPLING LOCATIONS AND PROCEDURES

On September 15, 1987, we met with you and walked the property at 1849 Oak Street. You requested that soil and/or water samples be retrieved for analytical testing at the three locations described below and shown on Plate 1:

- The unpaved area in the southeast corner of the site (Sample and Location 1A)
- The unpaved area in the southwest corner of the site near the laboratory sump (Sample and Location 2A)
- 3. The sump/storm drain in the center of the site near the paint mixing building (Sample and Location 3A).

Oak Street Investors c/o Lilja Industrial Construction Corporation October 14, 1987 17206,009.04 Page 2

On September 17, 1987, our field geologist collected three water samples from the locations shown on Plate 1. For Samples 1A and 2A, we hand-augered holes extending approximately 3 feet into the ground water to a total depth of 11 to 12 feet below the ground surface, respectively. We logged these two borings and periodically surveyed the soil for organic vapors using an HNU-101 instrument. No soil samples were obtained. Water Sample 3A was obtained directly from the storm drain. The water samples were collected using a clean stainless steel bailer and decanting the water into a sterilized, 1-liter, brown, glass bottle and two volatile organic analysis bottles (VOA's); care was taken to ensure that no headspace remained.

The bailer, hand auger, and steel tape were decontaminated prior to obtaining each sample. The samples were placed on ice and immediately delivered under chain-of-custody to Med-Tox Laboratories in Pleasant Hill, California. Upon delivery, Med-Tox acidified the water samples for metals analysis with nitric acid.

SUBSURFACE CONDITIONS

In Boring 1A, we encountered 4.5 feet of silty sand underlain by 2.5 feet of clayey sand, underlain by silty sand to the bottom of the boring, ll feet below grade. In Boring 2A, we again encountered 4.5 feet of silty sand; however, the underlying clayey sand extended to the bottom of the boring, 12 feet below grade. At the time of our investigation, ground water was encountered at depths of approximately 8 feet below grade in Boring 1A and 9 feet below grade in Boring 2A.

No odors were noted in the soil from the borings. Our organic vapor readings were essentially zero, and we observed no textural or color variations sometimes associated with soil contamination.

The logs of our Borings 1A and 2A are presented on Plate 2 and a description of our soil classification is presented in Plate 3.

SAMPLING ANALYSIS AND RESULTS

Med-Tox analyzed the water sample for purgeable organics (EPA Test Method 624) and 17 metals (EPA Test Method 7000 series). For all three samples, the concentrations of the 17 metals were below the Soluble Threshold Limit Concentration (STLC) and many of the concentrations were below detection limits. The results of EPA test method 624 indicate that purgeable organics were nondetected in ground-water Samples 1A and 2A. Four organic constituents were detected in Sample 3A. Three of these organics, ethyl

Oak Street Investors c/o Lilja Industrial Construction Corporation October 14, 1987 17206,009.04 Page 3

benzene, toluene, and xylene, are commonly found in gasoline. The source of these organics is unknown, but since the drain collects surface runoff from a paved area, it is possible that gasoline or oil on the pavement has washed into the drain. The laboratory results are attached.

LIMITATIONS

This sampling and the results of the chemical analyses are not intended to fully characterize the site. They may not be representative of water or soil at other locations on the site. If additional information related to soil or ground water conditions at the site becomes available, we should be contacted for further consultation.

If you have any questions, please call.

Yours very truly,

HARDING LAWSON ASSOCIATES

Diane L. Sarmiento Project Engineer

Dorahi E Buggus

Donald E. Bruggers Civil Engineer

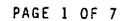
DLS/MLS/DEB/sjp

Attachments: Plate 1 - Site Plan

Plate 2 - Log of Borings 1A and 2A

Plate 3 - Soil Classification Chart and Key to Test Data

Laboratory Results





OCCUPATIONAL & ENVIRONMENTAL HEALTH SERVICES

3440 Vincent Road • Pleasant Hill, CA 94523 • (415) 930-9090

LABORATORY ANALYSIS REPORT

HARDING LAWSON ASSOCIATES

666 HOWARD STREET SAN FRANCISCO, CA 94105

ATTN: DIANE SARMIENTO

MED-TOX JOB NO: 8709056

PURCHASE ORDER NO: 17205-009-04 REPORT DATE: 09/30/87

DATE RECEIVED: 09/17/87

DATE ANALYZED: 09/30/87

DATE SAMPLED: 09/17/87

ANALYSIS OF: THREE WATER SAMPLES FOR PURGEABLE ORGANIC COMPOUNDS AND CAM 17 METALS.

See attached for results.

Ja⁄ck Sheets

Inorganic Group Leader

LR26-P30

Results faxed to Diane Sarmiento 10/01/87.



PAGE 2 OF 7

HARDING LAWSON ASSOCIATES

CLIENT ID: 1A

CLIENT JOB NO.: 17206-009-04

MED-TOX LAB NO .: 8709056-01A

MED-TOX JOB NO .: 8709056

DATE SAMPLED:

09/17/87

DATE ANALYZED: 09/30/87

DATE RECEIVED: 09/17/87

REPORT DATE:

09/30/87

EPA METHOD 624

PURGEABLE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	· ND	10
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	· ND	5 5 5
Bromoform	75-25-2	ND	
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	10
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10 10
2-Chloroethyl Vinyl Ether	110-75-8	ND	5
Chloroform	67-66-3	ND ND	10
Chloromethane	74-87-3	DN DN	5
Dibromochloromethane	124-48-1	DO	5
1,1-Dichloroethane	75-34 - 3	ND ND	555555555
1,2-Dichloroethane	107-06 - 2 75-35-4	ND	5
1,1-Dichloroethene	156-60-5	ND	5
trans-1,2-Dichloroethene	78-87-5	ND	5
1,2-Dichloropropane	10061-01-5	ND	5
cis-1,3-Dichloropropene trans-1,3-Dichloropropene	10061-01-5	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	10
Methylene Chloride	75-09-2	ND	5
4-Methyl-2-pentanone	108-10-1	ND	10
Styrene	100-42-5	ND	10
1,1,2,2-Tetrachloroethene	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5 5 5 5 5
1,1,1-Trichloroethane	71-55-6	ND) E
1,1,2-Trichloroethane	79-00-5	ND ND	5 E
Trichloroethene	79-01-6	ND NO	10
Vinyl Chloride Xylenes, total	75-01-4 	ND ND	10



PAGE 3 OF 7

HARDING LAWSON ASSOCIATES

CLIENT ID: 2A

MED-TOX LAB NO.: 8709056-02A

CLIENT JOB NO.: 17206-009-04

MED-TOX JOB NO.: 8709056

DATE SAMPLED: 09/17/87

DATE ANALYZED: 09/30/87

DATE RECEIVED: 09/17/87

REPORT DATE: 09/30/87

EPA METHOD 624

PURGEABLE ORGANIC COMPOUNDS

	*		
COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	ND	10
Benzene	71-43-2	NO	5 5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	. 5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND NO	10
Carbon Disulfide	75-15-0	ND ND	10 5
Carbon Tetrachloride Chlorobenzene	56-23-5 108-90-7	ND ND	5 5
Chloroethane	75-00-3	סא	10
2-Chloroethyl Vinyl Ether	110-75-8	DN	10
Chloroform	67-66-3	NO	5
Chloromethane	74-87-3	DN	10
Dibromochloromethane	124-48-1	NO	
1, I-Dichloroethane	75-34-3	ND	555555555
1,2-Dichloroethane	107-06-2	סא	5
1,1-Dichloroethene	75-35-4	מא	5
trans-1,2-Dichloroethene	156-60-5	מא	5
1,2-Dichloropropane	78-87-5	ON	5
cis-1,3-Dichloropropene	10061-01-5	ON	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	
2-Hexanone	591-78-6	ND	10
Methylene Chloride	75-09-2	ND	5
4-Methyl-2-pentanone	108-10-1	ND	10
Styrene	100-42-5	ND	10
1,1,2,2-Tetrachloroethene	79-34-5	ND	5
Tetrachloroethene Toluene	127-1 8-4 108-88-3	ON ON	5
1,1,1-Trichloroethane	71-55-6	ND	5 5 5 5
1,1,2-Trichloroethane	79-00-5	ND ND	ე ნ
Trichloroethene	79-01-6	ND	5 5
Vinyl Chloride	75-01-4	ON	10
Xylenes, total	7 W - U.L - T	מא	10
nyiches, cocai		110	10

ND = Not Detected.



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HARDING LAWSON ASSOCIATES

CLIENT ID: 3A

MED-TOX LAB NO.: 8709056-03A

CLIENT JOB NO.: 17206-009-04

MED-TOX JOB NO.: 8709056

DATE SAMPLED:

09/17/87

DATE ANALYZED: 09/30/87 REPORT DATE:

DATE RECEIVED: 09/17/87

09/30/87

EPA METHOD 624.

PURGEABLE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Agatana	67-64-1	ND .	. 10
Acetone Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5 5
Bromomethane	74-83-9	ND ND	10
2-Butanone	78-93-3	ND -	10
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	- 5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	,,,,	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	555555555
1,2-Dichloroethane	107-06-2	ND .	5
1,1-Dichloroethene	75-35-4	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	40	
2-Hexanone	591-78-6	ND	10
Methylene Chloride	75-09-2	МD	5
4-Methyl-2-pentanone	108-10-1	ND	10
Styrene	100-42-5	ND	10
1,1,2,2-Tetrachloroethene	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	58	5 5 5 5 5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	
Vinyl Chloride	75-01-4	ND	10
Xylenes, total		440	10



PAGE 5 OF 7

HARDING LAWSON ASSOCIATES

CLIENT ID: 1A CLIENT JOB NO.: 17206-009-04

DATE RECEIVED: 09/17/87

MED-TOX LAB NO.: 8709056-01C MED-TOX JOB NO.: 8709056 REPORT DATE: 10/02/87

CAM-17 METALS

CODE	E METAL	CONCENTRATION (mg/L)	STLC (mg/L)	DETECTION LIMIT (mg/L)	METHOD REFERENCE
Sb	Antimony	<0.1	15	0.1	7040
As	Arsenic	0.009	5.0	0.001	7060
Ba	Barium	0.39	100	0.02	- 7080
Вe	Beryllium	<0.003	0.75	0.003	7090
Cd	Cadmium	<0.003	1.0	0.003	7130
Cr	Chromium	<0.01	560	0.01	7190
Co	Cobalt	<0.02	80	0.02	7200
Cu	Copper	<0.01	25	0.005	7210
Pb	Lead	<0.01	5.0	0.01	7420
Hg	Mercury	<0.003	0.2	0.0003	7470
Мо	Molybdenum	<0.05	350	0.05	7480
Ni	Nickel	0.02	20	0,01	7520
Se	Selenium	<0.003	1.0	0.003	7740
A g	Silver	<0.005	5.0	0.005	7760
Tl	Thallium	<0.05	7.0	0.05	7840
V	Vanadium	<0.1	24	0.1	7910
Zn	Zinc	0.004	250	0.003	7950

PAGE 6 OF 7

HARDING LAWSON ASSOCIATES

CLIENT ID: 2A CLIENT JOB NO.: 17206-009-04

DATE RECEIVED: 09/17/87

MED-TOX LAB NO.: 8709056-02C MED-TOX JOB NO.: 8709056 REPORT DATE: 09/30/87

CAM-17 METALS

CODE	METAL	CONCENTRATION (mg/L)	STLC (mg/L)	DETECTION LIMIT (mg/L)	METHOD REFERENCE
Sb sa e C C C C C P H M N i e A T V 7 n	Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc	<0.1 0.003 0.37 <0.003 <0.003 <0.002 0.01 0.01 <0.003 <0.005 0.04 <0.003 <0.005 <0.005 <0.005	15 5.0 100 0.75 1.0 560 80 25 5.0 0.2 350 20 1.0 5.0 7.0 24 250	0.1 0.001 0.02 0.003 0.01 0.02 0.005 0.01 0.0003 0.05 0.01 0.003 0.005 0.05	7040 7060 7080 7090 7130 7190 7200 7210 7420 7470 7480 7520 7740 7760 7840 7910



PAGE 7 OF 7

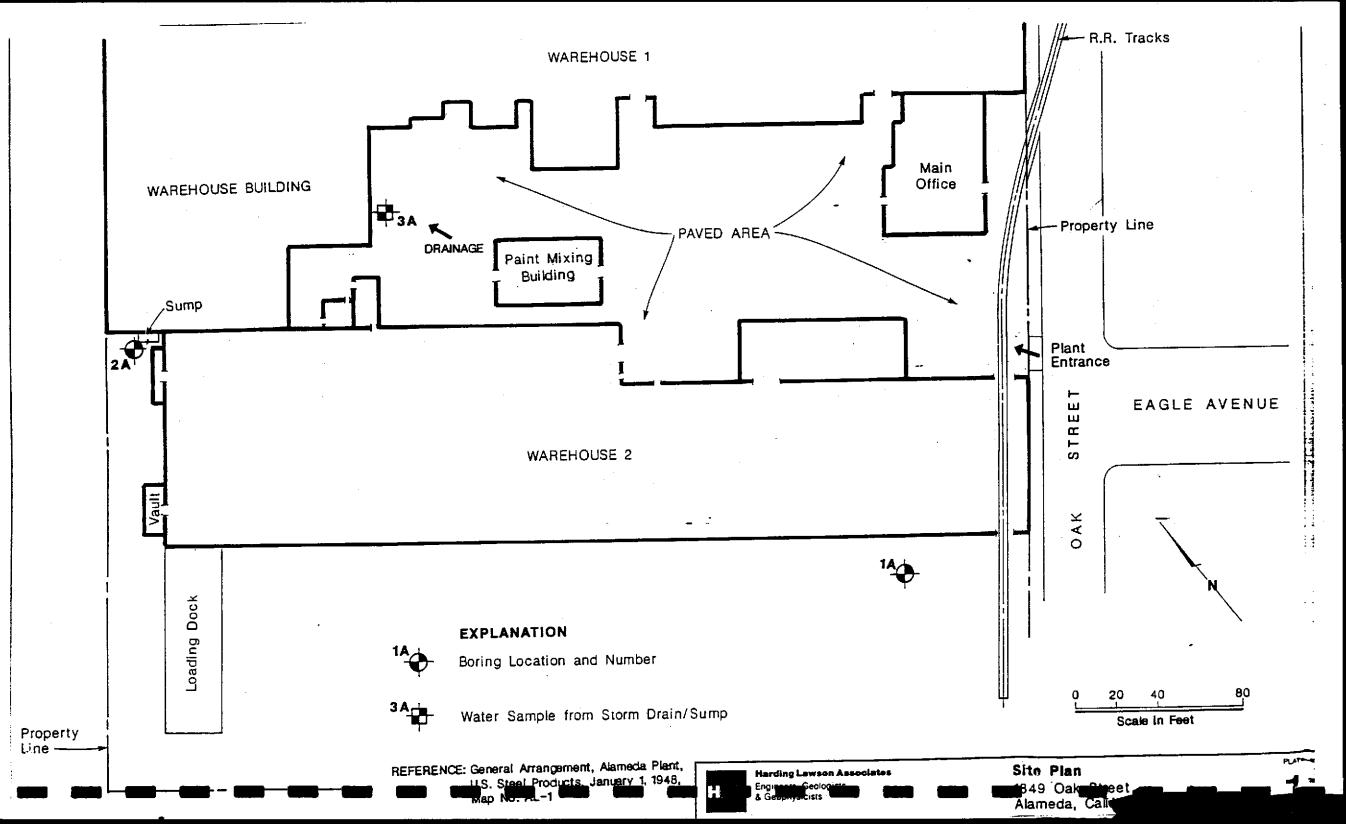
HARDING LAWSON ASSOCIATES

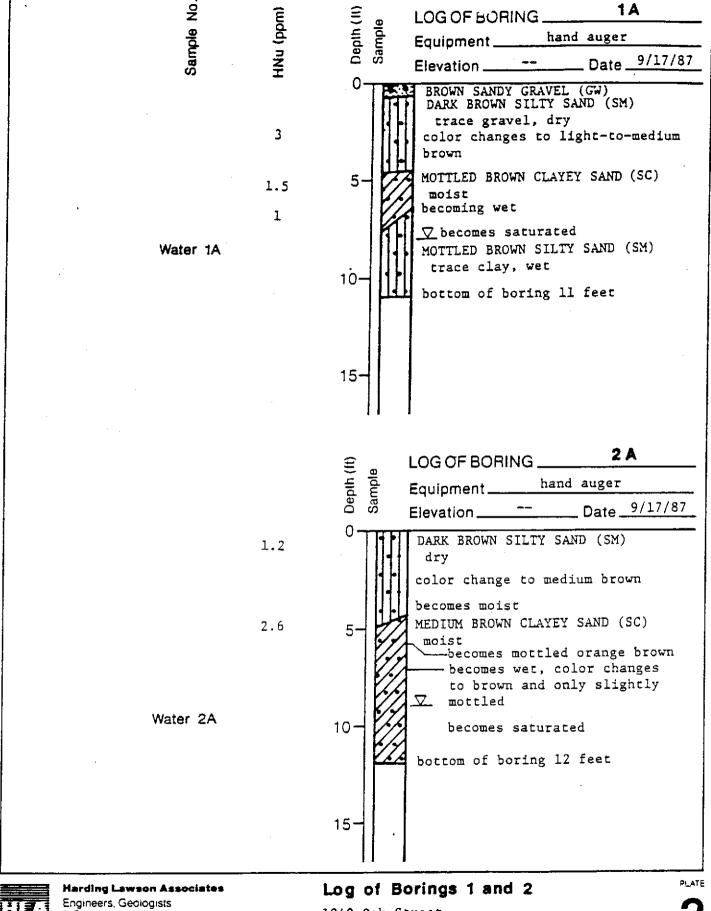
CLIENT ID: 3A CLIENT JOB NO.: 17206-009-04 DATE RECEIVED: 09/17/87

MED-TOX LAB NO.: 8709056-03C MED-TOX JOB NO.: 8709056 REPORT DATE: 10/02/87

CAM-17 METALS

CODE	METAL .	CONCENTRATION (mg/L)	STLC (mg/L)	DETECTION LIMIT (mg/L)	METHOD REFERENCE
				·	
Sb	Antimony	<0.1	_15	0.1	7040
As	Arsenic	0.013	5.0	0.001	7060
Ba	Barium	0.36	100	0.02	7080
Вe	Beryllium	<0.003	0.75	0.003	7090
Cd	Cadmium	0.004	1.0	0.003	7130
Cr	Chromium	<0.01	560	0.01	7190
Co	Cobalt	<0.02	80	0.02	7200
Сu	Copper	0.07	25	0.005	7210
Pb -	Lead	0.05	5.0	0.01	7420
Hg	Mercury	<0.003	0.2	0.0003	7470
Mo	Molybdenum	0.30	350	0.05	7480
Νi	Nickel	0.01	20	0.01	7520
Se	Selenium	<0.003	1.0	0.003	7740
	Silver	<0.005	5.0	0.005	7760
Ag T1	Thallium	<0.05	7.0	0.05	7840
Ÿ	Vanadium	<0.1	24	0.1	7840 7910
Zn	Zinc	0.68	250	0.003	7910 7950
	£ 111Q	0.00	230	0.003	1330







& Geophysicists

1849 Oak Street

Alameda, California

REVISED

DRAWN JOB NUMBER RS 17206,009.04 APPROVED 705

10/87

DATE

	MAJOR LIV	/ISIONS		Ĭ	TYPICAL NAMES
		CLEAN GRAVELS WITH	GW		WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES
S 300 SIEVE	GRAVELS	UTTLE OR NO FINES	GP	, ,	POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
COARSE - GRAINED SOILS MORE THAN HALF IS LANGER THAN NO 200	MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	GRAVELS WITH OVER	GM		SILTY GRAVELS, POORLY GRADED GRAVEL- SAND-SILT MIXTURES
AINED GER THAI		12% FINES	GC		CLAYEY GRAVELS, POORLY GRADED GRAVEL - SAND-CLAY MIXTURES
- GRAIN F IS LANGEN		CLEAN SANDS WITH	sw		WELL-GRADED SANDS, GRAVELLY SANDS
COARSE THAN HALF	SANDS	LITTLE OR NO FINES	SP		POORLY GRADED SANDS, GRAVELLY SANDS
CO	MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	SANOS WITH OVER	SM		SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
2		12% FINES	sc		CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
10.5			ML		INORGANIC SILTS AND VERY FINE SANDS. ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
NE – GRAINED SOILS MORE THAN HALF IS SMALLER THAN NO 200 SIEVE	SILTS AN LIQUID LIMIT		CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
NED ALF IS S			OL		ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
GRA THAN H			мн		INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS FINE SANDY OR SILTY SOILS. ELASTIC SILTS
FINE- MOHE	SILTS AN		сн		INORGANIC SILTS. MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS. ELASTIC SILTS
			ОН		ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
	HIGHLY ORGA	NIC SOILS	Pt		PEAT AND OTHER HIGHLY ORGANIC SOILS

UNIFIED SOIL CLASSIFICATION SYSTEM

Perm	_	Permeability	Shear Strength (psf)		Contining f		Pressure	
Consol	_	Consolidation	TxUU	3200	(2600)	_	Unconsolidated Undrained Triaxial Shear	
LL	_	Liquid Limit (%)	(FM) or (S)			(field moisture or saturated)	
PI		Plastic Index (%)	TxCU	3200	(2600)	_	Consolidated Undrained Triaxial Shear	
G_{s}	_	Specific Gravity	(P)				(with or without pore pressure measureme	
		•	TxCD	3200	(2600)		Consolidated Drained Triaxial Shear	
MA	_	Particle Size Analysis	SSCU	3200	(2600)	_	Simple Shear Consolidated Undrained	
		"Undisturbed" Sample	(P)				(with or without pore pressure measureme	
\boxtimes	_	Bulk or Classification Sample	SSCD	3200	(2600)	_	Simple Shear Consolidated Drained	
			DSCD	2700	(2000)	_	Consolidated Drained Direct Shear	
HNu		Field Instrument for	ÜC	470		_	Unconfined Compression	
		Detecting Volatile Organics	ĻVS	700		-	Laboratory Vane Shear	
opm)	_	parts per million						

KEY TO TEST DATA



Harding Lawson Associates

Engineers, Geologists & Geophysicists

Soil Classification Chart and Key to Test Data 1849 Oak Street

Alameda, California

REVISED

PLATE

DRAWN RS JOB NUMBER 17206,009.04 APPROVED Dis

DATE 10/87

CATE

APPENDIX B

UNITED HECKA CO.

CALIFORNIA

EPA ID# CAD981436363



REGION 9

CONGRESSIONAL DIST. 07

Contra Costa County Richmond

Alias: Levin Richmond/Parr Canal Site

Site Description -

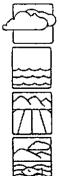
From 1948 through 1965, several companies leased the 13 1/2-acre United Heckathorn Co. site to process chemicals. These owners included Parr Industrial Corporation (1947-1961), Parr Richmond Terminal Corporation (1961-1981), and Levin-Richmond Terminal Corporation (1981-present). In the late 1940s and early 1950s, Universal Pigment and Chemical Company produced napalm on site. From 1958 to 1965, Montrose Chemical Corporation contracted with United Heckathorn, United Chemetrics, and ChemWest for pesticide-grinding services. United Heckathorn was the last company to formulate pesticides at this site. The California Department of Fish and Game has recorded several instances of chemicals being discharged into the Lauritzen Canal, including naphthenic acid in 1951 and the pesticide DDT in 1960. In 1980, the State found elevated levels of pesticides in the soil. In 1988, the EPA detected DDT in the air at numerous locations on- and off-site. The site is adjacent to the Lauritzen Canal. The canal is on the Richmond Inner Harbor, which is on the San Francisco Bay. The Harbor is used for recreational and commercial fishing and shellfish harvesting. A coastal wetland is less than 1/2 mile from the site. Approximately 10,900 people live within 1 mile of the site.

Site Responsibility: This site is being addressed through Federal, State, and potentially responsible parties' actions.

NPL LISTING HISTORY

Proposed Date: 10/26/89 Final Date: 03/14/90

Threats and Contaminants



Air contains various pesticides. Sediments in the Lauritzen Canal and soil are contaminated with pesticides and volatile organic compounds (VOCs). People who touch or accidentally ingest contaminated soil or sediments may be at risk. Contaminants in the wetlands or other bodies of water may harm wildlife in or around the water.

Cleanup Approach

This site is being addressed in a single *long-term remedial phase* focusing on cleanup of the entire site.

Response Action Status



Entire Site: The EPA is investigating the site to determine the extent of contamination and to identify the cleanup actions needed at this site.

Environmental Progress



After adding this site to the NPL, the EPA performed preliminary investigations and determined that no immediate actions were required at the United Heckathorn site while studies are taking place and cleanup activities are being planned.



RESPONSIBLE PARTY-LEAD SITE CLEANUP WORKPLAN

PORT OF OAKLAND - EMBARCADERO COVE

Site Information

Location and Type of Site
Dennison and Embarcadero Street
Oakland, CA 94606
Alameda

The site is located on Embarcadero Street at the foot of Dennison Street in Oakland. For 60 to 70 years, the 1.3 acre site was leased to industrial tenants, including oil companies and formulators of pesticides and wood preservatives. It is now a vacant lot.

Description of Hazardous Wastes

Pentachlorophenot (PCP), organochlorine pesticides and solvents have been discovered in soil and ground water at this site. About 8,000 cubic yards of soil and an unknown amount of ground water is contaminated. Dioxins and furans, impurities of PCP, have been found in low levels in soil and ground water.

Threat to Public Health and Environment

Residential, industrial, commercial, recreational and military areas are adjacent to the site. The population within a three-mile radius is estimated at 215,331 persons. PCP was not detected in shoreline sediment samples or at the box culvert outlet in the Bay at Dennison Street. The closest domestic well is about three-quarters of a mile away.

Site Status

Status of Site Activity

The final phase of remedial investigation is being conducted. Upon completion of that work, the feasibility study and RAP will be prepared.

Projected Revenue Sources

The Port of Oakland owns the site and is in compliance with an order issued by DHS. Monsanto Company has also been identified as a potentially responsible party by DHS.

DHS has budgeted \$50,000 for oversight/monitoring of cleanup efforts. DHS will recover 100 percent of direct costs plus staff costs and overhead related to the project. The responsible parties will pay all costs associated with remedial investigations and cleanup activities.

Project Completion Estimates

The estimates shown below reflect completion of major site cleanup phases based on current information regarding this site and responsible party cleanup plans and completed actions.

Task Group	Estimated Completion
Site Characterization Remedial Action Order	Completed
Remedial Investigation/ Feasibility Study	Dec. 1989
Remedial Action Plan	June 1990
Remedial Action	
Design	Dec. 1990
Implementation	June 1992
Certification	Aug. 1992
Cost Recovery and/or	
Operation and Maintenance	
Cost Recovery	Aug. 1993
Operation and Maintenance	10-15 yrs

CAL/EPA FACILITY INVENTORY DATA BASE ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501 INVENTORY ID. COMMENTS. SIC REG REG CONTACT PERSON NAME/NUMBER CODE ID ENV-ID 01-000573 ATLANTIC AVE (555) ALAMEDA 94501 UTNKA 00024317 COLLEGE OF ALAMEDA INV-ID 01-003214 UGHINBAUGH (200) ALAMEDA 94501 ALAMEDA UNIFIED SCHOOL DIST HARBOR BAY I STRMC 2 018301336 ldg.6 2155 Mariner Sqr. Loop (NO STREET NBR) Alameda 94501 FINDS CA2971523236 INV-ID 01-000265 BALLENA BLVD (1150) ALAMEDA 94501 LTNKA 3822 BALLENA ISLE MARINA UTNKA 00004320 BALLENA ISLE MARINA TNV-10 01-001986 LANDING AVE (2420) ALAMEDA 94501 DITMET ALAMEDA ELECTRIC INV-ID 01-003404 ANDING AVE (2631) ALAMEDA 94501 7216 ANNS CLEANERS AREMS 4501 ATEDS 4501 7216 ANNS CLEANERS INV-ID 01-001734 BLDG 22 COAST GUARD ISLAND (NO STREET NBR) ALAMEDA 94501 US COAST GUARD EXCHG GAS STN LTNKA 2911 INV-ID 01-002645 BLDG 459 ALAMEDA NAV (NO STREET NBR) ALAMEDA 94501 AUTOMOTIVE SERVICE CENTER UTNKA 00027316 INV-ID 01-002646 SLDG 547 ALAMEDA NAV (NO STREET NBR) ALAMEDA 94501 UTNKA 00027319 ANNEX SERVICE STATION INV-ID 01-002071 UENA VIS & SHERMAN ST (NO STREET NBR) ALAMEDA 9450 UTNKI 00000654 DEL MONTE CORP. ALAMEDA DISTRI INV-ID 01-001090 BUENA VISTA AVE (1521) ALAMEDA 94501 ENCINAL TERMINALS INV-ID 01-002733 UENA VISTA AVE (1701) ALAMEDA 94501 UTNKA 00052513 WHITMORE AUTO SERVICE ENTRAL AVE (620) ALAMEDA 94501 LTNKA FEDERAL CENTER UTNKA 00057370 FEDERAL CENTER INV-ID 01-002568 CENTRAL AVE (1310) ALAMEDA 94501 B P GIL UTNKA 00009428 INV-ID 01-000167 CENTRAL AVE (2200) ALAMEDA 9450! FINDS CADO76527324 ALAMEDA CITY UNIFIED SCH DIST UTNK1 CAD981683 HISTORIC ALAMEDA HIGH SCHOOL CENTRAL AVE (2428) ALAMEDA 94501 STAHL WOODRIDGE CONSTRUCTION I TNKA 3910 INV-ID 01-002492 CLEMENT AVE (1815) ALAMEDA 94501 UTNKA ALAMEDA MARINA INV-ID 01-002126 CLEMENT AVE (2033) ALAMEDA 94501 UTNKI 00013094 SOHIO CONSTRUCTION COMPANY INV-ID 01-003583 LEMENT AVE (2039) ALAMEDA 94501 7532 AREMS 5944 ______ INV-ID 01-003783 CLEMENT AVE (2056) ALAMEDA 94501 7532 WILLIAMS WELDING & AUTO BODY AREMS 5726 ATEDS 5726 7532 WILLIAMS WELDING & AUTO BODY INV-ID 01-003377 CLEMENT REAR AVE (2056) ALAMEDA 94501 7532 AREMS 5818 A&A UNIBODY AND FRAME INV-ID 01-002527 CLEMENT AVE (2199) ALAMEDA 94501 UTNKA 00002188 SMITH-RICE COMPANY YARD

CAL/EPA FACILITY INVENTORY DATA BASE ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501 INVENTORY ID. COMMENTS. SIC REG REG CONTACT PERSON NAME/NUMBER CODE RY 10 INV-ID 01-000561 CLEMENT AVE (2235) ALAMEDA 94501 ITNKA CLEMENT AVENUE PROJECT UTNKI 00031805 RELIANCE SHEET & STRIP COMPANY INV-ID 01-003446 EMENT AVE (2241) ALAMEDA 94501 3441 AREMS 3214 CAL-STEEL COATING CO 3441 ATEDS CAL-STEEL COATING CO INV-ID 01-003627 EMENT AVE (2307) ALAMEDA 94501 AREMS 3784 MIRACLE AUTO PAINTING LTNKA 3784 ASHLAND OIL INV-ID 01-002615 EMENT AVE (2424) ALAMEDA 94501 UTNKA 00016469 RON GODDE TOYOTA INV-ID 01-005092 LINTON AVE (2070) ALAMEDA 94501 8062 3910 ATEDS ALAMEDA HOSPITAL INV-ID 01-002491 DAST GUARD ISLAND (NO STREET NBR) ALAMEDA 94501 FINDS CA6690308758 SMO ALAMEDA UTNKA CA7690390 US COAST GUARD SUPPORT CENTER UTNKA 00054202 U.S.COAST GUARD SUPPORT CENTER EAGLE AVE (2405) ALAMEDA 94501 AREMS 6233 ALAMEDA AUTO CARE INV-ID 01-000172 AGLE AVE (2615) ALAMEDA 94501 UTNKA 00059912 A.U.S.D. MAINTENANCE YARD INV-ID 01-003390 NCINAL AVE (1916) ALAMEDA 94501 7216 AREMS 1973 ALAMEDA WASHETTE AND CLEANERS ATEDS 1973 7216 ALAMEDA WASHETTE AND CLEANERS _______ INV-ID 01-000601 ENCINAL AVE (2006) ALAMEDA 94501 7216 AREMS 4946 FOUNTAIN CLEANERS LTNKA 1662 CRYSTAL CLEANERS INV-ID 01-003700 10046 ADAMATA 160EC) BAN TANIOUS 7216 AREMS 5247 REVELATION CLEANERS 7216 ATEDS 5247 REVELATION CLEANERS INV-ID 01-001987 ENCINAL AVE (2401) ALAMEDA 94501 UTNKA 00063460 FIRE STATION #1 INV-ID 01-003600 VERETT ST (1925) ALAMEDA 94501 AREMS 3749 M & J BODY & PAINT SHOP LTNKA 3749 DAKLAND AUTO PARTS & TIRES INV-ID 01-000488 ERNSIDE BLVD (3126) ALAMEDA 94501 UTNKA 00061994 91153 INV-ID 01-002810 FORTMANN WAY (1616) ALAMEDA 94501 UTNKA 00065219 MAINTENANCE SERVICE CENTER OLF COURSE MEMORIAL RD (NO STREET NBR) ALAMEDA 94501 UTNKA 00065217 ALAMEDA GOLF COURSE INV-ID 01-004856 GRAND ST (1828) ALAMEDA 94501 FINDS CAD980884712 ALAMEDA BUR OF ELEM CENTRAL SU GRAND ST (2000) ALAMEDA 94501 UTNKI 00046259 BUREAU OF ELECTRICITY INV-ID 59-037609 GRAND ST/PO DRAWER H (2000) ALAMEDA 94501 CITY OF ALAMEDA BUR. OF ELECTRICITY INV-ID 01-002493 GRAND ST (2040) ALAMEDA 94501 UTNKA CITY OF ALAMEDA CENTRAL GARAGE INV-ID 01-000842 GRAND AVE (2099) ALAMEDA 94501 LTNKA 3820 GRAND MARINA INC

3

01/29/97 PTZIPP2

CAL/EPA FACILITY INVENTORY DATA BASE ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501	REG BY		SIC	INVENTORY ID. COMMENTS. CONTACT PERSON NAME/NUMBER
Hibbard Street (1801) Alameda 94501			- 	INV-ID 01-004923
weyerhaeuser Paper C	FINDS	CAD983567884		
ARBOR BAY PKWY (1320) ALAMEDA 94501				INV-ID 01-000056
PREPSAT		CAD983642745 CAD983642745		
PREPSAT PREPSAT	TPCE	CAD983642745	2741	JOEL BRITZ 5107486500
WIBBARD ST (1801) ALAMEDA 94501				INV-ID 01-001786
WEYERHAEUSER PAPER COMPANY		2857	2653 2653	STEVEN MINDT 5105236121
WEYERHAEUSER PAPER COMPANY		2857 		
ICKEY BLVD (110) SOUTH SAN FRANCISCO 94501 XTRA PC: CP DBA SHELL CIL	UTNK4			INV-ID 41-004843
ATRA EG, OF DOM SHEEL GIL				INV-ID 01-000:71
HIGH ST (1357) ALAMEDA 94501 ALAMEDA MAXS AUTO SERVICE	UTNKA	00040601		
*				INV-ID 01-002494
HUBBARD ST (1801) ALAMEDA 94501 WEYERHAEUSER CD	UTNKA	SID16231		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- <b>-</b>			INV-ID 01-00085
SLAND DR (883) ALAMEDA 94501 ALAMEDA RED HANGER CLEANERS	AREMS	2366	7216	
ALAMEDA RED HANGER CLEANERS		2366 CAL922333823		KUDKU ZIEHMEN LIHAGGIZƏD
RITZ CAMERA #512 RITZ CAMERA CENTER #512	TPCE	CAL922333823	7384	GENE KOBLICK 5105223992
LAKE HERMAN RD (2251) BENICIA 94501				INV-ID 48-002502
IT CORPORATION	STRMC	2 485302593		-7077450708 
INCOLN AVE (1100) ALAMEDA 94501				INV-ID 01-005004
CHEMISCO ACC HARDWARE	FINDS	CAD983629684		
LINCOLN AVE (1127) ALAMEDA 94501				BIO:00-10 DI-VNI
BAY STREET SERVICE STATION	UTNK!	00024760	<del></del> -	
LINCOLN (1208) ALAMEDA 94501			7216	INA-ID 01-00348;
DEE BEE'S ELEGANT CLEANERS  DEE BEE'S ELEGANT CLEANERS	AREMS ATEDS	5076 5076		
				INV-ID 01-002662
LINCOLN AVE (2267) ALAMEDA 94501 . Union Oil SS #5394	UTNK	00031102		
MAIN ST (2900) ALAMEDA 94501				INV-IC 01-001174
ALAMEDA GATEWAY, LTD., A CALIF	UTNK	00013270		
MARINA VILLAGE PKWY (817) ALAMEDA 94501				INV-ID 01-003608
MARTIN WILLAGE DRY CLEAN LISA	AREMS	5649	7216 7216	
MARINA VILLAGE DRY CLEAN USA				
MARINA AVE (3133) ALAMEDA 94501				[NV-10 01 002100
STATION 6				INV-ID 01-001064
MARINER SQ (2204) ALAMEDA 94501	LTNK	A 3715		
MARINER SQUARE LTD				TUIL TD 01-004867
MARINER SQ (2415) ALAMEDA 94501 DE YOUNG CHEMICAL COMPANY	FIND	S CAD981617277		
MARINER SQUARE LOOP (2420) ALAMEDA 94501			· <b></b>	INV-ID 01-000942
JOHN BEERY DRGANIZATION	LTNK	<b>A</b>		
MACCADINEY DD (3171) ALAMEDA 94501				INV-ID 01-004815
PETER PAN ACADEMY	FIND	S CADO21895453		
_OAK ST (1849) ALAMEDA 94501				INV-ID 01-001925
SKS DIE CASTING, INC.	\$199 \$199	1 12979 2 12979	336 336	HEMPHILL-GREEN/DON HEMPHI 714658011
OAK ST (1849) ALAMEDA 94501 SKS DIE CASTING, INC. SKS DIE CASTING, INC. ALAMEDA PLANT	UTNK	I 00068792		
				INV-ID 01-Q00475
OTIS DR (2340) ALAMEDA 94501 CHEVRON		A 1699		
WEBER CHEVRON		A 00062898		

BILL CHUN'S SERVICE

### CAL/EPA FACILITY INVENTORY DATA BASE ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501 INVENTORY ID, COMMENTS. SIC REG CODE CONTACT PERSON NAME/NUMBER RY T D INV-ID 01-002661 OTIS DR (2901) ALAMEDA 94501 UTNKA 00031066 INTERCEPTOR PUMP STATION C INV-ID 01-003553 ACIFIC AVE (2329) ALAMEDA 94501 APEMS 5884 7532 GOOD CHEVROLET FINDS CA0000033514 GOOD CHEVROLET PAINT SHOP INV-ID 01-002101 ARK ST (325) ALAMEDA 94501 UTNKI 00008252 GOODYEAR AUTO SVC. CENTER INV-10 01-003433 PARK ST (1222) ALAMEDA 94501 AREMS 4373 BERNARDI CLEANERS INV-ID 01-003428 ARK ST (1534) ALAMEDA 94501 7216 AREMS 5045 EELL CLEANERS INV-ID 01-000355 ARK ST (1541) ALAMEDA 94501 LTNKA 624 BP OIL/MOBIL UTNKA 00039631 BP OIL CO FACILITY #11266 INV-ID 01-003441 PARK ST (1607) ALAMEDA 94501 7216 AREMS 956 BRITE 1 HR CLEANERS 7216 ATEDS BRITE 1 HR CLEANERS PARK ST (1630) ALAMEDA 94501 UTNKA 00020039 GOOD CHEVROLET INV-ID 01-002574 ARK ST (1650) ALAMEDA 94501 UTNK4 00009601 WINNER FORD ARK ST (1700) ALAMEDA 94501 7532 AREMS 3625 CAVANAUGH MOTORS INC HTNK 1 00046145 CAVANAUGH MOTORS, INC. ARK ST (1701) ALAMEDA 94501 UTNKA 00029824 XTRA DIL CO DEA SHELL DIL INV-ID 01-000727 PARK ST (1725) ALAMEDA 94501 LTNKA 3601 EXXON/REGAL UTNKA 00012451 EXXON # 70104 #405 PARK ST (1726) ALAMEDA 94501 ALAMEDA FOREIGN AUTO INV-ID 01-002794 ARK ST (1801) ALAMEDA 94501 UTNKA 00062629 CHEVRON #4463 INV-ID 01-001376 PARK AVE (1825) ALAMEDA 94501 UTNKI 00012714 RON GOODE TOYOTA INC INV-ID 01-000161 PARK ST (1911) ALAMEDA 94501 AREMS 6235 ALAMEDA COLLISION REPAIR INC LTNKA 3713 ALAMEDA COLLISION INV-ID 01-000071 . SHORE CENTER (NO STREET NBR) ALAMEDA 94501 TOUCHETTE . SHIRLEY 3142311575 HAZNT CALO00076796 FOX PHOTO INC 7384 MARK KRUG 8007597243 TPCE CALOOCO76796 FOX PHOTO, INC. D/B/A FOX PHOTO INV-ID 01-004969 SAN ANTONIO AVE (1433) ALAMEDA 94501 FINDS CAD983610718 GARDEN REDWOOD ELEMENTARY SCHOOL INV-ID 01-003780 SANTA CLARA AVE (709) ALAMEDA 94501 7216 AREMS 4666 WESTINGHOUSE CLEANERS ATEDS 4666 7216 WESTINGHOUSE CLEANERS INV-ID 01-002284 SANTA CLARA (1423) ALAMEDA 94501 HOUSE OF INTERIORS INV-ID 01-002809 SANTA CLARA AVE (2263) ALAMEDA 94501 PUBLIC WORKS DEPARTMENT INV-ID 01-000333 SANTA CLARA (2301) ALAMEDA 94501 UTNKI 00024750

5

# CAL/EPA FACILITY INVENTORY DATA BASE ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501	REG 8Y		SIC	INVENTORY ID. COMMENTS. CONTACT PERSON NAME/NUMBER
SANTA CLARA ST (2501) ALAMEDA 94501 MERRITT TIRE	UTNKA			INV-ID 01-001086
ALAMEDA MEDICAL GROUP INC	M1992	CAL912355320 CAL912355320 CAL912355320		INV-ID 01-000081 KRUSE, PATRICIA 4157481436 PATRICIA KRUSE 5107481436
TOTAL THE DR (2233) ALAMEDA 94501			<del>-</del>	INV-ID 01-002189
CHORELINE DR (2351) ALAMEDA 94501 SOUTH SHORE CAR WASH			·	INV-ID 01-001529
SITE N. 1 OR 2 (NO STREET NBR) ALAMEDA 94501	ADEMS	1500	4911	INV-IC 01-003646
NORTHERN CALIF POWER AGENCY				INV-ID 01-005077
DRYCLEAN USA	DA 945	2218	/216 	INV-ID 01-000121
12TH COAST GUARD DISTRICT	FINDS HAZNT M1990	CA7690390037 CA7690390037 CA7690390037 CA7690390037 CA7690390037		BANDY RONALD STOREKEEPER 4155561438
TWELFTH COAST GUARD DISTRICT FLP US COAST GUARD/ALAMEDA	M1992 RCRIE RCRIS	CA7690390037 CA7690390037 CA7690390037 CA7690390037	9711	DEPARTMENT OF TRANSPORTAT 4168681212 DEPARTMENT OF TRANSPORTAT 4168681212 TIM MADDEN 5104375776
UNION ST (891) ALAMEDA 94501 GIFFORD RESIDENCE	LTNKA	4243		INV-ID 01-000823
. END CITY OF ALAMEDA AN (NO STREET NBR) AN NAVAL SUPPLY CENTER, ALAMEDA USNAVY ALAMEDA NAVAL SUPPLY CENTER ANNE		<u> </u>		INV-IE 01-003325
PERSTER ST (1417) ALAMEDA 84501 ANTHONY CLEANERS	ATEDS	1003		INV-IC 0:-00506-
WEBSTER ST (1435) ALAMEDA 94501 ALAMEDA OLYMPIC JIFFY LUBE JOHN E. FARRAR	UTNK.	I 00059714 I 00067262 I 00068327		INV-ID 01-000938
WEBSTER ST (1509) ALAMEDA 94501  GARDEN CLEANERS  GARDEN CLEANERS	ATED	A 4550	7216 7216	
WEBSTER ST (1601) ALAMEDA 94501	UTNE	A 00059147		INV-ID 01-001445
WEBSTER ST (1628) ALAMEDA 94501	UTNK	1 00009425		INV-ID 01-001240
VEBSTER ST (1629) ALAMEDA 94501 UNION OIL SS # 0843	UTNK	A 00031760	. <b>.</b>	INV-ID 01-002667
WEBSTER ST (1716) ALAMEDA 94501	UTNK	A 00039632		INV-ID 01-000346
WEBSTER ST (1802) ALAMEDA 94501 CHEVRON		A 1236		INV-ID 01-000466

PAGE

01/29/97 RPTZIPP2 CAL/EPA

FACILITY INVENTORY DATA BASE

ZIP CODE LISTING - SORTED BY STREET NAME AND NUMBER

ZIP CODE: 94501

REG REG ...

SIC

INVENTORY ID. COMMENTS.
CONTACT PERSON NAME/NUMBER

# APPENDIX C

### APPENDIX C

# DESCRIPTION OF REGULATORY LISTINGS

### **Environmental Protection Agency**

The following EPA information sources were reviewed:

- CERCLIS listing or CERCLA (Comprehensive Environmental Response Compensation and Liability Act) Superfund Listing. This listing provides an EPA inventory of potential hazardous waste sites.
- <u>Proposed and Final National Priority List (NPL)-California</u>. This information source provides a listing of designated hazardous waste sites under CERCLA.

# California Environmental Protection Agency (CAL-EPA), Department of Toxic Substances Control

The following CAL-EPA information sources were reviewed:

- Hazardous Waste and Substances Sites List (Cortese Listing). The Cortese listing was reviewed to assess if any hazardous waste facilities exist in the vicinity of the site which are subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code. This information source lists property designated as hazardous waste properties pursuant to Article 11 of Chapter 6.5 of Division 20 of the Health and Safety Code. Additionally, the listing identifies underground storage tanks for which an unauthorized release report is filed pursuant to Section 25295 of the Health and Safety Code and all solid waste disposal facilities from which there is a migration of hazardous waste pursuant to Subdivision (e) of Section 13273 of the Water Code.
- 1989 Bond Expenditure Plan (BEP). The state developed this site-specific expenditure plan as a
  basis for appropriating hazardous substance clean-up bond act funds. The expenditure plan was
  developed to provide a complete and accurate outline of the DHS's plans for clean-up of
  statewide hazardous waste sites. The Plan identifies hazardous waste sites targeted for clean-up
  by private parties, the state and the EPA for the next 5 fiscal years.

### APPENDIX C (Continued)

# **DESCRIPTION OF REGULATORY LISTINGS**

- <u>CALSITES Listing</u>. The CALSITES listing was reviewed to assess if potential hazardous waste sites exist in the vicinity of the site. This listing contains information regarding investigative activities by the Department of Health Services' Toxic Substances Control Division.
- <u>Facility Inventory Database ZIP CODE Report</u>. The Facility Inventory Database ZIP CODE
  reports include a summary of sites listed on eight regulatory databases generated by the EPA,
  CAL-EPA, and other State of California regulatory agencies.

### California State Water Resources Control Board/Waste Management Board

The following California State Water Resources Control Board/Waste Management Board information was reviewed:

- AB-1803 Follow-Up Program, Polluted Well Listing. This listing was reviewed for information concerning identified contaminated groundwater wells.
- SWAT Program, Ranked List of Solid Waste Disposal Sites. This listing identifies landfills which have been ranked under the Solid Waste Assessment Test Program.
- Solid Waste Information System (SWIS). The SWIS Listing identifies known landfills, transfer stations, sumps, and waste-to-energy plants.

### Central Valley Regional Water Quality Control Board

The following RWQCB information sources were reviewed:

- <u>Leaking Underground Storage Tank Information System</u>. This information source provides a listing of sites with reported leaking underground storage tanks.
- <u>SLIC Listing</u>. This information source provides a listing of facilities with spills, leaks, investigations and cleanup activities.

# APPENDIX C (Continued)

### **DESCRIPTION OF REGULATORY LISTINGS**

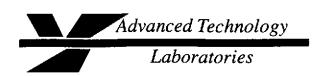
# County of Sacramento Environmental Management Department, Hazardous Materials Division

The following County of Sacramento HMD information sources were reviewed:

- <u>Proposition 65 Reports, Hazardous Materials Releases</u>. This listing was reviewed to assess if unauthorized releases of hazardous materials have been reported for the site or properties in the vicinity of the site.
- Regulatory Compliance Master List. This listing summarizes information regarding permitted underground storage tanks, business emergency response plans and waste generators.
- <u>Toxisite Cleanup Program Site Specific Report</u>. This listing summarizes hazardous waste sites.

APPENDIX

D



March 17, 1997

Geocon Environmental 3235 Sunrise Blvd. #6 Rancho Cordova, CA 95742

ELAP No.: 1838

ATTN:

Mr. Richard Walls

Client's Project: SKS 1849 Oak St., S8152-06-01

Lab No.:

16202-001/019

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

The samples for Asbestos-PLM analysis were subcontracted to CTL with DOHS Cert. #1492.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Laboratory Director

EPC/ms

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

# POLARIZED LIGHT MICROSCOPY SUMMARY REPORT

CLIENT

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

114387

CTL Project #: SG97ATL999

Analytical Method: EPA/ 600/ R-93/ 116, July 1993

Analytical Method:	EPA/ 600/ R-93/ 116, July 1993		
Client Sample #		Total	Asbestos
CTL sample #	Sample Remarks Or Description	Asbestos %	Type(s) present
SKS-1	16202-001 - 1047	Not detected	
97-13782	# of layers in sample = 2		
1			
0/0 1	16202-001 - 1050	Not detected	
SKS-2 97-13783	# of layers in sample = 2	Not dotootod	
97-13763	# Of layers in Sample - 2		·
SKS-3	16202-003 - 1055	Not detected	
97-13784			
•			
01/0 4	40000 004 4400	Not detected	
SKS-4	16202-004 - 1100 # of lavers in sample = 2	Not detected	•
97-13785	# of layers in sample = 2		
1			
SKS-5	16202-005 - 1105	Not detected	
97-13786	# of layers in sample = 2		
l		Not detected	<b>_</b>
SKS-6	16202-006 - 1110	Mor defected	
97-13787			
		•	
SKS-7	16202-007 - 1115	Not detected	========
97-13788	# of layers in sample = 2	•	
eke e	16202-008 - 1120	Not detected	
SKS-8 97-13789	# of layers in sample = 2	1401 00100100	
21-10102	TO I I A SEI I SEI I PIE – 4		
	:		
SKS-9A	16202-009 - 1125A - Tile	8 %	chrysotile
97-13790A			
CKC OD	46000 000 440EP Montin	Not detected	
SKS-9B	16202-009 - 1125B - Mastic	THUE GOLOGICA	
97-13790B			

Supervisor Signature:	Custmatabatt	Date Received:			
Analyst	M25	Date Analyzed:	<u> 3</u>	114 1 9	7

When a sample is "layered", the Total Asbestos % represents the composite percentage of all sample layers. If the asbestos percentage of an individual layer is required, the detailed lab report should be referenced, or the layer should be reanalyzed as a separate sample. Samples reported as Not detected, or less than 1% (<1%), are non-asbestos containing according to PLM method definitions.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar material or products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

# POLARIZED LIGHT MICROSCOPY SUMMARY REPORT

**CLIENT** 

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

114387

CTL Project #: SG97ATL999

EPA/ 600/ R-93/ 116, July 1993		
Sample Remarks Or Description	Total Asbestos %	Asbestos Type(s) present
16202-010 - 1130 # of layers in sample = 2	Not detected	
•		
	16202-010 - 1130	Sample Remarks Or Description  16202-010 - 1130  Total Asbestos %  Not detected

CurtonaTabatt Date Received: 3 Supervisor Signature: Date Analyzed: 3 1/4/ Analyst _

When a sample is "layered", the Total Asbestos % represents the composite percentage of all sample layers. If the asbestos percentage of an individual layer is required, the detailed lab report should be referenced, or the layer should be reanalyzed as a separate sample. Samples reported as Not detected, or less than 1% (<1%), are non-asbestos containing according to PLM method definitions.

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# POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

CLIENT

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

114387

CTL Project #: SG97ATL999

Analytical Method:

EPA/ 600/ R-93/ 116, July 1993

Апагуисаг метпоа:	EPA 000/ R-93/ 110, July 1993			NON EIDDOUG
SAMPLE NUMBER	ASBESTOS FIBER C		NON-ASBESTOS	NON-FIBROUS
CTL Sample #	(Type & perc	entage)	Fibrous Content	Matrix Content
<b>SKS-1</b> 97-13782	TOTAL ASBESTOS =  Remarks : 16202-001 - 1047 Homogeneity : non-homogenous * Condition : friable Layer/area # Vol.% chrysofile 1 99% N.D. 2 1%	Not detected  Color : Texture : amosite N.D. tremolite N.D. N.D.		Matrix approx.=2%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: misc. debris & dust paint
<b>SKS-2</b> 97-13783	TOTAL ASBESTOS =  Remarks : 16202-001 - 1050 Homogeneity : non-homogenous * Condition : friable Layer/area # Vol.% chrysotile 1 99% N.D. 2 1%	Color : Texture : amosite N.D. N.D.		Matrix approx.=2%  MZS Analysis date: 3/14/97  Non-fibrous Matrix: misc. debris & dust paint
SKS-3 97-13784	TOTAL ASBESTOS =  Remarks : 16202-003 - 1055 Homogeneity : homogenous * Condition : non-friable Layer/area # 100%	Color : Texture : amosite N.D. tremolite N.D.	Fibrous <1%  brown vinyl tile or sheeting Fibrous Materials: cellulose	Matrix approx.=100%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: vinyl binder
SKS-4 97-13785	TOTAL ASBESTOS =  Remarks : 16202-004 - 1100 Homogeneity : non-homogenous (ble friable Layer/area # 100% N.D.	nded) Color Texture amosite N.D. N.D.		Matrix approx.=1%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: misc. debris & dust
SKS-5 97-13786	TOTAL ASBESTOS =  Remarks : 16202-005 - 1105 Homogeneity : non-homogenous friable Layer/area # Vol.% chrysotile 1 99% N.D. 2 1%	Not detected  Color Texture amosite N.D. N.D.  Color Texture N.D. N.D.		Matrix approx.=2%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: misc. debris & dust paint

Supervisor Signature: Cuttonia Tutalt MZS

Date Received:

197

"Condition" is the sample friability as received by the laboratory.

Analyst:

Samples reported as Not detected (N.D.), or less than 1% (<1%), are non-asbestos containing according to limitations of the PLM method. This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar material or

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The EPA PLM method was designed for "qualitative" analysis of asbestos in "friable" materials. Non-detection of asbestos in certain types of "non-friable" resinous materials such as floor tiles can occur. Additional TEM analysis of samples determined to be "<1%" or "not detected" by the PLM method is recommended.

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CLIENT

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

: 114387

CTL Project #: SG97ATL999

Analytical Method:

EPA/ 600/ R-93/ 116, July 1993

OTAL ASE marks : mogeneity : condition : yer/area #  OTAL ASE marks : mogeneity : condition :	(Type & percent (Type & percen	entage) Not de	Color: Texture: tremolite N.D. tected  Color: Texture:	Fibrous =69%  light gray	Matrix approx.=100%  MZS Analysis date: 3/14/97 Non-fibrous Matrix: caulking, putty, or glue  Matrix approx.=31%  MZS Analysis date: 3/14/97
marks : mogeneity : condition : yer/area #  OTAL ASE marks : mogeneity : condition :	3ESTOS = 16202-006 - 1110 homogenous non-friable Vol.% chrysotile 100% N.D.  3ESTOS = 16202-007 - 1115 non-homogenous friable Vol.% chrysotile 99% N.D.	Not de	Color : Texture : tremolite N.D.  tected  Color : Texture :	Fibrous < 1%  light brown resinous Fibrous Materials: cellulose  Fibrous =69%	Matrix approx.=100%  MZS Analysis date: 3/14/97 Non-fibrous Matrix: caulking, putty, or glue  Matrix approx.=31%  MZS
marks : mogeneity : condition : yer/area #  OTAL ASE marks : mogeneity : condition :	16202-006 - 1110 homogenous non-friable Vol.% chrysotile 100% N.D.  BESTOS = 16202-007 - 1115 non-homogenous friable Vol.% chrysotile 99% N.D.	amosite N.D.	Color : Texture : tremolite N.D.  tected  Color : Texture :	light brown resinous Fibrous Materials: cellulose Fibrous =69%	MZS Analysis date: 3/14/97 Non-fibrous Matrix: caulking, putty, or glue  Matrix approx.=31%  MZS
omogeneity: condition: yer/area#  OTAL ASE marks: condition:	homogenous non-friable  Vol.% chrysotile 100% N.D.  BESTOS = 16202-007 - 1115 non-homogenous friable Vol.% chrysotile 99% N.D.	N.D.  Not de	Texture: tremolite N.D. tected Color: Texture:	resinous Fibrous Materials: cellulose Fibrous =69% light gray	Analysis date: 3/14/97 Non-fibrous Matrix: caulking, putty, or glue  Matrix approx.=31%  MZS
marks : mogeneity : condition :	16202-007 - 1115 non-homogenous friable Vol.% chrysotile 99% N.D.	<u>amosite</u>	Color : Texture :	light gray	MZS
mogeneity : condition :	non-homogenous friable Vol.% chrysotile 99% N.D.		Texture:		
		A.U.	N.D.	Fibrous Materials: cellulose / fiberglass	Non-fibrous Matrix: perlite paint
marks :	BESTOS = 16202-008 - 1120 non-homogenous	Not de	Color :		Matrix approx.=3%
		amosite N.D.		fibrous <u>Fibrous Materials:</u> fiberglass / cellulose	Analysis date: 3/14/97 Non-fibrous Matrix: misc. debris & dust paint
		<u>8%</u>		Fibrous <1%	Matrix approx.=92%
mogeneity : Condition :	homogenous non-friable		Texture:		MZS Analysis date: 3/14/97 Non-fibrous Matrix: vinyl binder
OTAL ASE	BESTOS =	Not de	tected	Fibrous <1%	Matrix approx.=100%
marks : mogeneity : condition : yer/area #	homogenous non-friable		Texture:		MZS Analysis date: 3/14/97 Non-fibrous Matrix:
	DTAL ASE DATAL DAT	arks : 16202-008 - 1120 non-homogenous ndition : friable vol.% chrysotile 99% N.D. 1%  PTAL ASBESTOS = larks : 16202-009 - 1125A - 1 nogeneity : homogenous ndition : non-friable vol.% chrysotile 100% 8%  PTAL ASBESTOS = larks : 16202-009 - 1125B - N larks : 16202-009 - 1125B	parks: 16202-008 - 1120 pogeneity: non-homogenous riable rarea # Vol.% chrysotile amosite 99% N.D. N.D. 1%  PTAL ASBESTOS = 8% parks: 16202-009 - 1125A - Tile progeneity: homogenous prodition: non-friable paral # Vol.% chrysotile amosite 100% 8% N.D.  PTAL ASBESTOS = Not de parks: 16202-009 - 1125B - Mastic	larks: 16202-008 - 1120 logeneity: non-homogenous Color: friable Texture: er/area # Vol.% chrysotile amosite tremolite 99% N.D. N.D. N.D. N.D. 1%  OTAL ASBESTOS = 8% larks: 16202-009 - 1125A - Tile logeneity: homogenous Color: non-friable Texture: er/area # Vol.% chrysotile amosite tremolite 100% 8% N.D. N.D.  OTAL ASBESTOS = Not detected larks: 16202-009 - 1125B - Mastic logeneity: homogenous Color: Texture: er/area # Vol.% chrysotile amosite tremolite logeneity: homogenous Color: Texture: logeneity: homogenous Color: Texture: logeneity: homogenous Color: Texture: er/area # Vol.% chrysotile amosite tremolite	larks : 16202-008 - 1120 logeneity : non-homogenous friable Texture : fibrous larks : 16202-008 - 1120 logeneity : non-homogenous friable Texture : fibrous Ser/area # Vol.% chrysotile amosite tremolite fiberglass / cellulose    Part

Supervisor Signature:

Cristmatabatt

Date Received:

3 113 197

Analyst:

[&]quot;Condition" is the sample friability as received by the laboratory.

The EPA PLM method was designed for "qualitative" analysis of asbestos in "friable" materials. Non-detection of asbestos in certain types of "non-friable" resinous materials such as floor tiles can occur. Additional TEM analysis of samples determined to be "<1%" or "not detected" by the PLM method is recommended.

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# POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

CLIENT

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

114387

CTL Project #: \$G97ATL999

Analytical Method: EPA/ 600/ R-93/ 116, July 1993

SAMPLE NUMBER CTL Sample #	ASBESTOS FIBER C (Type & perc		NON-ASBESTOS Fibrous Content	NON-FIBROUS Matrix Content
SKS-10 97-13791	TOTAL ASBESTOS = Remarks : 16202-010 - 1130	Not detected	Fibrous =98 %	Matrix approx.=2%
	+ Condition : friable Layer/area # 1 99% N.D. 2 1%		: yellow : fibrous <u>Fibrous Materials:</u> fiberglass / cellulose	MZS Analysis date: 3/14/97 Non-fibrous Matrix: misc. debris & dust vinyl binder

Supervisor Signature: Date Received:

Analyst:

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CTL Project #: SG97ATL999

Analytical Method:

EPA/ 600/ R-93/ 116, July 1993

Client Sample #		Total	Asbestos
CTL sample #	Sample Remarks Or Description	Asbestos %	Type(s) present
<b>WIN-1</b> 97-13792	16202-011 - 1135 # of layers in sample = 4	Not detected	
<b>WIN-2</b> 97-13793	16202-012 - 1140	Not detected	
<b>WIN-3</b> 97-13794	16202-013 - 1145 # of layers in sample = 4	Not detected	
<b>WIN-4A</b> 97-13795A	16202-014 - 1150A - Tile	Not detected	
<b>WIN-4B</b> 97-13795B	16202-014 - 1150B - Mastic	Not detected	
<b>WIN-5</b> 97-13796	16202-015 - 1155	Not detected	
<b>WIN-6A</b> 97-13797A	16202-016 - 1157A - Tile	2 %	chrysotile
<b>WIN-6B</b> 97-13797B	16202-016 - 1157B - Mastic	Not detected	·
<b>WIN-7</b> 97-13798	16202-017 - 1200 # of layers in sample = 2	Not detected	
<b>WIN-8</b> 97-13799	16202-018 - 1205 # of layers in sample = 3	Not detected	

Supervisor Signature:	Crist	matabatt	Date Received:	3	1/3/97
Analyst	MZS	<del></del>	Date Analyzed:	3	114197

When a sample is "layered", the Total Asbestos % represents the composite percentage of all sample layers. If the asbestos percentage of an individual layer is required, the detailed lab report should be referenced, or the layer should be reanalyzed as a separate sample. Samples reported as Not detected, or less than 1% (<1%), are non-asbestos containing according to PLM method definitions.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar material or products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

# POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

CLIENT

Advanced Technology Laboratories. 1510 E. 33rd Street, Signal Hill, CA 90807

Client Project#

: P.O. #7885

Location:

CTL Lab#

: 114387

CTL Project #: SG97ATL999

Analytical Method: EPA/ 600/ R-93/ 116, July 1993

	93/ 110, July 199.			
İ			NON-ASBESTOS	NON-FIBROUS
<u> </u>	(Type & perd	centage)	Fibrous Content	Matrix Content
TOTAL AS Remarks : Homogeneity : * Condition : Layer/area #	BESTOS =  16202-015 - 1155 homogenous friable Vol.% chrysotile 100% N.D.	Col Text <u>amosite</u> tremolit	or : brown ure : fibrous Fibrous Materials:	Matrix approx.=1%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: misc, debris & dust
TOTAL AS Remarks : Homogeneity : * Condition : Layer/area #		Colo Textu <u>amosite</u> <u>trernolite</u>	re: vinyl tile or sheeting	Matrix approx.=99% MZS Analysis date: 3/14/97 Non-fibrous Matrix: vinyl binder
TOTAL ASI Remarks : Homogeneity : * Condition : Layer/area #		<u>Vlastic</u> Colo Textu	r : mottled brown re : resinous	Matrix approx.=100%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: caulking, putty, or glue
Remarks : Homogeneity : * Condition :	3ESTOS =  16202-017 - 1200 non-hornogenous friable  Vol.% chrysotile  99% N.D.  1%	Color Textu	: brown	Matrix approx.=2%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: misc. debris & dust paint
Remarks : Homogeneity : ' Condition :	16202-018 - 1205 non-homogenous friable Vol.% chrysotile 95% N.D.	Color	: off-white/brown	Matrix approx.=91%  MZS  Analysis date: 3/14/97  Non-fibrous Matrix: gypsum / carbonate misc. debris & dust paint
	Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL AS Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL AS Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL ASI Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL ASI Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL ASI Remarks : Homogeneity : * Condition : Layer/area # 1  TOTAL ASI Remarks : Homogeneity : * Condition : Layer/area # 1	TOTAL ASBESTOS = Remarks : 16202-015 - 1155 Homogeneity : homogenous  " Condition : friable Layer/area # Vol.% chrysotile 1 100% N.D.  TOTAL ASBESTOS = Remarks : 16202-016 - 1157A - Homogeneity : homogenous  " Condition : non-friable Layer/area # Vol.% chrysotile 1 100% 2%  TOTAL ASBESTOS = Remarks : 16202-016 - 1157B - Homogeneity : homogenous  " Condition : non-friable Layer/area # Vol.% chrysotile 1 100% N.D.  TOTAL ASBESTOS = Remarks : 16202-017 - 1200 Homogeneity : homogenous  " Condition : friable Layer/area # Vol.% chrysotile 1 99% N.D.  TOTAL ASBESTOS = Remarks : 16202-017 - 1200 Homogeneity : non-homogenous  " Condition : friable Layer/area # Vol.% chrysotile 1 99% N.D.  TOTAL ASBESTOS = Remarks : 16202-018 - 1205 Homogeneity : non-homogenous  " Condition : friable Layer/area # Vol.% chrysotile 1 99% N.D.  TOTAL ASBESTOS = Remarks : 16202-018 - 1205 Homogeneity : non-homogenous  " Condition : friable Layer/area # Vol.% chrysotile TOTAL ASBESTOS = Remarks : 16202-018 - 1205 Homogeneity : non-homogenous  " Condition : friable Layer/area # Vol.% chrysotile TOTAL ASBESTOS = Remarks : 16202-018 - 1205 Homogeneity : non-homogenous  " Condition : friable Layer/area # Vol.% chrysotile TOTAL ASBESTOS = Remarks : 16202-018 - 1205 Homogeneity : non-homogenous  " Condition : friable	Remarks : 16202-015 - 1155 Homogeneity : homogenous friable Textu tayer/area # Vol.% chrysotile 100% N.D. N.D. N.D.  TOTAL ASBESTOS = 2 % Remarks : 16202-016 - 1157A - Tile Homogeneity : homogenous condition : non-friable tremolite 100% 2% N.D. N.D. N.D.  TOTAL ASBESTOS = Not detected tremolite 100% 2% N.D. N.D. N.D.  TOTAL ASBESTOS = Not detected 100% N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	TOTAL ASBESTOS = Remarks : 16202-015 - 1155   Not detected   Fibrous = 99 %    TOTAL ASBESTOS = Remarks : 16202-015 - 1155   N.D.    Layer/area # Vol.%   chrysotile   100%   N.D.    TOTAL ASBESTOS = Remarks : 16202-016 - 1157A - Tile   100%   Condition : non-friable   100%   N.D.   N.D.   N.D.   Color : motitled brown   Texture : resinous   Te

upervisor Signature:

crima lavar MZS Analyst:

Date Received: <u>3</u> / 13 / 97

[&]quot;Condition" is the sample friability as received by the laboratory.

The EPA PLM method was designed for "qualitative" analysis of asbestos in "friable" materials. Non-detection of asbestos in certain types of "non-friable" resinous materials such as floor tiles can occur. Additional TEM analysis of samples determined to be "<1%" or "not detected" by the PLM method is recommended.

Samples reported as Not detected (N.D.), or less than 1% (<1%), are non-asbestos containing according to limitations of the PLM method. This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of appearantly identical or similar material or products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addresssed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

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□ Return To: Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar □ G=Glass P=Plastic M=Metal Z=Zn(AC)₂ O=NaOH □ OON = PER HazanDOUs samPLE plor OSAL. Distributions: White win report, Green to organic, Venow to inorganic, Pink to plology, Gold to suprimer.	T=Na ₂ S ₂ O							نكند سعسطا	فكالموسود								

114387 **CHAIN OF CUSTODY RECORD** FOR LABORATORY USE ONLY: Advanced Technology Sample Condition Upon Receipt Method of Transport YO NO 1. COOLER TEMP C (2-6)5. SEALED Laboratories Walk-in Courier Y□ N□ 6.#OF SPLS MATCH COC Y□ N□ 2. CHILLED 1510 E. 33rd Street UPS YO NO 3. HEADSPACE (VOA) Y□ N□ 7. PRESERVED Signal Hill, CA 90807 FED. EXP. (562) 989-4045 • FAX (562) 989-4040 4. CONTAINER INTACT Y N N S. CONTR. LOT #. Logged By: ATL TEL: ( Client: A17 Address: FAX:( Zip Code Project #: (Printed Name) Project Name: Sampler: Relinquished by: (Signature Relinquished by: (Signature and Printed Na Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Send Report To: SHIP TO LAB: CTU I hereby authorize ATL to perform the work indicated below: Please fax results by: 3-18-97. Project Mgr /Submitter: TEST: ATL#: P.O.# 1885 Print Name DATE: CLIENT I.D. Signature QA/QC Circle or Add CIRCLE APPROPRIATE Sample Archive/Disposal: Unless otherwise

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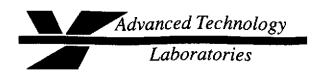
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samples received after 5 p.m.

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Advance	d Technology		·		FOR LABORATORY USI	E ONLY:	
					Method of Transport	Sample	Condition Upon Receipt
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1510 E. 33rd Street Signal Hill, CA 90807		P.O.#:			UPS 🗆	3. HEADSPACE (VOA) Y	N 7. PRESERVED Y N N
(310) 989-4045 • FAX		Logged By:	Data	3-12-97 _{Time: 12:49}	FED. EXP.		
		Logged byED	Date.		ATL 🗆	4. CONTAINER INTACT Y	N 🗀 8. CONTR. LOT#
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. I he	ereby authorize ATL to pe	erform the work indicated beli	ow:	Send Report To:	Spec	cial Instructions/Comments:	
Unless otherwise Pr	oject Mgr /Submitte			Attn:			
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LAB USE ONLY:		Sample Description		\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\\$\\$\\$\\$\\$\\		Container(s) W CT CT
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☐ Other							H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C
☐ Return To:	———   Contai	ner Types: T=Tube	V=VOA L=	Liter P=Pint J=Ja	ır B=Tedlar G=Glass	P=Plastic M=Metal	Z=Zn(AC)2 O=NaOH T=Na2S2O3

^{* \$10.00} FEE PER HAZARDOUS SAMPLE DISPOSAL.

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March 19, 1997

ELAP No.: 1838

G 7 Geocon Environmental MAR 3235 Sunrise Blvd. #6 Rancho Cordova, CA 95742

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ATTN:, Mr. Richard Walls

MAR 24 1997

Client's Project: SKS 1849 Oak St., S8152-06-01

Lab No.: 16203-001/007

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Edgar P. Caballero Laboratory Director

EPC/ms

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Geocon Environmental Mr. Richard Walls Attn:

Client's Project:

SKS 1849 Oak St., S8152-06-01

Date Received:

03/12/97

Water Matrix:

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Toluene	0.5	ug/l					<u> </u>	_ -			$\dashv$	 ļ		+		<del>                                     </del>	ļ.— ·-	+-	<del> </del>	+	
Ethylbenzene	0.5	ug/l		 			<del> </del>		+-			 ļ		+		<del>                                     </del>	<del> </del>	+-		+	
Xylenes (total)	0.5	ug/l					\					 +-		<b></b> -	<del>                                     </del>	<del>                                     </del>	<del> </del>	+		<del>                                     </del>	
Methyl tert-Butyl Ether	0.5	ug/l								Ì.		 	<u> </u>	<u> </u>	ł			<del></del>			

MDL = Method Detection Limit ND = Not Detected. (Below DLR) DLR = MDL X Dilution Factor

NA - Not Analyzed

Reviewed/Approved By:	8
Verleweni Approved by:	Yun Pan Department Superviso

The cover letter is an integral part of this analytical report.



Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\5\METHODS\8025WAT.M

Title

: EPA M8015 (Gasoline) / EPA 602 (BTEX)

Last Update : Wed Mar 19 11:41:58 1997

Response via : Initial Calibration

Non-Spiked Sample: E97C0695.D

Spike Sample Spike

Duplicate Sample

File ID : E97C0718.D

| E97C0719.D

Sample : Blank MS

Blank MSD

Acq Time: 19 Mar 97 00:29 AM

19 Mar 97 00:58 AM

Compound		Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC RPD	Limits % Rec
Gasoline	(mg/l)	ND	1	1	1	82	80	2 2 0	19	66-129
Benzene	(ug/l)	ND	23	17	17	75	74		6	73-121
Toluene	(ug/l)	ND	85	61	62	72	72		12	70-127

QC Batch #:978G20W033

_ Date:___3/19/97 Reviewed and Approved by: Organics Supervisor

Client: Geocon Environmental Attn: Mr. Richard Walls

Client's Project:

SKS 1849 Oak St., S8152-06-01

Date Received:

03/12/97

Matrix:

Soil

	Vakereele	\$2545.55	(2000) (2000)	-60×505×60×5×50×6	30000		50-2001 80-2001			MET	THOD 8015	M (Ga	soline)	ÆPA I	8020	(BTEX)	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1007060	6.60.000.000 2000.000	0000000 00000000	3.5 (2) 100 (23) 2.5 (2) 200 (23)
	Lab N		Meth	od Blank	162	3-002	16	3203	-005													_	 	
Client S	ample	i.D.:			HA1	-2.5	H	A3-:	3									 					 	
	Samp				03/1	0/97	03	3/10	/97									 ļ			<b></b>		 	
Q	C Batc	n #:	19780	G20S075	1978	G20S075	19	78G	208075									 ļ			<u> </u>		 	
Date	Analyz	ed:	03/14	4/97	03/1	4/97	03	3/14	/97												<b></b>			
Anal	yst Init	ials:	RL		RL		R	L									 						 	
	ion Fac		1			1		1										 * ***********		nionanana.		cantonica ca	 ***************************************	000000000000000000000000000000000000000
Analyte	MDL	Units	DLR	Results	DL	Result	s C	LR	Results															
TPH (Gas)	1	mg/kg	1	I NI	D	1 1	ND	1	ND				<u> </u>					 ļ	<u> </u>		<b></b>		 	
Benzene	5	ug/kg	5	NI	D	5 !	ND	6	ND				<u> </u>					ļ	ļ		<u> </u>			
Toluene	6	ug/kg	5	NI	D	5 I	ND	5	ND								 		1		ļ		 	
Ethylbenzene	5	ug/kg	5	i Ni	D	5 I	ND	5	ND								 						 $\rightarrow$	
Xylenes (total)	5	ug/kg		S NI	D	5 I	ND	5	ND							<u> </u>		<u> </u>	<u>l</u>		لــــــا			

						 	 -	1	 T	 			- "	1			 	
	Lab I	lo.:			1		 	<u> </u>	 			<del> </del>		ļ		<del> </del>	 	
Client S	ample	I.D.:							 			<u> </u>					 <del></del>	
Date	Samp	led:							 1					ļ		L	 -	
Q	C Batc	h#:															 <u> </u>	
Date	Analy	zed:		•					 							L	 <b> </b>	
Anai	yst Init	ials:														<u> </u>	 	
Dilut	ion Fa	ctor:								_i			••••					
Analyte		Units																
TPH (Gas)	1	mg/kg							<u> </u>					<b>.</b>			 	
Benzene	6	ug/kg	i i							 		<u> </u>		ļ. <u>.</u>			 	
Toluene	5	ug/kg					 			 		$oxed{oxed}$	<u> </u>	ļ		igsquare	 <u> </u>	
Ethylbenzene	5	цg/kg		·				1			<u> </u>	ļ		1	1	$\sqcup$	 igsquare	
Xylenes (total)	5	-											<u></u>					

MDL = Method Detection Limit
ND = Not Detected. (Below DLR)
DLR = MDL X Dilution Factor

NA = Not Analyzed

 Date: 3/19/97

The cover letter is an integral part of this analytical report.



Spike Recovery and RPD Summary Report - SOIL

Method

: C:\HPCHEM\5\METHODS\8025EXT.M

Title

: 8015GAS/ 8020(BTXE)

Last Update : Fri Mar 14 11:34:52 1997

Response via : Initial Calibration

Non-Spiked Sample:

I9704602.D

Spike

Sample

Spike

Duplicate Sample

File ID : I97S4604.D

I97S4605.D

Sample : 16163-001 3ppm MS Gas (+BTEX)SOIL 16163-001 3ppmMSDGas(+BTEX)SOIL Acq Time: 14 Mar 97 05:58 PM 14 Mar 97 06:22 PM

Compound	Sample Conc	Spike Added		Spike %Rec		RPD		Limits % Rec
Gasoline (mg/kg) Benzene #2 (ug/kg) Toluene #2 (ug/kg)	ND ND ND	3 48 255	2 33 160		68	1	12	47-140 66-121 62-127

QC Batch #: I978G20S075

Reviewed and Approved by:

Organics Supervisor

_ Date:_

Client: Geocon Environmental Mr. Richard Walls Attn:

Client's Project: SKS 1849 Oak St., S8152-06-01

Date Received: 03/12/97 Matrix: Soil Units: ug/kg

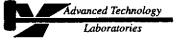
				EP.	A Method	L8010	(by GC/M	<b>S)</b>			
Lab	No.:	Metho	d Blank	16203-	002	16203	-005				
Client Sample				HA1-2		HA3-3	3				
Date Sam		_		03/10/9	97	03/10/	97				
QC Bat		Q97V	OCS074	Q97V	DCS074	Q97V	OCS074				
Date Anal	yzed:	03/14/9	97	03/14/9	97	03/14/	97				
Analyst In	itials:	DΤ		DT		DT					
Dilution Fa	ctor:	1.0		1.0		1.0			 		
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results				
Bromodichloromethane	5	5	ND	5	ND	5	ND				
Bromoform	5	5	ND	5	ND	5	ND				
Bromomethane	5	5	ND	5	ND	5	ND				
Carbon tetrachloride	5	5	ND	5	ND	5	ND		 		
Chlorobenzene	5	5	ND	5	ND	5	ND				<u> </u>
Chloroethane	5	5	ND	5	ND	5	ND				
2-Chloroethyl Vinyl Ether	5	5	ND	5	ND	5	ND				
Chloroform	5	5	ND	5	ND	5	ND		 		
Chloromethane	5	5	ND	5	ND	5	ND				
1,2-Dichlorobenzene	5	5	ND	5	ND	5	ND				
1,3-Dichlorobenzene	5	5	ND	5	ND	5	ND				
1,4-Dichlorobenzene	5	5	ND	5	ND	5	ND		 ,		
Dibromochloromethane	5	5	ND	5	ND	5	ND				
Dichlorodifluoromethane	5	5	ND	5	ND	5	ND				
1,1-Dichloroethane	5	5	ND	5	ND	5	ND				
1,2-Dichloroethane	5	5	ND	5	ND	5	ND				
1,1-Dichloroethene	5	5	ND	5	ND	5	ND			<u> </u>	
trans-1,2-Dichloroethene	5	5	ND	5	ND	5	ND				
1,2-Dichloropropane	5	5	ND	5	ND	5	ND				
cis-1,3-Dichloropropene	5	5	ND	5	ND	5	ND		 		
trans-1,3-Dichloropropene	5	5	ND	5	ND	5	ND				
Methylene Chloride	15	15	ND	15	ND	15	ND				
1,1,2,2-Tetrachloroethane	5	5	ND	5	ND	5	ND				
Tetrachloroethene	5	5	ND	5	ND	5	ND				
1,1,1-Trichloroethane	5	5	ND	5	ND	5	ND				
1,1,2-Trichloroethane	5	5	ND	5	ND	5	ND				
Trichloroethene	5	5	ND	5	ND	5	ND				
Trichlorofluoromethane	5	5	ND	5	ND	5	ND				
Vinyl Chloride	5	5	ND	5	ND	5	ND				

MDL	=	Metho	od 1	Detection Limit
ND	=	Not De	tec	ted (Below DLR)
DLR	=	MDL	X	Dilution Factor

NA = Not Analyzed

Reviewed/Approved By:	<i>I</i>	Date:	3/19/97
	Yun Pan Department Supervisor		

The cover letter is an integral part of this analytical report.



Client: Geocon Environmental Attn: Mr. Richard Walls

Client's Project: SKS 1849 Oak St., S8152-06-01

Date Received: 03/12/97
Matrix: Water
Units: ug/L

	9793888					000 V0 V0 V0 V0 V0 V0 V0 V0 V0 V0 V0 V0	EPA	Meth	od 8010 (	by GC	MS)				
Lah	No.:	Metho	d Blank	16203-	003									<u> </u>	
Client Sample			HA1-W												
Date Sam	_		03/10/97												
OC Bat		P97VOCW045		P97VOCW045										ļ	
Date Anal				03/13/97								<u> </u>			
Analyst Ini		DT		DT						L		ļ			
Dilution Fa	1.0		1.0							<u> </u>		e de la composição de la composição de la composição de la composição de la composição de la composição de la c			
ANALYTE	MDL	DLR	Results	DLR	Results		00 x 00 x 00 00 x 00 x 00 x 00 x								
Bromodichloromethane	0.5	0.5	ND	0.5	ND								_	<del></del>	
Bromoform	1.0	1.0	ND	1.0	ND					<u> </u>	<u>.</u>			<del> </del>	<del>  -</del>
Bromomethane	1.0	1.0	ND	1.0	ND					<u> </u>		<del> </del>	-	<u> </u>	<del> </del>
Carbon tetrachloride	0.5	0.5	ND	0.5	ND					<del> </del>			<u> </u>	<del> </del>	
Chlorobenzene	0.5	0.5	ND	0.5	ND					<b>├</b>			<del> </del>	<del> </del>	<del>-</del>
Chloroethane	1.0	1.0	ND		ND						<del></del>	—			<del></del>
2-Chloroethyl Vinyl Ether	1.0	1.0	ND		ND					<u> </u>	-			<del> </del>	<del> </del>
Chloroform	0.5	0.5	ND		ND					<b>↓</b> —.		ļ		<del> </del>	<u> </u>
Chloromethane	1.0	1.0	ND		ND							<del>                                     </del>	<del> </del>		<del></del>
1,2-Dichlorobenzene	0.5	0.5	ND	_	ND			<u> </u>		<del></del>			<del>                                     </del>		
1,3-Dichlorobenzene	0.5		ND		ND				<b></b>		ļ.——	<u> </u>	ļ. —		-
1,4-Dichlorobenzene	0.5		ND		ND		,				<u></u> .		<u> </u>		
Dibromochloromethane	0.5	0.5	ND		ND				-		-				
Dichlorodifluoromethane	1.0				ND	<del></del>				<u> </u>	<del> </del>	<del> </del> -	-	<del> </del>	
1,1-Dichloroethane	0.5				ND						<del> </del>		<del>                                     </del>		<del>- </del>
1,2-Dichloroethane	0.5	<del></del>			ND							-	<del> </del>		<del> </del>
1,1-Dichloroethene	0.5			1	ND			ļ <u> </u>		<u> </u>	<del>                                     </del>		ļ		<del>                                     </del>
trans-1,2-Dichloroethene	0.5	$\overline{}$			ND				<u> </u>			<del> </del>	<del> </del>		<del>  -</del>
1,2-Dichloropropane	0.5		ND		ND	<del></del>				<u> </u>	<del> </del>	<b></b>	<u> </u>	<del> </del>	
cis-1,3-Dichloropropene	0.5	_	ND		ND					<u> </u>	-		-	<del> </del>	<del>                                     </del>
trans-1,3-Dichloropropene	0.5	-		<del></del> -	ND	1-1-			ļ	+-	<u> </u>	1			+
Methylene Chloride	15				ND	<del> </del>		<del> </del>	-		1	<del> </del>	-		<del>                                     </del>
1,1,2,2-Tetrachloroethane	0.5		-	_	NE	+		<u> </u>	<u> </u>		<del> </del>	<del> </del>	<del> </del>	+	+
Tetrachloroethene	0.5	<del>-</del>			NE				ļ.—	-	<del> </del>	-	<del> </del>		<del> </del>
1,1,1-Trichloroethane	0.5				NE			<del>  -</del>	<del> </del>	<del></del>	<del> </del>	+	+	+	<del> </del>
1,1,2-Trichloroethane	0.5	_			NE	<b>↓</b>		├		—-	<del> </del>	+	+ -	<del></del>	
Trichloroethene	0.5	_	<del></del>		1.5	<b>├</b>		<u> </u>	<del> </del>	+-	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>	+
Trichlorofluoromethane	0.5		_	+	NI					+	<del> </del>	+	+	-	<del> </del>
Vinyl Chloride	1.0	1.0	ND	1.0	NI				<u> </u>		<u> </u>		1,		

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed

Reviewed/Approved By:

Yyın Pan Department Supervisor Date: 3/19/97

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report - WATER(ug/1)

: C:\HPCHEM\1\METHODS\VOC2535.M Method Title : Volatile Organic Compounds Last Update : Thu Mar 13 20:00:30 1997 Response via : Continuing Calibration

Non-Spiked Sample: P97B0667.D

Spike Spike

Duplicate Sample Sample

P97S0677.D

File ID: P97S0676.D Sample: Blank 10ppb MS Acq Time: 14 Mar 97 3:08 am Blank 10ppb MSD

| 14 Mar 97 3:56 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC RPD	Limits % Rec
1,1-dichloroethene benzene trichloroethene toluene chlorobenzene	0.0	10 10 10 10 10	9 9 9 9	9 10 9 9	85 93 89 91 93	89 98 93 88 96	4 5 4 3 3	19 15 16 15 14	49-154 67-128 67-130 74-123 80-122

QC Batch # : P97VOCW045

Reviewed and Approved By:

Yun Pan y Yun Pan rganics Supervisor Spike Recovery and RPD Summary Report - WATER(ug/1)

Method

: C:\HPCHEM\1\METHODS\VOC35.M

Last Update : Wed Mar 12 19:09:42 1997

Title : Volatile Organic Compounds

Response via : Continuing Calibration

Non-Spiked Sample: Q9701117.D

Spike

Spike

Sample

Duplicate Sample

File ID : Q97S1123.D

Q97S1124.D

Sample : 16047-007 50ppb MS

| 16047-007 50ppb MSD

| 12 Mar 97 6:12 pm

Acq Time: 12 Mar 97 5:42 pm

Sample Spike Dup Spike Dup RPD QC Limits Compound Conc Added Res Res %Rec %Rec RPD % Rec 99 | 10 | 19 | 49-154| 44 49 89 1,1-dichloroethene ND 50 50 | 102 | 100 | 15 | 67-128 ND 51 | 3 | benzene 50 7 | 16 | 67-130 | ND 49 | 91 | 97 trichloroethene 50 46 51 | 96 | 102 | 7 | 15 | 74-123 | toluene | ND 50 48 97 | 101 | 5 | 14 | 80-122 | 51 ND 50 48 chlorobenzene

OC Batch # : Q97VOCW069

Reviewed and Approved by:

Organics Supervisor

				CHAIN	OF CUSTO					9	_oi	
-	Adva	nced Technology				FOR LABORATORY USE ONLY:						
			1			Method of Tra		Sample Condition Upon Receipt  1. COOLER TEMP *C(2-6) 5. SEALED Y□ N				
		Laboratories	Batch #:	D.O.#		*	_		` '			
1510 E. 33rd Street P.O.#:						UPS		2. CHILLED		# OF SPLS MATCH C		
Sig	nal Hill, CA 90	807		<u> </u>	) in An 10-	FED EXP	<u> </u>	3. HEADSPACE (VOA)	Y□ N□ 7.	PRESERVED	YO NO	
(31	0),989-4045 • 1	FAX (310) 989-4040	Logged By:	DateC	3-12-9-7 time: 13:2	ATL 7		4. CONTAINER INTACT	. Y□ N□ 8.	CONTR. LOT #	-	
Clie	nt:	an .	<del></del>	Addre	ss: 72.75	SUNSE	RLU	4 56	TEL:	9/5) 882	9118	
Attn	: 121	CHARA	walls	City	BANCHO C	shown Star	ite S	Zip Code 2	5742 FAX:	7/6 850	9132	
Proje	ect Name:	1849	744 FProject	58152-1	26-01 Sample	r: (Printed Name)	IN TO	VMMV)	nature)	12/		
Relind	quished by: (Signature	and Printed Name)	- CO 441	Dun Beceive	d by (Signature and Printed Na	CA OVI	KALIC	Date		3/1/92	1700	
Reline	quished by: (Signature	and Printed Nation		417 - 18 - 18 - 18 - 18 - 18 - 18 - 18	d by: (Signature and Printeting	MANO, VAL	lian	Date	312-97	Time: 12:4	15	
Relino	quished by: (signatury	nd Printed Name)		Receive	C by: (Signature and Printed Na			Date	:	Time:		
	T	I hereby authorize ATL to	perform the work indicated b	nelow;	Send Report To:		Special	Instructions/Comments	:	1000		
	ess otherwise	Project Mgr /Submi		<b>.</b>	Attn:		_			-		
	equested, all mples will be	PUCHAN	DWMS Date: _	31097	Co:							
	osed 60 days	P/int Na/ne	11.41/-		Address							
a	fter receipt.	_ rune	y was			2:						
CUI	IP TO LAB:	SHIP TO LAS	Signature SHIP TO	) I AD:	Circle or Add / /	StateZip	<del></del>   / /	<del>/////</del>	CIRCLE APPRO	DDIATE	QA/QC	
(SUB	CONTRACT)	(SUB CONTRACT).	SUB CONT	RACT)	Analysis(es) / 🖒 😹	8/ / / /§/ )	////	/////	MATRI)		RTNE []	
TEST		TEST:	TEST:		Requested / 8/8	\&\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	· /ş/ /	///////////////////////////////////////	15///		RWQCB 🗆	
DATE	#: =·	ATL #:					.   @       		\$/~/ / /·	/  <	WIP 🗀	
ľ	NT I.D.	CLIENT I.D.	CLIENT I.D.		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\$\\$\\$\\$\\$\\$\\$	\$///	[		<b>√</b>  ≩	NAVY 🗀	
	LAB USE ON		Sample Description		<i><b>\\$\\$\\$\\\$\\$</b></i>		////		š/	Container(s)	CT [] OTHER	
T E	Batch #:			<del></del>			///		TAT	<u>" - " " " " " " " " " " " " " " " " " "</u>	<del></del>	
м	Lab No.		Sample I.D.	Date Time	\\\ \&\\\&\\\\&\\\&\\\&\\\&\\\&\\\&\\\&		-/-/-	<u> </u>	A TAT	# Type a	REMARKS	
	16203-01	OI TRIPE	BLANK 31	10/77/20	4					1060	HOLD	
		2. HAI-	25	12/	<del>/</del> X	$\mathbf{X}$		$ \mathbf{X} $		17mc		
		3. UAI-	11/	124	10					416-6		
	α		-/	1400	CALL	WI FOR TE	35		+-	17mc		
		5. MA3	-2	Wer			11	13+++		1700		
$\vdash$			<u>-11/</u>	1750	<del>- [/ K        </del>	4				11/6	<u> </u>	
		Xo. 1143.	-W	V 1500	1	, <u>                                    </u>				4000		
	D(	A. MAG	-1.5	1520	CHAL F	M FOR TO	21/2/5		<del>                                     </del>	17mc	4 1 PB	
		·							<u> </u>			
						++-				w		
Sam	ple Archive/Dispos	al:	. Overnight] _ F	mergency	Critical _	Urgent _	Routine	• TAT starts 8 a.m	Preserv	atives:	-	
18-7	Laboratory Standar Other Return To:	d TAT		mergency lext workday	Z WOIKUAYS	3 Workdays	⁼  7 Workda	• TAT starts 8 a.m following day if si received after 3 p.		N=HNÓ₃ S≖H		
ŏ	Return To:	Con	ainer Types: T=Tube	V=VOA L=I	iter P=Pint J=	ar B=Tedlar G	3=Glass F	P=Plastic M≖Met		C)₂ O≖NaOH	T=Na ₂ S ₂ O ₃	

^{* \$10.00} FEE PER HAZARDOUS SAMPLE DISPOSAL.

APPENDIX E

PROJEC	T NO.	S8152-0	)6-01		1							
Τ.	AT. T.	щ	)6Y	BORING/WELL NO. HA 1								
DEPTH IN FEET	ETR SIS WS/F	SAMPLE NO.	ITHOLOGY	DATE DRILLED 3/10/97 WATER LEVEL (ATD) 4.5'	WELL CONSTRUCTION	PID HEADSPACE (PPM)						
_	PENE RES	ល	Ę	EQUIPMENT HAND AUGER DRILLER JOHN JUHREND	CONSTRUCTION	(FFM)						
				SOIL DESCRIPTION								
- 1 -				FILL Loose, dry, brown, fine SAND and gravel railroad ballast (GW)		0.0						
- 2 -				Loose, moist, dark to light gray, Clayey, fine SAND (SC)		0.0						
- 3 -		HA1- 2.5 1215										
- 4 -				ALLUVIUM  Medium dense, very moist to wet, orange/tan, Clayey, fine SAND (SC)		0.0						
- 5 <b>-</b>				¥ -								
- 6 -				BOTTOM OF BORING AT 5.5 FEET –								
- 7 -				-								
- 8 -				_	·							
- 9 -				- -								
Figure	Δ-1 100	of Borin	o HA 1			SKS						
	ELEVAT		5 11/7 1	QUANTITY OF FILTER MATERIAL:	. <del>_</del>	· · · · · · · · · · · · · · · · · · ·						
		PE OF CAS	ING:	WELL SEAL & INTERVAL:								
	INTEDV			WELL SEAL QUANTITY:								

FILTERPACK/INTERVAL: NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

WELL SCREEN:

SCREEN INTERVAL: WELL COVER:

ANNULUS SEAL/INTERVAL:

ENGINEER/GEOLOGIST:

JOHN JUHREND

ADDITIVES:

WELL DEPTH:

PROJEC	T NO.	S8152-(	) <del>0-</del> 01		7										
II L	AT. T.	пi	OGY	BORING/WELL NO. HA 3											
DEPTH IN FEET	ETR SIS JS/F	SAMPLE NO.	ITHOLOGY	DATE DRILLED 3/10/97 WATER LEVEL (ATD) 3.0'	WELL	PID HEADSPACE									
	PENETI RESI BLWS/	Š	LIT	EQUIPMENT HAND AUGER DRILLER JOHN JUHREND	CONSTRUCTION	(PPM)									
				SOIL DESCRIPTION											
1 _		= = = =		FILL Gravel railroad ballast											
2 -				ALLUVIUM Medium dense, very moist to wet, brown, Silty, fine SAND with trace clay (SM)											
- 3 -		HA3-3 1450		<b>▼</b>		0.6									
- 4 -				-Increasing clay content											
- 5 -													<del>-</del>		
- 6 -				BOTTOM OF BORING AT 6 FEET											
7 -		:		• .											
- 8 -		:		-											
- 9 -	i i			-											
Figure	A-3 log	of Boring	HA 3		<u>L</u>	SKS									
	ELEVAT		· · · · · ·	QUANTITY OF FILTER MATERIAL:	QUANTITY OF FILTER MATERIAL:										
		PE OF CAS	ING:	WELL SEAL & INTERVAL:											
CASING	INTERV	AL:		WELL SEAL QUANTITY:											
-	CREEN:			ANNULUS SEAL/INTERVAL:											
SCREEN	INTERV.	AL:		ADDITIVES:	ADDITIVES:										

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

WELL COVER:

FILTERPACK/INTERVAL:

WELL DEPTH:

ENGINEER/GEOLOGIST:

JOHN JUHREND