APPENDIX D

PHASE I/II ENVIRONMENTAL SITE ASSESSMENTS, SOIL AND GROUNDWATER ASSESSMENTS, AND GEOTECHNICAL INVESTIGATION



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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, California

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Phase VII Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Drive Los Angeles, California

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EXECUTIVE SUMMARY

ARCADIS G&M, Inc. (ARCADIS G&M) has performed and documented a Phase I Environmental Site Assessment (Phase I ESA) and completed a limited Phase II subsurface investigation of the BAE SYSTEMS Facility located at 3171 South Bundy Drive, Los Angeles, Los Angeles County, California (the "subject property"). The Phase I ESA was conducted in accordance with the scope and limitations of American Society of Testing and Materials (ASTM) Standard E 1527-00. The limited Phase II subsurface investigation was performed using industry standards for subsurface investigations.

The subject property consists of one parcel of land that is owned by BAE SYSTEMS. The subject property consists of two large parking lots and five buildings. The subject property was developed from vacant land beginning in approximately 1952 and expanded in the 1960's through 1980. Activities associated with the manufacturing of electronic control systems for the aerospace industry are performed at the subject property. Manufacturing operations currently and have consistently occurred in Building 1. Several listed wastes or characteristic hazardous wastes are generated and temporarily stored on the subject property, and BAE SYSTEMS has a United States Environmental Protection Agency (USEPA) ID number (CAD008285736). Hazardous materials are used throughout Building 1 of the subject property and they are currently stored in the hazardous materials storage area on the neighboring Santa Monica property (Figure 2). The printed circuit board cleaning area is aboveground and discharges the wastewater through aboveground piping to the on-subject property wastewater treatment plant (WWTP). Based on the results of the Phase I ESA, eight areas of potential environmental concern were identified and were further investigated by ARCADIS G&M. These areas include the following:

- The former hazardous waste storage yard;
- The former paint storage area;
- The current satellite hazardous waste storage yard;
- The paint booths;
- The plating area;
- The WWTP clarifier;
- The former clarifier; and
- The northern property boundary where a former UST was present on the adjacent property.

In addition, based on the age of the buildings, asbestos containing materials (ACM) may be present.

Although there are no indications or records of a chemical release to the subsurface, ARCADIS G&M conducted a limited Phase II subsurface investigation to determine whether there have been releases of chemicals in the eight areas of potential environmental concern. Based on the results of the investigation, this assessment found evidence of minor contamination in connection with the site at the following areas:

- The former hazardous waste storage yard;
- The former paint storage area;
- The current satellite hazardous waste storage yard;
- The paint booths;
- The plating area; and
- The WWTP clarifier.

However, the concentrations of detected volatile organic compounds (VOCs) [acetone, 1,1-dichloroethane 1,1-dichloroethene (DCE), cis-1, 2 DCE, trans-1, 2 DCE, ethylbenzene, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, and p/m/o xylenes] are significantly below any current regulatory based criteria and all metal concentrations are similar to background concentrations found in the State of California. In our professional opinion, no further investigation or remediation is warranted at the site.

In addition, to verify the presence of ACM, ARCADIS G&M conducted a limited ACM survey in the buildings. ARCADIS G&M notes that ACM is present in the buildings. Any building renovation or demolition should follow applicable asbestos abatement regulations.

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1. Introduction

This report presents the results of a Phase I Environmental Site Assessment (ESA) conducted for BAE SYSTEMS (BAE SYSTEMS), for the site located in Los Angeles, California. The address for the subject property is 3171 South Bundy Drive, Los Angeles, California (subject property) (Figure 1). Limitations to this ESA are presented in Section 1.3. Qualifications of the environmental professionals who completed this Phase I ESA are presented in Appendix A. The Phase I ESA was performed in general accordance with the standards described in ASTM Standard E 1527-00, Standard Practice for Environmental Site Assessments: Phase I ENA and Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (2000), and written authorization between BAE SYSTEMS and ARCADIS G&M, Inc. (ARCADIS G&M) dated February 23rd, 2001. In addition to the ESA, a limited Phase II subsurface investigation was conducted at the subject property. The ESA is addressed in Sections 1.0-6.0 of this document. The results of the limited Phase II subsurface investigation are provided in Section 7.0.

1.1 Purpose

The purpose of the ESA was to assess the presence, to the extent practical, of all recognized environmental conditions (RECs) and historical recognized environmental conditions (HRECs) located in, under, or originating from the subject property in support of a potential acquisition of the subject property. A REC is defined by ASTM Standard E 1527-00 as:

The presence or likely presence, of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimums are not recognized environmental conditions.

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A HREC is defined ASTM Standard E 1527-00 as:

An environmental condition that in the past would have been considered a REC, but which may or may not be considered a REC currently.

In general, an ASTM Standard E1527-00 Phase I consists of a site description, historical information and records review, including aerial photographs and topographic maps, site reconnaissance and interviews, and report generation.

1.2 Methodology Used

The methodology employed to achieve the above-referenced objective of this ESA was as follows:

- Document the purpose, methodology, limitations, and any limiting conditions uncovered while conducting the ESA.
- Provide a site description of the subject property, including its location; legal description (if provided); site and vicinity characteristics; a description of structures, roads, and other improvements of the subject property (including the heating/cooling system, sewage disposal, source of electrical power, and source of potable water); current uses of the subject property; past uses of the subject property (to the extent identified); and a description of adjoining properties.
- Conduct 1) a records review that includes standard federal and state environmental record sources to determine whether the subject property or facilities in the vicinity of the subject property have been subject to any environmental actions or review;
 2) review the physical setting of the subject property (geographic setting and physiography of the subject property and surrounding area); and 3) review historical use information, as available, from one or more of the following sources:
 a) aerial photographs, b) Sanborn[™] fire insurance maps, and/or c) other land-use documents, to identify past operations or activities which may have caused adverse environmental impacts to the subject property.
- Collect information from the site reconnaissance and interviews, including the identification of hazardous substances in connection with identified uses (including the storage, handling, and disposal practices), identification of any storage tanks (including contents and assessment of leakage or potential for leakage); indications

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of polychlorinated biphenyls (PCBs); indications of solid waste disposal; and any other conditions of concern.

- Document all findings, opinions, and conclusions.

- Provide all applicable references and the signatures and qualifications of the environmental professionals participating in the ESA.
- Support findings and conclusions with documentation provided in various appendices.

1.3 Limitations and Exceptions of Assessment

The evaluations and recommendations presented in this ESA are based exclusively on examination of selected maps, aerial photographs, and environmental records; on information gained during interviews; review of available reports; and on observations made during the reconnaissance of the subject property. In preparing this report, ARCADIS G&M has assumed the information provided in reports and during interviews is correct. ARCADIS G&M warrants that the services performed were conducted in a competent and professional manner in accordance with sound consulting practices and procedures. ARCADIS G&M cannot warrant the actual property conditions described in this report beyond matters amenable to visual confirmation and analytical data within the limits of this ESA.

There are no third party rights or benefits conferred under this ESA report. Use of this report is strictly limited to BAE SYSTEMS and its lenders. These parties are the sole parties to whom ARCADIS G&M intends to confer any rights. Any reliance on the contents of this ESA report by any other party is the sole responsibility of the party.

2. Site Description

As part of the Phase I ESA, ARCADIS G&M conducted a review of the physical setting, local utility connections, surrounding land use, and regional geologic setting of the subject property. The information presented in this section was obtained by ARCADIS G&M from observations made during the visual site inspection, information provided by BAE SYSTEMS, and from published information obtained in connection with this ESA.

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2.1 Location

The subject property is located in Los Angeles, California (Figure 1) at 34° 0' 56.2" North Latitude and 118° 26' 42.4" West Longitude (Environmental Data Resources, Inc. [EDR] 2001). Based on the USGS 7½-Minute Topographic Series, Beverly Hills Quadrangle Map, dated 1966 (photorevised 1994), the subject property is located in Section 4, Township 2 South, Range 15 West. The subject property is located south of the 10 Freeway, along Bundy Drive near Santa Monica Airport within a commercialindustrial-residential area in Los Angeles (Figure 1).

2.2 General Site Configuration

The subject property, which covers approximately 250,000 square feet, consists of two paved parking lots and four buildings (Figure 2). Access to the subject property is via two driveways off of Airport Road. Assessor's Parcel Number (APN) for the subject property is 4247-001-030.

The four buildings were constructed between approximately 1951 and 1980. The following provides a summary of each building:

Building 1 – Single-story building (approximately 84,000 square feet) constructed between approximately 1952 and 1956. Contains printed circuit board electronics assembly area, cafeteria, engineering labs, and office space;

Building 3 – 2-story building (approximately 10,000 square feet) constructed in 1963. Contains office space and engineering labs;

Building 4 – 4 story building (approximately 25,000 square feet) constructed in 1980. Contains office space;

Building 5 – 4 story building (approximately 32,000 square feet) constructed in 1963. Contains office space;

The city limits between Santa Monica and Los Angeles exists at the northern property boundary. The facility also currently leases an adjacent property to the north, which will be herein called the "Santa Monica" property, while the subject property will be called the "Los Angeles" property.

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2.3 Surrounding Grounds

The grounds of the subject property are mostly covered by asphalt and concrete surfaces including either the buildings or the parking/driveway and sidewalk areas. Housekeeping on the subject property was observed to be good. Very minor staining was noted on the subject property in the parking areas, and this was limited to asphalt and concrete surfaces. The asphalt parking areas contain a significant number of cracks in various directions.

2.4 Physical Setting

This section provides a review of the regional environmental setting of the subject property, and includes a review of surface water, regional geology and hydrogeology.

2.4.1 Site Topography and Surface Slope

Based on a review of the United States Geological Survey (USGS) 7¹/₂-Minute Topographic Series, Beverly Hills Quadrangle Map (USGS 1994), the subject property lies relatively flat at an elevation of approximately 140 feet above mean sea level (msl). The topography of the subject property slopes slightly towards the west. There are no exposures of soil at the subject property.

2.4.2: Proximity to Surface Water Bodies

No wetland areas were observed adjacent to the subject property. No surface water bodies were observed near the subject property (USGS 1994).

2.4.3 Site Geology

The subject property is located in the northwestern portion of the Los Angeles Basin, approximately seven miles south of the Santa Monica Mountains. The subject property is underlain by faulted Tertiary and Pleistocene age sediment. Recent alluvium composed of fine to medium sands, silt, and clay compose the near surface soil. The Charnock Fault and the Newport-Inglewood Fault Zone are located approximately ¹/₂-mile and 4-miles east of the subject property, respectively.

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2.4.4 Hydrogeologic Conditions

The subject property lies within the Santa Monica Ground Water Basin. Based on California Department of Water Resources (DWR) Bulletin 104, the first aquifer in the vicinity of the subject property is the Ballona Aquifer (DWR 1961). Water level data needed to assess groundwater depth and flow direction beneath the subject property is not available. However, ARCADIS G&M completed a file review for the nearby Santa Monica residential property and determined that first groundwater is present at a depth of approximately 65 feet below ground surface (bgs) and flows in a southeasterly direction. A perched water-bearing zone was reported at approximately 39 feet bgs at the nearby Santa Monica Airport property, however the areal extent of the perched water-bearing zone was limited. Based on the results of the limited Phase II subsurface investigation performed by ARCADIS G&M (Section 7.0) groundwater was not encountered on the subject property to a depth of 50 feet bgs. No municipal wells were identified by EDR within a 1-mile radius of the subject property or observed during the site reconnaissance on the subject property (Appendix D).

3. Historical Information and Records Review

Several sources were reviewed as part of the background research for development of this ESA report. Sources were reviewed to develop an understanding of current and past land uses and practices that may have involved the handling, use, storage, and/or disposal of hazardous substances or wastes. Subject property information and historical information are provided in the sections below.

The historical information obtained for this ESA included the following:

- The review of seven aerial photographs and six historical topographic maps;
- The review of historical city directories; and
- The EDR database record review that consisted of a search of federal, state, and local environmental databases;

3.1 Site and Vicinity History

As part of the aerial photograph review, seven historical aerial photographs were provided by EDR. A copy of the EDR aerial photographs is provided in Appendix B. The following provides a summary of the aerial photograph review:

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 EDR, 1"=500', 1928 – The subject property is vacant and appears to be used for agricultural purposes. The surrounding area is relatively undeveloped;

- EDR, 1"=666', 1947 This aerial photograph is similar to the 1928 aerial photograph. The subject property continues to be undeveloped. The Santa Monica Airport is present north of the subject property. Residential development is occurring in the vicinity of the subject property;
- EDR, 1"=555', 1952 This aerial photograph is similar to the 1947 aerial photograph. The subject property continues to be undeveloped. Development has occurred on the adjacent property to the north. Residential development continues to occur in the vicinity of the subject property;
- EDR, 1"=600', 1966 Buildings 1, 3, and 5 are present in this aerial photograph. Residential development appears to be complete in the vicinity of the subject property;
- EDR, 1"=666', 1976 This aerial photograph is similar to the 1966 aerial photograph;
- EDR, 1"=666', 1989 Building 4 has been constructed and the photograph generally depicts current subject property conditions; and

 EDR, 1"=666', 1994 – This aerial photograph is similar to the 1989 aerial photograph.

As part of the historical topographic map review, six historical topographic maps provided by EDR were reviewed. A copy of these topographic maps is provided in Appendix C. Our review of the historical topographic maps confirmed the results of the aerial photo review in relation to the presence of on-site and nearby features since at least 1928. The following provides a summary of the historical topographic map review:

- Topographic Map, 1898, USGS, Santa Monica, California, 1:62,500
- Topographic Map, 1950, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1966, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1972, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1981, USGS, Beverly Hills, California, 1:24,000

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Topographic Map, 1994, USGS, Beverly Hills, California, 1:24,000

A review of historical documentation indicates that there is no evidence of site activities that might have caused any environmental impact to the subject property. A review of the historical aerial photographs and topographic maps did not indicate evidence of a REC at the subject property.

3.2 Environmental Record Review

A search of selected government databases was conducted by ARCADIS G&M using EDR to identify any hazardous/solid waste disposal sites, registered USTs, reported leaking USTs, hazardous material users, and hazardous material generators. The EDR report did identify the subject property on the FINDS, RCRIS, and HAZNET databases. These databases are generally associated with the storage and/or use of hazardous materials on-site and are not associated with the release of hazardous materials to the subsurface. Three nearby sites were identified (two Santa Monica Airport sites and a Shell Oil Co. site) that may pose an environmental concern for the subject property. EDR reports that groundwater at these properties is contaminated. A copy of the EDR report is included as Appendix D.

A review of the EDR map findings and database search has revealed that there are no RECs associated with the subject property. However, the reported groundwater contamination at the Santa Monica Airport may be a concern.

3.3 City Directory Abstract Review

EDR, at the direction of ARCADIS G&M, conducted a review of City Cross Reference directories to assist in identifying any facilities that may have occupied the subject property which have had the potential to contribute to, or create, recognized environmental conditions. City Directory coverage was available for the subject property from 1963 through 1998. A copy of the EDR City Directory document is included in Appendix E.

A review of the EDR-City Directory Abstract reveals the following information:

 Prior Use ReportTM Timeline shows Lear Siegler Inc. listed at the subject property in 1963 and 1968. No other companies were listed at the subject property address.

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 Gasoline service stations were present at nearby 2876 and 3010 South Bundy Drive since 1963. A variety of businesses were listed at 3030 South Bundy Avenue since 1973.

No other listings were provided in the City Directory Search.

A review of the EDR City Directory Search has revealed that there are no RECs associated with the subject property.

3.4 Sanborn Maps

Sanborn[™] Maps were not available for the subject property.

3.5 Ownership History

No chain-of-title search was conducted as part of this assessment.

3.6 File Review

At the request of BAE SYSTEMS, ARCADIS G&M reviewed environmental files associated with the nearby Santa Monica Airport and Shell Oil Co. as discussed in Section 3.2 The Los Angeles Regional Water Quality Control Board (LARWQCB) provided files for two of the sites with groundwater and soil releases: The Santa Monica Municipal Airport Administration Building and the Santa Monica Residual Property. The LARWQCB did not have a file for the Shell site. The following sections provide a summary of the data reviewed.

3.6.1 Santa Monica Municipal Airport Administrative Building

3.6.1.1 Groundwater

The Santa Monica Municipal Airport Administrative Building is located northeast of the subject property at 3223 Donald Douglas Loop South, Santa Monica, California. Groundwater is impacted with total petroleum hydrocarbons (TPH) as phase-separated hydrocarbons (PSH) and dissolved phase hydrocarbons (benzene, toluene, ethylbenzene, and xylenes (BTEX). The lateral extent of groundwater impact has been delineated and according to the most recent report, the impact has not migratedbeneath the subject property. According to Lindmark Engineering Inc. (Lindmark), depth to groundwater ranges from approximately 130 feet bgs to 155 feet bgs and flows in a

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southeasterly direction (Lindmark 1992). The PSH was discovered in a perched waterbearing zone at a depth of approximately 39 feet bgs. The areal extent of the perched water-bearing zone is limited (Lindmark 1992). The City of Santa Monica has been identified as the responsible party for this release. No other information was available.

3.6.1.2 Soil

Soil impacted with petroleum hydrocarbons was present in the subsurface. A soil vapor extraction (SVE) system was installed and operated between July 1996 and July 1997. Following SVE system shutdown, a human health risk assessment (HHRA) was performed and site closure with no further action was recommended based on the results of the HHRA (Converse 1998). No other information was available.

3.6.2 Santa Monica Residual Property

3.6.2.1 Groundwater

The Santa Monica Residual Property is located southeast of the subject property at 3000 Airport Avenue, Santa Monica, California. Depth to water in the deep aquifer ranges between 109 and 112 feet bgs and groundwater flows in a southeasterly direction. Approximately 0.5 feet of PSH is present on the deep aquifer. The depth to water in the shallow aquifer ranges from approximately 64 to 66 feet bgs and flows predominantly south. Approximately 1.0 feet of PSH is present on the shallow aquifer. The downgradient wells do not contain detectable concentrations of petroleum hydrocarbons and volatile organic compounds (VOCs) (Arthur D. Little 2000). Based on the data provided, impacted groundwater does not appear to be migrating under the subject property. The City of Santa Monica has been identified as the responsible party for this release. No other information was available.

3.6.2.2 Soil

Soil impacted with petroleum hydrocarbons was present in the subsurface. The reported concentrations exceeded Los Angeles County Action Levels. Test results also indicated the presence of 2-butanone for which no action limit was established. However, concentrations for 2-butanone were relatively low and not considered to affect the environmental suitability of the site (Earth 1988). No other information was available.

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3.7 Previous Investigations

No previous subsurface investigations have been conducted at the subject property. Environ Corp. conducted a compliance audit at the subject property in 1995 (Environ 1995). There were no adverse findings from this investigation.

4. Site Reconnaissance and Interviews

A site inspection was conducted on April 19th, 2001. A general description of the subject property and neighboring properties is presented in the following sections.

Summarized below are observations relative to specific physical features.

Physical Feature	Observations
Foundations of former structures	None observed during the site inspection.
Odors	None were noted during the site inspection.
Pools of liquid	None observed during the site inspection.
Electrical or hydraulic equipment known or likely to contain PCBs	None observed during the site inspection.
Unidentified substance containers (including empty drum storage)	None were noted during the site inspection.
Stained soil and pavement, corrosion, and degradation of floors and walls	None observed during the site inspection.
Pits, ponds, and lagoons	None were noted during the site inspection.
Stressed vegetation (from other than insufficient water)	None were noted during the site inspection.
Wells (including dry wells, irrigation wells,	None were noted during the site
injection wells)	inspection.
Septic systems	None were noted during the site inspection.

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Photographic documentation of conditions observed on the property is referenced in this report and included in Appendix F.

4.1 Interviews

Mr. James Bright and Mr. Richard Spalding representing BAE SYSTEMS were available for the interview. Mr. Reinhard Ruhmke representing ARCADIS G&M conducted the interview and site inspection.

4.2 Current Use of Subject Property

This section presents of brief summary of the current uses of the subject property.

4.2.1 Operations

BAE SYSTEMS currently manufactures primarily electronic control systems for the aerospace industry. Other than removing, relocating or upgrading some of the manufacturing processes as necessary, historical operations have not changed significantly from the current manufacturing process. A facility map, which shows the different manufacturing areas, is provided in Figure 2. Several listed wastes or characteristic hazardous wastes are generated and temporarily stored on the subject property, and BAE SYSTEMS has a United States Environmental Protection Agency (USEPA) ID number (CAD008285736). Hazardous materials are used throughout Building 1 of the subject property and they are currently stored in the hazardous materials storage area on the Santa Monica property (Figure 2).

Manufacturing operations have consistently occurred in Building 1 (Figure 2). Activities associated with the manufacturing operations that may impact the subsurface include the paint booths and plating areas (Figure 2). The printed circuit board cleaning area is aboveground and discharges the wastewater through aboveground piping to the WWTP (Figure 2). The paint booths were recently renovated due to corrosion problems (Environ 1995).

The following is a list of the chemicals most frequently used at the facility based on hazardous waste manifests:

1,1,1-Trichloroethane (discontinued in 1995); Methyl Ethyl Ketone (MEK); Prozone Solvent;

Lead solder; Toluene; Xylenes; Isopropyl Alcohol; Chromic Acid (Hexavalent Chromium);

4.2.2 Waste Disposal

The subject property uses the on-site WWTP for treatment of the wastewater prior to discharge to the Los Angeles County Sanitation District under an active waste discharge permit. The WWTP contains an evaporator and a 4-stage clarifier. Various Notice-of-Violations (NOVs) for exceedence of allowable concentrations of metals and solvents were reported by BAE SYSTEMS. Most of the NOVs were reported in 1994 and 1995 with two occurring within the past year (dates unknown). Subsequent to the NOVs, additional water treatment equipment was installed at the WWTP and the inside of the clarifier was covered with an epoxy sealant material. Another clarifier was present outside the southeast portion of Building 1. There was no information available regarding its history with the exception that it was backfilled with gravel and concrete by BAE SYSTEMS in approximately 1994.

The subject property also disposes of hazardous waste generated during facility operations. The main hazardous wastes disposed of or recycled at off-site facilities permitted to accept the wastes include metals (including lead and hexavalent chromium), MEK, 1,1,1-trichloroethane (prior to 1995), xylenes, toluene, and isopropyl alcohol. Currently the hazardous waste is stored on the Santa Monica property (Figure 2). Historically, prior to 1992, the hazardous waste was stored in the southwest portion of the subject property. A satellite hazardous waste storage area and former paint storage area were also located on the south side of Building 1 (Figure 2).

4.3 Utilities

The subject property is provided with commercial and/or municipal utility services including natural gas, potable water, combined storm and sanitary sewer services, and electricity.

No septic systems, water supply wells, or injection wells are known to exist at the subject property, either formerly or currently, and evidence of such systems was not observed during the site inspection.

Three pole-mounted transformers were observed outdoors on the southeast portion of the subject property. According to Mr. Spalding, these units are owned and maintained

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by the Los Angeles Department of Water and Power (LADWP) and are not the responsibility of BAE SYSTEMS. In addition, the units appeared to be in good condition with no signs of leaks or staining.

The facility does generate process wastewater in the course of daily operations, and the Los Angeles City Public Works Department has issued the facility a formal permit to discharge. Storm water runoff from the subject property is conveyed to the west portion of the subject property where it leaves the subject property. No storm water holding capacity is known to exist on the subject property.

4.3.1 Vicinity

At the time of the site inspection by ARCADIS G&M in April 2001, surrounding land uses were observed to be residential and commercial. In general, adjoining land uses are as follows.

North:	A property currently leased by BAE SYSTEMS bounds the subject property to the north. The Santa Monica Airport is located across Airport Drive.
East:	Bundy Drive and residential property bounds the subject property to the east.

South: Residential property bounds the subject property to the south.

West: Residential property bounds the subject property to the west.

4.4 Radon Gas

According to the USEPA in the National Radon Database (as reported by EDR), the average radon gas concentration measured at locations within the same postal zip code as the subject property is less than 0.711 picocuries per liter (pCi/L) on 1st floor of dwellings. While there is currently no occupational safety guideline for radon gas exposure in the work place, the USEPA safety guideline for radon levels for residential properties is 4.0 pCi/L.

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4.5 Fuel and Chemical Storage

No evidence of any existing USTs, including fill pipes, vent pipes, manways or other typical UST appurtenances were noted during the subject property inspection. As discussed previously, there are three areas on-site where hazardous wastes are or were stored. These areas include the former hazardous waste storage area, former paint storage area, and current satellite hazardous waste storage area (Figure 2). Most of these materials were stored in vendor-supplied containers. The floor of the former waste storage area is bermed and has a minimum of 6 inches of concrete. The former paint storage area and current satellite hazardous waste storage area are covered with asphalt. All materials are currently stored in areas with secondary containment.

Mr. Spalding stated that a UST was formerly located on the neighboring property to the north and that it was removed during the late 1970's (Figure 2). No additional information was available regarding this UST. Based on the results of the soil gas survey completed by ARCADIS G&M (Section 7.0), there does not appear to be a release from the former UST that has impacted the subject property (Section 7.8.1).

4.6 Asbestos

Hygienetics Environmental Services, Inc. (Hygienetics) conducted a limited asbestos survey on April 19th, 2001. The purpose of the survey was to identify, locate, and quantify accessible asbestos-containing material (ACM) within the four buildings (Buildings 1, 3, 4, and 5). The survey was limited to friable and damaged non-friable materials. A California Accredited Asbestos Consultant performed the survey. A copy of the asbestos report is provided in Appendix G.

Based on the results of the survey, ACM is present in the acoustic ceiling materials, floor tile mastic, and most floor tiles. Although, samples were not collected from roofing materials, based on the age of the buildings, ACM is likely present in this area also.

Accordingly, prior to any building renovation or demolition, ACM must be removed and properly disposed in accordance with applicable regulations by a licensed and registered asbestos abatement contractor. Also, additional destructive sampling for ACM would likely be required to verify the presence of ACM in areas not accessible during this survey.

The friable acoustic ceiling material was in fair to good condition. If building renovation or demolition is not proposed in the near future, these materials can be effectively managed through a facility asbestos operations and maintenance (O&M) program.

4.7 Historical Use of Subject Property

According to Mr. Bright and Mr. Spalding, Lear has owned the subject property since approximately 1936 and the first building (Building 1) was constructed in the early 1950's. It was reported that the City of Santa Monica and the Navy conducted operations on a portion of the subject property (Environ 1995). However, based on a review of aerial photographs, these operations appear to have been conducted on the leased Santa Monica property not the Los Angeles property. There is no recollection of USTs ever being used on the subject property.

5. Findings

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Based on information gathered during the ESA by ARCADIS G&M, the following findings are presented:

- No USTs were or are located on the subject property. A former UST may have been located near the northern property boundary of the subject property (Figure 2).
- Groundwater was not encountered to a depth of 50 feet bgs. Based on a review of files, depth to the shallow aquifer is approximately 65 feet bgs and groundwater flows in a southerly direction. Depth to groundwater and groundwater flow direction beneath the subject property is unknown. However, it is likely similar to the nearby Santa Monica Airport sites.
- One current (satellite waste storage area) and two former chemical storage areas (former waste storage area and former waste paint storage area) were observed on the subject property (Figure 2).
- The facility manufactures electronic control systems.
- The facility has a WWTP with a 4-stage clarifier. Various NOVs were reported by BAE SYSTEMS for exceedance of allowable discharge of metals and solvents in the wastewater.

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 A former clarifier is present near the southeast corner of Building 1. No information is available regarding the history of this former clarifier.

- There is a plating area and two paint booths in Building 1.

 No spills, stained vegetation, or heavily stained asphalt or concrete were observed.

The buildings were constructed between 1951 and 1980.

ACM is present in the buildings.

6. Opinions

Based on information gathered during the ESA by ARCADIS G&M, the following opinions are presented:

- Based on the age of the buildings and the results of the limited sampling, ACM is present and should be appropriately abated prior to any building renovation or demolition.
- There are two reported off-site releases to groundwater in the vicinity of the subject property. However, based on available data, contaminated groundwater originating from these sites does not appear to be migrating beneath the subject property. The responsible parties for the identified groundwater impacts have been identified.
- Based on the data provided, there are eight areas of potential concern where releases of chemicals to the subsurface may have occurred although there are no indications or records of a chemical release. These areas are:
 - 1. The former hazardous waste storage yard;
 - 2. The former paint storage area;
 - 3. The current satellite hazardous waste storage yard;
 - 4. The paint booths;

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- 5. The plating area;
- 6. The WWTP clarifier;
- 7. The former clarifier; and
- 8. The northern property boundary where the former UST was present on the adjacent property.

7. Phase II Subsurface Investigation

At the request of BAE SYSTEMS, ARCADIS G&M also conducted a limited Phase II subsurface investigation at the areas of potential environmental concern identified in Section 6.0. The objective of the limited Phase II investigation was to determine whether releases to the subsurface had occurred in the areas of potential concern identified in Section 6.0. The eight areas of potential concern are identified as the following:

- 1. The former hazardous waste storage yard;
- 2. The former paint storage area;
- 3. The current satellite hazardous waste storage yard;
- 4. The paint booths;
- 5. The plating area;
- 6. The WWTP clarifier;
- 7. The former clarifier; and
- 8. The northern property boundary where the former UST was present on the adjacent property.

This section describes methods and results of the soil and soil-gas sampling program. Sampling activities were conducted between May 11th and June 3rd, 2001, and consisted of sampling 17 on-site locations and four off-site background locations for soil and 26 onsite locations for soil-gas.

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7.1 **Utility Clearance**

Prior to commencement of field activities, Underground Services Alert (USA) was notified of our intent to conduct subsurface investigations at least 48 hours prior to initiation of intrusive field tasks. USA contacted all utility owners of record within the site vicinity and notified them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation. In addition, all on-site locations were cleared for underground structures using a utility locating company.

Site Soil Sampling Procedures 7.2

ARCADIS G&M developed the following scope of work to complete the objectives outlined in Section 7.0. The scope of work performed included performing limited subsurface investigations in the vicinity of areas of potential environmental concern identified during the ESA (Section 6.0) (Figure 2). The investigation methods included conducting a soil-gas survey, and installing soil borings and collecting soil samples for possible laboratory analysis. ARCADIS G&M personnel, working under the supervision of a California Registered Geologist, directed all of the activities. All work was performed under a Site-Specific Health and Safety Plan (HASP) prepared by ARCADIS G&M. A summary of the methodologies used during this investigation is provided below, and a detailed description of field methodologies is provided in Appendix H. The methodology for the initial soil-gas survey is provided in the Environmental Science Technologies, Inc. (EST) Report (Appendix I). The rationale for locating the soil borings and soil-gas probes is provided below:

Soil-gas/Boring No.

Rationale:

SG-1-SG-12

SG-13 and SG-14

SG-15 - SG-18

Determine whether VOC impact is present in the vicinity of the former hazardous waste storage area

Determine whether VOC impact is present beneath the storm water drainage channel in the vicinity of the former hazardous waste storage area.

Determine whether VOC impact is present in the vicinity of former paint storage area, current

SG-19 and SG-20

SG-21 - SG-26

SB-1

SB-2

SB-4

SB-5

SB-3, 3A, 3B

SB-6 and SB-7

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satellite waste storage area, paint booths, and WWTP.

Determine whether VOC impact is present in the vicinity of the former clarifier.

Determine whether VOC impacts are present in the vicinity of the off-site former UST located near the northern property boundary.

Determine whether soil impact is present in the vicinity of the WWTP (clarifier).

Determine whether soil impact is present in the vicinity of the paint booths.

Determine whether soil impact is present in the vicinity of the plating room

Determine whether soil impact is present in the vicinity of former clarifier.

Determine whether soil impact is present in the vicinity of former paint storage area. Location based on soil gas results from SG-7.

Determine whether soil impact is present in the vicinity of former hazardous waste storage area. Locations based on soil gas results from SG-6 and SG-11.

7.3 Soil-Gas Survey and Soil Sampling

In order to determine whether releases to the subsurface had occurred from some of the areas of potential environmental concern previously identified, a focused, limited soil gas survey and initial soil sampling program was completed at the 37 locations depicted on Figure 3. Between May 11th and May 25th, 2001, a representative from ARCADIS G&M was on-site to oversee the installation of 26 shallow (less than 5 feet bgs) soilgas probes (SG-1 through SG-26), and eleven soil borings (SB-1 through SB-7 and BG-through BG-4) by EST (Newport Beach, California) (Figure 3). The soil borings were installed using direct-push drilling methodology. Soil samples were collected from each borehole by an ARCADIS G&M geologist for potential laboratory analysis. Selected soil samples were analyzed for VOCs, hexavalent chromium, and CAM-17 Metals. The VOCs were extracted in the field using EPA Method 5035. The soil-gas samples were

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analyzed in the field for Total Volatile Petroleum Hydrocarbons (TVPH) and VOCs using a mobile laboratory provided by EST equipped with a Varian-3400 GC configured with a photo-ionization detector (PID) and an electrolytic conductivity detector (ELCD) placed in series. The soil gas survey was performed in general accordance with the LARWQCB protocols dated February 25, 1997. Soil-gas sampling methodology is provided in the EST report located in Appendix I.

Based on the results of the initial soil sampling, ARCADIS G&M returned to the subject property on June 3rd, 2001 to continue soil boring SB-3 to further vertically delineate subsurface impact (hexavalent chromium) detected near the plating shop. The boring was drilled by Cascade Environmental Services (Cascade) using a hollow-stem auger drill rig to a final depth of 50 feet bgs. Soil samples were collected from the borehole by an ARCADIS G&M geologist for potential laboratory analysis. Selected soil samples were analyzed for hexavalent chromium.

The soil samples were labeled, custody sealed, entered into chain-of-custody, placed in an ice-chilled cooler, and delivered to a state-certified laboratory. The soil was fieldscreened for organic vapors using a PID and was characterized according to the Unified Soil Classification System (Howard 1986). Elevated organic vapor readings above background levels were not encountered during field sampling activities. The field geologist recorded these organic vapor readings and soil characterization in field notes.

7.4 Background Soil Sampling Procedures

Background soil borings (BG-1 through BG-4) were installed at the perimeter of the subject property (Figure 3). Samples were collected at one and five feet bgs and placed into laboratory provided containers. Soil samples were then, labeled, custody sealed, entered into chain-of-custody, placed in an ice-chilled cooler, and delivered to a state certified laboratory. All background samples were analyzed for CAM metals using USEPA Method 6010B/7471A.

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7.5 Decontamination Procedures

All equipment that came into contact with the soil was decontaminated consistently to assure the quality of samples collected. Decontamination was conducted prior to and after each use of a piece of equipment. All sampling devices used (stainless-steel hand auger buckets) were decontaminated using the following procedures:

Non-phosphate detergent and distilled water wash, using a brush;

Initial deionized/distilled water rinse; and

Final deionized/distilled water rinse.

7.6 Investigative-Derived Waste Management

All soil cuttings and decontamination water was placed onsite in labeled 55-gallon drums. The waste material and water will be properly disposed pending analytical results. Used personal protection equipment (PPE) were placed in a municipal refuse dumpster.

7.7 Locations of Soil Samples

Soil sample locations were measured in the field by ARCADIS G&M personnel. A reference point (i.e. corner of property) was used to measure the approximate location of each soil boring location. The measured locations of each soil sample location are presented on Figure 3.

7.8 Analytical Results

Tabular summaries of analytical results are presented in Tables 1 through 6. Laboratory summary reports are presented in Appendix J.

7.8.1 Soil-Gas

A summary of soil gas results is provided in Table 1. Several VOCs [1,2-trichloroetrifluoroethane, 1,1-dichloroethene (1,1 DCE), cis-1, 2 DCE, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), toluene, tetrachloroethene (PCE), ethylbenzene, and meta, para, and ortho xylenes) were detected in the soil-gas samples. In general, the

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soil gas concentrations were low [less than 100 micrograms per Liter ($\mu g/L$)] in all areas investigated. The highest soil gas concentration (674 $\mu g/L$ of toluene) was detected in SG-6 at 5 feet bgs. This sample was collected from the former hazardous waste storage area. The higher concentrations of soil gas were measured in the former hazardous waste storage area, former paint storage area, satellite waste storage area, and WWTP. Consequently, these areas were included as part of the subsequent soil investigation. Due to the very low (less than 10 $\mu g/L$) concentrations of petroleum hydrocarbon constituents (xylenes, etc.) detected in soil gas samples collected adjacent to the northern property boundary, there does not appear to have been a release from the neighboring property former UST that has impacted the subject property. Consequently, a subsurface soil investigation was not performed in this area.

7.8.2 Soil

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Selected soil samples were analyzed for VOCs by EPA Method 8260C and 5035 extraction, hexavalent chromium by EPA method 7199, and CAM 17 metals by EPA Method 6010/7471. The analytical results of soil analyses are provided in Tables 2 through 4.

7.8.2.1 Volatile Organic Compounds

A summary of detected VOC compounds in soil is provided in Table 2. Some of the VOC analyses were performed in boring installed where concentrations of VOCs in soil gas were the highest. The reported concentrations of detected compounds [acetone, 1,1-dichloroethane (1,1-DCA), 1,1 DCE, cis-1, 2 DCE, trans-1, 2 DCE, ethylbenzene, PCE, 1,1,1-TCA, TCE, and p/m/o xylenes are summarized below:

- A detectable (greater than 1 µg/kg) concentration of acetone was reported in soil samples from borings SB-2, SB-6, and SB-7. The maximum reported concentration was 45 µg/kg at 1 foot bgs in boring SB-7;
- A detectable (greater than 0.5 µg/kg) concentration of 1,1-DCA was reported in a soil sample from boring SB-2. The concentration was 0.9 µg/kg at 5 feet bgs;
- A detectable concentration of 1,1-DCE was reported in soil samples from borings SB-1, SB-2, and SB-6 through SB-7. The maximum reported concentration was 10 µg/kg at 15 feet bgs in boring SB-5;

A detectable concentration of cis 1,2-DCE was reported in a soil sample from boring SB-1. The reported concentration was 12 µg/kg at one-foot bgs;

- A detectable concentration of trans 1,2-DCE was reported in a soil sample from boring SB-1. The reported concentration was 0.89 µg/kg at one-foot bgs;
- A detectable concentration of ethylbenzene was reported in a soil sample from boring SB-1. The reported concentration was 4.6 µg/kg at one-foot bgs;
- A detectable concentration of PCE was reported in soil samples from boring SB-2, SB-6, and SB-7. The maximum reported concentration was 3.8 µg/kg at one-foot bgs in boring SB-6;
- A detectable concentration of 1,1,1-TCA was reported in soil samples from boring SB-2, SB-6, and SB-7. The maximum reported concentration was 5.5 µg/kg at onefoot bgs in boring SB-6;
- A detectable concentration of TCE was reported in soil samples from boring SB-1, SB-2, SB-5, SB-6, and SB-7. The maximum reported concentration was 17 μg/kg at one-foot bgs in boring SB-1;
- A detectable concentration of p/m-xylenes was reported in a soil sample from boring SB-1. The reported concentration was 26 µg/kg at one-foot bgs; and
- A detectable concentration of o-xylenes was reported in a soil sample from boring SB-1. The maximum reported concentration was 13 µg/kg at one-foot bgs.

Based on the data presented, it appears that very low concentrations of VOCs are present in soil beneath the former hazardous waste storage yard, WWTP, and former paint storage area. The maximum vertical extent of VOCs is at approximately 15 feet bgs. The concentrations of VOCs decreased to below laboratory reporting limits below this depth. The detected VOC concentrations are significantly below their respective Preliminary Remediation Goals (PRGs) for industrial properties provided by the USEPA (USEPA 2001). The PRGs for each VOC are also provided in Table 2. In addition, based on groundwater being deeper than 50 feet bgs, the concentrations are not considered a threat to groundwater based on the LARWQCB VOC guidance document (LARWQCB 1996). Thus the detected concentrations are below any current regulatory-based criteria and no additional investigation or remediation is waranted.

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7.8.2.3 Metals

A summary of metals results is provided in Table 3. The following metals were detected at the subject property above reporting limits (the number of detections is indicated in parentheses following each analyte): arsenic (6), barium(13), beryllium (4), total chromium (13), cobalt (13), copper (13), lead (13), mercury (3), molybdenum (3), nickel (13), selenium (2), vanadium (13), and zinc (13). Antimony, cadmium, silver, and thallium were not detected above reporting limits in any samples. Maximum reported concentrations of each detected metal are as follows (the concentration in milligrams per kilogram [mg/kg] is indicated in parentheses following each analyte): arsenic (4.51), barium (86.6), beryllium (0.285), total chromium (14.7), cobalt (8.49), copper (14.2), lead (63.7), mercury (0.221), molybdenum (0.629), nickel (15.5), selenium (1.44), vanadium (32.8), and zinc (42.4). As mentioned above, eight background samples were collected. The ranged of detected background metals are summarized below.

- Antimony background concentrations were below laboratory reporting limits (ND) of 0.25 mg/kg;
- Arsenic background concentrations were ND (<0.25 mg/kg);
- Barium background concentrations ranged from 39.5 to 92 mg/kg;
- Beryllium background concentrations ranged from 0.125 to 0.363 mg/kg;
- Cadmium background concentrations were ND (<0.25 mg/kg);
- Total chromium background concentrations ranged from 9.44 to 18.6 mg/kg;
- Cobalt background concentrations ranged from 3.74 to 8.49 mg/kg;
- Copper background concentrations ranged from 3.83 to 10.6 mg/kg;
- Lead background concentrations ranged from 3.76 to 6.25 mg/kg;
- Mercury background concentrations ranged from ND (< 0.04175 mg/kg) to 0.119 mg/kg;
- Molybdenum background concentrations were ND (<0.25 mg/kg);
- Nickel background concentrations ranged from 6.49 to 12.1 mg/kg;
- Selenium background concentrations ranged from ND (< 0.375 mg/kg) to 0.912 mg/kg;
- Silver background concentrations were ND (< 0.25 mg/kg);

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- Thallium background concentrations were ND (< 0.75 mg/kg);
- Vanadium background concentrations ranged from 15.4 to 34 mg/kg; and
- Zinc background concentrations ranged from 7.44 to 27.3 mg/kg.

7.8.2.4 Discussion of Metal Results

The maximum detected concentrations of arsenic, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, and zinc in the soil samples collected on the subject property exceeded the maximum detected concentration of the same metals in the background samples (Table 4). The average concentrations in the soil samples for these metals were then compared to the background samples (Table 5). The site mean concentrations for lead and zinc were slightly greater than the 95% UCL background concentration, but are significantly below USEPA Region IX PRGs for industrial sites. Because arsenic and molybdenum were not detected in the background samples they are carried forward as being a potential chemical of concern and were also compared to USEPA PRGs. For molybdenum the industrial PRG is 10,000 mg/kg and the maximum detected concentration on the subject property was 0.629 mg/kg, significantly below the level of concern.

For arsenic, the maximum detected concentration was 4.51 mg/kg and the 95% UCL concentration was 1.62 mg/kg. The PRG for industrial sites for arsenic is 2.7 mg/kg using a cancer endpoint and 440 mg/kg for a non-cancer endpoint. Background levels in soil across the continental U.S. typically exceed EPA Region IX carcinogenic PRG values. Background levels of arsenic in soil can have both natural and anthropogenic components. Natural background levels are a function of the specific geologic strata being evaluated. Therefore, to "remediate" beyond natural background levels may not be practical where soil depth exceeds the limits of excavation technology. To dispose properly of excavated natural (but "risky") arsenic impacted soil is inappropriate due to the wide variation of natural arsenic background levels across the U.S. Also, it may not be possible to obtain "clean" fill that has arsenic concentrations lower than regional background.

In a study of background concentrations for metals in California soils, arsenic concentrations were found to range from 0.6 mg/kg to 11.0 mg/kg (Kearney 1995). Even the lower ends of the background ranges of arsenic in soil typically exceed USEPA Region IX "risk-based" level of 2.7 mg/kg for industrial soil assuming a cancer endpoint (USEPA 2001). The highest detected concentration of arsenic at the

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subject property does not exceed typical background concentrations for California soils and is most likely naturally occurring.

7.8.2.5 Hexavalent Chromium

A summary of hexavalent chromium concentrations in soil is provided in Table 5. The hexavalent chromium analyses were performed in the worst-case location (Boring SB-3 located next to plating room). A detectable (greater than $40 \mu g/kg$) concentration of hexavalent chromium was reported in soil samples collected at depths of 5, 10, and 13 feet bgs. The maximum reported concentration was 150 $\mu g/kg$ in the 13-foot bgs soil sample.

Based on the data presented, low concentrations of hexavalent chromium are present in the soil in the vicinity of the plating room. The maximum vertical extent of hexavalent chromium is at approximately 13 feet bgs. The concentration of hexavalent chromium decreased to below laboratory reporting limits below this depth. All hexavalent chromium concentrations are significantly below the industrial PRG of 64,000 μ g/kg (USEPA 2001).

7.9 Summary

Based on the results of the limited Phase II subsurface investigation, low concentrations of VOCs and hexavalent chromium are present in the subsurface. The vertical extent of impact is defined to approximately 15 feet bgs. Groundwater was not encountered to a depth of 50 feet bgs, the maximum depth investigated. The reported concentrations of VOCs and hexavalent chromium are below their respective industrial PRGs provided by the USEPA and soil screening criteria provided by the LARWQCB. Thus the detected concentrations are below any current regulatory-based criteria that would warrant additional action, and therefore additional investigation or remediation is not recommended.

8. Recommendations

In conducting the Phase I ESA, ARCADIS G&M identified various areas of potential concerns identified in Section 6.0. The Phase II investigation focused on each of these areas. Based on the results of the Phase II testing (Section 7.0), ARCADIS G&M concludes that there are no reported concentrations of contaminants above current regulatory levels and no further investigation or remediation is warranted.

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In addition, due to the presence of ACM in the buildings, any building renovation or demolition should follow applicable asbestos abatement regulations.

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Appendix A

Environmental Professional Qualifications

Mr. Ruhmke has over 9 years of experience in the environmental field. He has performed and supervised site investigations and cleanups for numerous UST sites. Mr. Ruhmke has performed and analyzed data from numerous aquifer tests and has prepared and implemented remedial action plans for soil and groundwater remediation at UST sites. He is currently the project geologist for a RCRA CMS/CMI project at a former chemical recycling facility which was the first to reach this stage of corrective action within California DTSC Region 4 jurisdiction. Mr. Ruhmke has also managed closure and decommissioning of a chemical processing facility in Southern California.

Investigation/Remediation

Mr. Ruhmke has performed or managed numerous hydrocarbon investigations at a variety of sites involving fuel hydrocarbon and chlorinated hydrocarbon constituents such as gasoline, waste oils, diesel, hydraulic oils, trichloroethylene (TCE), perchloroethylene (PCE), and their respective derivative compounds. Sites have ranged in size from corner gas stations to 5-acre manufacturing facilities. Subsurface investigations have included such intrusive drilling techniques as hollowstem auger, cone penetrometer testing (CPT), air rotary, mud rotary and air percussion. Additional investigative techniques included Hydropunch and SimulprobeTM soil and groundwater sampling, and soil gas surveys with vapor probes typically at depths of 5 to 15 feet below grade and also deep-nested vapor probes (> 25 feet). Techniques he has employed that were non-intrusive include geophysical surveys by ground penetrating radar. Mr. Ruhmke has also performed numerous aquifer tests in both confined and unconfined aquifers. Based on the data gathered, he has calculated aquifer parameters, capture zones and flow rates.

Remediation programs associated with subsurface contamination implemented or managed by Mr. Ruhmke include in-situ vacuum extraction and bioremediation of soils, ex-situ vapor extraction, ex-situ bioremediation, groundwater pump-andtreatment by carbon adsorption and air stripping, air sparging of groundwater and passive groundwater remediation using the BioPlume II modeling program. Mr. Ruhmke has also performed a soil permeability enhancement program for a UST site in Southern California. These investigation and remediation programs have been conducted in Marin, San Francisco, Contra Costa, Alameda, Monterey, Los Angeles, Orange, Riverside, San Bernardino and San Diego counties under the regulatory supervision of local fire departments, county health care agencies, Cal-EPA and regional water quality control boards.

Reinhard Ruhmke

Senior Project Scientist

Education

B.S., Geology, emphasis in Hydrogeology, San Diego State University, 1988

Professional Registrations

Registered Geologist: State of California

Professional Associations

Association of Engineering Geologists

National Groundwater Association

Groundwater Resources Association of Southern California

Reinhard Ruhmke

Senior Project Scientist

RCRA Corrective Action

Mr. Ruhmke has been involved in several RCRA Corrective Action programs which have entailed the preparation of a Interim Corrective Measures (ICM) Workplan, a Corrective Measures Study (CMS) and Corrective Measures Implementation (CMI) at a former chlorinated solvent recycling facility, and participation of four partial closures of ongoing mineral spirits processing and recycling facilities.

Activities for these corrective actions have been performed under the regulatory supervision of the California Department of Toxic Substances Control- Region 3 and Region 4. Studies for remediation at the sites have included vacuum extraction pilot tests, soil washing bench tests, soil hydraulic permeability enhancement tests, and aquifer testing and preparation of feasibility studies.

Site Characterization/Assessment/Remediation

Mr. Ruhmke has managed the closure and decommissioning of a chemical manufacturing facility in Southern California. Activities performed at this site included subsurface investigation using soil/gas survey and hollow-stem auger drilling techniques, wipe sampling, feasibility study for soil remediation and closure negotiations with the regulatory agencies and the buyer of the property. In addition, he has managed the assessment and closure of numerous small manufacturing facilities in Northern California.

CERCLA

Mr. Ruhmke has participated in soil and groundwater investigations for existing and potential CERCLA sites. The work included a regional hydrogeologic assessment, groundwater monitoring well installation, deep nested vapor probe installation and sampling, and report preparation. All work was performed under guidelines prepared by the regional water quality control board - well investigation program (WIP) and was in compliance with the National Contingency Plan (NCP).

Remediation

CMS/CMI

Confidential Client, *Santa Ana* Currently Mr. Ruhmke is the project geologist, project manager for a CMS/CMI project in Santa Ana for the remediation of a chlorinated solvent chemical recycling plant. The site has highly contaminated soils (up to 11,000 ppm of TCE) and DNAPL and contaminated groundwater in multiple water-bearing zones. The soils generally have low permeability, high moisture content, and are very heterogeneous

Reinhard Ruhmke

Senior Project Scientist

throughout the half-acre site. Pilot tests have been performed with mixed results for vapor extraction, permeability enhancement by hydraulic fracturing, and soil washing. A human health risk assessment with remediation goals was also performed. Remedial options were evaluated and a dual phase extraction system was installed.

Subsurface Investigation

Confidential Client, *Irvine* Developed and implemented technical strategies as part of a non-RCRA plant closure for a chemical manufacturing company in Southern California. Activities performed at this site included subsurface investigation using soil/gas survey and hollow-stem auger drilling techniques, wipe sampling, feasibility study for soil remediation, and closure negotiations with the regulatory agencies and the buyer of the property.

Confidential Client, Santa Rosa, CA Participated in the subsurface investigation and hydrogeologic testing portion for an in-situ soil and ground water bioremediation program located in Santa Rosa, California. The contaminants were gasoline and diesel fuels. The scope of work included defining the extent of contamination, aquifer testing and soil treatability studies. Soil tests performed included biotreatability studies where vacuum extraction test was performed in the laboratory to determine whether VES enhances molecular activity in the soil.

Hydrocarbon Investigation/Remediation

Confidential Client

Investigations of Underground Storage Tanks, California. Completed several underground tank projects, ranging from remediation of gasoline-station fuel spills to programs of investigations and cleanup at facilities with multiple leaking solvent storage tanks. Activities included obtaining permits, drilling exploratory borings, soil logging using ASTM-2488, monitoring well installation, soil and water sampling, vapor-probe sampling installation, regulatory-agency contact, project coordination, and report preparation.

Confidential Client

Obtained closure on petroleum fuel UST sites using active remediation techniques such as vapor extraction and excavation with confirmation sampling while others have been closed by agency negotiation and risk assessment which have allowed from 5,000 ppm to 20,000 ppm of diesel contaminants to remain in place. Obtained 'no further action' letters for groundwater remediation for several sites based on agency negotiation and a thorough review of regional groundwater issues and Groundwater Basin Plans prepared by the regional water quality control board(s).

Confidential Client, *Santa Ana* Participated in a soil permeability enhancement program for a UST site in Southern California. The purpose of the program was to fracture the clay soil to enhance removal of free-product from

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Reinhard Ruhmke

Senior Project Scientist

the water-bearing zone and increase air flow through the subsurface.

Confidential Client, *San Leandro* Supervised the excavation and aboveground bioremediation of approximately 2,500 cubic yards of diesel contaminated soil. In addition to soil excavation, approximately 12,000 gallons of free product were removed from the shallow water-bearing zone using pump and treat technology. The level of diesel contaminant in water was reduced to non-detectable levels over a 3-month period, and levels of diesel in the soil were reduced to below allowable levels for use as fill material in 6 months.

Confidential Client, *Santa Fe Springs* Managed the excavation and aboveground treatment of approximately 3,000 cubic yards of diesel contaminated soil. The diesel-contaminated soil was incorporated into an on-site soil treatment unit using asphalt incorporation. Through the use of this remedial technology, approximately 1 acre of the facility, previously covered with dirt, was paved, which increased the efficiency of the truck traffic around the facility.

RCRA Corrective Action

Confidential Client, *Southern California* Performing as a Project Geologist for the investigation of several mineral spirit recycling facilities within the jurisdiction of DTSC Region 3 and Region 4. The investigations are being performed in accordance with the owner's RCRA Part B Permit. Because one of the sites is located within the San Gabriel Valley Superfund site, additional regional hydrogeologic assessment activities were performed. The work included reviewing boring logs of public drinking water wells and preparing region-wide geologic cross-sections.

Site Characterization/ Assessment/Remediation

Confidential Client, *Berkeley* Served as Project Manager for the closure of a small vending machine manufacturing company in Northern California. During the Phase I investigation of the property, it turned out the site used to be a metal reclamation facility and that significant heavy metal contamination existed in the shallow soil. Supervised excavation and disposal of the soil during demolition of the site structures and assisted in the negotiations for closure and ultimate sale of the property.

Confidential Client, *Texas* Participated in an extensive (50 acres) soil/gas survey for an Air Force Base in Texas where air samples were collected in a 100-foot grid pattern. The survey was performed as part of a program to determine the extent of chlorinated solvents in the soil and ground water.

Reinhard Ruhmke

Senior Project Scientist

CERCLA

Confidential Client, Highland

Performed field activities associated with a PRP in the San Gabriel Valley Superfund Site. Field work included: Groundwater monitoring well installation, Deep-nested vapor probe installation and sampling. All work was performed under WIP guidelines and was required to be in compliance with the NCP. In addition, Mr. Ruhmke was task manager for a subsurface investigation in the immediate vicinity of Norton AFB, a CERCLA site, where all work was required to be in compliance with NCP.

Mr. Thomas has over 18 years experience in environmental geology, hydrogeology and construction related projects, including management of assessment, construction and remediation projects. He has extensive experience in characterizing and remediating soil and groundwater contaminated sites, with particular emphasis on sites contaminated with petroleum and chlorinated hydrocarbons. In addition, he is well versed in underground storage tank compliance and closure requirements throughout California and Arizona Mr. Thomas has also provided expert testimony, technical review, and deposition preparation on over 12 separate environmental litigation cases.

Representative Project Experience

Construction Management, FAA UST Upgrade, and Soil Remediation

Won a \$600K multi-site UST upgrade project for the FAA in southern California. The work consisted of management and oversight of construction personnel to upgrade UST's for emergency generator's at several FAA remote radar systems. All installation work and fuel transfers had to be done within strict timeframes and with absolute minimal downtime. Work included removal of contaminated soils and required working in strict security and environmentally sensitive ecological zones.

Groundwater Barrier Project, Major Oil Refinery

Port of Los Angeles

Awarded an \$800K groundwater barrier LNAPL collection project to prevent the migration of LNAPL from a fuel bulk terminal into the harbor. The project consisted of the supervision of shoring installation, soil removal, and bentonite grout emplacement. Work also included the preparation of a detailed hydrogeologic model and installation of a unique LNAPL collection system that would account for tidal influences.

MTBE Remediation, Bulk Fueling Terminal

Using a hi-vacuum pump extraction system in a shallow groundwater environment, Mr. Thomas oversaw the extraction of an estimated 800 gallons of MTBE that leaked from above ground tanks into the groundwater. Initial concentrations ranged from 8million ppb before extraction down to 500, 000 ppb after.

Site Assessments & Subsurface Characterization

Managed or participated in over 500 site assessments in Southern California, Arizona, and Nevada. These sites have included national retail gasoline stations, refineries, ship fueling and bulk storage facilities, agricultural operations, airport terminals, and industrial operations. Responsibilities Kenneth W. P. Thomas, REA

Project Director

Education

B.S., California State University, Long Beach; 1979

M.S., California State University, Los Angeles; 1982 (Coursework completed)

Professional Registrations

Registered Environmental Assessor No.01052

OSHA 40 hour Hazardous Materials Training

Professional Associations Professional Environmental Marketers Association

National Groundwater Association

Association of Hazardous Materials Professionals

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Kenneth W. P. Thomas, REA

Project Director

included direct oversight of all technical, operational, and managerial aspects of the projects as well as acting on the client's behalf during interactions and technical negotiations with various regulatory agencies.

Former Commercial Sanitary Landfill

Carson, California

Manager during the site characterization and remedial design phase of this project. The site was part of a larger parcel of land that was being renovated into a multi-unit development. During construction, a methane abatement and remediation system was installed using thermal destruction technology. The design of the system was engineered to work around constructed buildings to minimize any impacts and aesthetically blend into the surrounding structures. The total design and installation cost for the project was \$300,000.

Removal of Phase-separated Chlorinated Organics & Groundwater Treatment, Circuit Board Manufacturer

San Fernando Valley, California

Using two 1000 cfm airstripping towers and a regenerative carbon system, Mr. Thomas oversaw the remediation of a large phased separated chlorinated spill. This site is located in one of the active Superfund Designated Areas, and involved negotiating all phases of work with the CRWQCB and the EPA. Project costs were in excess of one million dollars with a design and installation cost of \$500,000.

Former Commercial Sanitary Landfill

San Diego, California

Project Director on this project that involved the supervision of a methane abatement project. The project involved the installation of a positive pressure vapor abatement and barrier system. A barrier system made of a 10-ml thick "hytrel" liner was installed underneath each structure. Around the perimeter of each structure, a series of perforated PVC piping was installed and connected to two regenerative blowers, which forced air around the footing of the structures to prevent vapors from accumulating. The facility was designed with green belt areas to allow landfill vapors to naturally discharge into the atmosphere.

Methane Gas Recovery at a Small Abandoned Municipal Landfill

Escondido, California

Oversaw the installation of a methane abatement and recovery system at a small landfill that was being developed into an Auto Dealership. The system included the installation of vapor recovery wells around the perimeter of constructed buildings and a flare unit to burn off accumulated methane. Barrier

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Kenneth W. P. Thomas, REA

Project Director

systems were also installed underneath each building to prevent the accumulation of methane. All work had to be performed during construction of the Dealership.

Expedited Remediation and Emergency Response for a large Transportation Pipeline Company

Long Beach, California

Acting as site response team leader provided oversight on emergency response activities and supervised the removal of 150,000 gallons of gasoline during a pipeline leak for a major pipeline transportation company. The emergency response work cost over \$200,000, with the total project cost reaching \$1 million. The project included performing a fast tract vapor survey, an emergency response product removal program, and design and the installation of a vapor extraction system using thermal oxidation.

Use of a Risk Assessment to Establish Risk Based Cleanup levels at a Pharmaceutical Company

Irvine, California

Project manager of this groundwater pump and treat project. The remediation system, which included airstripping and product removal, had removed 90% of the contaminant, but was at the point of diminishing return. A risk assessment was performed using the risk model "Sesoils" along with the

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dispersion model, AT123. The model showed that due to attenuation and soil/water conditions, higher than approved concentrations could be left in place. This was the first Risk Based Cleanup program to establish cleanup levels approved in Orange County using this approach.

Heavy Metal and PCB Removal at a Large Scrap Metal Recycling Facility

Los Angeles, California

As senior technical advisor provided oversight and technical review of the assessment and removal of soil contaminated with polychlorinated biphenyl's (PCBs), heavy metals, and petroleum hydrocarbons at this large scrap metal facility. To minimize soil removal a risk based environmental assessment was used to establish cleanup levels for the site based on future usage of the site. The success of the project was due to successful negotiation with both local and EPA regulators as no approved cleanup levels existed at that time. All work had to be done during evening hours to minimize impact to the neighborhood. Work was done under level C containment requirements with PCB work performed under level B. The total project cost exceeded \$800,000.

Kenneth W. P. Thomas, REA

Project Director

Environmental Audit at an Electrical Power Plant

Phoenix, Arizona

Provided technical review of a facility compliance audit at an electrical power facility at an Arizona Public Electrical Utility (Branson). The audit consisted of the review of all facility permits, solid waste management units (SWMUs), as well as underground tank fuel systems. Project costs were in excess of \$150,000.

Property Transaction Involving the Survey and Environmental Audit of 350 Service Stations in Southern California

Project director for this project which involved the implementation of a large-scale service station environmental audit and screening program for a California-based oil company in Orange County, California. The project involved reviewing existing permits, environmental records, and site visits at 350 UST sites. The project was part of a large divestiture of property. Mr. Thomas had to coordinate the activities of 20 professionals working out of three office locations to meet the project timeframe for completion. All field work along with estimates of cleanup cost had to be completed within three months of contract award.

Part B Closure Plan Preparation and Permitting for Unocal Refinery

Wilmington, California

Manager and senior technical advisor in the preparation of a Part B facility permitting and pond closure plan at the refinery. Follow-up work involved the assessment and construction management of the pond closure program.

Underground Tank Upgrade and Monitoring Program for Circle K Stores

Southern California Area

Working as a contractor, Mr. Thomas was involved in the implementation and installation of hazardous materials monitoring systems within Los Angeles, Orange, and San Diego Counties, for this large convenience store and automotive fuel supplier. Work included the preparation of individual site monitoring plans, the submittal of these plans to various oversight agencies, negotiations for approval, and installation supervision. In all, 86 sites were upgraded under this contract.

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Kenneth W. P. Thomas, REA

Project Director

Chevron Marine Terminal

San Pedro, California

Project manager during the installation of a large scale product pump and treat system at the Marine Terminal to mitigate migration of phased separated product into the harbor. The system consisted of three separate pumping systems installed at different locations within the facility to control the migration of phased separated hydrocarbons. The project was hydrologically complex because of the tidal effects on the facility. Permitting of the system involved negotiating with the CRWQCB, the Port of Los Angeles, the California Coastal Commission, and LACDWP.

Appendix B

Historical Aerial Photographs

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APR 23 2001

ARCADIS Geraghty & Miller



The EDR-Aerial Photography Print Service

3171 South Bundy Drive 3171 South Bundy Drive Los Angeles, CA 90066

April 20, 2001

Inquiry Number: 620973-6

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802

Environmental Data Resources, Inc. Aerial Photography Print Service

Environmental Data Resources, Inc.'s (EDR) Aerial Photography Print Service is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires "All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful. "(ASTM E 1527-00, Section 7.3.2, page 11.

Aerial Photographs

Aerial photographs are a valuable historical resource for documenting past land use and can be particularly helpful when other historical sources (such as city directories or fire insurance maps) are not reasonably ascertainable. The EDR Aerial Photograph Print Service includes a search of aerial photograph collections flown by public and private agencies for the state of California. EDR's professional field-based researchers provide digitally reproduced historical aerial photographs at approximately ten year intervals.

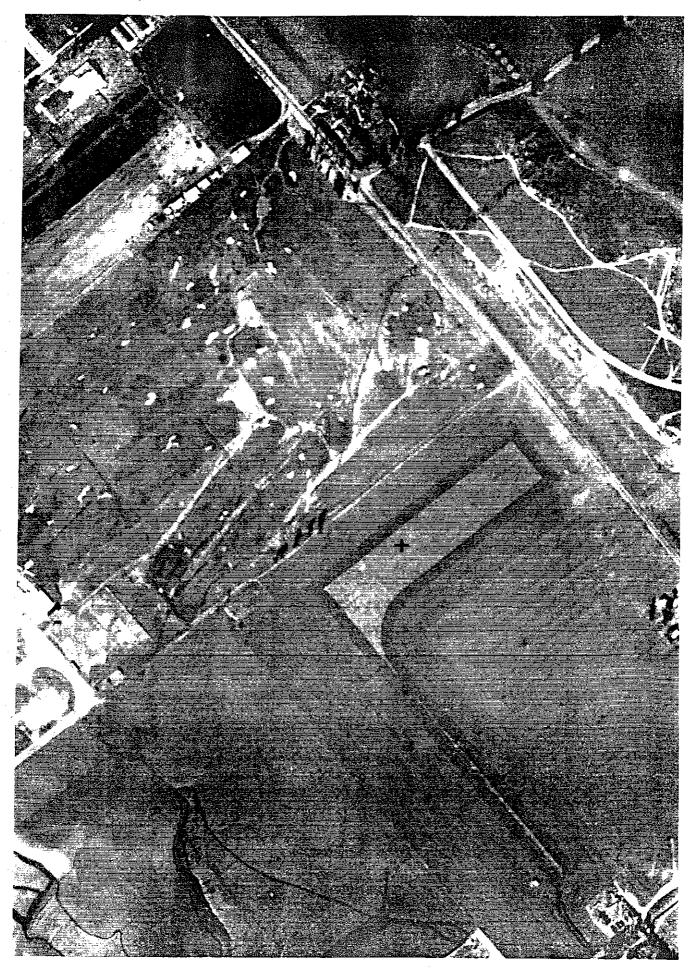
> Please call EDR Nationwide Customer Service at 1-800-352-0050 (8a.m-8pm EST) with questions or comments about your report. Thank you for your business!

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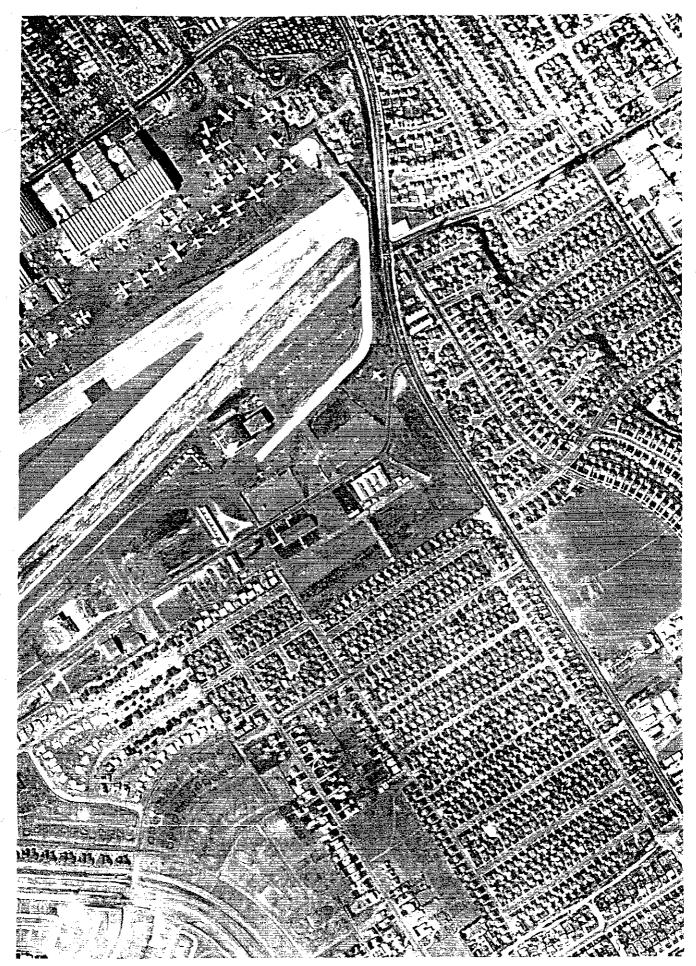
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Appendix C

Historical Topographic Maps



The EDR-Historical Topographic Map Report

3171 South Bundy Drive 3171 South Bundy Drive Los Angeles, CA 90066

April 20, 2001

Inquiry Number: 620973-5

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802

Environmental Data Resources, Inc. Historical Topographic Map Report

Environmental Data Resources. Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area. resulting from past activities. ASTM E 1527-00. Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.

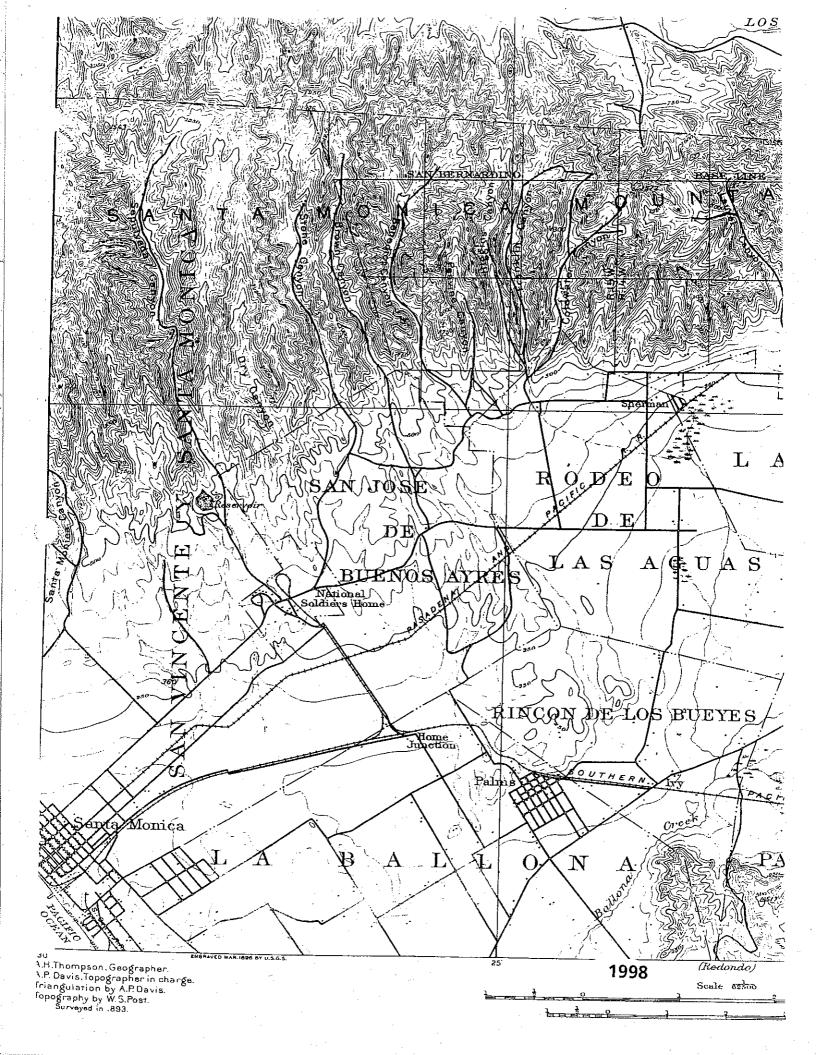
To meet the prior use requirements of ASTM E 1527-00. Section 7.3.2. the following standard historical sources may be used: aerial photographs, city directories, fire insurance maps. topographic maps, property tax files. land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires "All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful." (ASTM E 1527-00, Section 7.3.2 page 11.)

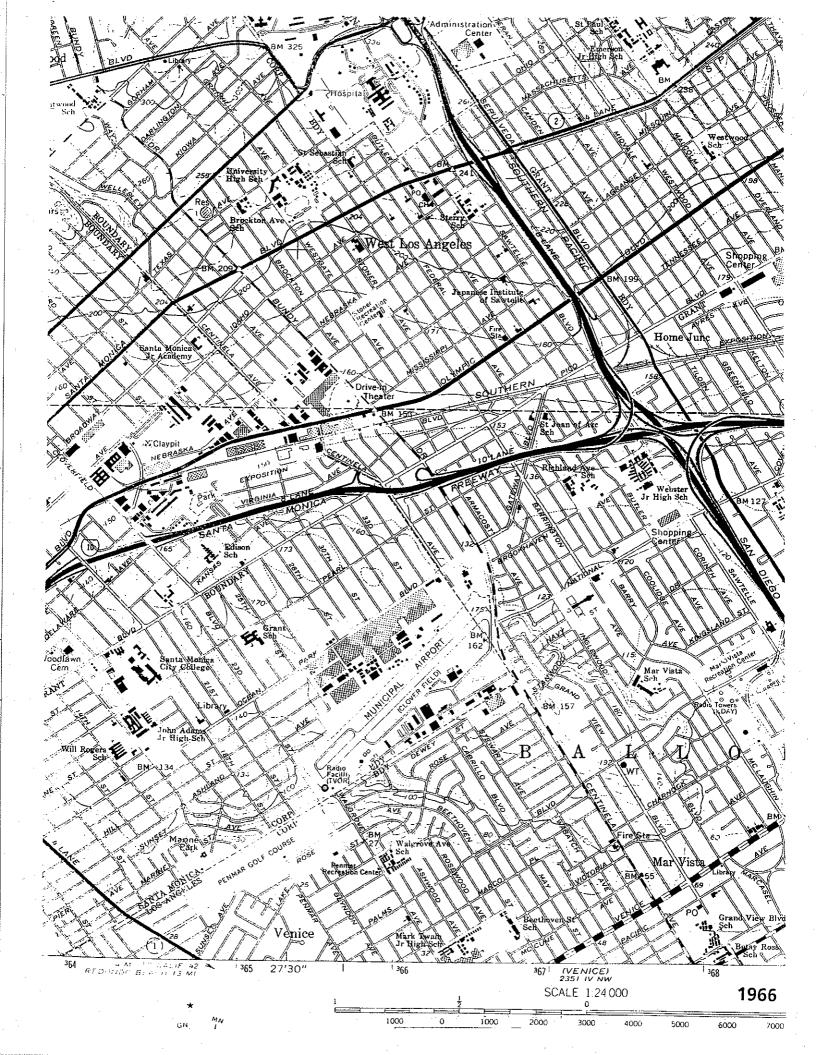
EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

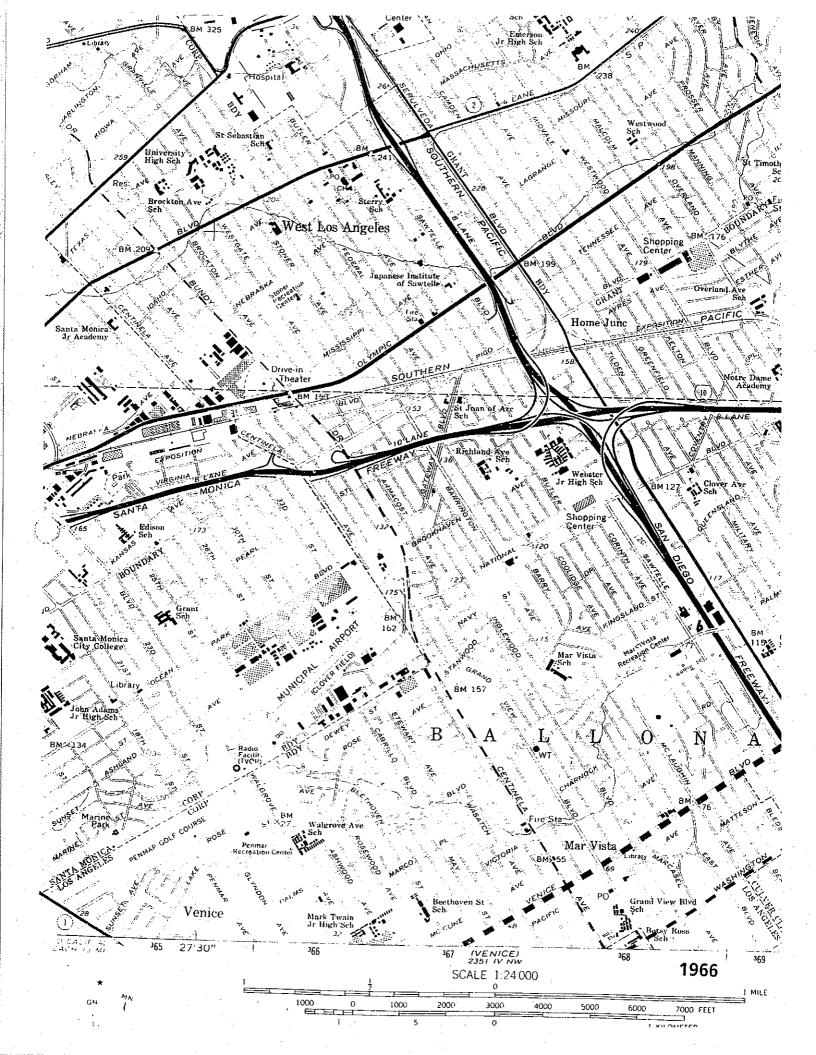
Topographic Maps

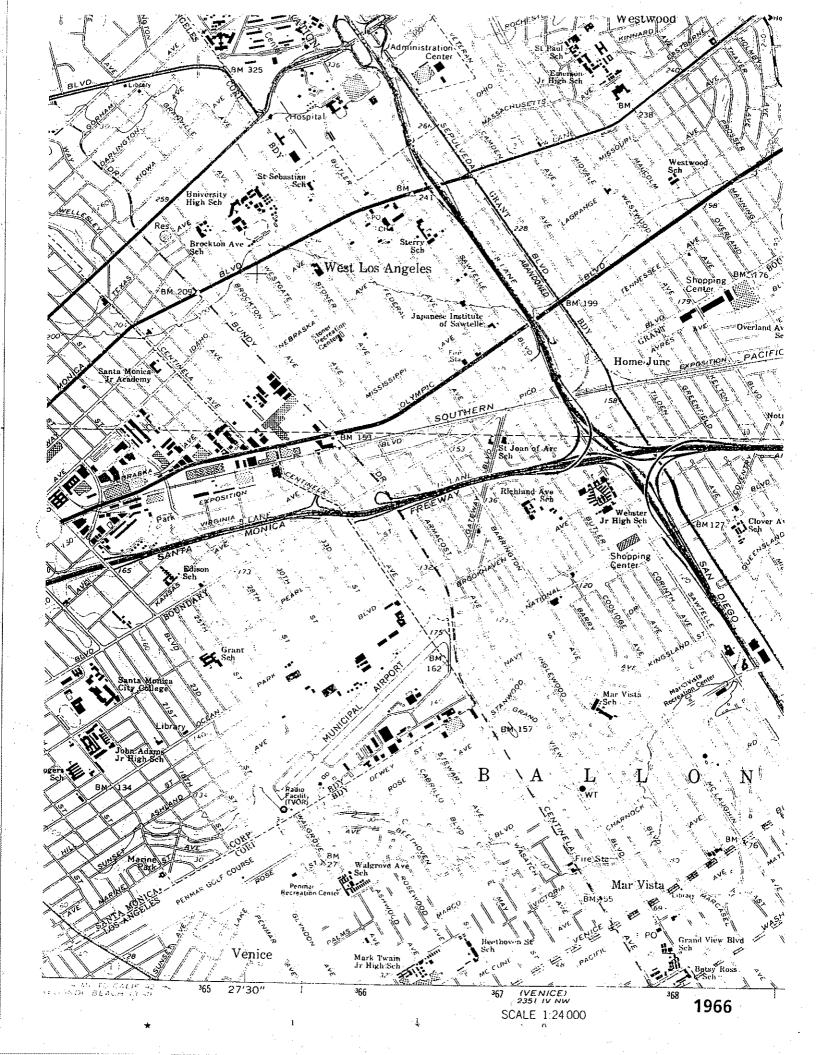
A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black): and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

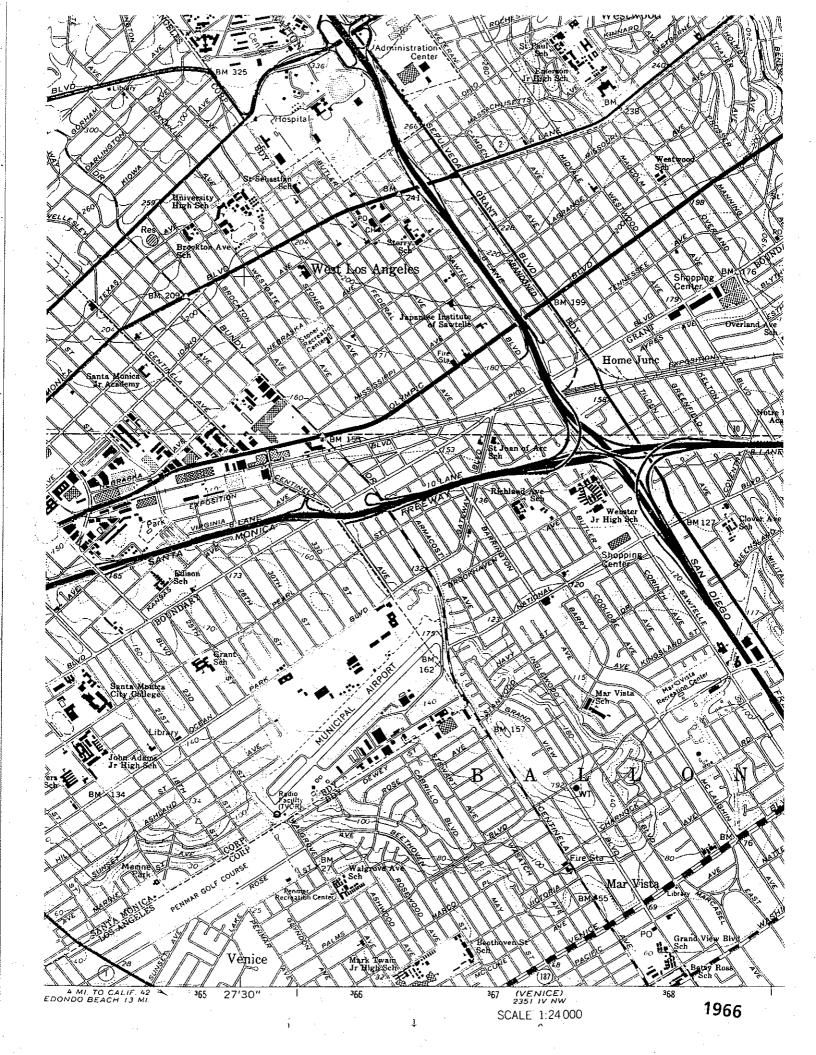
For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.

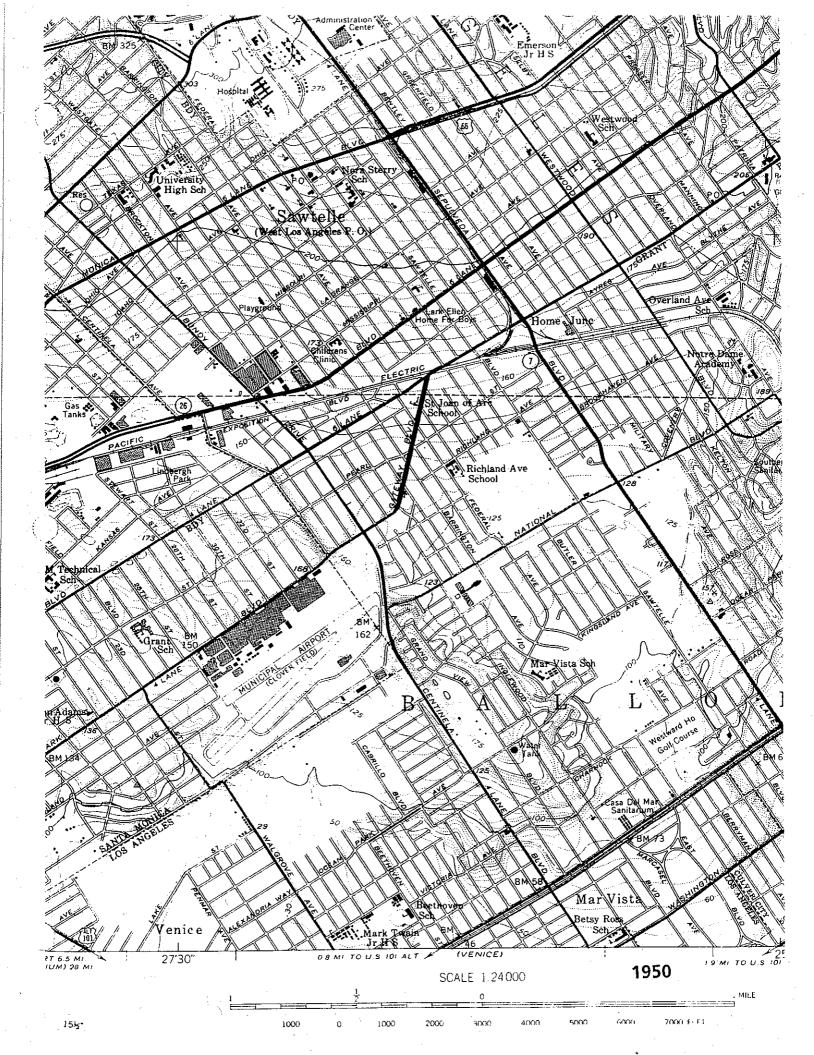












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Appendix D

Environmental Database Search Report

The EDR Radius Map with GeoCheck[®]

3171 South Bundy Drive 3171 South Bundy Drive Los Angeles, CA 90066

Inquiry Number: 1620973.3p

April 18, 2001

The Source For Environmental Risk Management Data

vironmental

Resources, Inc.

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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TC1620973.3p Page 1

EXECUTIVESUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

3171 SOUTH BUNDY DRIVE LOS ANGELES, CA 90066

COORDINATES

 Latitude (North):
 34.01560

 Longitude (West):
 118.4451

 Universal Tranverse Mercator:
 Zone 11

 UTM X (Meters):
 366564.2

 UTM Y (Meters):
 3764632.5

34.015600 - 34' 0' 56.2" 118.445100 - 118' 26' 42.4" Zone 11 366564.2 3764632.8

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: Source: 2434118-A4 BEVERLY HILLS, CA USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LEAR ASTRONICS CORP. 3171 S. BUNDY DR. LOS ANGELES, CA 90066	FINDS	CAD008285736

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPI	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information
	System
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-LQG	Resource Conservation and Recovery Information System
ERNS.	

STATE ASTM STANDARD

AWP_____ Annual Workplan Sites

TC1620973.3p EXECUTIVE SUMMARY 1

EXECUTIVE SUMMARY

Notify 65	Proposition 65 Records
Toxic Pits	Toxic Pits Cleanup Act Sites
	Solid Waste Information System
WMUDS/SWAT	Waste Management Unit Database
CA BOND EXP. PLAN	

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
HMIRS	Hazardous Materials Information Reporting System
	Material Licensing Tracking System
MINES.	
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
RAATS.	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, &
· · · · · · · · · · · · · · · · · · ·	Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST	Aboveground Petroleum Storage Tank Facilities
CA WDS	
SWF/LF	Solid Waste Information System
CA SLIC	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
LOS ANGELES CO. HMS	
LA Co. Site Mitigation	Site Mitigation List
AOCONCERN	San Gabriel Valley Areas of Concern

EDR PROPRIETARY DATABASES

Coal Gas...... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

TC1620973.3p EXECUTIVE SUMMARY 2

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2000 has revealed that there are 2 CERC-NFRAP sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir Map ID	Page
HUGHES AIRCRAFT	3100-3200 AIRPORT AVENU	1/8 - 1/4WSW 7	14
PAC AERO ENGINEERING	3021 AIRPORT AVE	1/8 - 1/4WSW C11	16

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 4 RCRIS-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
B A E SYSTEMS AIRCRAFT CONTROL	3400 AIRPORT AVE	0 - 1/8 N	C13	7
SANTA MONICA PROPELLER	3025 AIRPORT AVE	1/8 - 1/4 WSW		15
L A STORY INC	3000 ARRPORT AVE BLDG 2	1/8 - 1/4 WSW		17
CREATIVE GRAPHIC SERVICES	12693 ROSE AVENUE	1/8 - 1/4 SSW		19

STATE ASTM STANDARD

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there is 1 Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir Map ID	Page
PAC AERO ENGINEERING	3021 AIRPORT AVE	1/8 - 1/4WSW C11	16

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material Incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/1994 has revealed that there are 4 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	EB SANTA MONICA FY X BU	1/2 - 1 NNW	23	28

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	3205 PICO BLVD.	1/2 - 1 NW		29
Not reported	E/B I-10 342' E/CENTINE	1/2 - 1 NNW		29
Not reported	2627 CLOVERVIEW BLVD.	1/2 - 1 W		29

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 6 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AIRPORT RESIDUAL	3000 AIRPORT AVE	1/8 - 1/4 WSW	C14	18
TEXACO #0103	3010 S BUNDY DR	1/4 - 1/2N	D17	21
SANTA MONICA MUNICIPAL AI	3223 DONALD DOUGLAS LOO	1/4 - 1/2 WNW	19	23
SHELL OIL CO	3500 CENTINELA	1/4 - 1/2 SE	20	24
CALIFORNIA AVIATION	2501 AIRPORT AVE	1/2 - 1 WSW	21	26
SANTA MONICA FIRE DEPT.	2450 ASHLAND AVE	1/2 - 1 W	22	27

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/10/2001 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation Address		Dist / Dir	D16 D18	Page	
AIRPORT RESIDUAL	3000 AIRPORT AVE	1/8 - 1/4 WSW	C14	18	
TEXACO #0103	3010 BUNDY DR S	1/4 - 1/2N	D16	20	
TEXACO SVC STA	3010 BUNDY	1/4 - 1/2N	D18	21	
SANTA MONICA MUNICIPAL AI	3223 DONALD DOUGLAS LOO	1/4 - 1/2WNW	19	23	
SHELL OIL CO	3500 CENTINELA	1/4 - 1/2SE	20	24	

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page	
UCO AIR	3232 AIRPORT AVE	0 - 1/8 W	B4	7	
SANTA MONICA MUNICIPAL AIRPORT	3200 AIRPORT AVE	0 - 1/8 W	B6	13	

EXEGUTIVE SUMMARY

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AIR TRAFFIC CONTROL TOWER	3200 AIRPORT AVE	0-1/8 W	B5	13

STATE OR LOCAL ASTM SUPPLEMENTAL

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 6 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BAE SYSTEMS KELSEY NATIONAL CORP SANTA MONICA PROPELLER SANTA MONICA AIR CENTER CITY SANTA MONICA RESOURCE MGT CREATIVE GRAPHIC SERVICES	3400 AIRPORT AVENUE 3030 S BUNDY DR 3025 AIRPORT AVE 3021 AIRPORT AVE 3013 AIRPORT AVE 12693 ROSE AVENUE	0 110 11	C10 C12	6 15 16 17 19

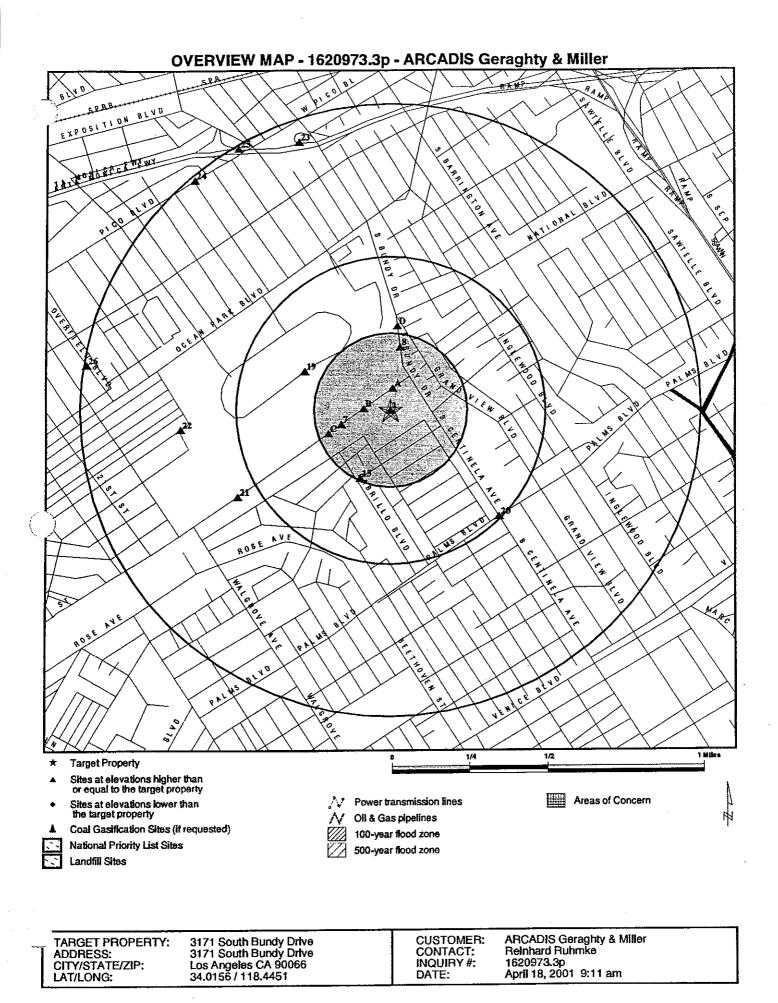
EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

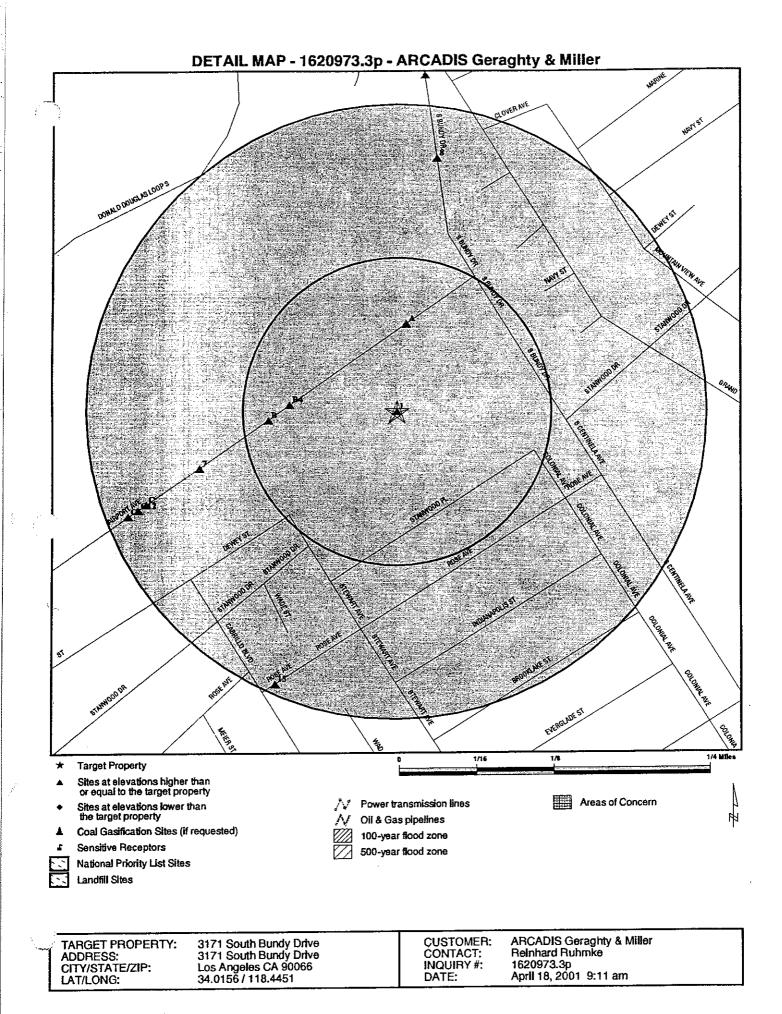
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Site Name	Database(s)
LEMCO, INC	CERCLIS, FINDS
CITY OF LOS ANGELES	HAZNET
AZ PHOTO	HAZNET
UNOCAL SO CAL. DIV. PIPE LINE	HAZNET
MOBIL OIL SERVICE STATION #99 LNG	HAZNET
1X THE PARK AND RIDE LOT	HAZNET
PARROT PAINTING COMPANY	HAZNET
SUSAN CUMMINGS	HAZNET
LOS ANGELES FINE ARTS	HAZNET



.



MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	<u> 1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u> 1/2 - 1</u>	<u>>1</u>	Total Plotted
FEDERAL ASTM STANDARD	2							
NPL Proposed NPL CERCLIS CERC-NFRAP CORRACTS RCRIS-TSD RCRIS Lg. Quan. Gen. RCRIS Sm. Quan. Gen. ERNS		1.000 1.000 0.500 0.250 1.000 0.500 0.250 0.250 TP	0 0 0 0 0 0 1 NR	0 0 2 0 0 0 3 NR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 NR 0 NR NR NR NR	NR NR NR NR NR NR NR NR NR	0 0 2 0 0 0 4 0
STATE ASTM STANDARD								
AWP Cal-Sites CHMIRS Cortese Notify 65 Toxic Pits State Landfill WMUDS/SWAT LUST UST CA Bond Exp. Plan CA FID UST		1.000 1.000 1.000 1.000 1.000 0.500 0.500 0.500 0.250 1.000 0.250	0 0 0 0 0 0 0 0 0 0 1	0 1 0 0 0 0 0 1 0 0 0	0 0 3 0 0 0 0 4 NR 0 R	0 0 4 2 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NR NR NR NR NR NR NR NR NR NR NR NR NR	0 1 4 6 0 0 0 5 2 0 1
FEDERAL ASTM SUPPLEME	NTAL							
CONSENT ROD Delisted NPL FINDS HMIRS MLTS MINES NPL Liens PADS RAATS TRIS TSCA FTTS	x	1.000 1.000 1.000 TP TP TP 0.250 TP TP TP TP	0 0 0 R R R R 0 R R R R R R R R R R R R	0 0 0 R R R R O R R R R R R R R R R R R R	000 RRRRRRRR NRRRRRRRRRRRRRRRRRRRR	0 0 0 NR NR NR NR NR NR NR NR NR NR NR NR	NR R NR R NR R NR R NR R NR R NR NR NR NR NR NR	0 0 0 0 0 0 0 0 0 0 0 0 0
STATE OR LOCAL ASTM SU	PPLEMENTAL	:						
AST CA WDS CA LA LF		TP TP 0.500	NR NR 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	<u>1/4 - 1/2</u>	1/2 - 1	<u>> 1</u>	Total Plotted
CA SLIC HAZNET Los Angeles Co. HMS LA Co. Site Mitigation AOCONCERN		0.500 0.250 TP TP 1.000	0 1 NR NR 0	0 5 NR NR 0	0 NR NR NR 0	NR NR NR 0	NR NR NR NR	0 6 0 0 0
EDR PROPRIETARY DATA	BASES							
Coal Gas AQUIFLOW - see EDR P	hysical Setting	1.000 Source Adde	0 Indum	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s) EPA

EDR ID Number EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1 Target Property	LEAR ASTRONICS CO 3171 S. BUNDY DR. LOS ANGELES, CA S				FINDS	1002850292 CAD008285736
A2 North < 1/8 378	BAE SYSTEMS 3400 AIRPORT AVEN SANTA MONICA, CA	90405			HAZNET	S104573807 N/A
Higher	Site 1 of 2 in cluster A	A				
	HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County		Tepaid: Telephone: Tsd County:	CAD003963 (847) 779-19 Santa Clara		
	Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	•	Tepaid: Telephone: Tsd County: athyl chloride, perchlori	CAD008302 (847) 779-19 Los Angeles bethylene, etc.	900	
·	Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	-	Tepaid: Telephone: Tsd County: athyl chloride, perchloro	CAD008302 (847) 779-19 Los Angeles bethylene, etc.)	900	
	Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County		Tepaid: Telephone: Tsd County: ol, ethyl acetate, etc.)	CAD008302 (847) 779-19 Los Angeles	900	

EDR ID Number Database(s)

CAD008302903 (847) 779-1900 Los Angeles

EPA ID Number

S104573807

BAE SYSTEMS (Continued)

Gepaid:	CAD008285736	Tepaid:
Contact:	BAE SYSTEMS	Telephone:
Gen County:	Los Angeles	Tsd County:
Tons:	0.9174	
Category:	Oxygenated solvents (acetone, butanol	, ethyl acetate, etc.)
Disposal Method:	Recycler	
Mailing Address:	PO BOX 442	
-	SANTA MONICA, CA 90406 - 0442	
County	Not reported	

The CA HAZNET database contains 92 additional records for this site. Please contact your EDR Account Executive for more information.

A3 North < 1/8 378	B A E SYSTEMS AIR 3400 AIRPORT AVE SANTA MONICA, CA			RCI	ris-sqg Finds	1000351815 CAD00828573
Higher	Site 2 of 2 in cluster	A				
	RCRIS: Owner:	B A E SYSTEMS N AMERICA (301) 838-6000				
	Contact:	Not reported				
	Record Date:	02/24/2000				
	Classification:	Small Quantity Generator				
	Used Oil Recyc:	No				
•	Violation Status	No violations found				
	FINDS:					
	Other Pertinent	Environmental Activity Identified at Site: System (AIRS/AFS)				
B4	UCO AIR				UST	U001568117
West < 1/8 462	3232 AIRPORT AVE SANTA MONICA, CA	91402				N/A
Higher	Site 1 of 3 in cluster	B				
	State UST: Facility ID: Tank Num:	3513 1	Container Num:	1		

Tank Constrctn:

Telephone:

Other Type:

Region:

Not reported

STATE

(213) 698-8282

AVIATION/TURBINE FUE

PRODUCT

30

2

Not Reported

Leak Detection: Visual, Stock Inventor, Pressure Test

SANDRA WALKS

Tank Used for:

Contect Name:

Total Tanks:

Facility Type:

Type of Fuel:

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

Facility ID: 3513 Container Num: 2 Tank Num: 2 Not reported Year Installed: 12000 Tank Capacity: Tank Used for: PRODUCT Not reported Tank Constrctn: Type of Fuel: Not Reported Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Contact Name: SANDRA WALKS Telephone: Region: STATE Total Tanks: 30 AVIATION/TURBINE FUE Other Type: Facility Type: 2 Facility ID: 3513 3 Container Num: Tank Num: 3 Not reported Year Installed: Tank Capacity: 12000 Tank Used for: PRODUCT Not Reported Tank Constrctn: Not reported Type of Fuel: Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Telephone: Contact Name: SANDRA WÁLKS Region: STATE **Total Tanks:** 30 AVIATION/TURBINE FUE Other Type: 2 Facility Type: 3513 Facility ID: Container Num: Tank Num: Not reported 10000 Year Installed: Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Telephone: Contact Name: SANDRA WALKS STATE Region: Total Tanks: 30 AVIATION/TURBINE FUE 2 Other Type: Facility Type: Facility ID: 3513 Container Num: 2 Tank Num: 5 Not reported Tank Capacity: 10000 Year Installed: PRODUCT Tank Used for: Not reported Tank Constrctn: Type of Fuel: Not Reported Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Telephone: SANDRA WALKS Contact Name: STATE Region: Total Tanks: 30 AVIATION/TURBINE FUE Other Type: 2 Facility Type: 3513 Facility ID: Container Num: 3 Tank Num: 6 Year Installed: Not reported Tank Capacity: 10000 PRODUCT Tank Used for: Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test (213) 698-8282 Telephone: SANDRA WALKS Contact Name: STATE Region: Total Tanks: 30 AVIATION/TURBINE FUE Other Type: 2 Facility Type:

MAPEINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

•			
Facility ID:	3513		
Tank Num:	7	Container Num:	4
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE
Facility ID:	3513		
Tank Num:	8	Container Num:	5
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE
Facility ID:	3513		_
Tank Num:	9	Container Num:	6
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT	_	
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE
Facility ID:	3513		` _
Tank Num:	10	Container Num:	7
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT	*	N-4 and add d
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
eak Detection:	Visual, Stock Inventor, Pressure Test		(040) 000 0000
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Fotal Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE
Facility ID:	3513		•
Fank Num:	11	Container Num:	8
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		N AA
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
eak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
	30	Region:	STATE
Total Tanks: Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

Facility ID: 3513 Tank Num: 12 Container Num: 9 12000 Year Installed: Not reported Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test SANDRA WALKS Telephone: (213) 698-8282 Contact Name: Total Tanks: 30 Region: STATE AVIATION/TURBINE FUE Facility Type: 2 Other Type: 3513 Facility ID: Container Num: 10 Tank Num: 13 Tank Capacity: 4000 Year Installed: Not reported Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: UNLEADED Leak Detection: Visual, Stock Inventor, Pressure Test Contact Name: SANDRA WALKS **Telephone:** (213) 698-8282 **Total Tanks:** 30 Region: STATE AVIATION/TURBINE FUE 2 Other Type: Facility Type: Facility ID: 3513 Tank Num: Container Num: 11 14 Year Installed: Not reported 800 Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: UNLEADED Leak Detection: Visual, Stock Inventor, Pressure Test SANDRA WALKS Telephone: (213) 698-8282 Contact Name: **Total Tanks:** 30 Region: STATE Other Type: **AVIATION/TURBINE FUE** Facility Type: 2 Facility ID: 3513 Tank Num: Container Num: 12 15 Tank Capacity: 10000 Year installed: Not reported Tank Used for: WASTE WASTE OIL Not reported Type of Fuel: Tank Constrctn: Leak Detection: Visual, Stock Inventor, Pressure Test Telephone: (213) 698-8282 Contact Name: SANDRA WALKS Region: STATE **Total Tanks:** 30 2 Other Type: AVIATION/TURBINE FUE Facility Type: Facility ID: 3513 Tank Num: Container Num: 13 16 Tank Capacity: Year Installed: Not reported 12000 Tank Used for: WASTE Tank Constrctn: Not reported Type of Fuel: WASTE OIL Leak Detection: Visual, Stock Inventor, Pressure Test SANDRA WALKS Telephone: (213) 698-8282 Contact Name: **Total Tanks:** 30 Region: STATE AVIATION/TURBINE FUE Other Type: Facility Type: 2

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

Facility ID: 3513 Tank Num: 17 Container Num: 1 Year Installed: Not reported Tank Capacity: 12000 Tank Used for: PRODUCT Tank Constrctn: Not reported Not Reported Type of Fuel: Visual, Stock Inventor, Pressure Test Leak Detection: Contact Name: (213) 698-8282 SANDRA WALKS Telephone: STATE Total Tanks: 30 Region: Other Type: AVIATION/TURBINE FUE Facility Type: 2 Facility ID: 3513 Tank Num: Container Num: 2 18 Tank Capacity: 12000 Year installed: Not reported Tank Used for: PRODUCT Type of Fuel: Tank Constrctn: Not reported Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test (213) 698-8282 SANDRA WALKS Telephone: Contact Name: STATE Total Tanks: 30 Region: Other Type: AVIATION/TURBINE FUE Facility Type: 2 Facility ID: 3513 Container Num: Tank Num: 19 3 Year Installed: Not reported 12000 Tank Capacity: PRODUCT Tank Used for: Tank Constrctn: Not reported Type of Fuel: Not Reported Visual, Stock Inventor, Pressure Test Leak Detection: SANDRA WALKS Telephone: (213) 698-8282 Contact Name: **Total Tanks:** 30 Region: STATE AVIATION/TURBINE FUE Other Type: Facility Type: 2 Facility ID: 3513 Container Num: Tank Num: 20 1 Year Installed: Not reported Tank Capacity: 12000 PRODUCT Tank Used for: Type of Fuel: Tank Constrctn: Not reported Not Reported Visual, Stock Inventor, Pressure Test Leak Detection: Contact Name: SANDRA WALKS **Telephone:** (213) 698-8282 **Total Tanks:** 30 Region: STATE Other Type: AVIATION/TURBINE FUE Facility Type: 2 Facility ID: 3513 2 Tank Num: Container Num: 21 12000 Year Installed: Not reported Tank Capacity: Tank Used for: PRODUCT Not Reported Tank Constrctn: Not reported Type of Fuel: Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Telephone: SANDRA WALKS Contact Name: Region: STATE Total Tanks: 30 AVIATION/TURBINE FUE Other Type: 2 Facility Type:

MAR FINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

Facility ID: 3513 Tank Num: 22 Container Num: Tank Capacity: 25000 Year Installed: Not reported PRODUCT Tank Used for: Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test Contact Name: SANDRA WALKS Telephone: (213) 698-8282 **Total Tanks:** 30 Region: STATE AVIATION/TURBINE FUE Facility Type: 2 Other Type: Facility ID: 3513 Tank Num: Container Num: 2 23 12000 Year Installed: Not reported Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test Contact Name: SANDRA WALKS Telephone: (213) 698-8282 30 STATE Total Tanks: Region: AVIATION/TURBINE FUE Facility Type: 2 Other Type: Facility ID: 3513 Container Num: 3 Tank Num: 24 Tank Capacity: 25000 Year Installed: Not reported PRODUCT Tank Used for: Type of Fuel: Not Reported Tank Constrctn: Not reported Leak Detection: Visual, Stock Inventor, Pressure Test (213) 698-8282 Contact Name: SANDRA WALKS Telephone: Region: STATE Total Tanks: 30 AVIATION/TURBINE FUE Facility Type: 2 Other Type: Facility ID: 3513 Tank Num: Container Num: 1 25 1982 Tank Capacity: 20000 Year installed: Tank Used for; PRODUCT Type of Fuel: Not Reported Tank Constrctn: Not reported Visual, Stock Inventor, Pressure Test Leak Detection: (213) 698-8282 Contact Name: SANDRA WALKS Telephone: Total Tanks: Region: STATE 30 AVIATION/TURBINE FUE Other Type: Facility Type: 2 Facility ID: 3513 Tank Num: Container Num: 2 26 Year installed: 1982 Tank Capacity: 10000 PRODUCT Tank Used for: Tank Constrctn: Type of Fuel: Not Reported Not reported Leak Detection: Visual, Stock Inventor, Pressure Test (213) 698-8282 Contact Name: SANDRA WALKS Telephone: 30 Region: STATE Total Tanks: AVIATION/TURBINE FUE Facility Type: 2 Other Type:

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

UCO AIR (Continued)

U001568117

Facility ID: 3513 Tank Num: 27 Container Num: 3 12000 Tank Capacity: Year Installed: Not reported Tank Used for: PRODUCT Type of Fuel: Not reported Not Reported Tank Constrctn: Leak Detection: Visual, Stock Inventor, Pressure Test SANDRA WALKS (213) 698-8282 Contact Name: Telephone: **Total Tanks:** STATE 30 Region: AVIATION/TURBINE FUE Facility Type: 2 Other Type: Facility ID: 3513 Tank Num: 28 Container Num: 4 Tank Capacity: 12000 Year Installed: Not reported Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test Contact Name: SANDRA WALKS Telephone: (213) 698-8282 Total Tanks: 30 Region: STATE AVIATION/TURBINE FUE Facility Type: 2 Other Type: Facility ID: 3513 Tank Num: Container Num: 29 5 Tank Capacity: 12000 Year Installed: Not reported Tank Used for: PRODUCT Type of Fuel: Tank Constrctn: Not reported Not Reported Leak Detection: Visual, Stock Inventor, Pressure Test SANDRA WALKS Contact Name: Telephone: (213) 698-8282 Total Tanks: 30 Region: STATE Other Type: AVIATION/TURBINE FUE Facility Type: 2 Facility ID: 3513 Tank Num: 30 Container Num: 6 Tank Capacity: 3000 Year installed: Not reported Tank Used for: WASTE Type of Fuel: Not Reported Tank Constrctn: Not reported Leak Detection: Visual, Stock Inventor Contact Name: SANDRA WALKS Telephone: (213) 698-8282 Total Tanks: Region: STATE 30 AVIATION/TURBINE FUE Facility Type: 2 Other Type:

AIR TRAFFIC CONTROL TOWER CA FID UST S101617754 B5 West 3200 AIRPORT AVE N/A < 1/8 SANTA MONICA, CA 90405 553 Higher Site 2 of 3 in cluster B UST U001564020 **B6** SANTA MONICA MUNICIPAL AIRPORT West 3200 AIRPORT AVE N/A < 1/8 SANTA MONICA, CA 90405 553 Higher Site 3 of 3 In cluster B

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

U001564020

SANTA MONICA MUNICIPAL AIRPORT (Continued)

State UST: Facility ID: 65867 Container Num: 100LL 2 Tank Num: 1 1980 Year Installed: Tank Capacity: 12000 Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Pressure Test Telephone: (213) 390-7606 AL VELEZ Contact Name: Region: STATE Total Tanks: 4 AIRPORT FUEL STATION Other Type: Facility Type: 2 Facility ID: 65867 80 AG3 Tank Num: Container Num: 2 Year installed: Not reported 12000 Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Not Reported Type of Fuel: Pressure Test Leak Detection: Telephone: (213) 390-7606 AL VELEZ Contact Name: Total Tanks: Region: STATE 4 Other Type: AIRPORT FUEL STATION Facility Type: 2 Facility ID: 65867 Tank Num: Container Num: 4 3 Year installed: 550 Not reported Tank Capacity: PRODUCT Tank Used for: Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: None Telephone: (213) 390-7606 Contact Name: AL VELEZ Region: STATE Total Tanks: 4 **AIRPORT FUEL STATION** Other Type: Facility Type: 2 Facility ID: 65867 Container Num: JET A 1 Tank Num: 4 1980 12000 Year Installed: Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: Not reported Type of Fuel: Not Reported Leak Detection: Pressure Test (213) 390-7606 Telephone: Contact Name: AL VELEZ Total Tanks: Region: STATE 4 AIRPORT FUEL STATION Other Type: Facility Type: 2

> **CERC-NFRAP** 1000893632

CA0000476622

WSW 1/8-1/4 881 Higher

7

HUGHES AIRCRAFT

3100-3200 AIRPORT AVENUE

SANTA MONICA, CA 90404

CERCLIS-NFRAP Classification Data: Federal Facility: Not a Federal Facility Site Incident Category: Not reported NPL Status: Not on the NPL **Ownership Status:** Private **CERCLIS-NFRAP** Assessment History: Completed: 19940729 DISCOVERY Assessment: 19950921 PRELIMINARY ASSESSMENT Completed: Assessment:

Distance (ft Elevation	.) Site			Database(s)	EDR ID Numbe EPA ID Number
8 North 1/8-1/4 1099	KELSEY NATIONAL 3030 S BUNDY DR LOS ANGELES, CA			HAZNET	S104565680 N/A
Higher	HAZNET:				
	Gepaid: Contact: Gen County:	CAC001176560 KELSEY NATIONAL CORP Los Angeles	Tepaid: Telephone: Tsd County:	CAT080013352 (310) 390-1000 Los Angeles	
	-	3030 S BUNDY DR LOS ANGELES, CA 90066	-		
	County	Not reported	Tanaida	CAT080013352	
	Gepaid: Contact: Gen County: Tons: Category: Disposal Method Mailing Address:	CAC001176560 KELSEY NATIONAL CORP Los Angeles 0.6255 Unspecified aqueous solution Recycler 3030 S BUNDY DR	Tepaid: Telephone: Tsd County:	(310) 390-1000 Los Angeles	
	County	LOS ANGELES, CA 90066 Not reported			
;9 VSW /8-1/4 143 ligher	SANTA MONICA PRO 3025 AIRPORT AVE SANTA MONICA, CA Site 1 of 6 in cluster (90405		RCRIS-SQG FINDS HAZNET	1000395255 CAD98232104
nAuei	RCRIS:				
	+ -	SANTA MONICA PROPELLER			
		(415) 555-1212			
	Contact:				
	Contact:	(415) 555-1212 ENVIRONMENTAL MANAGER			
	Contact: Record Date:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233			
	Contact: Record Date:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233 03/10/1988 Small Quantity Generator			
	Contact: Record Date: Classification: Used Oil Recyc:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233 03/10/1988 Small Quantity Generator			
	Contact: Record Date: Classification: Used Oil Recyc: Violation Status:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233 03/10/1988 Small Quantity Generator No			
	Contact: Record Date: Classification: Used Oil Recyc:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233 03/10/1988 Small Quantity Generator No	Tepaid: Telephone: Tsd County:	CAD008252405 (000) 000-0000 Los Angeles	
	Contact: Record Date: Classification: Used Oil Recyc: Violation Status: HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	(415) 555-1212 ENVIRONMENTAL MANAGER (213) 390-6233 03/10/1988 Small Quantity Generator No No violations found CAD982321044 Not reported Los Angeles 0.2128 Unspecified solvent mixture Waste	Telephone: Tsd County:	(000) 000-0000	

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MAP FINDING Map ID Direction Distance EDR ID Number Distance (ft.) EPA ID Number Database(s) Site Elevation 1000395255 SANTA MONICA PROPELLER (Continued) CAD008252405 CAD982321044 Tepaid: Gepaid: Telephone: (000) 000-0000 Contact: Not reported Los Angeles Los Angeles Tsd County: Gen County: 0.2918 Tons: Unspecified solvent mixture Waste Category: Disposal Method: Recycler Mailing Address: 3135 DONALD DOUGLAS LOOP SOUTH SANTA MONICA, CA 90405 County Not reported HAZNET S103651061 SANTA MONICA AIR CENTER C10 N/A WSW 3021 AIRPORT AVE SANTA MONICA, CA 90405 1/8-1/4 1157 Higher Site 2 of 6 in cluster C HAZNET: CAT080013352 CAC000740688 Tepaid: Gepaid: SANTA MONICA AIR CENTER Telephone: (310) 390-9071 Contact: Los Angeles Tsd County: Gen County: Los Angeles 0.2919 Tons: Category: Unspecified aqueous solution **Disposal Method: Recycler** Mailing Address: 3021 AIRPORT AVE SANTA MONICA, CA 90405 County Not reported 1000726140 CERC-NFRAP PAC AERO ENGINEERING C11 Cal-Sites CAD980636328 WSW 3021 AIRPORT AVE SANTA MONICA, CA 90405 1/8-1/4 1157 Site 3 of 6 in cluster C Higher **CERCLIS-NFRAP Classification Data:** Federal Facility: Not a Federal Facility Site Incident Category: Not reported NPL Status: Not on the NPL **Ownership Status:** Unknown **CERCLIS-NFRAP Assessment History:** Completed: 19810601 Assessment: DISCOVERY 19840901 PRELIMINARY ASSESSMENT Completed: Assessment: CERCLIS-NFRAP Alias Name(s): SINGLAR LEAR (OPERATOR) PACIFIC AIRMOTIVE (OPERATOR) PUREX (OPERATOR) CAL-SITES: 19760009 Facility ID NFA - NO FURTHER ACTION FOR DTSC Status: Status Date: 04/01/1984 Not reported Lead: 3 - BURBANK Region: Branch: SB - SOUTHERN CA. - B File Name: Not reported NO FURTHER ACTION FOR DTSC Status Name: Not reported Lead Agancy: N/A Not reported NPL: 76 MISCELLANEOUS REPAIR SERVICES SIC: Facility Type: N/A Type Name: Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1000726140

PAC AERO ENGINEERING (Continued)

Staff Member Responsible for Site: Supervisor Responsible for Site: Region Water Control Board: Access: Cortese: Hazardous Ranking Score: Date Site Hazard Ranked: Groundwater Contamination: No. of Contamintion Sources: Lat/Long: Lat/Long: State Assembly District Code: State Senate District: Not reported MMONROY LA - LOS ANGELES Not reported Not reported Not reported Not reported 0 0 ° 0 0.00° / 0° 0° 0.00° Not reported Not reported Not reported Not reported Not reported

The CAL-SITES database may contain additional details for this site. Please contact your EDR Account Executive for more information.

C12 WSW 1/8-1/4 1183 Higher	CITY SANTA MONICA 3013 AIRPORT AVE SANTA MONICA, CA Site 4 of 6 in cluster (HAZNET	S103650980 N/A
ngner	HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	CAC001234160 Not reported Los Angeles 25.284 Asbestos-containing waste Disposal, Land Fill 1685 MAIN ST #112 SANTA MONICA, CA 90401 Not reported	Tepaid: Telephone: Tsd County:	CAD009007626 (000) 000-0000 Los Angeles	
C13 WSW 1/8-1/4 1221 Higher		90405		RCRIS-SQG FINDS	1000132761 CAD982491862

Contact: ENVIRONMENTAL MANAGER (213) 315-4775 Record Date: 06/20/1990

Classification: Small Quantity Generator

MAP FINDINGS Map ID Direction Distance Distance (ft.) Database(s) Site Elevation L A STORY INC (Continued) Used Oil Recyc: No Violation Status: No violations found AIRPORT RESIDUAL Cortese C14 LUST WSW 3000 AIRPORT AVE 1/8-1/4 SANTA MONICA, CA 90405 1231 Higher Site 6 of 6 in cluster C State LUST: Cross Street: Not reported 0.00000 Qty Leaked: Case Number 904050061 Los Angeles Region Reg Board: Chemical: Not reported Regional Board Lead Agency:

Local Agency :

Case Type:

Review Date:

Pollution Char:

Remed Action: Close Date:

Release Date:

Enf Type:

Funding:

Interim :

Lat/Lon :

Leak Cause:

Leak Source:

MTBE Date :

MTBE Tested :

GW Qualifies :

Soil Qualifies :

Hydr Basin #:

Review Date :

Stop Date :

Operator :

Priority :

Max MTBE GW: 0.00000

Max MTBE Soil: 0.00000

Oversight Prgm: UST

Street Number: 3000 Work Suspended Not reported

Beneficial:

Staff:

Local Case # :

Enter Date :

Staff Initials:

How Stopped:

Discover Date : Enforcement Dt: / /

Cleanup Fund Id : Not reported

Workplan:

Status:

County:

19033

Not reported

Not reported

Not reported Not reported

Not reported 11/11/91

Not reported

Not reported

Not reported How Discovered: Subsurface Monitoring

Other Means

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported MATHIEU, JEFF

Unknown

Unknown

JH

11

ND

1B

11

12/06/00

Responsible PartyCITY OF SANTA MONICA

11/01/91

12/19/91

12/06/00

Other ground water affected

Remediation plan developed

Confirm Leak: Prelim Assess: Remed Plan: Monitorina:

Not reported 11/11/91 02/11/99 Not reported EDR ID Number

EPA ID Number

1000132761

S100273264

N/A

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

AIRPORT RESIDUAL (Continued)

S100273264

OLD CASE #123091-18, FREE PRODUCT PRESENT; FP IN MW-13. TPH-G, TPH-D, TOTAL LEAD, ACETONE, MEK, BROMO VOE ARE PRESENT IN GW.; 7/14/00 2ND QTR GW MON RPT 2000; 10/13/00 3RD QTR GW MON RPT 2000

LUST Region 4: Report Date:

Summary:

Report Date:	11/11/1991
Lead Agency:	Regional Board
Local Agency:	19033
Case Number:	904050061
Substance:	Hydrocarbons
Case Type:	Groundwater
Status:	Remediation plan developed
Region:	4
Staff:	JH

CORTESE:

Reg By:	LTNKA
Reg Id:	904050061
Region:	CORTESE

CREATIVE GRAPHIC SERVICES 12693 ROSE AVENUE SSW 1/8-1/4 LOS ANGELES, CA 90066 1278

Higher

15

RCRIS:

Owner:	RUDI & SANDI OTERO (415) 555-1212
Contact:	ENVIRONMENTAL MANAGER (213) 397-0104
Record Date:	03/25/1988
Classification:	Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

HAZNET:

1	AZNET:			
	Gepaid:	CAD982408932	Tepaid:	CAD108040858
	Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
	Gen County:	Los Angeles	Tsd County:	Los Angeles
	Tons:	0.5212		
	Category:	Photochemicals/photoprocessing waste		
	Disposal Method:	Not reported		
	Mailing Address:	12693 ROSE AVE		÷
	-	LOS ANGELES, CA 90066 - 1540		
	County	Not reported		
	Gepaid:	CAD982408932	Tepaid:	CAD108040858
	Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
	Gen County:	Los Angeles	Tsd County:	Los Angeles
	Толз:	0.2502		
	Category:	Photochemicals/photoprocessing waste		
	Disposal Method:			
	Mailing Address:	12693 ROSE AVE		
	-	LOS ANGELES, CA 90066 - 1540		
	County	Not reported		

RCRIS-SQG 1000159501 FINDS CAD982408932 HAZNET

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

1000159501

CREATIVE GRAPHIC SERVICES (Continued)

Gepaid: Contact: Gen County: Tons: Category: Disposal Method Mailing Address: County	CAD982408932 RODOLFO OTERO Los Angeles 0.688 Photochemicals/photoprocessing waste Not reported 12693 ROSE AVE LOS ANGELES, CA 90066 - 1540 Not reported	Tepaid: Telephone: Tsd County:	CAD108040858 (310) 397-5334 Los Angeles
Gepaid: Contact: Gen County: Tons: Category: Disposal Method Mailing Address: County	CAD982408932 RODOLFO OTERO Los Angeles 0.3461 Photochemicals/photoprocessing waste Recycler 12693 ROSE AVE LOS ANGELES, CA 90066 - 1540 Not reported	Tepaid: Telephone: Tsd County:	CAD108040858 (310) 397-5334 Los Angeles
Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	CAD982408932 RODOLFO OTERO Los Angeles 0.3127 Photochemicals/photoprocessing waste Recycler 12693 ROSE AVE LOS ANGELES, CA 90066 - 1540 Not reported	Tepaid: Telephone: Tsd County:	CAD108040858 (310) 397-5334 Los Angeles

D16 North 1/4-1/2 1453 Higher

 $\left\{ \right\}$

TEXACO #0103 3010 BUNDY DR S

MAR VISTA, CA 90066

Site 1 of 3 in cluster D

Enter Date :

Funding:

03/10/94

Not reported

State LUST: Cross Street: NATIONAL 0.00000 Oty Leaked: 900660107 **Case Number** Reg Board: Los Angeles Region Chemical: Not reported Lead Agency: Local Agency Local Agency : 19050 Case Type: Undefined Signed off, remedial action completed or deemed unnecessary Status: County: Not reported **Review Date:** 01/23/95 Confirm Leak: Not reported Prelim Assess: Not reported Workplan: Not reported Pollution Char: Not reported Remed Plan: Not reported Remed Action: Not reported Monitoring: Not reported 01/23/95 **Close Date:** 02/09/94 Release Date: Cleanup Fund Id : Not reported 02/09/94 Discover Date : Enforcement Dt: / / Enf Type: Not reported

TC1620973.3p Page 20

LUST \$104793692

N/A

Database(s)

EDR ID Number EPA ID Number

S104793692

Distance Distance (f	1)	
Elevation	Site	
	TEXACO #0103 (Com	tinued)
	Staff Initials:	Not rep
	How Discovered:	Other N
	How Stopped:	Not rep

Map ID Direction

Staff Initials:	Not reported
How Discovered:	Other Means
How Stopped:	Not reported
Interim :	No
Lat/Lon :	Not reported
Leak Cause:	Unknown
Leak Source:	Unknown
Local Case # :	Not reported
Beneficial:	Not reported
Staff :	Not reported
MTBE Date :	11
MTBE Tested :	Not reported
Max MTBE GW :	0.00000
GW Qualifies :	Not reported
Max MTBE Soil :	0.00000
Soil Quaiifies :	Not reported
Hydr Basin #:	Not reported
Operator :	OLD CASENO WAS 121494-07
Oversight Prom :	LIA
Priority :	Not reported
Review Date :	01/23/95
Stop Date :	11
Street Number :	3010
Work Suspended	Not reported
Responsible Party	•
Summary:	Not reported
9	-

D17 North

1/4-1/2 1453 Higher

Site 2 of 3 in cluster D CORTESF

TEXACO #0103

3010 S BUNDY DR

LOS ANGELES, CA 90066

URTESE:	
Reg By:	LTNKA
Reg Id:	121494-07
Region:	CORTESE

D18	TEXACO SVC STA
North	3010 BUNDY
1/4-1/2	LOS ANGELES, CA 90066
1453	
Higher	Site 3 of 3 in cluster D

RCRIS:

Owner:	TEXACO REF MKTG INC (415) 555-1212
Contact:	ENVIRONMENTAL MANAGER (818) 505-2470
Record Date:	09/01/1996
Classification:	Small Quantity Generator

RCRIS-SQG 1000144840 FINDS UST LUST

CAD981435811

Cortese S101307359

N/A

MAP FINDINGS

Database(s)

FDR ID Number **EPA ID Number**

1000144840

TEXACO SVC STA (Continued)

Used Oil Recyc: No

Violation Status: No violations found

LUST Region 4:

Report Date: 02/09/1994 Lead Agency: Local Agency Local Agency: 19050 Case Number: 900660107 Substance: Gasoline Case Type: Undefined Signed off, remedial action completed or deemed unnecessary 4 Not reported

Staff: State UST:

Status:

Region:

Facility ID: Tank Num: Tank Capacity: Tank Used for: Type of Fuel: Leak Detection: Contact Name: Total Tanks: Facility Type:

Facility ID: Tank Num: Tank Capacity: Tank Used for: Type of Fuel: Leak Detection: Contact Name: **Total Tanks:** Facility Type:

Facility ID: Tank Num: Tank Capacity: Tank Used for: Type of Fuel: Leak Detection: Contact Name: Total Tanks: Facility Type:

Facility ID: Tank Num: Tank Capacity: Tank Used for: Type of Fuel: Leak Detection: Contact Name: **Total Tanks:** Facility Type:

17381 1 550 WASTE WASTE OIL None GEORGE A. ADAMIAN 4 1

17381 2 10000 PRODUCT UNLEADED Stock Inventor GEORGE A. ADAMIAN 4 1

17381 3 10000 PRODUCT REGULAR Stock Inventor GEORGE A. ADAMIAN 4 1

17381 10000 PRODUCT PREMIUM Stock Inventor GEORGE A. ADAMIAN 4 1

Container Num: 1 Year installed: 1971 Tank Constrctn: Not reported (213) 397-5687 Telephone: STATE Region: Other Type: Not reported

Container Num: Year Installed: Tank Constrctn:

1971 Not reported

2

3

1971

Telephone: (213) 397-5687 Region: STATE Other Type: Not reported

Container Num: Year Installed:

Tank Constrctn: Not reported

Telephone: (213) 397-5687 Region: STATE Other Type: Not reported

Container Num: Year Installed:

Tank Constrctn:

Telephone:

Other Type:

Region:

Â 1971 Not reported

(213) 397-5687 STATE Not reported

Map ID Direction Distance Distance (ft.) Elevation Site

19 WNW 1/4-1/2 1626

Higher

) Site	·····			Database(s)	EDR ID Number
SANTA MONICA MUN 3223 DONALD DOUG SANTA MONICA, CA	LAS LOOP S			Cortese LUST	S101298058 N/A
State LUST:					
Cross Street:	BUNDY				
Qty Leaked:	0.00000				
Case Number	904050025				
Reg Board:	Los Angeles Region				
Chemical:	Not reported				
Lead Agency:	Regional Board				
Local Agency :	19033				
Case Type:	Soil only				
Status:	Post remedial action monitori	ing in progress			
County:	Not reported		NI-4		
Review Date:	10/13/00	Confirm Leak:	Not repo		
Workplan:	Not reported	Prelim Assess:	Not report		
Pollution Char:	03/18/92	Remed Plan:	Not report		
Remed Action:	Not reported	Monitoring:	05/22/98		
Close Date:	Not reported				
Release Date:	01/23/87				
Cleanup Fund Id	•				
Discover Date :	11				
Enforcement Dt :	• •				
Enf Type:	Not reported				
Enter Date :	08/13/92				
Funding:	Not reported				
Staff Initials:	Not reported				
How Discovered:					
How Stopped:	Close Tank				
Interim :	Yes				
Lat/Lon :	Not reported				
Leak Cause:	Overfill				
Leak Source:	Tank				
Local Case # :	Not reported				•
Beneficial:	Not reported				
Staff :	H				
MTBE Date :	11				
MTBE Tested :	ND 0.00000				
Max MTBE GW :					
GW Qualifies :	Not reported				
Max MTBE Soil :					
Soil Qualifies :	Not reported				
Hydr Basin #:	Not reported				
Operator : Oversight Prgm :	DITTMAR, HANK UST				

Priority:

Review Date :

Stop Date : / / Street Number : 3223

Work Suspended Not reported Responsible PartyCITY OF SANTA MONICA Summary: 4/24/00 1ST QTR GW MON RPT 2000; 10/13/00 3RD QTR GW MON RPT 2000 LUST Region 4:

Report Date:	01/23/1987
Lead Agency:	Regional Board
Local Agency:	19033

2A 10/13/00

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number · EPA ID Number

S101298058

SANTA MONICA MUNICIPAL AI (Continued)

Case Numb	er: 904050025
Substance:	Gasoline
Case Type:	Soil
Status:	Post remedial action monitoring in progress
Region:	4
Staff:	JH
CORTESE:	
Reg By:	LTNKA

Reg Id: 904050025 Region: CORTESE

20 SE 1/4-1/2 2591

2591 Higher

RCRIS:

SHELL OIL CO

3500 CENTINELA LOS ANGELES, CA 90066

UNIO.	
Owner:	EQUILON ENTERPRISES L L C (713) 241-2258
Contact:	SONDRA BIENVENU (713) 241-2258
Record Date:	04/08/1998
Classification:	Small Quantity Generator
Used Oil Recyc:	No

Not reported

Violation Status: No violations found

State LUST:

Lat/Lon :

itate LUST:			
Cross Street:	PALMS AVE		
Qty Leaked:	0.00000		
Case Number	900660052		
Reg Board:	Los Angeles Region		
Chemical:	Not reported		
Lead Agency:	Regional Board		
Local Agency :	19050		
Case Type:	Drinking water wells have been affected		
Status:	No leak action taken by responsible party	after initial report of	leak
County:	Not reported		
Review Date:	12/14/00	Confirm Leak:	01/05/98
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	05/15/89		
Cleanup Fund Id :	Not reported		÷
Discover Date :	05/12/89		
Enforcement Dt :	11		
Enf Type:			
спі туре.	Not reported		
Enter Date :	Not reported 05/01/96		
••	•		
Enter Date :	05/01/96		
Enter Date : Funding:	05/01/96 Not reported Not reported Inventory Control		
Enter Date : Funding: Staff Initials: How Discovered: How Stopped:	05/01/96 Not reported Not reported Inventory Control Repair Piping	e e e	
Enter Date : Funding: Staff Initials: How Discovered:	05/01/96 Not reported Not reported Inventory Control		

RCRIS-SQG 1 FINDS C UST Cortese LUST

1000288466 CAD981406119

MAP FINDING

Database(s)

EDR ID Number EPA ID Number

1000288466

SHELL OIL CO (Continued) Leak Cause: Structure Failure Piping Leak Source: Local Case # : Not reported Beneficial: Not reported Staff : JH MTBE Date : 11 MTBE Tested : YES Max MTBE GW: 12.00000 GW Qualifies : Not reported Max MTBE Soil: 1.20000 Soil Qualifies : Not reported Hydr Basin #: Not reported Operator : DELL OLIO, JOSEPH/MIKE Oversight Prgm: UST Priority : 1A **Review Date :** 12/14/00 05/15/89 Stop Date : Street Number : 3500 Work Suspended Not reported Responsible PartySHELL OIL CO 2/9/00 TANK REMOVAL & SOIL SAMPLING RPT; 7/14/00 2ND QTR GW MON RPT 2000; Summary: 7/17/00 UST REMOVAL AND SOIL SAMPLING RPT; 10/16/00 QTRLY GW MON SEPT. 2000; 10/20/00 TRANSM. OF ASSESSM. WP LUST Region 4: Report Date: 05/15/1989 **Regional Board** Lead Agency: Local Agency: 19050 900660052 Case Number: Substance: Gasoline Specific tank leak that has contaminated a specific well used for drinking water Case Type: No leak action taken by responsible party after initial report of leak Status: Region: 4 Staff: JH CORTESE: LTNKA Reg By: 900660052 Reg Id: CORTESE Region: State UST: Facility ID: 3065 Container Num: Tank Num: 1 Year installed: 1980 10000 Tank Capacity: Tank Used for: PRODUCT Tank Constrctn: 1/4 inches UNLEADED Type of Fuel: Leak Detection: Stock Inventor, GW Monitoring Well (213) 398-4597 Telephone: Contact Name: Not reported Total Tanks: Region: STATE 3 Other Type: Not reported Facility Type: 1

------ MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

SHELL OIL CO (Continued)

1000288466

S101298050

N/A

Cortese

LUST

Facility ID: Tank Num:	3065 2	Container Num:	2
	-		_
Tank Capacity:	10000	Year Installed:	1980
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(213) 398-4597
Total Tanks:	3	Region:	STATE
Facility Type:	1	Other Type:	Not reported
			•
Facility ID:	3065		
Tank Num:	3	Container Num:	3
Tank Capacity:	10000	Year Installed:	1983
Tank Used for:	PRODUCT		
Type of Fuel:	PREMIUM	Tank Constrctn:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(213) 398-4597
	•	•	STATE
Total Tanks:	3	Region:	
Facility Type:	1	Other Type:	Not reported

21 WSW 1/2-1 3005 Higher

2501 AIRPORT AVE SANTA MONICA, CA 90405

CALIFORNIA AVIATION

)5 |her

> State LUST: 23RD ST Cross Street: Qty Leaked: 0.00000 904050161 Case Number Reg Board: Los Angeles Region Chemical: Not reported Lead Agency: Local Agency Local Agency : 19033 Case Type: Soil only Pollution characterization Status: County: Not reported **Review Date:** 08/24/92 Workplan: Not reported Pollution Char: 06/30/92 Remed Action: Not reported Close Date: Not reported Release Date: 06/30/92 Cleanup Fund Id : Not reported Discover Date : / / Enforcement Dt: / / Enf Type: Not reported Enter Date : 08/13/92 Funding: Not reported Staff Initials: Not reported How Discovered: Other Means How Stopped: Other Means Interim : Not reported Lat/Lon: Not reported Leak Cause: Unknown Leak Source: Unknown Local Case # : Not reported **Beneficial:** Not reported

Confirm Leak: Prelim Assess: Remed Plan: Monitoring:

Not reported Not reported Not reported Not reported



Database(s)

EDR ID Number EPA ID Number

S101298050

CALIFORNIA AVIATION (Continued)

Staff :	Not reported
MTBE Date :	03/01/98
MTBE Tested	t: YES
Max MTBE G	W: 0.00000
GW Qualifies	: Not reported
Max MTBE S	oil : 0.01400
Soil Qualifies	: Not reported
Hydr Basin #	Not reported
Operator :	Not reported
Oversight Pro	pm:LIA
Priority :	Not reported
Review Date	: 08/24/92
Stop Date :	11
Street Number	er: 2501
Work Suspen	ded Not reported
Responsible	PartyCALIFORNIA AVIATION
Summary:	Not reported
LUST Region 4:	
Report Date:	06/30/1992
Lead Agency	: Local Agency
Local Agency	: 19033
Case Numbe	r: 904050161
Substance:	Gasoline
Case Type:	Soil
Status:	Pollution characterization
Region:	4

Not reported

24TH ST 0.00000

904050152

Not reported

Local Agency

19033

Undefined

Not reported

Not reported

Not reported

Not reported

12/20/94

10/01/91

Cleanup Fund Id : Not reported Discover Date : 04/30/91 Enforcement Dt : / /

12/20/94

Los Angeles Region

Staff: CORTESE:

Reg By:	LTNKA
Reg Id:	082492-04
Region:	CORTESE

SANTA MONICA FIRE DEPT. 2450 ASHLAND AVE SANTA MONICA, CA 90405

Qty Leaked:

Reg Board:

Case Type:

Review Date:

Pollution Char:

Remed Action:

Close Date: Release Date:

Workplan:

Status: County:

Chemical:

Case Number

Lead Agency: Local Agency :

3601 Higher

22

West

1/2-1

Map ID Direction Distance

Distance (ft.)

Site

Elevation

State LUST: Cross Street: Cortese S101298051 LUST N/A

Confirm Leak: Prelim Assess: Remed Plan: Monitoring:

Signed off, remedial action completed or deemed unnecessary

Not reported 10/01/91 Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

S101298051

SANTA MONICA FIRE DEPT. (Continued)

Enf Type: Not reported 11/04/91 Enter Date : Funding: Not reported Staff Initials: Not reported How Discovered: Tank Test How Stopped: **Remove Contents** Interim : Not reported Not reported Lat/Lon : Leak Cause: Unknown Unknown Leak Source: Local Case # : Not reported Not reported Beneficial: Staff : Not reported MTBE Date : 11 MTBE Tested : Not reported Max MTBE GW: 0.00000 GW Qualifies : Not reported Max MTBE Soil: 0.00000 Soil Qualifies : Not reported Hydr Basin #: Not reported Operator : Not reported Oversight Prgm: LIA Priority: Not reported 12/20/94 **Review Date :** Stop Date : IIStreet Number: 2450 Work Suspended Not reported Responsible PartyCITY OF SANTA MONICA BRIAN JOHNSON, ENVIRONMENTAL COORDINATOR Summary: LUST Region 4: ŧ

Report Date:	10/01/1991
Lead Agency:	Local Agency
Local Agency:	19033
Case Number:	904050152
Substance:	Gasoline
Case Type:	Undefined
Status:	Signed off, remedial action completed or deemed unnecessary
Region:	4
Staff:	Not reported

CORTESE:

LOS ANGELES, CA

Reg By:	LTNKA
Reg Id:	111891-04
Region:	CORTESE

EB SANTA MONICA FY X BUNDY

23 NNW. 1/2-1 4893 Higher

Map ID Direction Distance

Distance (ft.)

Site

Elevation

S100279740 CHMIRS N/A

Map ID Direction Distance		M	AP FINDINGS			
Distance (ft Elevation	L) Site	·····			Database(s)	EDR ID Numbe
	(Continued)					S100279740
	CHMIRS: OES Control Number: DOT Hazard Class: Chemical Name:	9000763 Not Reported POTASSIUM S	DOT ID:	Not reported		
	Extent of Release: CAS Number: Environmental Contamination Incident Date:	Not reported 10117381 : Ground 19-MAR-90	Quantity Released: Property Use: Date Completed:	4 Freeway 19-MAR-90		
24 NW 1/2-1	3205 PICO BLVD. SANTA MONICA, CA 90405				CHMIRS	S100277682 N/A
5198 Higher						
	CHMIRS: OES Control Number: DOT Hazard Class: Chemical Name:	9117208 Flammable liqu PAINT	DOT ID: id	1263		
	Extent of Release: CAS Number: Environmental Contamination Incident Date:	Not reported Not reported Ground 23-MAY-91	Quantity Released: Property Use: Date Completed:	5 Residential 23-MAY-91		
	E/B I-10 342' E/CENTINELA AVE LOS ANGELES, CA		<u></u>		CHMIRS	S100279790 N/A
- - -	CHMIRS: OES Control Number: DOT Hazard Class: Chemical Name: Extent of Release:	9010160 Miscellaneous h SILVER NITRA Not reported	DOT ID: azardous material TE	1493		
	CAS Number: Environmental Contamination: Incident Date:	Not reported	Quantity Released: Property Use: Date Completed:	10 Freeway 19-MAR-90		
6					CHMIRS	S100277369
	2627 CLOVERVIEW BLVD. SANTA MONICA, CA 90405					N/A
- - - -	CHMIRS: OES Control Number: DOT Hazard Class: Chemical Name:	9115932 Not Reported OIL	DOT ID:	1270		·
·	Extent of Release: CAS Number: Environmental Contamination: Incident Date:	Not reported Not reported Water 15-MAR-91	Quantity Released: Property Use: Date Completed:	1 County/City Road 15-MAR-91		·

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Site				Database(s)	EDR ID Number EPA ID Number
MURPHY INDUSTRIA RTE 10 AT 10/60 SEP LOS ANGELES, CA				HAZNET	S103679782 N/A
HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County		Tepaid: Telephone: Tsd County:	CAT000 (000) 00 Kings		
	OF ECHO PARK AVE. THOMAS BRO OF ECHO PARK AVE. THOMAS BRO			ERNS	96497688 N/A
MURPHY IND COATIN RTE 134 / PASS ST (LOS ANGELES, CA				HAZNET	S103679783 N/A
HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County		Tepaid: Telephone: Tsd County:		0088252 00-0000 geles	
LEMCO, INC 802 E. 61ST STREET LOS ANGELES, CA				CERCLIS FINDS	1002826697 CASFN090555
CERCLIS Classificat	gory: Not reported : Not reported ent History: DISCOVERY UNILATERAL ADMIN ORDER	Federa NPL St Comple Comple	atus: N sted: 2	lot a Federal Fa lot on the NPL 20000429 20000925	cility
1508 SOUTH ALAMEE 1508 SOUTH ALAMEE LOS ANGELES, CA				ERNS	8710902 N/A
450 SOUTH BAUCHET 150 SOUTH BAUCHET 105 ANGELES, CA				ERNS	94463363 N/A

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Site		.	Da	itabase(s)	EDR ID Number EPA ID Number
	3 TO SOUTH BOUND 1-5 3 TO SOUTH BOUND 1-5			ERNS	94415726 N/A
	BOR FREEWAY/ TO THE EAST BOUND BOR FREEWAY/ TO THE EAST BOUND			ERNS	8718035 N/A
	FICE @ 1450 S. BUNDY FICE @ 1450 S. BUNDY			ERNS	8722318 N/A
CITY OF LOS ANGEL CAL STATE LOS ANG LOS ANGELES, CA				HAZNET	S100932655 N/A
	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013	Tepaid: Telephone: Tsd County: al organic residues	CAD9807374 (000) 000-00 Los Angeles	000	
County Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	Not reported CAH777000390 CITY OF LOS ANGELES Los Angeles 6.1299 Waste oil and mixed oil Recycler RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013 Not reported	Tepaid: Telephone: Tsd County:	CAD9807374 (000) 000-00 Los Angeles	000	
Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	CAH777000390 CITY OF LOS ANGELES Los Angeles 0	Tepaid: Telephone: Tsd County:	CAT080010 (000) 000-00 San Diego		
County Gepaid: Contact: Gen County: Tons: Category:	Not reported CAH777000390 CiTY OF LOS ANGELES Los Angeles 2.8547	Tepaid: Telephone: Tsd County:	CAT080010 [.] (000) 000-00 San Diego		
Disposal Method:	Transfer Station RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013 Not reported			• .	

Site			Datab	ase(s)	EPA ID Num
CITY OF LOS ANGELI	ES (Continued)				S100932655
	CAH777000390 CITY OF LOS ANGELES Los Angeles 0.0085 Treatment, Tank RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013	Tepaid: Telephone: Tsd County:	CAT080010101 (000) 000-0000 San Diego		
County	Not reported				
	The CA HAZNET database contains 4 ac Please contact your EDR Account Execu				
AZ PHOTO			Н	AZNET	S103660721
4583 CENTINELA BL					N/A
LOS ANGELES, CA 9	0066				
HAZNET:					
Gepaid:	CAL000143141	Tepaid:	CAD108040858		
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000		
Gen County:	Los Angeles	Tsd County:	Los Angeles		
Tons:	0.025				
Category:	Photochemicals/photoprocessing waste				
Disposal Method:	-				
Mailing Address:	4583 S CENTINELA AVE				
_ .	LOS ANGELES, CA 90066				
County	Not reported				•
Gepaid:	CAL000143141	Tepaid:	CAD108040858	3	
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000		
Gen County:	Los Angeles	Tsd County:	Los Angeles		
Tons:	0.1208				
Category:	Photochemicals/photoprocessing waste				
Disposal Method:					
Mailing Address:	4583 S CENTINELA AVE				
	LOS ANGELES, CA 90066				
County	Not reported				
100 NORTH ENTRATA 100 NORTH ENTRATA .OS ANGELES, CA				ERNS	87463616 N/A
			,		
	SECRANS BLVD/SOUTH BOUND ONR/ SECRANS BLVD/SOUTH BOUND ONR/			ERNS	99636090 N/A
	RWY SOUTH OF TEMPLIN HWY			ERNS	92284891

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Site				Database(s)	EDR ID Numbe
GOLDEN STATE FRW GOLDEN STATE FRW LOS ANGELES, CA				ERNS	90466124 N/A
GOLDEN STATE FRW GOLDEN STATE FRW LOS ANGELES, CA				ERNS	90188346 N/A
PLATING SHOP 5816 HOOPER AVEN LOS ANGELES, CA	JE			CERC-NFRAP	1001212411 CA000205949
CERCLIS-NFRAP Classification Data: Site Incident Category: Not reported Ownership Status: Not reported CERCLIS-NFRAP Assessment History: Assessment: DISCOVERY		NPL	Federal Facility: No NPL Status: No Completed: 19		cility
Assessment: CERCLIS-NFRAP A TOUCH OF CLA	PRELIMINARY ASSESSMENT lias Name(s): SS FURNITURE MFG. CO.	Con	npleted:	19980626	
BARNARD TRANSPO -5 HWY / HWY 118 A LOS ANGELES, CA				HAZNET	S102804827 N/A
HAZNET:					
Gepaid:	CAC001103160		CAT		
Contact: Gen County:	WILLIAM W BARNARD Los Angeles	Tepaid: Telephone: Tsd County:	(209)	000646117 <u>222-</u> 4276 5	
Contact: Gen County: Tons: Category: Disposal Method:	WILLIAM W BARNARD	Telephone:	(209)	222-4276	
Contact: Gen County: Tons: Category: Disposal Method:	WILLIAM W BARNARD Los Angeles 4 Other inorganic solid waste Disposal, Land Fill 3029 W INDIANAPOLIS	Telephone:	(209) : King:	222-4276 5	
Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County Gepaid: Contact: Gen County: Tons:	WILLIAM W BARNARD Los Angeles 4 Other inorganic solid waste Disposal, Land Fill 3029 W INDIANAPOLIS FRESNO, CA 93722 Not reported CAC001103160 WILLIAM W BARNARD Los Angeles 10.5084	Telephone:	(209) Kings CAT((209)	222-4276	
Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	WILLIAM W BARNARD Los Angeles 4 Other inorganic solid waste Disposal, Land Fill 3029 W INDIANAPOLIS FRESNO, CA 93722 Not reported CAC001103160 WILLIAM W BARNARD Los Angeles 10.5084 Unspecified aqueous solution	Telephone: Tsd County: Tepaid: Telephone:	(209) Kings CAT((209)	222-4276 5 080013352 1222-4276	

UNOCAL SO CAL. DIV. PIPE LINE SO. IMPERIAL HWY, E. OF BLOOM-LOS ANGELES, CA

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HAZNET S102801764 N/A

Database(s)

EDR ID Number EPA ID Number

S102801764

UNOCAL SO CAL. DIV. PIPE LINE (Continued)

Site

RSECTION OF O			ERN	96497980
County	Not reported			
•	9653 SANTA FE SPRINGS RD SANTA FE SPRINGS, CA 90670 - 2917			
	Disposal, Land Fill			
Category:	Contaminated soil from site clean-ups			
Tons:	160.2571		· ···· g -	
Contact: Gen County:	UNOCAL SO CAL DIV. PIPELINE Los Angeles	Telephone: Tsd County:	(000) 000-0000 Kings	
Gepaid:	CAC001010256	Tepaid:	CAT000646117	
County	SANTA FE SPRINGS, CA 90670 - 2917 Not reported			
	9653 SANTA FE SPRINGS RD			
	Disposal, Land Fill			
Tons: Category:	282.338 Other organic solids			
Gen County:	Los Angeles	Tsd County:	Kings	
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000	
Gepaid:	CAC001010256	Tepaid:	CAT000646117	
County	SANTA FE SPRINGS, CA 90670 - 2917 Not reported			
	9653 SANTA FE SPRINGS RD			
Disposal Method:				
Category:	Other organic solids			
Gen County: ' Tons:	46.354	rou oouniy.	Tungo	
Contact:	UNOCAL SO CAL DIV. PIPELINE Los Angeles	Telephone: Tsd County:	(000) 000-0000 Kings	
Gepaid:	CAC001010256	Tepaid:	CAT000646117	
ZNET:				-

INT INTERSECTION OF ORANGE DRIVE AND ADAMS BLVD. LOS ANGELES, CA

1201 SOUTH LABREA AVE 1201 SOUTH LABREA AVE LOS ANGELES, CA

MAIN CHANNEL SOUTH WEST MARINE PIER 240 MAIN CHANNEL SOUTH WEST MARINE PIER 240 LOS ANGELES, CA

NORTHBOUND I 110 SOUTH OF 49TH ST OVERCROSSING NORTHBOUND I 110 SOUTH OF 49TH ST OVERCROSSING LOS ANGELES, CA

ERNS 91220453

96486024

N/A

ERNS

N/A

ERNS 8863742 . N/A

Site			Database(s)	EDR ID Number EPA ID Number
	BLVD. SOUTH OF SEPULVEDA BLVD. SOUTH OF SEPULVEDA		ERNS	90465151 N/A
ON OGDON ST SOUT ON OGDON ST SOUT LOS ANGELES, CA			ERNS	94369353 N/A
MOBIL OIL SERVICE 2001 E PACIFIC COAS LOS ANGELES, CA			HAZNET	S102813346 N/A
HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address:	CAL000050415 MOBIL Los Angeles 2.7105 Aqueous solution with less than 10° Not reported PO BOX 142667 AUSTIN, TX 78714 - 2667	Tepaid: Telephone: Tsd County: % total organic residues	CAT080011059 (703) 846-5734 Los Angeles	
County Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	Not reported CAL000050415 MOBIL Los Angeles 2.7105 Aqueous solution with less than 10 Recycler PO BOX 142667 AUSTIN, TX 78714 - 2667 Not reported	Tepaid: Telephone: Tsd County: % total organic residue:	CAT080011059 (703) 846-5734 Los Angeles	
1X THE PARK AND RI PACIFIC COAST HWY LOS ANGELES, CA			HAZNET	S100928272 N/A
HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	CAC000836976 CAL TRANS Los Angeles 0.1653 Asbestos-containing waste Disposal, Land Fill 1299 EAST ARTESIA BLVD CARSON, CA 90746 Not reported	Tepaid: Telephone: Tsd County:	CAD067786749 (000) 000-0000 Los Angeles	
ON RAMP I-10 WEST ON RAMP I-10 WEST LOS ANGELES, CA			ERNS	96472160 N/A

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Site			Da	tabase(s)	EDR ID Numb EPA ID Numb
••••	PIER 3 TERMINAL ISLAND PIER 3 TERMINAL ISLAND			ERNS	99648750 N/A
	II FIELD, SOUTHERN PACIFIC SITE II FIELD, SOUTHERN PACIFIC SITE			ERNS	92273665 N/A
3 MI SOUTH ANGELS 3 MI SOUTH ANGELS LOS ANGELES, CA				ERNS	93332555 N/A
IX MOUNTAINS REC LA TUNA CANYON R LOS ANGELES, CA	RTN & CONCV AUTHORITY OAD / HWY 210			HAZNET	S102798959 N/A
	CAC000941848 ONIK DAMARYAN/DAVID AZARYAN Los Angeles 0.1876 Unspecified solvent mixture Waste Transfer Station 3750 SOLSTICE CANYON ROAD MALIBOU, CA 90265 Not reported	Tepaid: Telephone: Tsd County:	CAD000088 (000) 000-00 Los Angeles		
Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	CAC000941848 ONIK DAMARYAN/DAVID AZARYAN Los Angeles 0.1 Unspecified oil-containing waste	Tepaid: Telephone: Tsd County:	CAD000088 (000) 000-00 Los Angeles	000	
	TATION 4010 791 SOUTH CENTRAL AV TATION 4010 791 SOUTH CENTRAL AV			ERNS	94463355 N/A
	OUTH ROBERTSON BLVD OUTH ROBERTSON BLVD			ERNS	93321667 N/A
9200 SOUTH WESTE 9200 SOUTH WESTE OS ANGELES, CA		· · · ·		ERNS	92263022 N/A

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Site			E	atabase(s)	EDR ID Number EPA ID Number
	DRIVE CROSSES THE THOMAS CHAN DRIVE CROSSES THE THOMAS CHAN			ERNS	90163116 N/A
PARROT PAINTING C 3021 AIRPORT AVE S SANTA MONICA, CA	TE 101G			HAZNET	S103981056 N/A
HAZNET: Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address:	PO BOX 143 TOPANGA, CA 90290	Tepaid: Telephone: Tsd County: I, ethyl acetate, etc.	CAD00008 (310) 397-7 Los Angele	294	
County Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address:		Tepaid: Telephone: Tsd County:	CAD00008 (310) 397-7 Los Angele	294	
County SUSAN CUMMINGS 3021 AIRPORT AVE #				- Haznet	S104570980 N/A
SANTA MONICA, CA	90405				
HAZNET: Gepaid: Contact: Gen County: Tons: Category:	CAC002173401 SUSAN CUMMINGS Los Angeles 0.175 Metal dust - machining waste and Alka metals (antimony, arsenic, barium, ber copper, lead, mercury, molybdenum, ni vanadium, and zinc)	/llium, cadmium, ch	romium, cobalt	9394	
Disposal Method: Mailing Address:					
County	Not reported				
Gepaid:	CAC002173401	Tepaid: Telephone:	AZD98069 (805) 933-9		

Site			Database(s)	EDR ID Number EPA ID Number
LOS ANGELES FINE 2290 CENTINELA WEST LOS ANGELES			HAZNET	S103643708 N/A
HAZNET:		.•		
Gepaid:	CAC001342568	Tepaid:	CAD008252405	
Contact:	LOS ANGELES FINE ARTS	Telephone:	(000) 000-0000	
Gen County:	Los Angeles	Tsd County:	Los Angeles	
Tons:	0.8131			
Category:	Unspecified organic liquid mixture			
Disposal Method:	Recycler			
Mailing Address:	2290 CENTINELA WEST LOS ANGELES, CA 90064			
County	Not reported			

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City	EDR ID	Sila Marne	Site Address	ZIP Database(s)	Facility ID
LOS ANGELES	1002826697	1002826687 LEMCO, INC	802 E. 61ST STREET	CERCI IS FINDS	
LOS ANGELES	S100932655	CITY OF LOS ANGELES	CAL STATE LOS ANGELES	HAZNET	CAH777000390
LOS ANGELES	S103660721 AZ PHOTO	AZ PHOTO	4583 CENTINELA BLVD.	90066 HAZNET	CAL000143141
LOS ANGELES	S102801764	3102801764 UNOCAL SO CAL DIV. PIPE LINE	SO. IMPERIAL HWY, E. OF BLOOM-		CAC001010258
LOS ANGELES	S102813346	\$102813346 MOBIL OIL SERVICE STATION #99 LNG	2001 E PACIFIC COAST HIGHWAY	HAZNET	CAL000050415
LOS ANGELES	S100928272	S100928272 1X THE PARK AND RIDE LOT	PACIFIC COAST HWY /	HAZNET	CAC000836976
SANTA MONICA	S103981056	PARROT PAINTING COMPANY	3021 AIRPORT AVE STE 101G	90405 HAZNET	CAL000172087
SANTA MONICA	S104570980	3104570980 SUSAN CUMMINGS	3021 AIRPORT AVE # 102B	90405 HAZNET	CAC002173401
WEST LOS ANGELES	S103643708	5103643708 LOS ANGELES FINE ARTS	2290 CENTINELA	90064 HAZNET	CAC001342568

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Etapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 01/23/01 Date Made Active at EDR: 02/16/01 Database Release Frequency: Semi-Annually

Proposed NPL: Proposed National Priority List Sites

Source: EPA Telephone: N/A

> Date of Government Version: 01/23/01 Date Made Active at EDR: 02/16/01 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/05/01 Elapsed ASTM days: 11 Date of Last EDR Contact: 02/05/01

Date of Data Arrival at EDR: 02/05/01 Elapsed ASTM days: 11 Date of Last EDR Contact: 02/05/01

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/28/00 Date Made Active at EDR: 02/28/01 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 12/29/00 Elapsed ASTM days: 61 Date of Last EDR Contact: 03/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 12/28/00 Date Made Active at EDR: 02/28/01 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 12/29/00 Elapsed ASTM days: 61 Date of Last EDR Contact: 03/26/01

CORRACTS: Corrective Action Report Source: EPA Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/20/00 Date Made Active at EDR: 08/01/00 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 06/12/00 Elapsed ASTM days: 50 Date of Last EDR Contact: 03/14/01

RCRIS: Resource Conservation and Recovery Information System Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00 Date Made Active at EDR: 07/31/00 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 07/10/00 Elapsed ASTM days: 21 Date of Last EDR Contact: 01/30/01

Date of Data Arrival at EDR: 08/11/00

Date of Last EDR Contact: 02/02/01

Elapsed ASTM days: 26

ERNS: Emergency Response Notification System

Source: EPA/NTIS Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00 Date Made Active at EDR: 09/06/00 Database Release Frequency: Quarterly

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97 Database Release Frequency: Biennially Date of Last EDR Contact: 03/19/01 Date of Next Scheduled EDR Contact: 06/18/01

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A Database Release Frequency: Varies Date of Last EDR Contact: N/A Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: NTIS

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/99 Database Release Frequency: Annually Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425 (e), sites may be deleted from the NPL where no further response is appropriate.

GOVERNMENT RECORDS SEARCHED/ DATA CURRENCY TRACKING Date of Last EDR Contact: 02/05/01 Date of Government Version: 01/23/01 Date of Next Scheduled EDR Contact: 05/07/01 Database Release Frequency: Semi-Annually FINDS: Facility Index System/Facility Identification Initiative Program Summary Report Source: EPA Telephone: N/A Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FiNDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System). Date of Last EDR Contact: 01/09/01 Date of Government Version: 07/07/00 Database Release Frequency: Quarterly Date of Next Scheduled EDR Contact: 04/09/01 HMIRS: Hazardous Materials Information Reporting System Source: U.S. Department of Transportation Telephone: 202-366-4526 Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. Date of Government Version: 05/31/00 Date of Last EDR Contact: 01/23/01 Date of Next Scheduled EDR Contact: 04/23/01 Database Release Frequency: Annually MLTS: Material Licensing Tracking System Source: Nuclear Regulatory Commission Telephone: 301-415-7169 MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis. Date of Government Version: 01/30/01 Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01 **Database Release Frequency: Quarterly MINES:** Mines Master Index File Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Date of Government Version: 08/01/98 Date of Last EDR Contact: 01/02/01 Date of Next Scheduled EDR Contact: 04/02/01 Database Release Frequency: Semi-Annually NPL LIENS: Federal Superfund Liens Source: EPA Telephone: 205-564-4267 Federal Superfund Liens, Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens. Date of Government Version: 10/15/91 Date of Last EDR Contact: 02/20/01 Date of Next Scheduled EDR Contact: 05/21/01 Database Release Frequency: No Update Planned PADS: PCB Activity Database System Source: EPA Telephone: 202-260-3936 PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities. Date of Last EDR Contact: 02/12/01 Date of Government Version: 01/01/00 Date of Next Scheduled EDR Contact: 05/14/01 **Database Release Frequency: Annually**

RAATS: RCRA Administrative Action Tracking System	
Source: EPA	
Telephone: 202-564-4104	
RCRA Administration Action Tracking System. RAATS contains	records based on enforcement actions issued under RCRA
pertaining to major violators and includes administrative and	civil actions brought by the EPA. For administration
actions after September 30, 1995, data entry in the RAATS d	atabase was discontinued, EPA will retain a copy of
the database for historical records. It was necessary to termin made it impossible to continue to update the information cont	ained in the database.
Date of Government Version: 04/17/95	Date of Last EDR Contact: 03/13/01
Database Release Frequency: No Update Planned	Date of Next Scheduled EDR Contact: 06/11/01
TRIS: Toxic Chemical Release Inventory System	
Source: EPA	
Telephone: 202-260-1531 Toxic Release Inventory System. TRIS identifies facilities which	release toxic chemicals to the air water and
land in reportable quantities under SARA Title III Section 313.	
Date of Government Version: 12/31/97	Date of Last EDR Contact: 03/26/01
Database Release Frequency: Annually	Date of Next Scheduled EDR Contact: 06/25/01
TSCA: Toxic Substances Control Act	
Source: EPA	\sim
Telephone: 202-260-1444	
Toxic Substances Control Act. TSCA identifies manufacturers an	
TSCA Chemical Substance Inventory list. It includes data on t site.	the production volume of these substances by plant
Date of Government Version: 12/31/98	Date of Last EDR Contact: 03/30/01
Database Release Frequency: Every 4 Years	Date of Next Scheduled EDR Contact: 06/12/01
FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide Source: EPA/Office of Prevention, Pesticides and Toxic Substan Telephone: 202-564-2501	e, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) nces
FTTS tracks administrative cases and pesticide enforcement act	ions and compliance activities related to FIFRA.
TSCA and EPCRA (Emergency Planning and Community Rig	white to Know Act). To maintain currency, EDR contacts the
Agency on a quarterly basis.	
Date of Government Version: 08/30/00	Date of Last EDR Contact: 03/26/01
Database Release Frequency: Quarterly	Date of Next Scheduled EDR Contact: 06/25/01
FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Inse Source: EPA	cticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control A
Telephone: 202-564-2501	
Date of Government Version: 08/10/00	Date of Last EDR Contact: 03/26/01
Database Release Frequency: Quarterly	Date of Next Scheduled EDR Contact: 06/25/01
STATE OF CALIFORNIA ASTM STANDARD RECORDS	
CAL-SITES (AWP): Annual Workplan Sites	
Source: California Environmental Protection Agency	
Telephone: 916-323-3400	
Known Hazardous Waste Sites. California DTSC's Annual Work	plan (AWP), formerly BEP, identifies known hazardous
substance sites targeted for cleanup.	

Date of Government Version: 11/08/00 Date Made Active at EDR: 03/02/01 Database Release Frequency: Annually Date of Data Arrival at EDR: 01/31/01 Elapsed ASTM days: 30 Date of Last EDR Contact: 01/30/01

CAL-SITES (ASPIS): Calsites Database Source: Department of Toxic Substance Control Telephone: 916-323-3400 The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. Date of Data Arrival at EDR: 10/30/00 Date of Government Version: 10/01/00 Elapsed ASTM days: 23 Date Made Active at EDR: 11/22/00 Date of Last EDR Contact: 01/09/01 Database Release Frequency: Quarterly CHMIRS: California Hazardous Material Incident Report System Source: Office of Emergency Services Telephone: 916-464-3283 California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills). Date of Data Arrival at EDR: 03/13/95 Date of Government Version: 12/31/94 Elapsed ASTM days: 42 Date Made Active at EDR: 04/24/95 Date of Last EDR Contact: 02/26/01 Database Release Frequency: No Update Planned CORTESE: "Cortese" Hazardous Waste & Substances Sites List Source: CAL EPA/Office of Emergency Information Telephone: 916-327-1848 The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). Date of Data Arrival at EDR: 08/26/98 Date of Government Version: 04/01/98 Elapsed ASTM days: 28 Date Made Active at EDR: 09/23/98 Date of Last EDR Contact: 01/30/01 **Database Release Frequency: Varies** NOTIFY 65: Proposition 65 Records Source: State Water Resources Control Board Telephone: 916-657-0696 Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk. Date of Data Arrival at EDR: 11/01/93 Date of Government Version: 10/21/93 Date Made Active at EDR: 11/19/93 Elapsed ASTM days: 18 Date of Last EDR Contact: 01/26/01 Database Release Frequency: No Update Planned TOXIC PITS: Toxic Pits Cleanup Act Sites Source: State Water Resources Control Board Telephone: 916-227-4364 Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. Date of Data Arrival at EDR: 08/30/95 Date of Government Version: 07/01/95 Elapsed ASTM days: 27 Date Made Active at EDR: 09/26/95 Date of Last EDR Contact: 02/06/01 Database Release Frequency: No Update Planned SWF/LF (SWIS): Solid Waste information System Source: Integrated Waste Management Board Telephone: 916-341-6320 Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/10/01 Date Made Active at EDR: 03/29/01 Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/19/01

Date of Data Arrival at EDR: 03/01/01

Elapsed ASTM days: 28

of the following databases: Facility Information, Scheduled In	and inventory of waste management units. WMUDS is composed spections Information, Waste Management Unit Information, ation, SWAT Report Summary Data, Chapter 15 (formerty Subchapte
Date of Government Version: 04/01/00 Date Made Active at EDR: 05/10/00 Database Release Frequency: Quarterly	Date of Data Arrival at EDR: 04/10/00 Elapsed ASTM days: 30 Date of Last EDR Contact: 03/16/01
LUST: Leaking Underground Storage Tank Information System Source: State Water Resources Control Board Telephone: 916-445-6532 Leaking Underground Storage Tank Incident Reports. LUST rec storage tank incidents. Not all states maintain these records,	cords contain an inventory of reported leaking underground and the information stored varies by state.
Date of Government Version: 01/10/01 Date Made Active at EDR: 02/12/01 Database Release Frequency: Quarterly	Date of Data Arrival at EDR: 01/11/01 Elapsed ASTM days: 32 Date of Last EDR Contact: 01/11/01
CA UST:	
UST: Hazardous Substance Storage Container Database Source: State Water Resources Control Board Telephone: 916-227-4408 The Hazardous Substance Storage Container Database is a source for current data.	historical listing of UST sites. Refer to local/county
Date of Government Version: 10/15/90 Date Made Active at EDR: 02/12/91 Database Release Frequency: No Update Planned	Date of Data Arrival at EDR: 01/25/91 Elapsed ASTM days: 18 Date of Last EDR Contact: 01/16/01
CA BOND EXP. PLAN: Bond Expenditure Plan Source: Department of Health Services Telephone: 916-255-2118 Department of Health Services developed a site-specific expend Hazardous Substance Cleanup Bond Act funds. It is not upda	
Date of Government Version: 01/01/89 Date Made Active at EDR: 08/02/94 Database Release Frequency: No Update Planned	Date of Data Arrival at EDR: 07/27/94 Elapsed ASTM days: 6 Date of Last EDR Contact: 05/31/94
CA FID UST: Facility Inventory Database Source: California Environmental Protection Agency Telephone: 916-445-6532 The Facility Inventory Database (FID) contains a historical lis tank locations from the State Water Resource Control Boa	ting of active and inactive underground storage ard. Refer to local/county source for current data.
Date of Government Version: 10/31/94 Date Made Active at EDR: 09/29/95 Database Release Frequency: No Update Planned	Date of Data Arrival at EDR: 09/05/95 Elapsed ASTM days: 24 Date of Last EDR Contact: 12/28/98
STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS	
AST: Aboveground Petroleum Storage Tank Facilities Source: State Water Resources Control Board Telephone: 916-227-4382 Registered Aboveground Storage Tanks.	

Date of Government Version: 03/01/01 Database Release Frequency: Quarterly

CA WDS: Waste Discharge System Source: State Water Resources Control Board Telephone: 916-657-1571 Sites which have been issued waste discharge requirements.

Date of Government Version: 02/14/01 Database Release Frequency: Quarterly

HAZNET: Hazardous Waste Information System Source: California Environmental Protection Agency Telephone: 916-255-1136

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/99 Database Release Frequency: Annually

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites Source: Alameda County Environmental Health Services Telephone: 510-567-6700

Date of Government Version: 08/01/00 Database Release Frequency: Semi-Annually

Underground Tanks

Source: Alameda County Environmental Health Services Telephone: 510-567-6700

Date of Government Version: 12/01/00 Database Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

Source: Contra Costa Health Services Department

Telephone: 925-646-2286

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/01/00 Database Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Source: Dept. of Community Health

Telephone: 559-445-3271

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Last EDR Contact: 02/05/01 Date of Next Scheduled EDR Contact: 05/07/01

Date of Last EDR Contact: 03/26/01 Date of Next Scheduled EDR Contact: 06/25/01

Date of Last EDR Contact: 02/14/01

Date of Last EDR Contact: 01/30/01 Date of Next Scheduled EDR Contact: 04/30/01

Date of Next Scheduled EDR Contact: 05/14/01

Date of Last EDR Contact: 01/30/00 Date of Next Scheduled EDR Contact: 04/30/01

Date of Last EDR Contact: 03/05/01

Date of Next Scheduled EDR Contact: 06/04/01

Date of Government Version: 11/29/00 Database Release Frequency: Quarterly

List of Industrial Site Cleanups

Source: Health Care Agency Telephone: 714-834-3446 Petroleum and non-petroleum spills.

Date of Government Version: 06/23/00 Database Release Frequency: Annually

PLACER COUNTY:

Master List of Facilities

Source: Placer County Health and Human Services Telephone: 530-889-7335 List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/18/01 Database Release Frequency: Semi-Annually Date of Next Scheduled EDR Contact: 06/11/01

Date of Next Scheduled EDR Contact: 06/11/01

Date of Last EDR Contact: 03/13/01

Date of Last EDR Contact: 03/13/01

Date of Last EDR Contact: 03/26/01 Date of Next Scheduled EDR Contact: 06/25/01

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites Source: Department of Public Health

Telephone: 909-358-5055 Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/24/01 Database Release Frequency: Quarterly

Underground Storage Tank Tank List

Source: Health Services Agency Telephone: 909-358-5055

Date of Government Version: 12/05/00 Database Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS - Contaminated Sites

Source: Sacramento County Environmental Management Telephone: 916-875-8450

Date of Government Version: 02/06/01 Database Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Source: Sacramento County Environmental Management Telephone: 916-875-8450

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/01 Database Release Frequency: Quarterly Date of Last EDR Contact: 01/23/01 Date of Next Scheduled EDR Contact: 04/23/01

Date of Last EDR Contact: 01/23/01 Date of Next Scheduled EDR Contact: 04/23/01

Date of Last EDR Contact: 02/06/01 Date of Next Scheduled EDR Contact: 05/07/01

Date of Last EDR Contact: 02/06/01 Date of Next Scheduled EDR Contact: 05/07/01

SAN BERNARDINO COUNTY:

Hazardous Material Permits

Source: San Bernardino County Fire Department Hazardous Materials Division Telephone: 909-387-3041

This tisting includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 10/02/00 Database Release Frequency: Quarterly Date of Last EDR Contact: 03/13/01 Date of Next Scheduled EDR Contact: 06/11/01

Date of Last EDR Contact: 02/27/01

Date of Next Scheduled EDR Contact: 05/28/01

SAN DIEGO COUNTY:

Solid Waste Facilities

Source: Department of Health Services Telephone: 619-338-2209 San Diego County Solid Waste Facilities.

Date of Government Version: 07/01/98 Database Release Frequency: Annually

Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division Telephone: 619-338-2268

- The database includes: HE58 This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information
- provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 01/07/01 Database Release Frequency: Quarterly Date of Last EDR Contact: 01/08/01 Date of Next Scheduled EDR Contact: 04/09/01

SAN FRANCISCO COUNTY:

Local Oversite Facilities

Source: Department Of Public Health San Francisco County Telephone: 415-252-3920

Date of Government Version: 01/02/01 Database Release Frequency: Quarterly

Underground Storage Tank Information

Source: Department of Public Health Telephone: 415-252-3920

Date of Government Version: 12/01/00 Database Release Frequency: Quarterly

SAN MATEO COUNTY:

Fuel Leak List

Source: San Mateo County Environmental Health Services Division Telephone: 650-363-1921 Date of Last EDR Contact: 03/13/01 Date of Next Scheduled EDR Contact: 06/11/01

Date of Last EDR Contact: 03/13/01 Date of Next Scheduled EDR Contact: 06/11/01

Date of Government Version: 10/05/00 Database Release Frequency: Semi-Annually

Business Inventory

Source: San Mateo County Environmental Health Services Division Telephone: 650-363-1921 List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/24/99 Database Release Frequency: Annually

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District Telephone: 408-927-0710

Date of Government Version: 12/31/00 Database Release Frequency: Semi-Annually

Hazaroud Material Facilities

Source: City of San Jose Fire Department Telephone: 408-277-4659

Date of Government Version: 09/28/00 Database Release Frequency: Quarterly

SOLANO COUNTY:

Leaking Undergroung Storage Tanks

Source: Solano County Department of Environmental Management Telephone: 707-421-6770

Date of Government Version: 02/06/01 Database Release Frequency: Quarterly

Underground Storage Tanks Source: Solano County Department of Environmental Management Telephone: 707-421-6770

Date of Government Version: 09/01/00 Database Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites Source: Department of Health Services

Telephone: 707-525-6565

Date of Government Version: 12/01/00 Database Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Source: Sutter County Department of Agriculture Telephone: 530-822-7500 Date of Last EDR Contact: 01/30/01 Date of Next Scheduled EDR Contact: 04/30/01

Date of Next Scheduled EDR Contact: 04/16/01

Date of Last EDR Contact: 01/16/01

Date of Last EDR Contact: 01/29/01 Date of Next Scheduled EDR Contact: 04/02/01

Date of Last EDR Contact: 03/13/01 Date of Next Scheduled EDR Contact: 06/11/01

Date of Last EDR Contact: 03/19/01 Date of Next Scheduled EDR Contact: 06/18/01

Date of Last EDR Contact: 03/19/01 Date of Next Scheduled EDR Contact: 06/18/01

Date of Last EDR Contact: 01/30/01 Date of Next Scheduled EDR Contact: 04/30/01

Date of Government Version: 01/02/01 Database Release Frequency: Semi-Annually

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites

Source: Environmental Health Division Telephone: 805-654-2813 Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 06/01/99 Database Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Source: Environmental Health Division Telephone: 805-654-2813 Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/26/00 Database Release Frequency: Quarterly

Underground Tank Closed Sites List

Source: Environmental Health Division Telephone: 805-654-2813 Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/21/00 Database Release Frequency: Quarterly Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01

Date of Last EDR Contact: 03/01/01 Date of Next Scheduled EDR Contact: 05/28/01

Date of Last EDR Contact: 03/19/01 Date of Next Scheduled EDR Contact: 06/18/01

Date of Last EDR Contact: 01/16/01 Date of Next Scheduled EDR Contact: 04/16/01

Date of Last EDR Contact: 03/19/01

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 11/22/00 Database Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report Source: Yolo County Department of Health Telephone: 530-666-8646

Date of Government Version: 07/07/00 Database Release Frequency: Annually Date of Last EDR Contact: 01/23/01 Date of Next Scheduled EDR Contact: 04/23/01

Date of Next Scheduled EDR Contact: 06/18/01

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation

Source: California Regional Water Quality Control Board North Coast (1) Telephone: 707-576-2220

Date of Government Version: 02/01/01 Database Release Frequency: Quartorly Date of Last EDR Contact: 02/28/01 Date of Next Scheduled EDR Contact: 05/28/01

LUST REG 2: Fuel Leak List Source: California Regional Water Quality Control Board San Francisco Bay Regi Telephone: 510-286-0457	on (2)
Date of Government Version: 12/01/00 Database Release Frequency: Quarterty	Date of Last EDR Contact: 01/15/01 Date of Next Scheduled EDR Contact: 04/16/01
LUST REG 3: Leaking Underground Storage Tank Database Source: California Regional Water Quality Control Board Central Coast Region (3 Telephone: 805-549-3147)
Date of Government Version: 02/20/01 Database Release Frequency: Quarterly	Date of Last EDR Contact: 02/19/01 Date of Next Scheduled EDR Contact: 05/21/01
LUST REG 4: Underground Storage Tank Leak List Source: California Regional Water Quality Control Board Los Angeles Region (4) Telephone: 213-266-6600	
Date of Government Version: 11/01/00 Database Release Frequency: Quarterly	Date of Last EDR Contact: 01/02/01 Date of Next Scheduled EDR Contact: 04/02/01
LUST REG 5: Leaking Underground Storage Tank Database Source: California Regional Water Quality Control Board Central Valley Region (5 Telephone: 916-255-3125)
Date of Government Version: 01/02/01 Database Release Frequency: Quarterly	Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01
LUST REG 6L: Leaking Underground Storage Tank Case Listing Source: California Regional Water Quality Control Board Lahontan Region (6) Telephone: 916-542-5424	
Date of Government Version: 01/02/01 Database Release Frequency: Quarterly	Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01
LUST REG 6V: Leaking Underground Storage Tank Case Listing Source: California Regional Water Quality Control Board Victorville Branch Office Telephone: 760-346-7491	(6)
Date of Government Version: 01/02/01 Database Release Frequency: Quarterty	Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01
LUST REG 7: Leaking Underground Storage Tank Case Listing Source: California Regional Water Quality Control Board Colorado River Basin Re Telephone: 760-346-7491	igion (7)
Date of Government Version: 01/24/01 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 01/02/01 Date of Next Scheduled EDR Contact: 04/02/01
LUST REG 8: Leaking Underground Storage Tanks Source: California Regional Water Quality Control Board Santa Ana Region (8) Telephone: 909-782-4498	
Date of Government Version: 11/22/00 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 02/15/01 Date of Next Scheduled EDR Contact: 05/14/01
LUST REG 9: Leaking Underground Storage Tank Report Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 619-467-2952	
Date of Government Version: 12/05/00	Date of Last EDR Contact: 01/22/01 Date of Next Scheduled EDR Contact: 04/23/01

Database Release Frequency: Quarterly

Date of Next Scheduled EDR Contact: 04/23/01

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California Regional Water Quality Control Board (RWQCB) SLIC	Records
SLIC REG 1: Active Toxic Site Investigations Source: California Regional Water Quality Control Board, North Coast Region (1) Telephone: 707-576-2220	
Date of Government Version: 02/01/01 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 02/28/01 Date of Next Scheduled EDR Contact: 05/28/01
SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: Regional Water Quality Control Board San Francisco Bay Region (2) Telephone: 510-286-0457 Any contaminated site that impacts groundwater or has the potential to impact gro	undwater.
Date of Government Version: 12/01/00	Date of Last EDR Contact: 01/15/01
Database Release Frequency: Quarterly	Date of Next Scheduled EDR Contact: 04/16/01
 SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: California Regional Water Quality Control Board Central Coast Region (3 Telephone: 805-549-3147 Any contaminated site that impacts groundwater or has the potential to impact gro 	
Date of Government Version: 02/20/01	Date of Last EDR Contact: 02/19/01
Database Release Frequency: Semi-Annually	Date of Next Scheduled EDR Contact: 05/21/01
SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: Region Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6600 Any contaminated site that impacts groundwater or has the potential to impact group	undwater.
Date of Government Version: 02/01/01 Database Release Frequency: Quarterly	Date of Last EDR Contact: 01/30/01 Date of Next Scheduled EDR Contact: 04/30/01
SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: Regional Water Quality Control Board Central Valley Region (5) Telephone: 916-855-3075 Unregulated sites that impact groundwater or have the potential to impact groundw	vater.
Date of Government Version: 12/30/00 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 01/08/01 Date of Next Scheduled EDR Contact: 04/09/01
SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: Regional Water Quality Control Board, Victorville Branch Telephone: 619-241-6583	
Date of Government Version: 10/01/00 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 01/09/01 Date of Next Scheduled EDR Contact: 04/09/01
SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: California Region Water Quality Control Board Santa Ana Region (8) Telephone: 909-782-3298	
Date of Government Version: 06/01/00 Database Release Frequency: Semi-Annually	Date of Last EDR Contact: 01/11/01 Date of Next Scheduled EDR Contact: 04/09/01
SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 858-467-2980	

Date of Government Version: 06/01/00 Database Release Frequency: Annually Date of Last EDR Contact: 03/05/01 Date of Next Scheduled EDR Contact: 06/04/01

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

.NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK &- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3171 SOUTH BUNDY DRIVE 3171 SOUTH BUNDY DRIVE LOS ANGELES, CA 90066

TARGET PROPERTY COORDINATES

Latitude (North):	34.015598 - 34° 0' 56.2"
Longitude (West):	118.445099 - 118* 26' 42.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	366564.2
UTM Y (Meters):	3764632.8

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and

2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2434118-A4 BEVERLY HILLS, CA Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General South

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

0601590000A / CBNP

0601370071 / CBPP

0601370070C / CBPP 0601370078C / CBPP 0601370077C / CBPP

FEMA FLOOD ZONE

	FEMA Q3 Flood
Target Property County	Data Electronic Coverage
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: Additional Panels in search area:

NATIONAL WETLAND INVENTORY NWI Quad at Target Property

BEVERLY HILLS

NWI Electronic <u>Coverage</u> YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK[®] PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Location Relative to TP:	1 - 2 Miles NW
Site Name:	Mcdonnell-Douglas Aircraft Facility
Site EPA ID Number:	CA0000485326
Groundwater Flow Direction:	South-Southwest
Inferred Depth to Water:	50 feet.
Hydraulic Connection:	Information is not available regarding the hydraulic connection between aquifers underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID 2 3	LOCATION <u>FROM TP</u> 1 - 2 Miles SE 1 - 2 Miles NW	GENERAL DIRECTION GROUNDWATER FLOW Not Reported Not Reported
5 4 5	1 - 2 Miles SSW 1 - 2 Miles SSW	SW
6	1 - 2 Miles WSW	SSW
7	1 - 2 Miles ESE	Not Reported
8	1 - 2 Miles ESE	SSW
9	1 - 2 Miles SSW	S

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

GEOLOGIC AGE IDENTIFICATION

ROCK STRATIGRAPHIC UNIT

Category: Stratifed Sequence

Geologic Code.	Q
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
	•

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Beinbridge Island, WA. Al rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were comple a Concentrative Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported
Hydric Status: Soil does not meet the	requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max:

			Soit Layer	Information			
	Βοι	Indary		Classi			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

> 10 inches

Soil Surface Textures: loam

clay silt loam clay loam sandy loam gravelly - sandy loam loamy sand fine sand coarse sand sand gravelly - sand

Surficial Soil Types:

loam clay sitt loam clay loam sandy loam gravelly - sandy loam loamy sand fine sand

GEOCHECK PHYSICAL SETTING SOURCE SUMMARY

coarse sand
sand
gravelly - sand

fine sandy loam

Shallow Soil Types:

gravelly - loam sand silty clay

Deeper Soil Types:

stratified clay loam silty clay loam gravelly - sandy loam coarse sand sand weathered bedrock very fine sandy loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles) Federal USGS 1.000 Federal FRDS PWS Nearest PWS within 1 mile State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID

WELL ID

No Wells Found

MAP ID

FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION FROM TP

LOCATION

No PWS System Found

Note: PWS System location is not always the same as woll location.

WELL ID

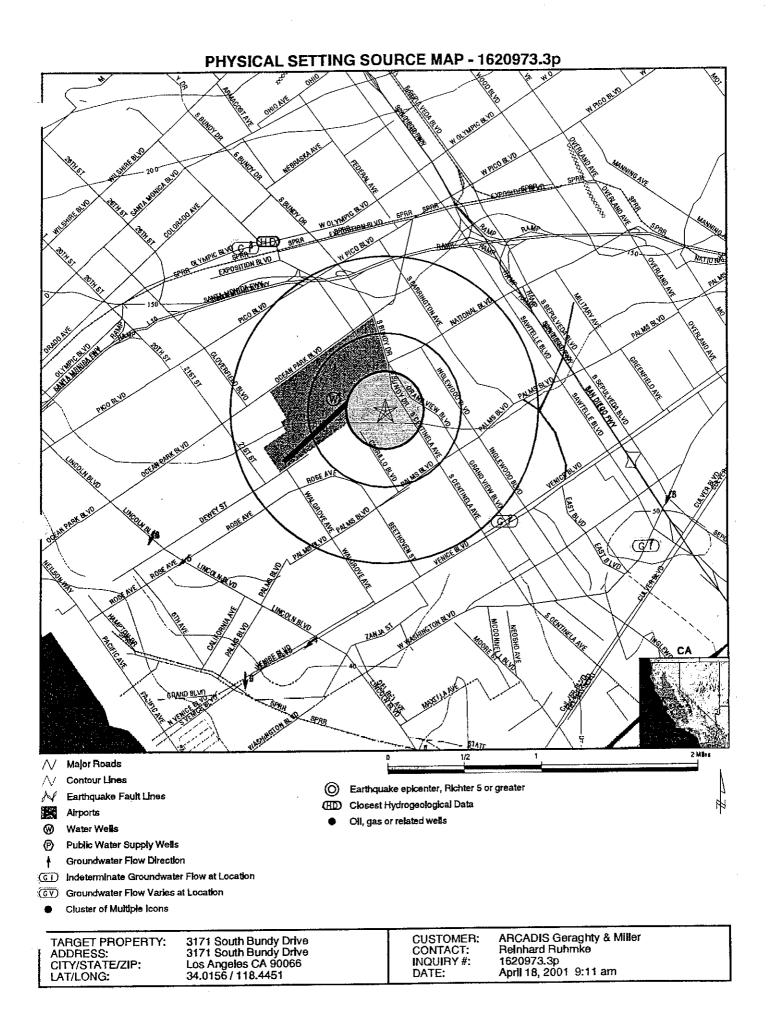
GEOCHECK[®] PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION FROM TP 1/4 - 1/2 Mile WNW



GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Distance Elevation					Database	EDR ID Numbe
1 WNW 1/4 - 1/2 Mile Higher					CA WELLS	2994
FRDS Nu District Nu Water Typ Source La Source Na System N System N	tion Code: mber: umber: oe: at/Long: ame: umber: ame:	02S/15W-04E(1910146013 07 Well/Groundwa 340100.0 1182 SANTA MONIO 1910146	ater		4TH Los Angeles WELL/AMBNT/MUN/IN Destroyed Undefined	Take/Supply
Pop Serve Area Serv	ed:		·	Connections:	15905	
Sample Infor Sample Co Chemical:		n iy Findings Abo 03/11/1985 1.1-DICHLOROI	ve Detection Level	Are Listed Findings:	1.000 UG/L	
Sample Co Chemical:	llected:	03/11/1985 TRICHLOROET	HYLENE	Findings:	10.000 UG/L	
Sample Co Chemical:	llected:	04/26/1985 1.1-DICHLOROI	ETHYLENE	Findings:	.550 UG/L	
Sample Co Chemical:	llected:	04/26/1985 TRICHLOROET	HYLENE	Findings:	8.700 UG/L	
Sample Co Chemical:	llected:	03/23/1987 1,1-DICHLOROS	THYLENE	Findings:	1.000 UG/L	
Sample Co Chemical:	llected:	03/23/1987 TRICHLOROET	HYLENE	Findings:	8.800 UG/L	
Sample Co Chemical:	llected:	04/27/1987 1,1-DICHLOROE	THYLENE	Findings:	1.000 UG/L	
Sample Co Chemical:	llected:	04/27/1987 TRICHLOROET		Findings:	13.100 UG/L	
Sample Co Chemical:	llected:	05/26/1987 TRICHLOROET		Findings:	7.900 UG/L	
2 SE 1 - 2 Miles Lower	Deep Wat	ater Depth:	900570061 Not Reported 8.37 12 Not Reported 08/07/1996		AQUIFLOW	55174
3 NW I - 2 Miles Higher	Deep Wat	ater Depth:	900570061 Nut Reported 8.37 12 Not Reported 08/07/1996	· · · · · · · ·	AQUIFLOW	55200

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GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

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Distance Elevation			Database	EDR ID Number
4 SSW 1 + 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910198 SW 18 22 Not Reported 04/30/1999	AQUIFLOW	70514
5 SW 1 - 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910052 SW Not Reported Not Reported 28 07/18/1991	AQUIFLOW	55279
6 WSW 1 - 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	904050052 SSW Not Reported Not Reported 40 06/22/1993	AQUIFLOW	70477
7 ESE 1 - 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	900570061 Not Reported 8.37 12 Not Reported 08/07/1996	AQUIFLOW	55208
8 ESE 1 - 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	I-07028 SSW 57.32 58.47 Not Reported 07/30/1998	AQUIFLOW	70463
9 SSW 1 - 2 Miles Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910161 S 8.61 10.30 Not Reported 03/31/1999	AQUIFLOW	70404

AREA RADON INFORMATION

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

YSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2 and 6

Source: Department of Conservation Telephone: 916-323-1779

RADON

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

ORPHAN SUMMARY

 $\left(\begin{array}{c} \end{array} \right)$

City	EDR ID	Site Name	Site Address	ZID	Database(s)	Facility ID
LOS ANGELES	1002826697	002826697 LEMCO, INC	802 E. 61ST STREET		CERCI IS FINDS	
LOS ANGELES	S100932655	100932655 CITY OF LOS ANGELES	CAL STATE LOS ANGELES	0000	HAZNET	0.44777000360
LOS ANGELES	S103660721	103660721 AZ PHOTO	4583 CENTINELA BLVD.	90066	HAZNET	CAL 000143141
LOS ANGELES	S102801764	102801764 UNOCAL SO CAL. DIV. PIPE LINE	SO, IMPERIAL HWY, E. OF BLOOM-	00000		CAC0010107056
LOS ANGELES	S102813346	102813346 MOBIL OIL SERVICE STATION #99 LNG	2001 E PACIFIC COAST HIGHWAY	00000		CAL000050415
LOS ANGELES	S100928272	100928272 1X THE PARK AND RIDE LOT	PACIFIC COAST HWY /	00000		CAC000836978
SANTA MONICA	S103981056	103981056 PARROT PAINTING COMPANY	3021 AIRPORT AVE STE 101G	90405	HAZNET	CAL000172087
SANTA MONICA	S104570980	104570980 SUSAN CUMMINGS	3021 AIRPORT AVE # 102B	90405	HAZNET	CAC002173401
WEST LOS ANGELES	S103643708	103643708 LOS ANGELES FINE ARTS	2290 CENTINELA	90064	HAZNET	CAC001342568

Site				Database(s)	EDR ID Number EPA ID Number
LEMCO, INC 802 E. 61ST STREET LOS ANGELES, CA				CERCLIS FINDS	1002826697 CASFN0905590
CERCLIS Classifica Site Incident Cate Ownership Status CERCLIS Assessment Assessment: Assessment: CERCLIS Site Statu Not reported	gory: Not reported : Not reported ant History: DISCOVERY: UNILATERAL ADMIN ORDER	Federal F NPL Statu Complete Complete	us: 1 d: :	Not a Federal Fac Not on the NPL 20000429 20000925	cility
CITY OF LOS ANGELI CAL STATE LOS ANG LOS ANGELES, CA 0	ELES			HAZNET	S100932655 N/A
-	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013	Tepaid: Telephone: Tsd County: al organic residues		0737076 00-0000 geles	
County Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	Not reported CAH777000390 CITY OF LOS ANGELES Los Angeles 6.1299 Waste oil and mixed oil Recycler RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013 Not reported	Tepaid: Telephone: Tsd County:	-	00737076 000-0000 geles	
Gepaid: Contact: Gen County: Tons: Category: Disposal Method: Mailing Address: County	CAH777000390 CITY OF LOS ANGELES Los Angeles 0 Not reported RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013 Not reported	Tepaid: Telephone: Tsd County:		0010101 100-0000 ego	
Gepaid: Contact: Gen County: Tons: Category: Disposal Method:	CAH777000390 CITY OF LOS ANGELES Los Angeles 2.8547	Tepaid: Telephone: Tsd County:		0010101 000-0000 ego	

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EDR ID Number EPA ID Number Database(s) Site S100932655 CITY OF LOS ANGELES (Continued) Tepaid: CAT080010101 CAH777000390 Gepaid: (000) 000-0000 Telephone: CITY OF LOS ANGELES Contact: Tsd County: San Diego Gen County: Los Angeles 0.0085 Tons: Category: Disposal Method: Treatment, Tank Mailing Address: RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013 Not reported County The CA HAZNET database contains 4 additional records for this site. Please contact your EDR Account Executive for more information. HAZNET \$103660721 AZ PHOTO N/A 4583 CENTINELA BLVD. LOS ANGELES, CA 90066 HAZNET: CAD108040858 CAL000143141 Tepaid: Gepaid: Telephone: (000) 000-0000 AZIZ SOROUR Contact: Los Angeles Tsd County: Gen County: Los Angeles 0.025 Tons: Photochemicals/photoprocessing waste Category: **Disposal Method: Recycler** Mailing Address: 4583 S CENTINELA AVE LOS ANGELES, CA 90066 County Not reported CAD108040858 Tepaid: Gepaid: CAL000143141 Telephone: (000) 000-0000 Contact: AZIZ SOROUR Tsd County: Los Angeles Gen County: Los Angeles Tons: 0.1208 Photochemicals/photoprocessing waste Category: **Disposal Method: Recycler** Mailing Address: 4583 S CENTINELA AVE LOS ANGELES, CA 90066 County Not reported HAZNET \$102801764 UNOCAL SO CAL. DIV. PIPE LINE N/A SO, IMPERIAL HWY, E. OF BLOOM-LOS ANGELES, CA 00000 HAZNET: CAT000646117 Tepaid: Gepaid: CAC001010256 Telephone: (000) 000-0000 UNOCAL SO CAL DIV. PIPELINE Contact: Tsd County: Kings Gen County: Los Angeles 46.354 Tons:

County

Category:

Disposal Method: Not reported

Other organic solids

SANTA FE SPRINGS, CA 90670 - 2917

Mailing Address: 9653 SANTA FE SPRINGS RD

Not reported

FOR ID Number EPA ID Number Database(s) Site S102801764 UNOCAL SO CAL. DIV. PIPE LINE (Continued) CAT000646117 CAC001010256 Tepaid: Gepaid: UNOCAL SO CAL DIV. PIPELINE Telephone: (000) 000-0000 Contact: Kings Tsd County: Gen County: Los Angeles Tons: 282.338 Category: Other organic solids Disposal Method: Disposal, Land Fill 9653 SANTA FE SPRINGS RD Mailing Address: SANTA FE SPRINGS, CA 90670 - 2917 Not reported County Tepaid: CAT000646117 CAC001010256 Gepaid: (000) 000-0000 Telephone: Contact: UNOCAL SO CAL DIV. PIPELINE Tsd County: Kings Los Angeles Gen County: 160.2571 Tons: Contaminated soil from site clean-ups Category: Disposal Method: Disposal, Land Fill Mailing Address: 9653 SANTA FE SPRINGS RD SANTA FE SPRINGS, CA 90670 - 2917 Not reported County HAZNET S102813346 **MOBIL OIL SERVICE STATION #99 LNG** N/A 2001 E PACIFIC COAST HIGHWAY LOS ANGELES, CA 00000 HAZNET: Tepaid: CAT080011059 CAL000050415 Gepaid: (703) 846-5734 Contact: MOBIL Telephone: Tsd County: Los Angeles Los Angeles Gen County: 2.7105 Tons: Aqueous solution with less than 10% total organic residues Category: Disposal Method: Not reported Mailing Address: PO BOX 142667 AUSTIN, TX 78714 - 2667 Not reported County CAT080011059 Tepaid: Gepaid: CAL000050415 (703) 846-5734 Telephone: Contact: MOBIL Los Angeles Tsd County: Gen County: Los Angeles 2.7105 Tons: Aqueous solution with less than 10% total organic residues Category: **Disposal Method: Recycler** Mailing Address: PO BOX 142667 AUSTIN, TX 78714 - 2667 Not reported County HAZNET S100928272 1X THE PARK AND RIDE LOT N/A **PACIFIC COAST HWY /** LOS ANGELES, CA 00000 HAZNET: CAD067786749 Tepaid: CAC000836976 Gepaid: (000) 000-0000 Telephone: CAL TRANS Contact: Los Angeles Los Angeles Tsd County: Gen County: 0.1653 Tons: Asbestos-containing waste Category:

Disposal Method: Disposal, Land Fill Mailing Address: 1299 EAST ARTESIA BLVD

County

CARSON, CA 90746 Not reported

DETAILED ORPHAN LISTING

EDR ID Number EPA ID Number Database(s) Site HAZNET S103981056 PARROT PAINTING COMPANY N/A 3021 AIRPORT AVE STE 101G SANTA MONICA, CA 90405 HAZNET: CAD000088252 Tepaid: CAL000172087 Gepaid: (310) 397-7294 Telephone: Contact: DAVID NEWCAMP Los Angeles Tsd County: Los Angeles Gen County: Tons: 0.2293 Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) Category: **Disposal Method: Transfer Station** Mailing Address: PO BOX 143 TOPANGA, CA 90290 Not reported County CAD000088252 Tepaid: CAL000172087 Gepaid: (310) 397-7294 Telephone: DAVID NEWCAMP Contact: Los Angeles Tsd County: Los Angeles Gen County: 0.2293 Tons: Paint sludge Category: **Disposal Method: Transfer Station** Mailing Address: PO BOX 143 TOPANGA, CA 90290 Not reported County HAZNET \$104570980 SUSAN CUMMINGS N/A 3021 AIRPORT AVE # 102B SANTA MONICA, CA 90405 HAZNET: AZD980695332 Tepaid: Gepaid: CAC002173401 (805) 933-9394 Telephone: SUSAN CUMMINGS Contact: 99 Tsd County: Gen County: Los Angeles 0.175 Tons: Metal dust - machining waste and Alkaline solution (pH <UN-> 12.5) with Category: metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc) Disposal Method: Not reported Mailing Address: 323 E MATILIJA # 108 OJAI, CA 93023 Not reported County AZD980695332 Tepaid: CAC002173401 Gepaid: (805) 933-9394 SUSAN CUMMINGS Telephone: Contact: 99 Tsd County: Los Angeles Gen County: 0.1167 Tons: Liquids with cyanides > 1000 mg/l Category: **Disposal Method: Recycler** Mailing Address: 323 E MATILIJA # 108 OJAI, CA 93023 Not reported County

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DETAILED ORPHAN LISTING

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Site			Database(s)	EDR ID Number EPA ID Number
LOS ANGELES FINE 2290 CENTINELA WEST LOS ANGELES			HAZNET	S103643708 N/A
HAZNET:				
Gepaid:	CAC001342568	Tepaid:	CAD008252405	
Contact:	LOS ANGELES FINE ARTS	Telephone:	(000) 000-0000	
Gen County:	Los Angeles	Tsd County:	Los Angeles	
Tons:	0.8131			
Category:	Unspecified organic liquid mixture			
Disposal Method	Recycler			
Mailing Address:	2290 CENTINELA WEST LOS ANGELES, CA 90064			
County	Not reported			

TC1620973.3p Page 35

ARCADIS GERAGHTY&MILLER

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Appendix H

Field Methodologies

Appendix I

FIELD METHODOLOGY

DRILLING AND SAMPLING

Soil Boring: Hollow-Stem Auger Method

Drilling proceeded from ground surface to the designated depth while soil samples were collected at 5 foot intervals using a split-spoon sampler. Prior to drilling, ARCADIS Geraghty & Miller notified Underground Services Alert (USA) and appropriate BAE SYSTEM personnel to confirm the presence or absence of underground utilities near the boring location. In addition, a utility locating company cleared the proposed boring locations.

Drilling was accomplished using 8-inch, outside diameter, hollow-stem augers. A modified California splitspoon sampler was used to collect the soil samples. The sampler was driven into the soil ahead of the augers providing a relatively slough-free 18-inch soil sample contained in three 6-inch brass tubes. One of the brass sleeves were sealed with Teflon sheets and plastic end caps, labeled and placed on ice for transport to the laboratory for chemical analysis or storage. The boring log form was used to document drilling activities and observations. The Unified Soils Classification System (USCS) was used to log lithologies.

All soil sampling equipment was thoroughly cleaned prior to and following use at each sampling location. The cleaning procedures consisted of triple-rinse cleaning methods. The triple-rinse cleaning method employed consisted of washing the equipment in potable water with a cleansing solution, rinsing in potable water, then rinsing with distilled water. All decontamination water was placed in drums, pending final disposition.

An experienced field geologist working under the supervision of a California Registered Geologist maintained the detailed log of activities and collect field data. The on-site geologist produced a detailed geologic log of the boring, conducted field analyses of soil samples, and properly packaged and labeled samples for possible laboratory analysis.

The boring was backfilled to the surface with a cement/bentonite grout mixture upon reaching total boring depth. All drill cuttings were placed in 55-gallon drums, labeled and left on-site pending final disposition.

Soil Boring: Direct-push Method

Prior to drilling, ARCADIS Geraghty & Miller notified Underground Services Alert (USA) and appropriate BAE SYSTEM personnel to confirm the presence or absence of underground utilities near the boring locations. In addition, a utility locating company cleared the proposed boring locations. Drilling proceeded

from ground surface to the designated depths using direct-push drilling methodology. Continuous cores utilizing clear, acetate liners were collected during the investigation to assist in determining the presence of petroleum hydrocarbons. Soil samples were collected in brass tubes at the appropriate sample intervals using a modified split-spoon sampler. For samples proposed for VOC analysis, three subsamples were collected using an En Core[™] sampler following procedures outlined in ASTM 6418-99. Soil sampling and equipment decontamination procedures were similar to the procedures outlined previously.

Each boring was backfilled with a cement/bentonite grout mixture upon reaching total boring depth.

Soil-Gas Sampling

Field methodology for the initial soil-gas sampling performed by EST is provided in the EST report located in Appendix J. Soil-gas probes were installed using direct-push methodology. Once the soil-gas sampling depth was reached, new polyethylene tubing was installed. Soil gas sampling generally followed Los Angeles Regional Water Quality Control Board WIP protocols. Each boring was backfilled and resurfaced.

PERMITTING

No permits were required from the Los Angeles County Department of Health Services (DHS).

LABORATORY ANALYSIS

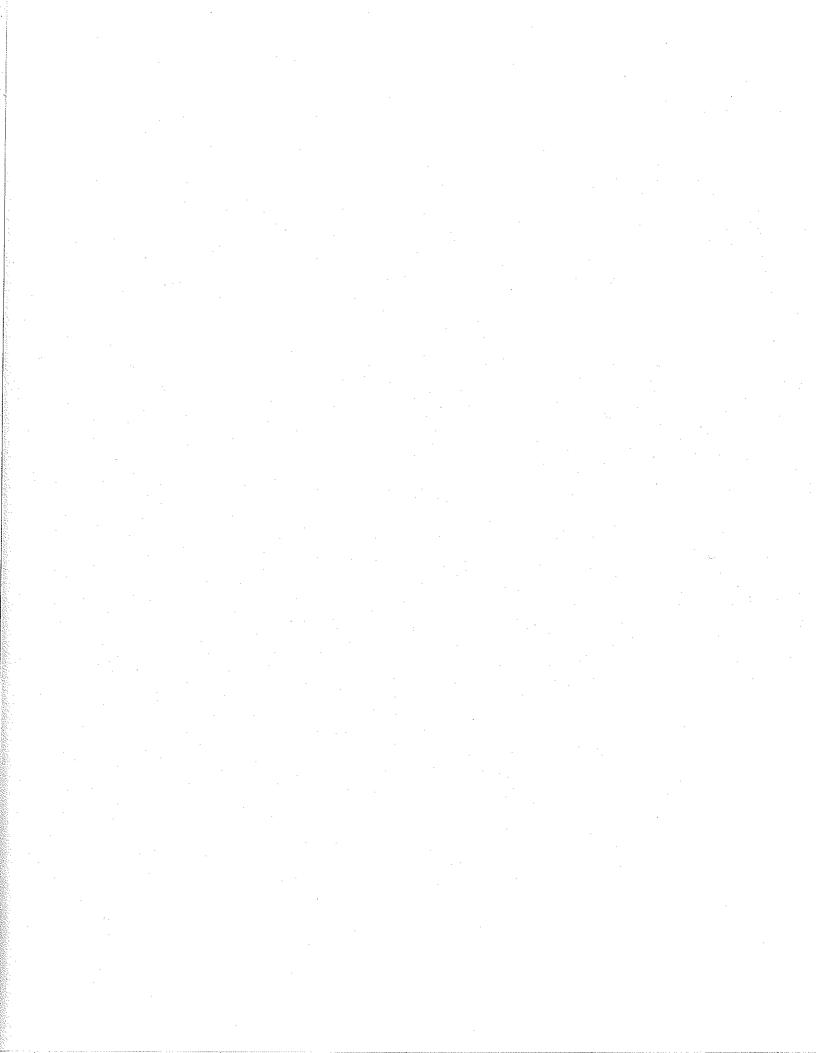
All soil samples were transported in a cooler containing ice, under proper ARCADIS G & M chain-ofcustody protocol to Calscience Environmental Laboratories, Inc. located in Garden Grove, California, a State of California-certified laboratory (Certification No. 1230).

Selected soil samples were analyzed for the following constituents:

- Volatile organic compounds (VOCs) in soil using Environmental Protection Agency (EPA) Method 8260B and extraction method 5035;
- Title 22 metals using EPA methods 6010B and 7471A; and
- Hexavalent Chromium using EPA Method 7199.

Soil-gas samples were analyzed for the following constituents:

Volatile organic compounds (VOCs) using a mobile lab.



ARCADIS GERAGHTY&MILLER

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Appendix I

EST Soil Gas Report



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MAY 3 0 2001 ARCADIS Geraghty & Miller

May 29, 2001

EST1928

Mr. Reinhard Ruhmke ARCADIS Geraghty and Miller, Inc. 1400 N. Harbor Boulevard, Suite 700 Fullerton, California 92835-4127

Subject: Soil Gas Survey Report BAE Systems Facility 3171 South Bundy Drive Santa Monica, California

Dear Mr. Ruhmke

Environmental Support Technologies, Inc. (EST) is pleased to submit the results of the soil gas survey conducted at the BAE Systems facility located at 3171 South Bundy Drive in Santa Monica, California. On May 11 and 14, 2001, EST installed and sampled twenty six (26) 5-foot soil gas sampling probes. The soil gas samples were subsequently analyzed onsite for volatile organic compounds (VOCs) including halogenated and aromatic hydrocarbons. The soil gas survey was conducted in general accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

A summary of field analytical results for soil gas samples is provided in Table 1. Factors that may affect the distribution of VOCs in the subsurface are presented in Appendix A. Field analytical reports, quality assurance/quality control data, and reportable limits of quantitation for halogenated and aromatic hydrocarbons are provided in Appendix B. EST's standard methods and procedures for soil gas surveys are provided in Appendix C.

EST appreciates the opportunity to assist ARCADIS Geraghty and Miller, Inc. on this project. Should you have any questions or require additional information, please contact me at (949) 457-9664.

Sincerely,

Environmental Support Technologies, Inc.

Kein B. anlall

Kevin B. Aardahl Project Manager

23276 Del Lago Drive • Laguna Hills, California 92653 • 949/457-9664 • Fax 949/457-0664

LIMITATIONS AND WARRANTIES

This letter report titled "Soil Gas Survey Report – BAE Systems Facility, 3171 South Bundy Drive, Santa Monica, California," has been prepared for the exclusive use of ARCADIS Geraghty and Miller, Inc. and assigned interested parties. The report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made. The information provided in this report is based on measurements performed in specific areas during a specific limited period of time.

Soil gas sample analysis is conducted using laboratory-grade gas chromatography equipment. Chemical compound identification is performed using quantitative methods. Chemical compound identities should be verified using gas chromatography/mass spectrometric analyses methods. Soil gas survey data should be used in conjunction with other site specific data.

Kevin B. Aardahl Project Manager

KLA. Thomson

Kirk A. Thomson, RG, CHG, REA II Laboratory Director/Principal Hydrogeologist

May 29, 2001

TABLES

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		SUMMARY OF FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES	ILUTY 7 DRIVE JFORNIA File: 1928 T1	r-rca tce tol Pce EBENZ m-F-XYL o-XYL uo/L) (uo/L) (uo/L) (uo/L) (uo/L) (uo/L) (uo/L)	ND<1 1.4 ND<1 ND<1 ND<1	ND<1 ND<1 ND<1 ND<1 ND<1	ND<1 ND<1 ND<1 ND<1 ND<1	1.3 ND<1 ND<1 ND<1 ND<1 ND<1 N	1.3 69 ND<1 15 52	2.9 674 1.1 30 92	ND<5 ND<5 ND<5 ND<5 ND<5 ND<5 ND<5 ND<5	2.6 263 1 12 38	ND<1 22 ND<1 1.1	3,3 66 ND<1 5.3 19	3.9 49 ND<1 2.6 9.2	14 3.4 1.3 ND<1 ND<1	ND<2 30 ND<2 ND<2 10 NU	2.2 93 ND<1 4.3 16	9.4 ND<1 ND<1 ND<1 1.1	1.3 ND<1 ND<1 ND<1 ND<1 ND<1	ND<1 ND<1 ND<1 ND<1 ND<1 ND<1 ND<1 ND<1	3 1.2 ND<1 ND<1 3.5	ND<1 ND<1 ND<1 1.2 5.5	ND<1 ND<1 ND<1 ND<1 1.5	ND<1 ND<1 ND<1 ND<1 ND<1 ND<1		ND<1 ND<1 ND<1 1.6 6.6								1ene			and the second	Note: Velues shown are the highest detected at each location within quantitation range.
					-	Η			23	┛	-	38	3.	6	-	-			_	-	-	-	_		┥	+	÷	╉	+	-									
				(na/r)	NDA	ND<1	I>D<1	Š	-15	8	Š	12	-	5.3	5.6	Ň	ND<2	4.3	Ň	Š	ž	ž		Š	NDN -	NUN	1.6												
,				PCE (ua/L)	ND<1	ND<1	ND<1	ND<1	ž		ND<5	-	ž	Š	ž	1.3	ND<2	Ň	ND<1	Ň	ž	Š	Ň	Š	ž		Ň												ange.
		SAMPLES		TOL (ua/L)	4.1	ND<1	ND<1	1>QN	69	674	S N N S S N	263	22	66	49	3.4	30	63	ND<1	Not	Ň	1.2	Š	Por la	ž			Nov.										re meidenliten	anutavon o
		SOIL GAS		TCE (ua/L)	ND<1	ND<1	ND<1	1.3	1.3	2.9	ND<5	2,6	ND<1	3.3	3,9	14	ND<2	2.2	9.4	1.3	ND<1	9	ND<1	Pon	Nov	ND<1	ND<	ND<1										ne eidter er	up mithim do
	F	SULTS FOR	ACILITY IDY DRIVE ALIFORNIA	1,1,1-TCA	1.3	1,6	1.8	3.5	4.4	6.1	ND<5	7.2	ND<1	1.7	ND<1	1.6	5.1	ND<1	1.3	ND<1	ND<1	1.3	ND<1	ND<1	No.1	ND<1	ND<1	ND<1		1>ON					-Xylene			Staat Jacob	at each locau
	TABLE	LYTICAL RES	BAE SYSTEMS FACILITY 3171 SOUTH BUNDY DRIVE SANTA MONICA, CALIFORNIA	cls-1,2-DCE	ND<1	ND<1	ND<1	ND<1	Po<1	ND<1	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	2.1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1×0X		I>QN		ene	PCE = Tetrachloroethene	EBENZ = Ethylbenzene	m+p-XYL = meta and para-Xylene o-XYI = ortho-Xvlene				hest detected a
		FIELD AN	8A 317 SAN	1,1-DCE (ug/L)	8.2	8.8	12	24	28	43	5,1	19	12	51	32	92	11	21	19	1.3	ND<1	8.3	1.5	ND<1	ND<1	ND<1	1.5	ND<1	ND<	ND<1	1	TOL = Tolutene	PCE = Tetn	EBENZ = E	m+p-XYL = meta and o-XYI = ortho-Xvlane	5	antitation.	1	n are the hig
		MMARY OF		F-113 (ua/L)	1.4	1.3	2.3	5.3	6.7	9.2	ND<5	1.3	2.3	40	5.4	16	ND<2	1.4	3.1	ND<1	ND<1	1.1	ND<1	ND<1	ž	ND<1	ND<1	- ND<	1>UN	1>QN							d limit of qu	-	alues show
		su		SAMPLING EVENTS	6	-	1		-	2	-	3	-	-	•	1	1	1	1	1	ł	1	1	۰	÷	+-	+		-	-		ane		ue			below the reported limit of quantitation.		Note: V
				DEPTH (1)	2	S	5	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	s	:	p-trifluoroeth:	oethene	Dichloroethe	thorethane	. liter	<u>0</u>		
				DATE OF SAMPLING		5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	ft = feet below grade	F-113 = 1, 1, 2-Trichloro-trifluoroethane	1, 1-DCE = 1, 1-Dichloroethene	cis-1,2-DCE = cis-1,2-Dichloroethene	1,1,1-TCA = 1,1,1-Trichlorethane	iuc <i>i</i> i = micrograms per liter	ND = Not detected; Sample is		
			5/18/01	PROBE	SG1-5	SG2-5	SG3-5	SG4-5	SG5-5	SG6-5	SG7-5	SG8-5	\$G9-5	SG10-5	SG11-5	SG12-5	SG13-5	SG14-5	SG15-5	SG16-5	SG17-5	SG18-5	SG19-5	SG20-5	SG21-5	SG22-5	SG23-5	SG24-5	SG25-5	SG26-5	ft = feet b	F-413 = 1	11-DCE	cis-1,2-D(1,1,1-TC/ TCE - TU		ND = Not		

APPENDICES

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Appendix A

FACTORS AFFECTING THE GAS-PHASE DISTRIBUTION OF VOCs IN THE SUBSURFACE

Soil and groundwater contamination by volatile organic compounds (VOCs) can often be detected by analyzing trace gases in soil just below ground surface. This technique is possible because many VOCs will volatilize and move by molecular diffusion away from source areas toward regions of lower concentrations. A gas phase concentration gradient from the source to adjacent areas is established.

The following factors affect the transport and gas phase distribution of VOCs in the subsurface.

- 1. The liquid-gas partitioning coefficient of the compounds of interest (the "volatility" of the compound).
- 2. The vapor diffusivity, which is a measure of how quickly an individual compound "spreads out" within a volume of gas.
- 3. Retardation of the individual compounds as they migrate in the soil gas. Retardation may be due to degradation, adsorption on the soil matrix, tortuosity of the soil profile, or entrapment in unconnected pores.
- 4. The presence of impeding layers, wetting fronts of freshwater, or perched water tables, between the regional water table and ground surface.
- 5. The presence of soil moisture around man-made structures such as clarifiers and sumps may suppress volatilization and diffusion of VOCs resulting in false negative or low soil gas concentrations.
- 6. The presence of contaminants from localized spills or in the ambient air.
- 7. Movement of soil gas in response to barometric pressure changes.
- 8. The preferential migration of gas through zones of greater permeability (e.g. natural lithologic variation or back-fill of underground utilities).
- 9. Soil temperature.

At most sites, many of these factors are unknown or poorly understood. Because of this uncertainty, soil gas sampling should be used in conjunction with other site-specific data.

Appendix B

FIELD ANALYTICAL RESULTS FOR HALOGENATED AND AROMATIC HYDROCARBONS

(INCLUDING CALIBRATION REPORTS, QUALITY CONTROL REPORTS, AND EXPLANATION OF REPORTABLE LIMTS OF QUANTITATION)

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4										1928-4-051101
SAMPLE ID			SG1-5	5G1-5'	SG1-5	SG2-5'	\$G3-5'	SG4-5'	SG5-5'	SG6-5
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			8:45	9:05	9:30	9:51	10:15	10:35	10:54	11:14
INJECTION VOLUME (µI)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			100	200	400	200	200	200	200	200
VACUUM (in. Hg)			NÐ	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1	1	1	1	1	1	1	1
RÉPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	1	1
COMMENTS	RT	ARF	F	^v urge volume te	st					
			0.00E+00	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Dichlorodifiuoromethane	3,78	6.92E+03	ND 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00
Vinyl chloride	4.13	1.25E+04	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00€+00
Chloroethane	4.65	1.24E+04	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	4,98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
			0.00E+00	1.24E+01	1.25E+01	1.11E+01	2.01E+01	4.69E+01	5.91E+01	8.10E+01 9.2
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<1	1.4	1.4	1.3	2.3	5.3	6.7	
1,1-Dichloroethene	5.68	2.43E+04	1.56E+01 1.3	9.46Ë+01 7.8	9.93E+01 8.2	1.07E+02 B.8	1.42E+02 12	2.93E+02 24	3.39E+02 28	5.19E+02 43
		0.755.04	0.00E+00	0.002+00	0.00E+00 ND	0.00E+00 ` ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Methylene chloride	6.18	2.75E+04	ND 0.00E+00	ND 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
trans-1,2-Dichloroethene	6.53	2.49E+04	ND	ND	ND	ND	ND	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	ND	ND	ND
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	7.88	3.45E+04	ND	ND	ND	ND	ND	ND	ND 6.15E+01	ND 8,57E+01
1,1,1-Trichloroethane	8,40	2.81E+04	0.00E+00 ND<1	1,85E+01 1,3	1.53E+01 1.1	2.18E+01 1.6	2.57E+01 1.B	4.69E+01 3.5	4.4	6.1
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00€+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00Ë+00 ND	0.00E+00 ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzene	8.93	3.76E+04	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00€+00	ND 0.00E+00
1,2-Dichloroethane	8.85	3.59E+04	ND	ND	ND	ND	ND	ND	ND	ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.41E+02 115%	1.10E+02 89%	1.14E+02 93%	1.27E+02 103%	1.26E+02 102%	1.21E+02 98%	1.19E+02 97%	1.18E+02 96%
			0.00E+00	0.00E+00 ND<1	0.00E+00 ND<1	7.32E+00 ND<1	0.00E+00 ND<1	2.17E+01 1.3	2.15E+01 1.3	4.94E+01 2.9
Trichloroethene	9.73	3.39E+04	ND<1 8.59E+01	7.56E+01	8.83E+01	7.84E+01	8,15E+01	8.04E+01	7.84E+01	7,95E+01
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	102%	90%	105%	93%	97%	96%	93%	95%
Toluene	11.60	3.56E+04	1.36E+01 ND<1	2.55E+01 1.4	1.96E+01 1.1	0.00€+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.23E+03 69	7.33E+03 412
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane	12.00	2.61E+04	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 6,41E+00	0.00E+00	ND 5.70E+00	ND 5.02E+00	ND 1.58E+01
Tetrachloroethene	12.70	3,00E+04	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0,00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
			0.00E+00	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	2.20E+02 15	4.44E+02 30
Ethylbenzene	14.00	3.00E+04	ND<1 0.00E+00	ND<1 1.11E+01	6.98E+00	1.41E+01	0.00E+00	0.00E+00	9.60E+02	1.69E+03
meta- and para-Xylene	1 <u>4.10</u>	3.69E+04	ND<1	ND<1	ND<1	ND<1 0.00E+00	ND<1 0.00E+00	ND<1 0.00E+00	52 2.24E+02	92 2.23E+02
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	ND<1	ND<1	15	15
1,1,2,2-Tetrachloroethane	15,80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per äter (µg/L)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

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ழ் = Microliter ml = Millifiter in, Hg = Inches of Mercury ARF = Average response factor * = Exceeds quantitation range

NA = Nol Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

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HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4										1928-4-051101
SAMPLE ID			SG6-5'	SG7-5'	SG8-5	SG8-5'	SG13-5	SG14-5'	SG9-5	SG10-5
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			11:33	11:53	12:13	12:31	12:52	13:12	13:35	13:55
INJECTION VOLUME (µI)			100	100	500	200	250	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			5	5	1	2.5	2	1	1	1
REPORTABLE LIMIT (µg/L)			5	5	1	2.5	2	1	1	1
COMMENTS	· · · · ·				· · · ·					
COMMENTS	RT	ARF								
	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Dichlorodifluoromethane	5.70	0.322700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl chloride	4.13	1.25E+04	ND	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00
Chloroethane	4.65	1.24E+04	0.00E+00 ND	ND ND	ND	ND	NO	ND	ND	ND
	4 98	2.165.04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	8.48E+00	0.00E+00	1.19E+01	6.64E+00	6.54E+00	1.27€+01	2.05E+01	8.45E+01
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<5	ND<5	1.3	ND<2.5	ND<2	1.4	2.3	10
	5.6B	2.43E+04	7,17E+01 30	1.24E+01 5.1	2.18E+02	9.18E+01 19	6.42E+01 11	2.53E+02 21	1.46E+02 12	6.24E+02 51
1,1-Dichloroethene	5.66	2.432104	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00	0.00E+00
Methylene chloride	6.18	2.755+04	ND	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND<5	0.00E+00 ND	8.36E+00 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	6.01E+00 ND<1
1,1-Dichioroetnane	0.00	2.000104	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cis-1,2-Dichloroethene	7.68	2.32E+04	ND<5	ND<5	ND<1 0.00E+00	ND<2.5	ND<2 0.00E+00	ND<1 0.00E+00	ND<1 0.00E+00	ND<1 0.00E+00
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	ND	ND	ND	ND	ND	ND
4 4 4 Teleblas	8,40	2.81E+04	1.27E+01 ND<5	0.00E+00 ND<5	1.01E+02 7.2	3.93E+01 7.0	3.55E+01 5.1	9.46E+00 ND<1	1.14E+01 ND<1	2.41E+01 1.7
1,1,1-Trichloroethane	0.40	2.012104	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon tetrachloride	8.77	2.54E+04	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00	ND 0.00E+00
Benzene	8.93	3.76E+04	ND	ND	ND	ND	ND	ND	ND	NÐ
1,2-Dichloroethane	8,85	3.59E+04	0.00Ë+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Olchioroeunane	0.63	3.386+04		· · · · · · · · · · · · · · · · · · ·	1.29E+02	1.25E+02	1.19E+02	1.16E+02	1.18E+02	1.21E+02
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.28E+02 104%	1.14E+02 93%	1.292+02	102%	97%	94%	96%	98%
			0.00E+00	0.00E+00	4,47E+01	1.22E+01 ND<2.5	5.04E+00 ND<2	3.79E+01 2.2	8.27E+00 ND<1	5.59E+01 3.3
Trichloroethene	9.73	3,39E+04	ND<5	ND<5	2.6	8.08E+01	8,29E+01	8.16E+01	8.63E+01	8.17E+01
			8.37E+01	8.49E+01	8.55E+01	8.08E+01 96%	8.29E+01 99%	97%	103%	97%
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	100%	101%	102%		l	1.65E+03	3.97E+02	1.17E+03
-			2.40€+03	0.00E+00 ND<5	4.25E+03 239	1.87E+03 263	2.65E+02 30	93	22	66
Toluene	11.60	3.56E+04	674		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	1.57E+01	5.80E+00 ND<2.5	5.46E+00 ND<2	1.26E+01 ND<1	0.00E+00 ND<1	1.30E+01 ND<1
Tetrachloroethene	12.70	3.00E+04	ND<5	ND<5	1	£	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,1,2-Tetrachioroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00	ND	ND	ND
			8.62E+01	0.00E+00	1.75E+02	7.44E+01	1.34E+01 ND<2	6.38E+01	1.61E+01 1.1	7.93E+01 5.3
Ethylbenzene	14.00	3.00E+04	29	ND<5	12	12		4.3	6.90E+01	3.49Ë+0Z
meta- and para-Xylene	14.10	3.69E+04	3.29E+02 89	0.00E+00 ND<5	6.42E+02 35	2.82E+02 38	9.01E+01 10	2.93E+02 16	6.90E+01 3.7	19
			4.86E+01	0.00E+00	9.49E+01	4.64E+01	0.00E+00 ND<2	4.52E+01	9.38E+00 ND<1	6.00E+01 4
ortho-Xylene	14.90	3.02E+04	16	ND<5	6.3	7.7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00	ND	ND	ND

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

REVIEWED BY Duy Mai

4000 4 051104

µl = Microliter

mi = Milliter

in. $H_g =$ inches of Mercury

ARF = Average response factor * = Exceeds quantitation range

NA = Not Analyzed

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4	-		0044.0	0012 F	CO15 F	NA	NA	NA	NA	1928-4-05110 NA
SAMPLEID			SG11-5'	SG12-5'	SG15-5		NA	NA	NA	NA NA
DATE			5/11/01	5/11/01	5/11/01	NA		1		
TIME			14:14	14:35	14:55	NA	NA	NA	NA	NA
INJECTION VOLUME (µI)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	ND	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS										
00111121110	RT	ARF					1			L
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Dichlorodifluoromethane	3.78	6.92E+03	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Visud shlarida	4.13	1.25E+04	ND	ND	ND	NA	NA	NA	NA	NA
Vinyl chloride		1.202.04		0.00E+00	0.00E+00	NA	NA	NA	NA	NA
~	1.05	1 245-04	0.00E+00 ND	ND	ND	NA	NA	NA	NA	NA
Chloroethane	.4.65	1.24E+04						NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Trichlorofiuoromethane	4.98	2.15E+04	ND	ND	ND	NA	NA			
	<u> </u>		4.81E+01	1,43E+02	2.73E+01	NA	NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	5.4	16	3.1	NA	NA	. NA	NA	NA
			3.84E+02	1.12E+03	2.36E+02	NA	NA	NA	NA	NA
1,1-Dichloroethene	5.68	2.43E+04	32	92	19	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Methylene chloride	6.18	2.75E+04	ND	ND	ND	NA	NA	NA	NA	NA
meatylene chickle		2.702.01	0.002+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
	6.53	2.49E+04	ND	ND	ND	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	0.00	2.430104				NA	NA	NA	NA	NA
		0.055.04	0.00E+00	1.26E+01	1.01E+01	NA	NA	NA	NA	NA
1,1-Dichloroethane	6.98	2.65E+04	ND	ND-1	ND<1		<u></u>			NA
			0.00E+00	0.00E+00	2.38E+01	NA	NA	NA	NA NA	NA NA
cis-1,2-Dichloroethene	7.68	2.32E+04	ND<1	ND<1	2.1	NA	NA	NA		
			0.00E+00	0.00Ë+00	0.00E+00	NA	NA	NA	NA	NA
Chloroform	7.88	3.45E+04	ND	ND	ND	NA	NA	NA	NA	NA.
			5.65E+00	2.21E+01	1.61E+01	[NA	NA	NA NA	NA NA	NA
1,1,1-Trichloroethane	8.40	2.81E+04	ND<1	1.6	1.3	NA .	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Carbon tetrachloride	8.77	2.54E+04	ND	NÐ	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Benzene	8.93	3.76E+04	ND	ND	ND	NA	NA	NA	NA	NA NA
Delizene	0.00	0.100.04	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
a Distance	8.85	3.59E+04	ND	ND	ND	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.65	3.39E+04		· · · · · · · · · · · · · · · · · · ·			NA	NA	NA	NA
			1.17E+02	1.08E+02	1.13E+02	NA NA	NA	NA	NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	95%	88%	92%					+
			6.69E+01	2.35E+02	1.60E+02	NA NA	NA	NA	NA	NA
richloroethene	9,73	3.39E+04	3,9	14	9.4	NA	NA	NA	NA	NA
			7.78E+01	7.48E+01	7.71E+01	NA	NA	NA	NA	NA
is-1,3-Dichloropropene (Surrogate)		1.68E+04	93%	89%	92%	NA	NA	NA	NA	NA
			8.81E+02	6.08E+01	0.00E+00	[NA	NA	NA	NA	NA
Toluene	11.60	3.56E+04	49	3.4	ND<1	NA	NA	NA	NA	NA NA
			0.00E+00	0.0000+00	0.00E+00	NA	NA	NA	NA	NA NA
1,1,2-Trichloroethane	12.00	2.61E+04	ND	ND	ND	NA NA	NA	NA	NA	NA NA
			0.00E+00	2.02E+01	1.10E+01	NA	NA	NA	NA	NA
letrachloroethene	12.70	3.00E+04	ND<1	1.3	ND<1	NA	NA	NA	NA	NA
I ET GETROI AGUSUS	12.70	3.002.04			0.00E+00	NA	NA	NA	NA	NA
		2.005.04	0.00E+00	0.00E+00 ND	ND	NA	NA	NA	NA	NA
,1,1,2-Tetrachloroethane	14.00	2.99E+04	ND			· · · · · · · · · · · · · · · · · · ·		1		
	_ t I		3.93E+01	0.00E+00	0.00E+00	NA	NA	NA	NA	
Ethylbenzene	14.00	3.00E+04	2.6	ND<1	ND<1	NA	NA	NA	NA	NA
			1.69E+02	1.50E+01	2.11E+01	NA	NA	NA	NA	NA
neta- and para-Xyiene	14.10	3.69E+04	9.2	ND<1	1,1	NA	NA	NA	NA	NA NA
			2.53E+01	0.00E+00	1.31E+01	NA	NA	Í NA	NA	NA
ortho-Xylene	14.90	3.02E+04	1.7	ND<1	ND<1	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
										NA

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

ND< = Not detected above the reported limit of quantitation RT = Retention time

ARF = Average response factor * = Exceeds quantitation range NA = Not Analyzed

REVIEWED BY, Duy Mai

μi = Microliter

mi = Millitter

in. H_g ≈ thetes of Mercury

QUALITY ASSURANCE/QUALITY CONTROL REPORT SUBJECT SITE, CALIFORNIA

					SUBJE	CT SITE	, CALIFO	JRNIA								
PID/ELCO #4																4-051101
TARGET						anuary 8,	2001		<u></u>					ay 11, 20		
COMPOUNDS				INITIAL	CALIBRA	TION				LCS		MI)-POIN	T	LAST RI	И.
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (µL)		0,50	1.00	Z.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUNDAVEIGHT (ug)	RT	0,0025	0,0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17,4	31.5	65.7	147	372			33.4							
CF		6.96E+03	6.30E+03	6.57E+03	7.35E+03	7,44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chlorida	4.13	31.1	60.3	136	260	568			61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1,14E+04	t.25E+04	7	1.22E+04	-2	ND	0.005+00	NA	ND	0.00E+00	NA
Chloroethane	4,65	26.8	62.7		299	567			63						0.005.00	
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.26E+04	2	ND	0.005+00	NA	ND	0.00E+00	NA
Trichlorofluoromethane	4.98	54.0	109	212	456	1011			111 2.22E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
CF		2.16E+04	2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	. 4	92		- NO -	87	100			
1,1,2-Trichloro-triffuoroethane	5.43	43.9	87.0	169 1.69E+04	373 1.87E+04	893 1.79E+04	1,778+04	4	1.84E+04	4	ND	1.74E+04	-2	ND	0.00E+00	NA
CF		1.76E+04 64.7	1.74E+04 124	1.69E+04 241	1.872+04	1132	1,772-04		124			121	-			
1,1-Dichloroethene CF	5.68	64./ 2.59E+04	124 2.48E+04	2+1 2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	z	ND	2.42E+04	o	ND	0.00E+00	NA
}	6.18	71.3	146	2.410.404	556	1264	2.102.01		141							
Mothylene chloride CF	0.18	2.85E+04	2.92E+04	2.69E+04	2.78E+04	2.53E+04	Z.75E+04	5	2.828+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			125				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	B	2.52E+04	1	ND	2.50E+04	0	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	76.6	135	259	511	1138			123			137				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.74E+04	3	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			112		1		
CF		2.26E+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+D4	<u>z</u>	2.28E+04	-2	ND	2.24E+04	•3	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF		3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND.	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302		_	141			142	Ι.		0.00E+00	NA
CF	ļ	2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.61E+04	5	2.82E+04	0	ND	2.84E+04	1.	ND	0.002+00	~~
Carbon tetrachioride	8.77	59.4	137	248	504	1288		5	124 2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
CF	<u> </u>	2.38E+04	2.74E+04	2.48E+04 356	2.52E+04 745	2.58E+04 1841	2.54E+04		188		<u> −'"~</u>	197				
Benzene (PiD)	8.93	100 4.00E+04	191 3.82E+04	356 3,56E+04	3.73E+04	3.68E+04	3.76E+04		3.76E+04	D	ND	3.84E+04	2	ND	0.00E+00	NA
CF 1.2-Dichloroethane	8.85	114	184	3,502,707	685	1383			179			199				
CF	0.00	4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	D	NO	3.98E+04	11	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					136		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA	111	0.00E+00	NA
Trichloroethene	9.73	101.0	173	333	637	1469			162			163			1	
CF		4.04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.242+04	4 _	ND	3.26E+04	-	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)	}	42.2	85	164					0					78		
CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0,00E+00	ND	93	0.00E+00	NA
Toluene (PID)	11.6	95.9	188	332	689	1711			175			162				
CF	ļ	3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.56E+04	÷	3.50E+04	-2	ND	3.24E+04	-9	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66.1	128	260	548	1278			137 2.74E+04	5	ND	2.58E+04	-1	ND	0.00E+00	NA
CF	<u> </u>	2.64E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.51E+04	3	2.746+04			2.565404		-	0.002+00	
Tetrachioroethene	12.7	82.3	141	303 3.03E+04	624 3.12E+04	1380 2.76E+04	3.00E+04	7	3.06E+04	2	ND	3.10E+04	3	ND	0.00E+00	NA
CF ·		3.29E+04	2,82E+04	3.03E+04	527	1389	3.000104	- · ·	160				<u> </u>			
1,1,1,2-Tetrachioroethane CF	14.0	77.3 3,09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	3.082704	2.200.404	276	590	1535		<u> </u>	148	1	1	154				1
Ethylbenzene (FID) CF	'1.0	3,11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	DM	3.08E+04	3	ND	0.00E+00	NA
meta-and para-Xylene (PID)	141	187	3.102404	711	1510	3634		1	372		Γ	367		1		1
CF	ļ	3.74E+04	3,75E+04	3.56E+04	3.76E+04	3.63E+04	3.69E+04	3	3.72E+04	1	ND	3.67E+04	-1	ND	0.00E+00	NA
ortho-Xylene (PID)	14.9	78.2	153	289	611	1515			147		1	136	1			1
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	DND	2.72E+04	-10	ND	0.00E+00	NA.
1,1,2,2-Tetrachioroethane	15.8	68.8	143	276	590	1393			149			1	1			
CF		2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	3	2.98E+04	6	NÐ	0.00E+00	NA	ND	0.005+00	NA
			-													

LCS * Laboratory Control Sample

ug/L = Micrograms per Liter uL = Microliters ug = Microgram

RT = Retention Time

ARF # Average Response Factor

%RSD = Percent Relative Standard Deviation RPD = Relative Percent Difference %REC * Percent Recovery 5000 mg/L 25 VOC STD :Lot #80060319 5000 mg/L 25 VOC LCS :Lot #80060322

CF = Collibration Factor ND = Not Detected

NA = Not Applicable

PID = Photo-ionization Detector

40000 mg/L 25 VOC STD :Lot # 80060319

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4					- co40.0	L CO40 52	SG20-5'	SG21-5	SG22-5'	SG23-5
SAMPLE ID			SG16-5	SG17-5'	SG18-5'	SG19-5'	5/14/01	5/14/01	5/14/01	5/14/01
DATE			5/14/01	5/14/01	5/14/01	5/14/01	8:35	8:55	9:14	9:33
TIME			7:12	7:33	7:53	8:16 500	500	500	500	500
INJECTION VOLUME (山)			500	500 200	200	200	200	200	200	200
PURGE VOLUME (ml)	····-····		200 ND	200 ND	ND	ND	ND	4	ND	ND
VACUUM (in. Hg)				1	1	1	1	1	1	1
DILUTION FACTOR			1	1	1	1	1	1	1	1 ,
REPORTABLE LIMIT (µg/L)				<u></u> '						
COMMENTS	RT	ARF				1				
			0.00E+00	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0,00E+00	0.00E+00
Dichlorodifluoromethane	3.78	6.92E+03	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodilibolomediane	0.10	0.022.00	0.00E+00	0.00E+00	0.00E+00	0.005+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl chloride	4.13	1.25E+04	ND	ND	ND	ND	ND	ND	ND	NÐ
Virgi chionae			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroethane	4.65	1.24E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichlorofluoromethane	4.98	2.15E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00€+00	0.00E+00	9.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<1	ND<1	1,1	ND<1	ND<1	ND<1	ND<1	ND<1
		······	1.56E+01	0.00E+00	1.01E+02	1.82E+01	0.00E+00	0.00E+00	0.00E+00	1.79E+01
1,1-Dichloroethene	5.68	2.43E+04	1.3	ND<1	8.3	1.5	ND<1	ND<1	ND<1	1.5
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methylene chloride	6.18	2.75E+04	ND	ND	ND	ND	ND	NÐ	ND	ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
trans-1,2-Dichloroethene	6,53	2.49E+04	ND	ND	ND	ND	ND	ND	ND	ND_
			0.00E+00	0.00E+00	5.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.1-Dichloroethane	6.98	2.65E+04	ND	ND	ND<1	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cis-1,2-Dichloroethene	7.68	2.32E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	7.88	3.45E+04	ND	ND	ND	ND	ND	ND	ND	ND
	·		1.11E+01	1.01E+01	1.89E+01	0,00E+00	0.00E+00	0.002+00	0.00E+00	0.00E+00 ND<1
1,1,1-Trichloroethane	B.40	2.81E+04	ND<1	ND<1	1.3	ND<1	ND<1	ND<1	ND<1	
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00 ND	0.00E+00
Carbon tetrachloride	8.77	2.54E+04	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND
Benzene	8,93	3.76E+04	ND	ND	ND	ND	ND	ND		0.00E+00
			0.00E+00	0.00E+00	0.00E+00	0.00E+00 ND	0.00E+00 ND	9.00E+00 ND	0.00E+00 ND	ND
1,2-Dichloroethane	8.85	3.59E+04	ND	ND	ND				1.17E+02	1,19E+02
		0.405.04	9,75E+01	1.09E+02	1.14E+02 93%	1.14E+02 93%	1.13E+02 92%	1.18E+02 96%	95%	97%
Fluorobenzene (Surrogate) (PID)		2.46E+04	79%	89%			0.00E+00	0.00E+00	0_00E+00	0.00E+00
w -2-4-1	0.72	3 305+04	2.12E+01	0.00E+00 ND<1	5.11E+01 3	0.00E+00 ND<1	ND<1	ND<1	ND<1	ND<1
Trichloroethene	9.73	3.39E+04	1.3			7.34E+01	7.27E+01	7,50E+01	7.43E+01	8.25E+01
· · · · · · · · · · · · · · · · · · ·		1.68E+04	7.83E+01 93%	7.59E+01 90%	7.73E+01 92%	87%	87%	89%	88%	98%
cis-1,3-Dichloropropene (Surrogate)		1.002704			2.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
¥-1	44.60	3.56E+04	0.00E+00 ND<1	0.00E+00 ND<1	1.2	ND<1	ND<1	ND<1	ND<1	ND<1
Toluene	11.60	3.002.004	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.1.2-Trichloroethane	12.00	2.61E+04	·ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-11Chroioeutane	12.00	2.012104		0.00E+00	1.10E+01	0.00E+00	0.00E+00	0,00E+00	0.00E+00	0.002+00
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Tegacilloroeniene	12.75	0.002.04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0_00E+00	0.00E+00
1 1 1 7 Tetrachlomethane	14.00	2.99E+04	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		2.002.04	0.00E+00	0.00E+00	0.00E+00	1.87E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+0
Ethylbenzene	14.00	3.00E+04	ND<1	ND<1	ND<1	1.2	ND<1	ND<1	ND<1	ND<1
CUIVINGUEGIE	14,00	0.002.04	0.00E+00	0.00E+00	6.54E+01	1.01E+02	2.69E+01	1.06E+01	0.00E+00	0.00E+0
meta, and para-Xviene	14.10	3.69E+04	ND<1	ND<1	3.5	5,5	1.5	ND<1	ND<1	ND<1
meta- and para-Xylene		0.002.04	0.00E+00	0.00E+00	3.08E+01	2.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+0
ortho-Xylene	14.90	3.02E+04	ND<1	ND<1	2	1.4	ND<1	ND<1	ND<1	ND<1
or ato-stylene		0.012.04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00	0.00E+00	0.00E+0
			0.000	0.000	1 0.000.00	V. V		1	ND	ND

Concentrations reported in micrograms per liter (µgA)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

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µl = Microliter

mi = Milliterin. $H_g = inches of Mercury$ ARF = Average response factor

* = Exceeds quantitation range

NA = Not Analyzed

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4				0000 6	CODE E	L NA	NA	NA	NA	NA
SAMPLE ID			SG24-5'	SG25-5'	SG26-5	NA		NA NA	NA	NA
DATE			5/14/01	5/14/01	5/14/01	NA	NA			
Тіме			9:53	10:12	10:31	NA	NA	NA	NA	NA
INJECTION VOLUME (µI)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	NO	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS	1	_			[
oommerro	RT	ARF								
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
N . I	3.78	6.92E+03	ND	ND	ND	NA	NA	NA	NA	NA
Dichlorodifluoromethane	3.70	0.922+03			0.00€+00	NA	NA	NA	NA	NA
		4.055.04	0.00E+00	0.00E+00	ND	NA	NA	NA	NA	NA
Vinyl chloride	4.13	1.25E+04	ND	ND					NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chloroethane	4.65	1.24E+04	ND	ND	ND	NA	NA	NA		
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Trichlorofluoromethane	4.98	2.15E+04	ND	ND	ND	NA	NA	NA	NA	NA
		• •	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane	5,43	1.77E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1-Dichloroethene	5.68	2.43E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
1,1-Dicinol dealene	0.00	A.40L.104			0.00E+00	NA	NA	NA	NA	NA
		0.755.04	0.00E+00	0.00E+00	ND	NA	NA	NA	NA	NA
Methylene chloride	6.18	2.75E+04	ND	ND						
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	6,53	2.49E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1.1-Dichloroethane	6.98	2.65E+04	ND	ND	ND	NA	NA	NA	NA	NA
····			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7,68	2.32E+04	ND	ND	ND	NA	NA	NA	NA	NA
	_		0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chloroform	7.88	3.45E+04	ND	ND	ND	NA	NA	NA	NA	NA
	7.00	3,436+04			0.00E+00	NA	NA	NA	NA	NA
		0.045.04	0.00E+00	0.00€+00		NA	NA	NA	NA	NA
1,1,1-Trichloroethane	8,40	2.81E+04	ND<1	ND<1	ND<1					
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Carbon tetrachloride	8.77	2.54E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Benzene	8,93	3,76E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1.2-Dichloroethane	8,85	3.59E+04	ND	ND	ND	NA	NA	NA NA	NA	NA NA
			1.19E+02	1.25E+02	1.17E+02	NA	NA	NA	NA	NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	97%	102%	95%	NA	NA	NA	NA	NA
ribolobelizelle (Sullogate) (FID)		2.402104			0.00E+00	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00		NA	NA	NA	NA	NA
Trichloroethene	9.73	3.39E+04	ND<1	ND<1	ND<1				· · · · · · · · · · · · · · · · · · ·	
			7.61E+01	7.93E+01	7.46E+01	NA	NA	NA	NA	NA NA
is-1.3-Dichloropropene (Surrogate)		1.68E+04	91%	94%	89%	NA	NA	NA	NA	
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Toluene	11.60	3.56E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
		-	0.00€+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	12.00	2.61E+04	ND	ND	ND	NA	. NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Tetrachloroethene	12.70	3.00E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
		0.002.04		0,00E+00	0.00E+00	NA	NA	NA	NA	NA
	44.00	0.005.01	0.00E+00			NA	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	ND	ND	NĎ					
			0.00€+00	2.41E+01	0.00E+00	NA	NA	NA NA	NA ,	NA
Ethylbenzene	14.00	3,00E+04	ND<1	1.6	ND<1	NA	NA	NA	NA	NA
			0.00E+00	1.22E+02	6.69E+00	NA	NA	NA	NA	NA
neta- and para-Xylene	14.10	3.69E+04	ND<1	6.6	ND<1	NA	NA	NA	NA	NA
			0.00E+00	3.54E+01	0.00E+00	NA	NA	NA	NA	NA
ortho-Xylene	14.90	3.02E+04	ND<1	2.3	ND<1	NA	NA	NA	NA	NA
		2.4LC . 44			+			÷ · · · · · · · · · · · · · · · · · · ·		NA
			0.00E+00	0,00E+00	0.00E+00	NA	NA	1 NA	NA	

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

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ND< = Not detected above the reported limit of quantitation

 $RT \simeq Retention time$

µl = Microëler ml = Milliter in. Hg ≈ Inches of Mercury ARF = Average response factor * = Exceeds quantitation range

NA = Not Analyzed

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QUALITY ASSURANCE/QUALITY CONTROL REPORT SUBJECT SITE, CALIFORNIA

PID/ELCD #4																-4-0514
TARGET						January 8,	2001							ay 14, 20		1261
COMPOUNDS			11	ITIAL CA	LIBRATIC	<u>N</u>				LCS			D-POIN		LAST R	
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (pL)		0,50	1.00	2.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUND/WEIGHT (Jug)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0,0050	RPD		0,0050	RPD		0.0010	XRE
Dichlorodifuoromethane	3.78	17.4	31.5	65.7	147	372		_	33.4	_					0.005.00	
CF		6.96E+03	6.30E+03	6.578+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31.1	60.3	· 136	260	568		-	61	_					0.005.00	
CF	 	1.24E+04	1.21E+04	1,36E+04	1.30E+04	. 1.14E+04	1.25E+04	7	1.22E+04	-2	ND	0.00E+00	. NA	ND	0.008+00	NA
Chloroethane	4,65	26.8	62.7		299	567			63 1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.205.404		NU	0,005+00			0.002100	
Trichlorofluoromethane	4.95	54.0	109	212	456	1011 2.02E+04	2.15E+04	4	2.22E+04	3	NO	0.00E+00	NA	ND	0.00E+00	NA
CF	5,43	2.16E+04 43.9	2.18E+04 87.0	2.12E+04 169	2.28E+04 373	893	2.132-04		97	-		83				
1,1,2-Trichioro-trifluoroethane CF	5.43	43.9 1.76E+04	1.74E+04	1.69E+04	1.87E+04	1,79E+04	1.77E+04	4	1.84E+04		ND	1.65E+04	-6	ND	0.00E+00	NA
	5.68	64.7	124	241	485	1132			124			110				
1,1-Dichloroethene CF	3.00	2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	2	ND	2.20E+04	-9	ND	0.00E+00	NA
Methylene chloride	6.18	71.3	148	269	556	1264			141							1
CF		2.85E+04	2.92E+04	2.69E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	NÐ	0.00E+00	NA.
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			118				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.38E+04	-3	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	78.6	138	259	511	1138			123			130				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.468+04	-7	ND	2.60E+04	-2	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			105				
CF		2.26E+04	2.34E+04	2.33E+04	Z.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.10E+04	-9	ND	0.00E+00	NA
Chloreform	7.88	94.8	181	341	873	1523			174							
CF		3.79E+04	3.82E+04	3.41E+04	3,37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302			141			131	_			
CF	ŀ	2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.62E+04	-7	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1288			124			0.00E+00	NA	ND	0.00E+00	NA
CF		2.38E+04	2.74E+04	2.45E+04	2.52E+04	2,58E+04	2.54E+04	5	2.48E+04 188	-2	DM	0.00E+03		ND	0.002+00	
Benzene (FID) CF	8,93	100 4.00E+04	191 3.82E+04	356 3,56E+04	3,73E+04	3.65E+04	3.76E+04	4	3,76E+04	0	ND	3.44E+04	-9	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	4.002+04	3.8204	3.500404	5.732404	1383	3.702404		179		142	170			0.002.00	
1,2-UICINOTONTIAIN	0,05	4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.40E+04	-5	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243	3.436.404	2.770.04	0.002.01		0				<u> </u>	115		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA -	93%	0.00E+00	NA
Trichloroethene	9,73	101.0	173	333	637	1469			162			168				
CF		4,04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	\$2	3.24E+04	-4	NÐ	3.36E+04	-1	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)		42.2	86	164					0					75		1
CF		1.695+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0.00E+00	NA	89%	0.00E+00	NA
Toluene (PID)	11.6	95,9	188	332	689	1711			175			165				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.56E+04	6	3.50E+04	-2	ND	3.30E+04	-7	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66,1	126	260	546	1276			137			113				
CF		2.64E+04	2.52£+04	2.60E+04	2.73E+04	2.55E+04	2.61E+04	3	2.74E+04	5	ND	2.26E+04	•13	ND	0.00E+00	NA
Tetrachloroethene	12.7	82.3	141	303	624	1380			153			133				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	2.66E+04	-11	ND	0.00E+00	NA
1, 1, 1, 2-Tetrachioroethane	14.0	77.3	144	306	627	1389			160	_						1
CF		3.09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535			148			143		ND	0,00E+00	NA
CF		3.11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	2.86E+04	-5	ND	U.UUE+00	- NA
meta-and para-Xylene (PID)	14.1	187	375	711	1510	3634		-	372	۱.		349	-5	ND	0.00€+00	N
CF		3.74E+04	3.75E+04	3.56E+04	3.78E+04	3.83E+04	3.69E+04	3	3.72E+04	1	ND	3.49E+04	<u> </u>	- NU	0.002+00	1 -
ortho-Xylene (PID)	14.9	76.2	153	269	611	1515		-	147 2046-04	-	ND	149 2.98E+04	l -1	ND	0.00E+00	NA
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3		2.302104	<u> </u>		0.0000700	+
1,1,2,2-Tetrachioroethane	15.8	68.8	143	276	i 590 '	1393			149		1					

LCS = Laboratory Control Sample ug/L = Micrograms per Liter ul, = Microlitors ug = Microgram

RT = Retention Time

 $\langle \rangle$

ARF = Average Response Factor %RSD = Percent Relative Standard Deviation RPD = Relative Percent Difference %REC = Percent Recovery 5000 mg/L 25 VOC STD :Lot #80050319 5000 mg/L 25 VOC LCS :Lot #B0060322

CF = Calibration Factor ND = Not Detected NA = Not Applicable

PID = Photo-ionization Detector 40000 mg/L 25 VOC STD :Lot # 80060319

ANALYST: Darren McNamee

REVIEWED BY, Duy Mai

1928-4-051401

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC. SOIL GAS SURVEYS

REPORTABLE LIMITS OF QUANTITATION FOR HALOGENATED AND AROMATIC HYDROCARBONS

The Reportable Limit of Quantitation for Halogenated and Aromatic Hydrocarbons is 1 µg/L when the injection volume is 500 µL. Reportable limits for lesser injection volumes are listed below.

Injection Reportable Volume (μL) Limit (μg/L) 500 1.0 250 2.0 200 2.5		
250 2.0 200 2.5	•	· ·
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	250 200 100 80 60 50 40 20 10	2.0 2.5 5.0 6.3 8.3 10.0 12.5 25.0 50.0 100.0

Appendix C

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STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

SOIL GAS SURVEYING

STANDARD METHODS AND PROCEDURES FOR INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC. 23276 Del Lago Drive Laguna Hills, California 92653 (949) 457-9664 Fax (949) 457-0664

2001

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

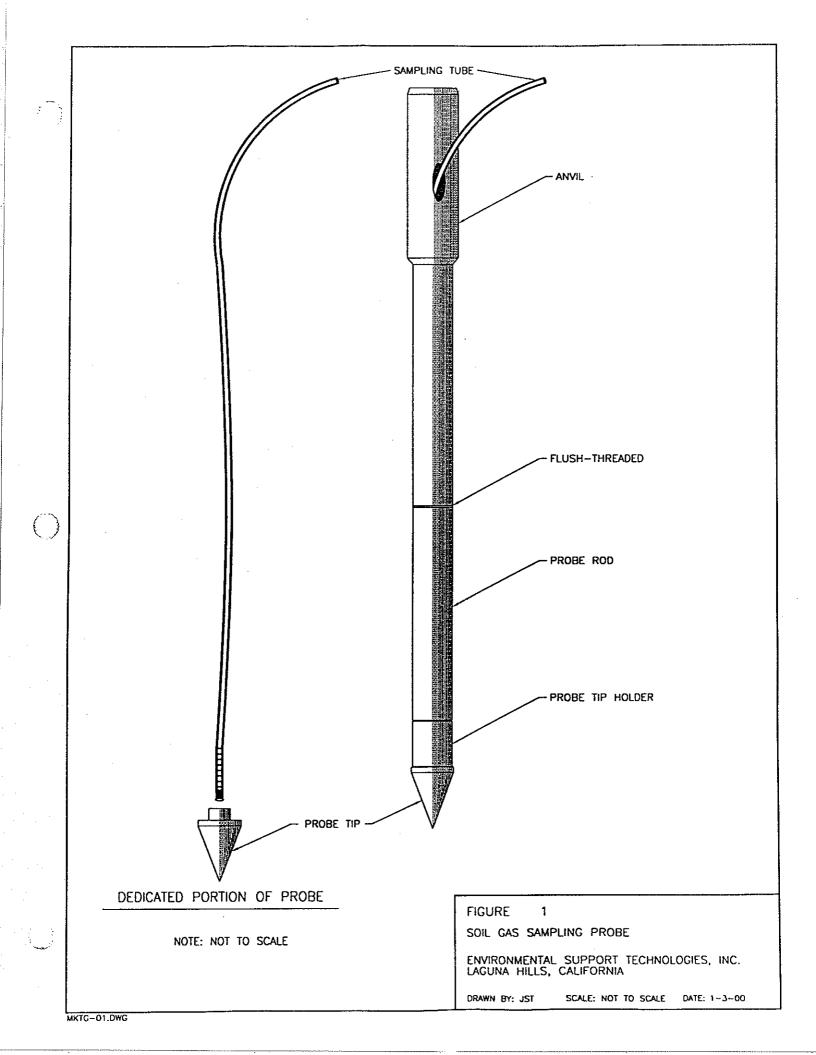
This section describes EST's standard methods and procedures for conducting soil gas surveys. Procedures may be modified based on evaluation of specific project needs. EST will perform soil gas surveys in general accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

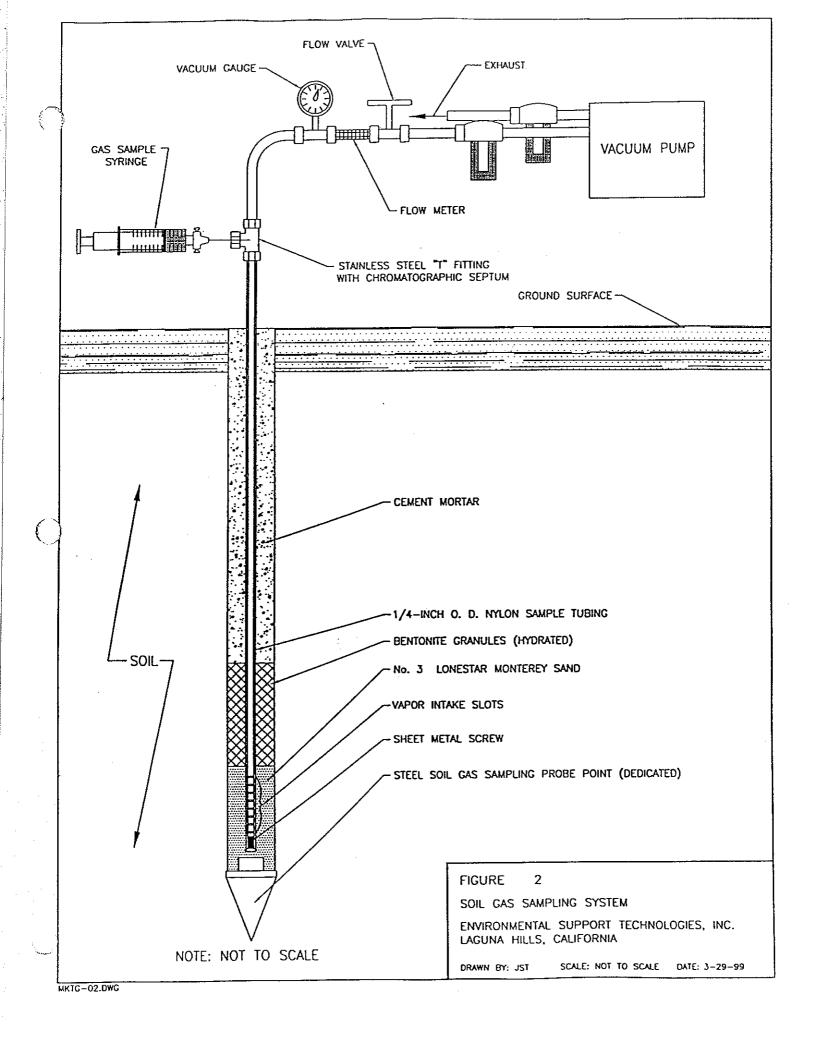
INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

Soil gas sampling probes will be installed using either a percussion hammer or hydraulic ram. Once a probe is installed to the desired depth, the 1.25-inch diameter hollow probe drive-rods are withdrawn, leaving a steel probe point and NylaflowTM sampling tube in the subsurface. Clean, graded (No. 3), kiln dried, Lonestar Monterey sand will be poured around the perforated section of NylaflowTM sample tubing to allow for diffusion of soil vapors. Approximately 6-inches of granular bentonite will be added above the sand pack and hydrated. The remaining annulus will be filled with cement mortar/bentonite grout to slightly below grade. Construction details of a typical soil gas sampling probe are shown in Figure 1.

Soil gas samples will be collected from the driven probes using the soil gas sampling system as shown in Figure 2. The soil gas sampling system is constructed of stainless steel, glass, NylaflowTM, and TeflonTM components. Instrumentation associated with the sampling system includes a calibrated flow meter and vacuum gauge. Vacuum integrity of the sampling system will be tested prior to, and after the soil gas survey using leak-down testing methods. Site-specific probe purging and sample volume calibrations will be initially performed to evaluate the appropriate volume of gas to be purged from each probe prior to sample collection. This will be done by performing time-series sampling of at least one probe to evaluate trends in soil gas concentrations as a function of purge volume. After probe purging, soil gas samples will be withdrawn from the moving sample stream using a glass syringe fitted with a disposable needle and MininertTM gas-tight valve. Soil gas samples will be analyzed, immediately following collection, by direct gas injection into a laboratory-grade, field-operable gas chromatograph (GC).

When soil gas sampling is completed, the Nylaflow[™] tubing can either be removed or can remain in-place for subsequent sampling. If the abandonment method requires tube removal, the sample tubing will be removed and the remaining void will be filled with a fluid bentonite slurry until slightly below grade. The remaining depression will be filled with concrete patch material and finished flush with grade. If it is desired to leave the tubing in-place, the Nylaflow[™] sample tubing will be plugged with a sheet metal screw, folded over, and pushed down-hole until slightly below grade. The remaining depression will be filled with concrete mortar and finished flush with grade. The probe point and sample tubing will remain as a long-term soil gas monitoring point, unless otherwise specified by the client prior to entering the field.





SAMPLE ANALYSIS OF HALOGENATED AND AROMATIC HYDROCARBONS

Soil gas samples will be analyzed in the field using a field-operable GC equipped with a photoionization detector (PID) and an electrolytic conductivity detector (ELCD). The PID and ELCD will be configured in-series to analyze for twenty-five (25) target compounds (halogenated and aromatic hydrocarbons) as specified in the LARWQCB requirements (February 25, 1997).

Detection limits for the LARWQCB target compounds will be no more than one microgram per liter (μ g/L) of gas except when compound concentrations exceed the initial calibration range. When this occurs, the sample must be diluted (smaller sample injection volume), which results in raised detection limits for the analysis.

Soil gas samples may be analyzed for other constituents on a site-specific basis. A series of quality assurance/quality control (QA/QC) analyses will be performed prior to, during, and following the analysis of soil gas samples. A summary of these QA/QC analyses is shown in Table 1 and each are described below.

SURROGATE COMPOUNDS

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Two (2) surrogate compounds will be added to all analyzed samples. Surrogate compound concentrations will be within the calibration range. The percent recovery of the surrogate compounds will be calculated and reported with soil gas sample results. The acceptance goal for surrogate recovery is ± 25 percent difference from the true concentration of the surrogate compounds. Surrogate compounds added to each sample analysis run will include Fluorobenzene (PID) and cis-1, 3-Dichloropropene (PID and ELCD), each at a true concentration of 5,000 µg/L.

INITIAL MULTI-POINT EQUIPMENT CALIBRATION

The GC used for soil gas analysis will be calibrated using high-purity solvent-based standards obtained from certified vendors. Standards are typically prepared in high-purity methanol or dodecane solvent. Calibration using solvent-based standards will typically be performed using varying injection volumes of the stock solvent-based standard without dilution. If necessary, stock solvent-based standards will be diluted to an appropriate concentration. Diluted standards will be prepared by introducing a known volume of stock solvent-based standard into a known volume of high-purity solvent.

Initial GC calibration will be performed for EPA Method 8021 compounds. The GC will be calibrated using varying standard injections to establish a multi-point calibration curve. The lowest standard will not be higher than five times the method detection limit (5 µg/L). The percent relative standard deviation (%RSD) of the response factor (RF) for each target compound will not exceed 20 percent except for Trichlorofluoromethane (FreonTM-11), Dichlorodifluoromethane (FreonTM-12), Trichlorotrifluoroethane (FreonTM -113), Chloroethane (CE), and Vinyl Chloride (VC) which will not exceed 30% RSD. Identification and quantitation of compounds in the field will be based on calibration under the same analytical conditions as for multi-point calibration.

TABLE 1

SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ANALYSES FOR SOIL GAS SURVEYS

File: SGSQAQCt1

	CALIBRATION AND LABORATORY CONTROL SAMPLE	S
DESCRIPTION	FREQUENCY	PRECISION GOAL
INITIAL MULTI-POINT CALIBRATION (25 Target Compounds)	At the beginning of the soil gas survey, unless the RPDs of the initial laboratory check sample or daily mid-point calibration check samples exceed their goals.	20, 30 %RSD (1)
INITIAL LABORATORY CONTROL SAMPLE (LCS) (25 Target Compounds)	At the beginning of the survey, following the initial multi- point calibration.	±15, ±25 RPD (2)
DAILY MID-POINT CALIBRATION CHECK (12 Target Compounds)	At the beginning of each day (unless an initial multi-point calibration was performed).	±15, ±25 RPD (3)
LAST GC TEST RUN	At the end of the day if all samples from that day of analysis show non-detect (ND) results.	At least 50 % recovery (4)
	FIELD CONTROL SAMPLES	
DESCRIPTION	FREQUENCY	PRECISION GOAL
BACKGROUND SAMPLE (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery

BACKOROUND SAWFEE (by Minimum one per day.	and 75 to 100 percent recovery
		of surrogate compounds
SYRINGE BLANK (5)	Minimum one per day.	<1 µg/L of target compounds
		and 75 to 100 percent recovery
		of surrogate compounds

%RSD = Percent Relative Standard Deviation calculated based on the initial multi-point calibration.

RPD = Relative Percent Difference between the response factor obtained from the LCS, the daily mid-point calibration, and the average response factor initially calculated based on the multi-point calibration.

µg/L = Micrograms per liter

- (1) The %RSD goal for the initial multi-point calibration will be 20 percent for all compounds except for Dichlorodifluoromethane (FreonTM-11), Vinyl Chloride (VC), Chloroethane (CE), Trichlorofluoromethane (FreonTM-12), and 1,1,2-Trichloro-Trifluoroethane (FreonTM-113) for which the %RSD goal is 30 percent.
- (2) The RPD goal for the initial laboratory control standard will be ±15 percent for all compounds except for Freon[™]-11, Vinyl Chloride, Chloroethane, Freon[™]-12, Freon[™]-113 for which the RPD goal is ±25 percent.
- (3) The RPD goal for the daily mid-point calibration check will be ±15 percent for all compounds except for Freon[™]-11, Vinyl Chloride, Chloroethane, Freon[™]-12, Freon[™]-113 for which the RPD goal is ±25 percent.
- (4) A LCS at the detection limit concentration is analyzed. The recovery for each compound must be at least 50 percent.
- (5) A syringe/background sample will be analyzed using ambient air. If volatile organic compounds (VOCs) are not detected, the ambient air sample will represent the background sample and syringe blank. If VOCs are detected in the ambient air sample, a syringe blank will be analyzed using ultra-high-purity helium or nitrogen gas.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) from a source other than the initial calibration standard will be used to verify the true concentration of the initial calibration standard. The LCS will include the LARWQCB target compounds and the RF for each compound will be within ± 15 percent difference from the initial calibration.

DAILY MID-POINT CALIBRATION CHECK

Daily field calibration of the GC will consist of a mid-point calibration analysis using the same standard as used for the initial multi-point calibration. The daily mid-point calibration check will include the 12 target compounds as specified in the previously referenced LARWQCB requirements. The RF of each compound (except for Freon[™]-11, -12, and -113, CE, and VC) will be within 15 percent difference of the average RF from the initial calibration. The RF for Freon[™]-11, -12, and -113, CE, and VC will be within 25 percent difference of the initial calibration. If these criteria are not met, the GC will be re-calibrated.

Daily calibration will be performed prior to the first sample analysis of the day. One-point calibration will be performed for all compounds detected at a particular site to ensure accurate quantitation. Subsequent calibration episodes, if deemed necessary, will consist of at least one injection of the standard exhibiting a similar detector response as that of samples encountered in the field.

END OF DAY GC TEST RUN

A LCS will be analyzed at the end of the day should soil gas samples not contain detectable concentrations of halogenated or aromatic hydrocarbons. The LCS will contain the same compounds as the daily mid-point calibration standard (minimum 12 compounds). The LCS will be from a second source independent from the initial multipoint calibration standard. The RF for each compound will be within 20 percent difference of the average RF for the initial calibration. If these criteria are not met, an additional LCS will be analyzed to satisfy these criteria.

BLANK INJECTIONS

The syringes used for soil gas sample collection will be filled with ambient air or highpurity carrier-grade gas from a compressed gas cylinder. The ambient air or high-purity gas will be injected directly into the GC. The blank injection will serve to detect contamination of the syringe to be used for sampling and verify the effectiveness of equipment decontamination procedures.

DECONTAMINATION PROCEDURES

Probes and equipment in contact with the soil gas sample stream will be decontaminated prior to initiation of sampling. Decontamination of soil gas sampling equipment will be conducted by repeated washing and/or by baking in the gas chromatograph oven. Washing will include the use of a phosphate-free detergent wash, tap water rinse, and organic-free water rinse. The equipment will be allowed to air-dry following final rinsing.

SHORTENING THE GC RUN TIME

Shortening the GC run time is acceptable only if the chemist feels that doing so will not sacrifice the quality of data obtained. If this is recommended by the chemist, appropriate client and agency approval will be obtained prior to initiating such change.

REPORTING OF SAMPLE RESULTS AND QA/QC INFORMATION

Reporting of sample results and QA/QC information will be performed in accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

SOIL GAS SURVEY REPORTS

Following completion of a soil gas survey, Environmental Support Technologies, Inc. will prepare a Soil Gas Survey Report. Typically, this report will include:

- Soil gas concentrations in tabular form;
- Laboratory analytical data and Quality Assurance/Quality Control data.
- A description of EST's standard sampling and analysis methods used for soil gas surveying.

ARCADIS GERAGHTY&MILLER

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Appendix J

Laboratory Reports



May 30, 2001

RECEIVED

JUN 0 5 2001

ARCADIS Geraghty & Miller

Reinhard Ruhmke ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Subject: Calscience Work Order No.: Client Reference:

01-05-1251 BAE Systems

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/25/01 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscie ronmental

Laboratories, Inc. Marycarol Valenzuela Project Manager

William'H. Christensen Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Result

0.756

ND

77.5

ND

ND

7.29

5.10

2.52

Result

ND

14.2

<u>RL</u>

0.750

0.750

0.250

0.500

0.25

0.25

0.5

0.50

<u>RL</u>

0.750

0.5

Date Received:	
Work Order No:	
Preparation:	
Method:	

05/25/01 01-05-1251 **Total Digestion** EPA 6010B / EPA 7471A

Page 1 of 3

Project: BAE Systems

Client Sample Number:

SB-4-5

Comment(s):

Parameter

Antimony

Arsenic

Barium

Cobalt

Copper

SB-5A-1

<u>ameter</u>

Antimony

comment(s):

Lead

Beryllium

Cadmium

Chromium (Total)

Date Date Date Lab Sample Number: Collected: Prepared: Analyzed: Matrix: QC Batch ID: 05/25/01 Solid 05/29/01 05/29/01 010529lcs3 01-05-1251-1 Mercury was analyzed on 5/29/01 4:51:25 PM with batch 010529lcs1 RL DF Qual Units DF Qual Units Parameter Result NÐ 0.0835 1 mg/kg 1 mg/kg Mercury Molybdenum 0.629 0.250 1 mg/kg 1 mg/kg mg/kg 1 Nickel 11.6 0.2 1 mg/kg 0.750 mg/kg 1 mg/kg Selenium ND 1 ND 0.250 mg/kg Silver 1 mg/kg 1 0.750 mg/kg 1 mg/kg Thallium ND 1 mg/kg Vanadium 20.6 0.2 1 1 mg/kg mg/kg Zinc 25.5 1.0 1 mg/kg 1 mg/kg 1 05/29/01 010529Jcs3 01-05-1251-10 05/25/01 Solid 05/29/01 Mercury was analyzed on 5/29/01 4:42:20 PM with batch 010529lcs1 DF Qual Units <u>RL</u> Qual <u>Units</u> Parameter Result DF ND 0.0835 1 mg/kg 1 mg/kg Mercury

Arsenic	0.976	0.750	1	mg/kg	Molybdenum	ND	0.250	1	mg/kg
Barium	80.2	0.5	1	mg/kg	Nickel	8.44	0.25	1	mg/kg
Beryllium	0.264	0.250	1	mg/kg	Selenium	1.08	0.75	1	mg/kg
Cadmium	ND	0.500	1	mg/kg	Silver	ND	0.250	1	mg/kg
Chromium (Total)	14.7	0.2	1	mg/kg	Thallium	ND	0.750	1	mg/kg
Cobalt	6.29	0.25	1	mg/kg	Vanadium	27.0	0.2	1	mg/kg
Copper	9.62	0.50	1	mg/kg	Zinc	24.8	1.0	1	mg/kg
Lead	2.12	0.50	1	mg/kg					
-									

SB-5-5

01-05-1251-11 05/25/01 Solid 05/29/01 05/30/01 010529/cs3

Comment(s):	Mercury was analyzed	on 5/29/01 4	:54:27	PM with batch	010529lcs1				
Parameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual Units</u>	Parameter	Result	<u>RL</u>	<u>DF</u> Q	ual Units
Antimony	ND	0.750	1	mg/kg	Mercury	ND	0.0835	1	mg/kg
Arsenic	ND	0.750	1	mg/kg	Molybdenum	ND	0.250	1	mg/kg
Barium	71.2	0.5	1	mg/kg	Nickel	8.98	0.25	1	mg/kg
Beryllium	ND	0.250	1	mg/kg	Selenium	ND	0.750	1	mg/kg
Cadmium	ND	0.500	1	mg/kg	Silver	ND	0.250	1	mg/kg
Chromium (Total)	14.3	0.2	1	mg/kg	Thallium	ND	0.750	1	mg/kg
Cobalt	6.84	0.25	1	mg/kg	Vanadium	28.5	0.2	1	mg/kg
Copper	6.80	0.50	1	mg/kg	Zinc	23.7	1.0	1	mg/kg
Lead	3.03	0.50	1	mg/kg					

DF - Dilution Factor **RL - Reporting Limit**

Qual - Qualifiers

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ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127 Date Received: Work Order No: Preparation: Method:

05/25/01 01-05-1251 Total Digestion EPA 6010B / EPA 7471A

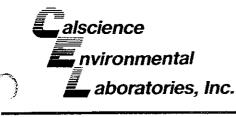
Page 2 of 3

Project: BAE Systems

Client Sample Numbe	я. 		Lab Sa Numl		Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
SB-6-1			01-05-	251-15	05/25/01	Solid	05/29/01	05/29/01	010529	lcs3
• •	rcury was analyzed									
Parameter	<u>Result</u>	<u>RL</u>	<u>DF Qı</u>	<u>ial Units</u>	Parameter		<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
Intimony	ND	0.750	1	ma/ka	Mercury		ND	0.0835	1	mg/kg
Arsenic	2.17	0.75	1	mg/kg	Molybdenum		0.267	0.250	1	mg/kg
Barium	79.3	0.5	1	mg/kg	Nickel		12.0	0.2	1	mg/kg
Beryilium	ND	0.250	1	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium	ND	0.500	1	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	13.2	0.2	1	mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	5.27	0.25	1	mg/kg	Vanadium		28.4	0.2	1	mg/kg
Copper	8.48	0.50	1	mg/kg	Zinc		37.5	1.0	1	mg/kg
ead	15.1	0.5	1	mg/kg						
SB-6-5			01-05-	251-16	05/25/01	Solid	05/29/01	05/29/01	01052)lcs3
	cury was analyzed	on 5/20/01 P		100.000					and the second secon	ind since the code
stameter	Result	RL		al Units	Parameter		Result	<u>RL</u>	DF Quai	<u>Units</u>
<u>stancer</u>	Result				ratattietet		<u>itesuit</u>			011103
ntimony	ND .	0.750	1	mg/kg	Mercury		ND	0.0835	1	mg/kg
vsenic	1.34	0.75	1	mg/kg	Molybdenum		ND	0.250	1	mg/kg
arium	68.9	0.5	1	mg/kg	Nickel		7,74	0.25	1	mg/kg
leryllium	ND	0.250	1	mg/kg	Selenium		NÐ	0.750	1	mg/kg
admium	ND	0.500	1	mg/kg	Silver		ND	0.250	1	mg/kg
hromium (Total)	13.0	0.2	1	mg/kg	Thallium		ND	0.750	1	mg/kg
obalt	6.03	0.25	1	mg/kg	Vanadium		26.7	0.2	1	mg/kg
оррег	6.23	0.50	1	mg/kg	Zinc		22.8	1.0	1	mg/kg
ead	2.26	0.50	1	mg/kg						
SB-7-1			01-05-	251-20	05/25/01	Solid	05/29/01	05/29/01	01052	Hcs3 🔧
Comment(s): Mer	cury was analyzed	on 5/29/01 5	:03:36 PM	with batch	010529lcs1					
arameter	Result	<u>RL</u>	<u>DF</u> QL		Parameter 1		Result	<u>RL</u>	DF Qual	<u>Units</u>
ntimony	ND	0.750	1	mg/kg	Mercury		ND	0.0835	1	mg/kg
rsenic	4.51	0.75	1	mg/kg	Molybdenum		0.425	0.250	1	mg/kg
arîum	85.2	0.5	1	mg/kg	Nickel		15.5	0.2	1	mg/kg
eryllium	ND	0.250	1	mg/kg	Selenium		1.44	0.75	1	mg/kg
admium	ND	0.500	1	mg/kg	Silver		ND	0.250	1	mg/kg
nromium (Total)	12.4	0.2	1	mg/kg	Thallium		ND	0.750	1	mg/kg
obalt	6.38	0.25	1	mg/kg	Vanadium		32.8	0.2	1	mg/kg
opper	7.65	0.50	1	mg/kg	Zinc		42.4	1.0	1	mg/kg
ead	63.7	0.5	1	mg/kg				-		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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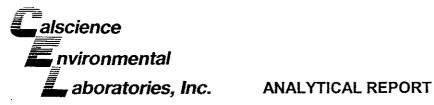
Date Received:	05/25/01
Work Order No:	01-05-1251
Preparation:	Total Digestion
Method:	EPA 6010B / EPA 7471A

Page 3 of 3

Project: BAE Systems

TUJECI. DAE OY	ysterns								Fay	63013
Client Sample Number:		Lab Sample Number:		Date Collected: Matrix:		Date Prepared:	Date Analyzed:	QC Bate	QC Batch ID:	
SB-7-5			. 01-0	15-1251-21	05/25/01	Solid	05/29/01	05/29/01	010529	lcs3
Comment(s): Merc	ury was analyzed on 5	/29/01 5	:42:24	PM with batch	010529lcs1					
arameter	Result	<u>RL</u>	<u>DF</u>	Qual Units	Parameter		<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
ntimony	ND	0.750	1	mg/kg	Mercury		ND	0.0835	1	mg/kg
rsenic	1.10	0.75	1	mg/kg	Molybdenum		ND	0.250	1	mg/kg
arium	72.2	0.5	1	mg/kg	Nickel		7.26	0.25	1	mg/kg
eryllium	ND	0.250	1	mg/kg	Selenium		ND	0.750	1	mg/kg
admium	ND	0.500	1	mg/kg	Silver		ND	0.250	1	mg/kg
hromium (Total)	12.0	0.2	1	mg/kg	Thallium		ND	0.750	1	mg/kg
obalt	6.23	0.25	1	mg/kg	Vanadium		24.1	0.2	1	mg/kg
opper	6.58	0.50	1	mg/kg	Zinc		23.2	1.0	1	mg/kg
ead	2.41	0.50	1	mg/kg						
Method Blank			,/099	04-007-978	N/A	😂 Solid 🐾	05/29/01	05/29/01	010529	lcst s.
ameter	Result	<u>RL</u>	DF	Qual Units						
ercury	ND	0.0835	1	mg/kg						
						and the second second second second	พศารณาผิวิกรรมนาควรณ์รัฐมาว	011111111000000000000000000000000000000		
Method Blank			097	-01-002-2,449	N/A	Solid	05/29/01	05/29/01	010529	lcs3 🛃
arameter	Result	<u>RL</u>	DF	Qual Units	Parameter		Result	<u>RL</u>	DF Qual	<u>Units</u>
ntimony	ND	0.750	1	mg/kg	Molybdenum		ND	0.250	1	mg/kg
rsenic	ND	0.750	1	mg/kg	Nickel		ND	0.250	1	mg/kg
arium	ND	0.500	1	mg/kg	Selenium		ND	0.750	1	mg/kg
eryllium	ND	0.250	1	mg/kg	Silver		ND	0.250	1	mg/kg
admium	ND	0.500	1	mg/kg	Thallium		ND	0.750	1	mg/kg
hromium (Total)	ND	0.250	1	mg/kg	Vanadium		ND	0.250	1	mg/kg
obalt	ND	0.250	1	mg/kg	Zinc		ND	1.00	1	mg/kg
opper	ND	0.500	1	mg/kg	Lead		ND	0.500	1	mg/kg

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ARCADIS Geraghty & Miller	Date Sampled: Date Received:	05/25/01 05/25/01
1400 North Harbor Blvd., Suite 700		
Fullerton, CA 92835-4127	Date Analyzed:	05/29/01
	Work Order No.:	01-05-1251
Attn: Reinhard Ruhmke	Method:	EPA 7199/3060A
RE: BAE Systems	Page 1 of 1	·
All concentrations are reported in ug/kg (ppb).		

Sample Number	Hexavalent Chromium Concentration	Reporting Limit
SB-3-10	95	40
SB-3A-13	150	40
Method Blank	ND	40

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Date Received: Work Order No: Preparation: Method:

05/25/01 01-05-1251 EPA 5035 EPA 8260B

Project: BAE Systems

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Page 1 of 15 Client Sample Number: Lab Sample Date Date Date Number: Collected: Analyzed: Prepared: Matrix: QC Batch ID: SB-4-5 01-05-1251-1 05/25/01 Solld-05/26/01 05/27/01 052601CS Parameter Result <u>RL</u> DF Qual Units Parameter <u>RL</u> DF Qual Units Result Acetone ND 18 0.92 ND 0.92 0.92 ug/kg 1,3-Dichloropropane ug/kg Benzene ND 0.92 0.92 ug/kg 2,2-Dichloropropane ND 4.6 0.92 ug/kg Bromobenzene ND 0.920.92 ug/kg 0.92 ug/kg 1,1-Dichloropropene ND 1.8 Bromochloromethane ND 1.8 0.92 ug/kg c-1,3-Dichloropropene NÐ 0.92 0.92 ug/kg Bromodichloromethane ND 0.92 0.92 ug/kg t-1.3-Dichloropropene NÐ 1.8 0.92 ug/kg Bromoform ND 4.6 Ethylbenzene ND 0.92 0.920.92ug/kg ug/kg Bromomethane ND 4.6 0.92 ug/kg 2-Hexanone ND 18 0.92 ug/kg 2-Butanone ND 18 0.92 ug/kg Isopropylbenzene NÐ 0.92 0.92 ug/kg n-Butylbenzene ND 0.92 0.92 ug/kg p-Isopropyltoluene ND 0.92 0.92 ug/kg sec-Butylbenzene ND 0.92 0.92 ug/kg Methylene Chloride ND 9.2 0.92 ug/kg tert-Butylbenzene ND 0.92 0.92 ug/kg 4-Methyl-2-Pentanone NÐ 18 0.92 ug/kg Carbon Disulfide ND 9.2 ug/kg Naphthalene 0.92 ND 9.2 0.92ug/kg bon Tetrachloride ND 0.92 0.92 ua/ka n-Propylbenzene ND 0.92 0.92 ug/kg órobenzene ND 0.92 0.92 ug/kg Styrene ND 0.92 0.92 ug/kg Chloroethane ND 1.8 0.92 ug/kg 1,1,1,2-Tetrachloroethane ND 0.92 0.92 ug/kg Chloroform ND 0.92 0.92 ug/kg 1,1,2,2-Tetrachloroethane ND 1.8 0.92 ug/kg Chloromethane ND 0.92 0.92 ug/kg Tetrachloroethene ND 0.92 0.92 ug/kg 2-Chlorotoluene ND 0.92 0.92 ug/kg ND 0.92 0.92 Toluene ug/kg 4-Chlorotoluene ND 0.92 0.92 1,2,3-Trichlorobenzene 0.92 ug/kg ND 1.8 ug/kg Dibromochloromethane ND 1.8 1,2,4-Trichlorobenzene 0.92 ug/kg ND 1.8 0.92 ug/kg 1,2-Dibromo-3-Chloropropane ug/kg ND 4.6 0.92 1.1.1-Trichloroethane ND 0.92 0.92 ug/kg 1,2-Dibromoethane ND 0.92 0.92 ug/kg 1,1,2-Trichloroethane ND 0.92 0.92 ug/kg Dibromomethane ND 0.92 0.92 ug/kg Trichloroethene ND 1.8 ug/kg 0.921,2-Dichlorobenzene ND Trichlorofluoromethane 0.92 0.92 ug/kg ND 9.2 0.92 ug/kg 1.3-Dichlorobenzene ND 0.92 0.92 ug/kg 1,2,3-Trichloropropane ND 1.8 0.92 ug/kg 1,4-Dichlorobenzene ND 0.92 ug/kg 0.921,2,4-Trimethylbenzene ND 1.8 0.92ug/kg Dichlorodifluoromethane ND 1.8 ug/kg 1,3,5-Trimethylbenzene NÐ ug/kg 0.92 1.8 0.92 1.1-Dichloroethane ND 0.92 Vinyl Acetate 0.92 ug/kg ND 9.2 0.92 ug/kg 1,2-Dichloroethane ug/kg ND 0.92 0.92 Vinyl Chloride ND 0.92 0.92 ug/kg 1,1-Dichloroethene ND 0.92 0.92 ug/kg p/m-Xylene ND 1.8 0.92 ug/kg c-1.2-Dichloroethene ND 0.92 0.92ug/kg ND 0.92 ug/kg o-Xvlene 0.92 t-1,2-Dichloroethene ND 0.92 0.92 ug/kg Methyl-t-Butyl Ether (MTBE) ND 1.8 0.92 ug/kg 1,2-Dichloropropane ND 0.92 0.92 ug/kg Surrogates: REC (%) Control **REC (%)** Qual Surrogates: Control Qual Limits <u>Limits</u> Dibromofluoromethane 107 65-157 Toluene-d8 100 51-144 1,4-Bromofluorobenzene 93 49-141

RL - Reporting Limit

DF - Dilution Factor Qual - Qualifiers .



ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Date Received:	
Work Order No:	
Preparation:	
Method:	

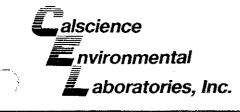
05/25/01 01-05-1251 EPA 5035 EPA 8260B

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Project: **BAE Systems**

Client Sample Number:			Lab Sample Number:		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:	
SB-4-10			-01-05-12	1-2	05/25/01 Solid	05/26/01	05/27/01	052601	CS-/
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	NÐ	19	0.93	ug/kg	1,3-Dichloropropane	ND	0.93	0.93	ug/kg
Benzene	ND	0.93	0.93	ug/kg	2,2-Dichloropropane	ND	4.6	0.93	ug/kg
Bromobenzene	ND	0.93	0.93	ug/kg	1,1-Dichloropropene	ND	1. 9	0.93	ug/kg
Bromochloromethane	ND	1.9	0.93	ug/kg	c-1,3-Dichloropropene	ND	0,93	0.93	ug/kg
Bromodichloromethane	ND	0.93	0.93	ug/kg	t-1,3-Dichloropropene	ND	1.9	0.93	ug/kg
Bromoform	ND	4.6	0.93	ug/kg	Ethylbenzene	ND	0.93	0.93	ug/kg
Bromomethane	ND	4.6	0.93	ug/kg	2-Hexanone	ND	19	0.93	ug/kg
2-Butanone	ND	19	0.93	ug/kg	Isopropylbenzene	ND	0.93	0.93	ug/kg
n-Butylbenzene	ND	0.93	0.93	ug/kg	p-Isopropyltoluene	ND	0.93	0.93	ug/kg
sec-Butylbenzene	ND	0.93	0.93	ug/kg	Methylene Chloride	ND	9.3	0.93	ug/kg
tert-Butylbenzene	ND	0.93	0.93	ug/kg	4-Methyl-2-Pentanone	ND	19	0.93	ug/kg
Carbon Disulfide	ND	9.3	0.93	ug/kg	Naphthalene	NÐ	9.3	0.93	ug/kg
bon Tetrachloride	ND	0.93	0.93	ug/kg	n-Propylbenzene	NÐ	0.93	0.93	ug/kg
orobenzene	ND	0.93	0.93	ug/kg	Styrene	ND	0.93	0.93	ug/kg
Chloroethane	ND	1.9	0.93	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.93	0.93	ug/kg
Chloroform	ND	0.93	0.93	ug/kg	1,1,2,2-Tetrachloroethane	ND	1.9	0.93	ug/kg
Chloromethane	ND	0.93	0.93	ug/kg	Tetrachloroethene	ND	0.93	0.93	ug/kg
2-Chlorotoluene	ND	0.93	0.93	ug/kg	Toluene	ND	0.93	0.93	ug/kg
4-Chlorotoluene	ND	0.93	0.93	ug/kg	1,2,3-Trichlorobenzene	ND	1.9	0.93	ug/kg
Dibromochloromethane	ND	1.9	0.93	ug/kg	1,2,4-Trichlorobenzene	ND	1.9	0.93	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.6	0.93	ug/kg	1,1,1-Trichloroethane	ND	0.93	0.93	ug/kg
1,2-Dibromoethane	ND	0.93	0.93	ug/kg	1,1,2-Trichloroethane	ND	0.93	0.93	ug/kg
Dibromomethane	ND	0.93	0.93	ug/kg	Trichloroethene	ND	1.9	0.93	ug/kg
1,2-Dichlorobenzene	ND	0.93	0.93	ug/kg	Trichlorofluoromethane	ND	9.3	0.93	ug/kg
1,3-Dichlorobenzene	ND	0.93	0.93	ug/kg	1,2,3-Trichloropropane	ND	1.9	0.93	ug/kg
.4-Dichlorobenzene	ND	0.93	0.93	ug/kg	1,2,4-Trimethylbenzene	ND	1.9	0.93	ug/kg
Dichlorodifluoromethane	ND	1.9	0.93	ug/kg	1,3,5-Trimethylbenzene	ND	1.9	0.93	ug/kg
1,1-Dichloroethane	ND	0.93	0.93	ug/kg	Vinyl Acetate	ND	9.3	0.93	ug/kg
	ND	0.93	0.93	ug/kg	Vinyl Chloride	ND	0.93	0.93	ug/kg
,1-Dichloroethene	ND	0.93	0.93	ug/kg	p/m-Xylene	ND	1.9	0.93	ug/kg
-1,2-Dichloroethene	ND	0.93	0.93	ug/kg	o-Xylene	ND	0.93	0.93	ug/kg
-1,2-Dichloroethene	ND	0.93	0.93	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.93	ug/kg
,2-Dichloropropane	ND	0.93	0.93	ug/kg	· · · · · · · · · · · · · · · · · · ·				
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>	
Dibromofluoromethane	107	65-157			Toluene-d8	101	51-144		
4-Bromofluorobenzene	96	49-141							

RL - Reporting Limit DF - Dilution Factor ,



ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Date Received:	
Work Order No:	
Preparation:	
Method:	

05/25/01 01-05-1251 EPA 5035 EPA 8260B

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Project: **BAE Systems**

Client Sample Number:		Lab Sample Number:		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bate	ch ID:	
SB-4-15			01-05-125	i 1-3	05/25/01 Solid	05/26/01	05/27/01	052601	CS
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	Result	RL	DF Qual	<u>Units</u>
Acetone	ND	21	1.05	ug/kg	1,3-Dichloropropane	ND	1.1	1.05	ug/kg
Benzene	ND	1.1	1.05	ug/kg	2,2-Dichloropropane	ND	5.3	1.05	ug/kg
Bromobenzene	ND	1.1	1.05	ug/kg	1,1-Dichloropropene	ND	2.1	1.05	ug/kg
Bromochloromethane	ND	2.1	1.05	ug/kg	c-1,3-Dichloropropene	ND	1.1	1.05	ug/kg
Bromodichloromethane	ND	1.1	1.05	ug/kg	t-1,3-Dichloropropene	ND	2.1	1.05	ug/kg
Bromoform	ND	5.3	1.05	ug/kg	Ethylbenzene	ND	1.1	1.05	ug/kg
Bromomethane	ND	5.3	1.05	ug/kg	2-Hexanone	ND	21	1.05	ug/kg
2-Butanone	ND	21	1.05	ug/kg	isopropylbenzene	ND	1.1	1.05	ug/kg
n-Butylbenzene	ND	1.1	1.05	ug/kg	p-lsopropyltoluene	ND	1.1	1.05	ug/kg
sec-Butylbenzene	ND	1.1	1.05	ug/kg	Methylene Chloride	ND	11	1.05	ug/kg
tert-Butylbenzene	ND	1.1	1.05	ug/kg	4-Methyl-2-Pentanone	ND	21	1.05	ug/kg
Carbon Disulfide	ND	11	1.05	ug/kg	Naphthalene	ND	11	1.05	ug/kg
bon Tetrachloride	ND	1.1	1.05	ug/kg	n-Propylbenzene	ND	1.1	1.05	ug/kg
brobenzene	ND	1.1	1.05	uq/kq	Styrene	ND	1.1	1.05	ug/kg
Chloroethane	ND	2.1	1.05	ug/kg	1,1,1,2-Tetrachloroethane	ND	1.1	1.05	ug/kg
Chloroform	ND	1.1	1.05	ug/kg	1,1,2,2-Tetrachloroethane	ND	2.1	1.05	ug/kg
Chloromethane	ND	1.1	1.05	ug/kg	Tetrachloroethene	ND	1.1	1.05	ug/kg
2-Chlorotoluene	ND	1.1	1.05	ug/kg	Toluene	ND	1.1	1.05	ug/kg
4-Chlorotoluene	ND	1.1	1.05	ug/kg	1.2.3-Trichlorobenzene	ND	2.1	1.05	ug/kg
Dibromochloromethane	ND	2.1	1.05	ug/kg	1,2,4-Trichlorobenzene	ND	2.1	1.05	ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.3	1.05	ug/kg	1,1,1-Trichloroethane	ND	1.1	1.05	ug/kg
1.2-Dibromoethane	ND	1.1	1.05	ug/kg	1,1,2-Trichloroethane	ND	1.1	1.05	ug/kg
Dibromomethane	ND	1.1	1.05	ug/kg	Trichloroethene	ND	2.1	1.05	ug/kg
1,2-Dichlorobenzene	ND	1.1	1.05	ug/kg	Trichlorofluoromethane	ND	11	1.05	ug/kg
1,3-Dichlorobenzene	ND	1.1	1.05	ug/kg	1,2,3-Trichloropropane	ND	2.1	1.05	ug/kg
1,4-Dichlorobenzene	ND	1.1	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	ug/kg
Dichlorodifluoromethane	ND	2.1	1.05	ug/kg ug/kg	1,2,4-Trimethylbenzene	ND	2.1	1.05	ug/kg
I,1-Dichloroethane	ND	2.1 1.1	1.05		· · ·	ND	11	1.05	
1,2-Dichloroethane	ND		1.05	ug/kg	Vinyl Acetate	ND	1.1		ug/kg
		1.1		ug/kg	Vinyi Chloride			1.05	ug/kg
1,1-Dichloroethene	ND ND	1.1	1.05	ug/kg	p/m-Xylene	ND	2.1	1.05	ug/kg
-1,2-Dichloroethene		1.1	1.05	ug/kg	o-Xylene	ND	1.1	1.05	ug/kg
-1,2-Dichloroethene ,2-Dichloropropane	ND ND	1.1 1.1	1.05 1.05	ug/kg ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	ug/kg
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	
Dibromofluoromethane	108	65-157			Toluene-d8	101	51-144		
.4-Bromofluorobenzene	96	49-141			i sidene do	101	01-144		

RL - Reporting Limit ,



Date Received:	
Work Order No:	
Preparation:	
Method:	

05/25/01 01-05-1251 EPA 5035 EPA 8260B

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Project: BAE Systems

Client Sample Number:			Lab Samp Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
SB-2-10			01-05-123	61-6	05/25/01 Solid	05/26/01	05/27/01	052601	CS
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u> Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	DF Qual	Units
Acetone	ND	21	1.07	ug/kg	1,3-Dichloropropane	ND	1.1	1.07	ug/kg
Benzene	ND	1.1	1.07	ug/kg	2,2-Dichloropropane	ND	5.4	1.07	ug/kg
Bromobenzene	ND	1.1	1.07	ug/kg	1,1-Dichloropropene	ND	2.1	1.07	ug/kg
Bromochloromethane	ND	2.1	1.07	ug/kg	c-1,3-Dichloropropene	ND	1.1	1.07	ug/kg
Bromodichloromethane	ND	1.1	1.07	ug/kg	t-1,3-Dichloropropene	ND	2.1	1.07	ug/kg
Bromoform	ND	5.4	1.07	ug/kg	Ethylbenzene	ND	1.1	1.07	ug/kg
Bromomethane	ND	5.4	1.07	ug/kg	2-Hexanone	ND	21	1.07	ug/kg
2-Butanone	ND	21	1.07	ug/kg	Isopropylbenzene	ND	1.1	1.07	ug/kg
n-Butylbenzene	ND	1.1	1.07	ug/kg	p-Isopropyltoluene	ND	1.1	1.07	ug/kg
sec-Butylbenzene	ND	1.1	1.07	ug/kg	Methylene Chloride	ND	11	1.07	ug/kg
ert-Butylbenzene	ND	1.1	1.07	ug/kg	4-Methyl-2-Pentanone	ND	21	1.07	ug/kg
Carbon Disulfide	ND	11	1.07	ug/kg	Naphthalene	ND	11	1.07	ug/kg
bon Tetrachloride	ND	1.1	1.07	ug/kg	n-Propylbenzene	ND	1.1	1.07	ug/kg
orobenzene	ND	1.1	1.07	ug/kg	Styrene	ND	1.1	1.07	ug/kg
Chloroethane	ND	2.1	1.07	ug/kg	1,1,1,2-Tetrachloroethane	ND	1.1	1.07	ug/kg
Chloroform	ND	1.1	1.07	ug/kg	1,1,2,2-Tetrachloroethane	ND	2.1	1.07	ug/kg
Chloromethane	ND	1.1	1.07	ug/kg	Tetrachloroethene	ND	1.1	1.07	ug/kg
2-Chlorotoluene	ND	1.1	1.07	ug/kg	Toluene	ND	1.1	1.07	ug/kg
-Chlorotoluene	ND	1.1	1.07	ug/kg	1,2,3-Trichlorobenzene	ND	2.1	1.07	ug/kg
Dibromochloromethane	ND	2.1	1.07	- -		ND	2.1		
,2-Dibromo-3-Chloropropane		2.1 5.4	1.07	ug/kg	1,2,4-Trichlorobenzene			1.07	ug/kg
,2-Dibromoethane	ND			ug/kg	1,1,1-Trichloroethane	ND	1.1	1.07	ug/kg
)ibromomethane	ND	1.1	1.07	ug/kg	1,1,2-Trichloroethane	ND	1.1	1.07	ug/kg
		1.1	1.07	ug/kg	Trichloroethene	ND	2.1	1.07	ug/kg
,2-Dichlorobenzene	ND	1.1	1.07	ug/kg	Trichlorofluoromethane	ND	11	1.07	ug/kg
,3-Dichlorobenzene	ND	1.1	1.07	ug/kg	1,2,3-Trichloropropane	ND	2.1	1.07	ug/kg
,4-Dichlorobenzene	ND	1.1	1.07	ug/kg	1,2,4-Trimethylbenzene	ND	2.1	1.07	ug/kg
Dichlorodifluoromethane	ND	2.1	1.07	ug/kg	1,3,5-Trimethylbenzene	ND	2.1	1.07	ug/kg
,1-Dichloroethane	ND	1.1	1.07	ug/kg	Vinyl Acetate	ND	11	1.07	ug/kg
,2-Dichloroethane	ND	1.1	1.07	ug/kg	Vinyl Chloride	ND	1.1	1.07	ug/kg
,1-Dichloroethene	ND	1.1	1.07	ug/kg	p/m-Xylene	ND	2.1	1.07	ug/kg
-1,2-Dichloroethene	ND	1.1	1.07	ug/kg	o-Xylene	ND	1.1	1.07	ug/kg
1,2-Dichloroethene	ND	1.1	1.07	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	ug/kg
,2-Dichloropropane	ND	1.1	1.07	ug/kg					
urrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	
ibromofluoromethane	106	65-157			Toluene-d8	102	<u>51-144</u>		
4-Bromofiuorobenzene	96	49-141					UI-1-4		

RL - Reporting Limit

mit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Date Received:	
Work Order No:	
Preparation:	
Method:	

05/25/01 01-05-1251 EPA 5035 EPA 8260B

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Project: BAE Systems

Client Sample Number:		Lab Sample Number:		Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:	
SB-2-14			01-05-1	251-7	05/25/01	Solid	05/26/01	05/27/01	052601	CS
Parameter	<u>Result</u>	<u>RL</u>	<u>DF Qu</u>	al <u>Units</u>	Parameter		Result	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	ND	17	0.87	ug/kg	1,3-Dichloropropa	ne	ND	0.87	0.87	ug/kg
Benzene	ND	0.87	0.87	ug/kg	2,2-Dichloropropa	ne	ND	4.4	0.87	ug/kg
Bromobenzene	ND	0.87	0.87	ug/kg	1,1-Dichloroproper	ne	ND	1.7	0.87	ug/kg
Bromochloromethane	ND	1.7	0.87	ug/kg	c-1,3-Dichloroprop	ene	ND	0.87	0.87	ug/kg
Bromodichloromethane	ND	0.87	0.87	ug/kg	t-1,3-Dichloroprop		ND	1.7	0.87	ug/kg
Bromoform	ND	4.4	0.87	ug/kg	Ethylbenzene		ND	0.87	0.87	ug/kg
Bromomethane	ND	4.4	0.87	ug/kg	2-Hexanone		ND	17	0.87	ug/kg
2-Butanone	NÐ	17	0.87	ug/kg	Isopropylbenzene		ND	0.87	0.87	ug/kg
-Butylbenzene	ND	0.87	0.87	ug/kg	p-Isopropyltoluene		ND	0.87	0.87	ug/kg
ec-Butylbenzene	ND	0.87	0.87	ug/kg	Methylene Chlorid		ND	8.7	0.87	ug/kg
ert-Butylbenzene	ND	0.87	0.87	ug/kg	4-Methyl-2-Pentan		ND	17	0.87	ug/kg
Carbon Disulfide	ND	8.7	0.87	ug/kg	Naphthalene		ND	8.7	0.87	ug/kg
bon Tetrachloride	ND	0.87	0.87	ug/kg	n-Propylbenzene		ND	0.87	0.87	ug/kg
brobenzene	ND	0.87	0.87	ug/kg	Styrene		ND	0.87	0.87	ug/kg
nloroethane	ND	1.7	0.87	ug/kg	1,1,1,2-Tetrachlor	oethane	ND	0.87	0.87	ug/kg
Chloroform	ND	0.87	0.87	ug/kg	1,1,2,2-Tetrachlor		ND	1.7	0.87	ug/kg
hloromethane	ND	0.87	0.87	ug/kg	Tetrachloroethene		ND	0.87	0.87	ug/kg
-Chlorotoluene	ND	0.87	0.87	ug/kg	Toluene		ND	0.87	0.87	ug/kg
-Chlorotoluene	ND	0.87	0.87	ug/kg	1,2,3-Trichloroben	7000	ND	1.7	0.87	ug/kg
bibromochloromethane	ND	1.7	0.87	ug/kg	1,2,4-Trichloroben		ND	1.7	0.87	ug/kg
,2-Dibromo-3-Chloropropane	ND	4.4	0.87	ug/kg	1,1,1-Trichloroetha		ND	0.87	0.87	ug/kg
,2-Dibromoethane	ND	0.87	0.87	ug/kg	1,1,2-Trichloroetha		ND	0.87	0.87	ug/kg
ibromomethane	ND	0.87	0.87	ug/kg	Trichloroethene	arre	ND	1.7	0.87	ug/kg
,2-Dichlorobenzene	ND	0.87	0.87	ug/kg	Trichlorofluoromet	hana	ND	8.7	0.87	ug/kg
,3-Dichlorobenzene	ND	0.87	0.87	ug/kg	1,2,3-Trichloroprop		ND	1.7	0.87	ug/kg
.4-Dichlorobenzene	ND	0.87	0.87	ug/kg	1,2,4-Trimethylben		ND	1.7	0.87	ug/kg
ichlorodifiuoromethane	ND	1.7	0.87	ug/kg	1,3,5-Trimethylben		ND	1.7	0.87	ug/kg
1-Dichloroethane	ND	0.87	0.87	ug/kg	Vinyl Acetate	20110	ND	8.7	0.87	ug/kg
,2-Dichloroethane	ND	0.87	0.87	ug/kg	Vinyi Chloride		ND	0.7	0.87	ug/kg
,1-Dichloroethene	ND	0.87	0.87	ug/kg ug/kg	p/m-Xylene		ND	1.7	0.87	ug/kg
-1,2-Dichloroethene	ND	0.87	0.87	ug/kg	o-Xylene		ND ND	0.87	0.87	
1,2-Dichloroethene	ND	0.87	0.87	ug/kg ug/kg	Methyl-t-Butyl Ethe		ND ND	0.87	0.87	ug/kg
2-Dichloropropane	ND	0.87	0.87	ug/kg ug/kg	Meally-t-Dutyl Eule	SI (IVIIDE)	ND	1.7	0.07	ug/kg
urrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qu	<u>al</u>	Surrogates:		<u>REC (%)</u>	<u>Control</u> Limits	Qual	
ibromofluoromethane	108	65-157			Toluene-d8		100	<u>111865</u> 51-144		-
4-Bromofluorobenzene	95	49-141								

RL - Reporting Limit , DF - Dilution Factor , Qual

Factor , Qual - Qualifiers



Date Received:	
Work Order No:	
Preparation:	
Method:	

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Project: BAE System	ns							Page	6 of 15
Client Sample Number:			Lab Sam Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bate	ch ID:
SB-5A-1			01-05-12	51-10	05/25/01 Solid	05/26/01	05/27/01	052601	CS 🗠 🖄
Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u> Qual	<u>Units</u>	Parameter	Result	RL	DE Qual	<u>Units</u>
Acetone	ND	16	0.80	ug/kg	1,3-Dichloropropane	ND	0.80	0.80	ug/kg
Benzene	ND	0.80	0.80	ug/kg	2,2-Dichloropropane	ND	4.0	0.80	ug/kg
Bromobenzene	ND	0.80	0.80	ug/kg	1,1-Dichloropropene	ND	1.6	0.80	ug/kg
Bromochloromethane	ND	1.6	0.80	ug/kg	c-1,3-Dichloropropene	ND	0.80	0.80	ug/kg
Bromodichloromethane	ND	0.80	0.80	ug/kg	t-1,3-Dichloropropene	ND	1.6	0.80	ug/kg
Bromoform	ND	4.0	0.80	ug/kg	Ethylbenzene	ND	0.80	0.80	ug/kg
Bromomethane	ND	4.0	0.80	ug/kg	2-Hexanone	ND	16	0.80	ug/kg
2-Butanone	ND	16	0.80	ug/kg	Isopropylbenzene	ND	0.80	0.80	ug/kg
n-Butylbenzene	ND	0.80	0.80	ug/kg	p-Isopropyltoluene	ND	0.80	0.80	ug/kg
sec-Butylbenzene	ND	0.80	0.80	ug/kg	Methylene Chloride	ND	8.0	0.80	ug/kg
tert-Butylbenzene	ND	0.80	0.80	ug/kg	4-Methyl-2-Pentanone	ND	16	0.80	ug/kg
Carbon Disulfide	ND	8.0	0.80	ug/kg	Naphthalene	ND	8.0	0.80	ug/kg
Son Tetrachloride	ND	0.80	0.80	ug/kg	n-Propylbenzene	ND	0.80	0.80	ug/kg
Srobenzene	ND	0.80	0.80	ug/kg	Styrene	ND	0.80	0.80	ug/kg
Chloroethane	ND	1.6	0.80	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.80	0.80	ug/kg
Chloroform	ND	0.80	0.80	ug/kg	1,1,2,2-Tetrachloroethane	ND	1.6	0.80	ug/kg
Chloromethane	ND	0.80	0.80	ug/kg	Tetrachloroethene	ND	0.80	0.80	ug/kg
2-Chlorotoluene	ND	0.80	0.80	ug/kg	Toluene	ND	0.80	0.80	ug/kg
4-Chlorotoluene	ND	0.80	0.80	ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.80	ug/kg
Dibromochloromethane	ND	1.6	0.80	ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.80	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.0	0.80	ug/kg	1,1,1-Trichloroethane	ND	0.80	0.80	ug/kg
1,2-Dibromoethane	NÐ	0.80	0.80	ug/kg	1,1,2-Trichloroethane	ND	0.80	0.80	ug/kg
Dibromomethane	ND	0.80	0.80	ug/kg	Trichloroethene	3.5	1.6	0.80	ug/kg
1,2-Dichlorobenzene	ND	0.80	0.80	ug/kg	Trichlorofluoromethane	ND	8.0	0.80	ug/kg
1,3-Dichlorobenzene	ND	0.80	0.80	ug/kg	1,2,3-Trichloropropane	ND	1.6	0.80	ug/kg
1,4-Dichlorobenzene	ND	0.80	0.80	ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.80	ug/kg
Dichlorodifluoromethane	ND	1.6	0.80	ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.80	ug/kg
1,1-Dichloroethane	NÐ	0.80	0.80	ug/kg	Vinyt Acetate	ND	8.0	0.80	ug/kg
1,2-Dichloroethane	ND	0.80	0.80	ug/kg	Vinyl Chloride	ND	0.80	0.80	ug/kg
1,1-Dichloroethene	3.7	0.8	0.80	ug/kg	p/m-Xylene	ND	1.6	0.80	ug/kg
c-1,2-Dichloroethene	ND	0.80	0.80	ug/kg	o-Xylene	ND	0.80	0.80	ug/kg
-1,2-Dichloroethene	ND	0.80	0.80	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.80	ug/kg
1,2-Dichloropropane	ND	0.80	0.80	ug/kg					- •
Surrogates:	<u>REC (%)</u>	Control	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>	
Dibromofluoromethane	104	<u>Limits</u> 65-157			Toluene-d8	101	<u>Limits</u> 51-144		
,4-Bromofluorobenzene	93	4 9 -141							

RL - Reporting Limit , DF - Dilution Factor ,

Qual - Qualifiers



Date Received: Work Order No: Preparation: Method:

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Project: BAE System	ns							Page	7 of 15
Client Sample Number:			Lab Samp Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
SB-5-5			01-05-125	i-11	05/25/01 Solid	05/26/01	05/27/01	052601	CS
Parameter	<u>Result</u>	RL	DF Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	ND	17	0.84	ug/kg	1,3-Dichloropropane	ND	0.84	0.84	ug/kg
Benzene	ND	0.84	0.84	ug/kg	2,2-Dichloropropane	ND	4.2	0.84	ug/kg
Bromobenzene	ND	0.84	0.84	ug/kg	1,1-Dichloropropene	ND	1.7	0.84	ug/kg
Bromochloromethane	ND	1.7	0.84	ug/kg	c-1,3-Dichloropropene	ND	0.84	0.84	ug/kg
Bromodichloromethane	ND	0.84	0.84	ug/kg	t-1,3-Dichloropropene	ND	1.7	0.84	ug/kg
Bromoform	ND	4.2	0.84	ug/kg	Ethylbenzene	ND	0.84	0.84	ug/kg
Bromomethane	ND	4.2	0.84	ug/kg	2-Hexanone	ND	17	0.84	ug/kg
2-Butanone	ND	17	0.84	ug/kg	Isopropylbenzene	ND	0.84	0.84	ug/kg
n-Butylbenzene	ND	0.84	0.84	ug/kg	p-Isopropyitoluene	ND	0.84	0.84	ug/kg
sec-Butylbenzene	ND	0.84	0.84	ug/kg	Methylene Chloride	ND	8.4	0.84	ug/kg
tert-Butylbenzene	ND	0.84	0.84	ug/kg	4-Methyl-2-Pentanone	ND	17	0.84	ug/kg
Carbon Disulfide	ND	8.4	0.84	ug/kg	Naphthalene	ND	8.4	0.84	ug/kg
Carbon Tetrachloride	ND	0.84	0.84	ug/kg	n-Propylbenzene	ND	0.84	0.84	ug/kg
robenzene	ND	0.84	0.84	ug/kg	Styrene	ND	0.84	0.84	ug/kg
່ ເອົາibroethane	ND	1.7	0.84	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.84	0.84	ug/kg
Chloroform	ND	0.84	0.84	ug/kg	1,1,2,2-Tetrachloroethane	ND	1.7	0.84	ug/kg
Chloromethane	ND	0.84	0.84	ug/kg	Tetrachloroethene	ND	0.84	0.84	ug/kg
2-Chlorotoluene	ND	0.84	0.84	ug/kg	Toluene	ND	0.84	0.84	ug/kg
4-Chlorotoluene	ND	0.84	0.84	ug/kg	1,2,3-Trichlorobenzene	ND	1.7	0.84	ug/kg
Dibromochloromethane	ND	1.7	0.84	ug/kg	1,2,4-Trichlorobenzene	ND	1.7	0.84	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84	ug/kg	1,1,1-Trichloroethane	ND	0.84	0.84	ug/kg
1,2-Dibromoethane	ND	0.84	0.84	ug/kg	1,1,2-Trichloroethane	ND	0.84	0.84	ug/kg
Dibromomethane	ND	0.84	0.84	ug/kg	Trichloroethene	6.5	1.7	0.84	ug/kg
1,2-Dichlorobenzene	ND .	0.84	0.84	ug/kg	Trichlorofluoromethane	ND	8.4	0.84	ug/kg
1,3-Dichlorobenzene	ND	0.84	0.84	ug/kg	1,2,3-Trichloropropane	ND	1.7	0.84	ug/kg
1,4-Dichlorobenzene	ND	0.84	0.84	ug/kg	1,2,4-Trimethylbenzene	ND	1.7	0.84	ug/kg
Dichlorodifluoromethane	ND	1.7	0.84	ug/kg	1,3,5-Trimethylbenzene	ND	1.7	0.84	ug/kg
1,1-Dichloroethane	ND	0.84	0.84	ug/kg	Vinyl Acetate	ND	8.4	0.84	ug/kg
1,2-Dichloroethane	ND	0.84	0.84	ug/kg	Vinyl Chloride	ND	0.84	0.84	ug/kg
1,1-Dichloroethene	5.5	0.8	0.84	ug/kg	p/m-Xylene	ND	1.7	0.84	ug/kg
c-1,2-Dichloroethene	ND	0.84	0.84	ug/kg	o-Xylene	ND	0.84	0.84	ug/kg
t-1,2-Dichloroethene	ND	0.84	0.84	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84	ug/kg
1,2-Dichloropropane	ND	0.84	0.84	ug/kg					
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>	
Dibromofluoromethane	107	65-157			Toluene-d8	101	51-144		
1,4-Bromofluorobenzene	94	49-141							

RL - Reporting Limit DF - Dilution Factor ,

Qual - Qualifiers



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Date Received:	
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Project: BAE Systems

Client Sample Number:			Lab Sample Number:		Date Collected: Matrix:	Date Prepared:	Date Analyzed: QC Batch ID:		
SB-5-10			01-05-125	1-12	05/25/01 Solid	05/26/01	05/27/01	052601	CS 👘
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	<u>DF Qual</u>	<u>Units</u>
Acetone	ND	17	0.85	ug/kg	1,3-Dichloropropane	ND	0.85	0.85	ug/kg
Benzene	ND	0.85	0.85	ug/kg	2,2-Dichloropropane	ND	4.3	0.85	ug/kg
Bromobenzene	ND	0.85	0.85	ug/kg	1,1-Dichloropropene	ND	1.7	0.85	ug/kg
Bromochloromethane	ND	1.7	0.85	ug/kg	c-1,3-Dichloropropene	ND	0.85	0.85	ug/kg
Bromodichloromethane	ND	0.85	0.85	ug/kg	t-1,3-Dichloropropene	ND	1.7	0.85	ug/kg
Bromoform	ND	4.3	0.85	ug/kg	Ethylbenzene	ND	0.85	0.85	ug/kg
Bromomethane	ND	4.3	0.85	ug/kg	2-Hexanone	ND	17	0.85	ug/kg
2-Butanone	ND	17	0.85	ug/kg	Isopropylbenzene	ND	0.85	0.85	ug/kg
n-Butylbenzene	ND	0.85	0.85	ug/kg	p-Isopropyttoluene	ND	0.85	0.85	ug/kg
sec-Butylbenzene	ND	0.85	0.85	ug/kg	Methylene Chloride	ND	8.5	0.85	ug/kg
tert-Butylbenzene	ND	0.85	0.85	ug/kg	4-Methyl-2-Pentanone	ND	17	0.85	ug/kg
Carbon Disulfide	ND	8.5	0.85	ug/kg	Naphthalene	ND	8.5	0.85	ug/kg
bon Tetrachloride	ND	0.85	0.85	ug/kg	n-Propylbenzene	ND	0.85	0.85	ug/kg
orobenzene	ND	0.85	0.85	ug/kg	Styrene	ND	0.85	0.85	ug/kg
Chloroethane	ND	1.7	0.85	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.85	0.85	ug/kg
Chloroform	ND	0.85	0.85	ug/kg	1,1,2,2-Tetrachloroethane	ND	1.7	0.85	ug/kg
Chloromethane	ND	0.85	0.85	ug/kg	Tetrachloroethene	ND	0.85	0.85	ug/kg
2-Chlorotoluene	ND	0.85	0.85	ug/kg	Toluene	ND	0.85	0.85	ug/kg
4-Chlorotoluene	ND	0.85	0.85	ug/kg	1,2,3-Trichlorobenzene	ND	1.7	0.85	ug/kg
Dibromochloromethane	ND	1.7	0.85	ug/kg	1,2,4-Trichlorobenzene	ND	1.7	0.85	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.3	0.85	ug/kg	1,1,1-Trichloroethane	ND	0.85	0.85	ug/kg
1.2-Dibromoethane	ND	0.85	0.85	ug/kg	1,1,2-Trichloroethane	ND	0.85	0.85	ug/kg
Dibromomethane	ND	0.85	0.85	ug/kg	Trichloroethene	2.8	1.7	0.85	ug/kg
I.2-Dichlorobenzene	ND	0.85	0.85	ug/kg	Trichlorofluoromethane	ND	8.5	0.85	ug/kg
I.3-Dichlorobenzene	ND	0.85	0.85	ug/kg	1,2,3-Trichloropropane	ND	1.7	0.85	ug/kg
I,4-Dichlorobenzene	ND	0.85	0.85	ug/kg	1,2,4-Trimethylbenzene	ND	1.7	0.85	ug/kg
Dichlorodifluoromethane	ND	1.7	0.85	ug/kg	1,3,5-Trimethylbenzene	ND	1.7	0.85	ug/kg
1,1-Dichloroethane	ND	0.85	0.85	ug/kg	Vinyl Acetate	ND	8.5	0.85	ug/kg
1.2-Dichloroethane	ND	0.85	0.85	ug/kg	Vinyi Chloride	ND	0.85	0.85	ug/kg
1,1-Dichloroethene	3.8	0.05	0.85	ug/kg	p/m-Xylene	ND	1.7	0.85	ug/kg
-1,2-Dichloroethene	ND	0.85	0.85	ug/kg	o-Xylene	ND	0.85	0.85	ug/kg
-1,2-Dichloroethene	ND	0.85	0.85	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.85	ug/kg
,2-Dichloropropane	ND	0.85	0.85	ug/kg ug/kg			4.1	5.05	сулу
Surrogates:	<u>REC (%)</u>	Control Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	
Dibromofluoromethane	107	65-157			Toluene-d8	100	<u>51-144</u>		
.4-Bromofluorobenzene	94	49-141			i ciucile-uc	100	51-144		

RL - Reporting Limit , DI

DF - Dilution Factor , Qual - Qualifiers



ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Date Received:
Work Order No:
Preparation:
Method:

05/25/01 01-05-1251 EPA 5035 EPA 8260B

Project: BAE Systems

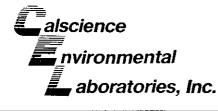
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Client Sample Number:			Lab Sam Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
SB-6-1			01-05-12	1-15	05/25/01 Solid	05/26/01	05/27/01	052601	CS
Parameter	<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	Result	RL	DF Quai	<u>Units</u>
Acetone	26	16	0.82	ug/kg	1,3-Dichloropropane	ND	0.82	0.82	ug/kg
Benzene	ND	0.82	0.82	ug/kg	2,2-Dichloropropane	ND	4.1	0.82	ug/kg
Bromobenzene	ND	0.82	0.82	ug/kg	1,1-Dichloropropene	ND	1.6	0.82	ug/kg
Bromochloromethane	ND	1.6	0.82	ug/kg	c-1,3-Dichloropropene	ND	0.82	0.82	ug/kg
Bromodichloromethane	ND	0.82	0.82	ug/kg	t-1,3-Dichloropropene	ND	1.6	0.82	ug/kg
Bromoform	ND	4.1	0.82	ug/kg	Ethylbenzene	ND	0.82	0.82	ug/kg
Bromomethane	ND	4.1	0.82	ug/kg	2-Hexanone	ND	16	0.82	ug/kg
2-Butanone	ND	16	0.82	ug/kg	Isopropylbenzene	ND	0.82	0.82	ug/kg
n-Butylbenzene	ND	0.82	0.82	ug/kg	p-isopropyltoluene	ND	0.82	0.82	ug/kg
sec-Butylbenzene	ND	0.82	0.82	ug/kg	Methylene Chloride	ND	8.2	0.82	ug/kg
ert-Butylbenzene	ND	0.82	0.82	ug/kg	4-Methyl-2-Pentanone	ND	16	0.82	ug/kg
Carbon Disulfide	ND	8.2	0.82	ug/kg	Naphthalene	ND	8.2	0.82	ug/kg
arbon Tetrachloride	ND	0.82	0.82	ug/kg	n-Propylbenzene	ND	0.82	0.82	ug/kg
probenzene	ND	0.82	0.82	ug/kg	Styrene	ND	0.82	0.82	ug/kg
íoroethane	ND	1.6	0.82	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.82	0.82	ug/kg
Chloroform	ND	0.82	0.82	uq/kq	1,1,2,2-Tetrachloroethane	ND	1.6	0.82	ug/kg
Chloromethane	ND	0.82	0.82	ug/kg	Tetrachloroethene	3.8	0.8	0.82	ug/kg
-Chiorotoluene	ND	0.82	0.82	ug/kg	Toluene	ND	0.82	0.82	ug/kg
-Chlorotoluene	ND	0.82	0.82	ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.82	ug/kg
Dibromochloromethane	ND	1.6	0.82	ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.82	ug/kg
,2-Dibromo-3-Chloropropane	ND	4.1	0.82	ug/kg	1,1,1-Trichloroethane	5.5	0.8	0.82	ug/kg
2-Dibromoethane	ND	0.82	0.82	ug/kg	1,1,2-Trichloroethane	ND	0.82	0.82	ug/kg
bibromomethane	ND	0.82	0.82	ug/kg	Trichloroethene	7.2	1.6	0.82	ug/kg
,2-Dichlorobenzene	ND	0.82	0.82	ug/kg	Trichlorofluoromethane	ND	8.2	0.82	ug/kg
,3-Dichlorobenzene	ND	0.82	0.82	ug/kg	1,2,3-Trichloropropane	ND	1.6	0.82	ug/kg
,4-Dichlorobenzene	ND	0.82	0.82	ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.82	ug/kg
ichlorodifluoromethane	ND	1.6	0.82	ug/kg	1.3.5-Trimethylbenzene	ND	1.6	0.82	ug/kg
,1-Dichloroethane	ND	0.82	0.82	ug/kg	Vinyl Acetate	ND	8.2	0.82	ug/kg
,2-Dichloroethane	ND	0.82	0.82	ug/kg	Vinyl Chloride	ND	0.82	0.82	ug/kg
,1-Dichloroethene	1.1	0.8	0.82	ug/kg	p/m-Xylene	ND	1.6	0.82	ug/kg
-1,2-Dichloroethene	ND	0.82	0.82	ug/kg	o-Xylene	ND	0.82	0.82	ug/kg
1,2-Dichloroethene	ND	0.82	0.82	ug/kg	Methyl-t-Butyl Ether (MTBE)		1.6	0.82	ug/kg
2-Dichloropropane	ND	0.82	0.82	ug/kg	,				-00
urrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	
ibromofluoromethane	112	65-157			Toluene-d8	99	<u>51-144</u>		
4-Bromofluorobenzene	87	49-141			10100110-00	33	91-144		

RL - Reporting Limit

n Al

mit , DF - Dilution Factor , Qual - Qualifiers



Date Received: Work Order No: Preparation: Method:

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Client Sample Number:			Lab Sam Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
SB-6-5			01-05-12	51-16	05/25/01 Solid	05/26/01	05/27/01	052601	ĊS 🔅
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	20	16	0.82	ug/kg	1,3-Dichloropropane	ND	0.82	0.82	ug/kg
Benzene	ND	0.82	0.82	ug/kg	2,2-Dichloropropane	ND	4.1	0.82	ug/kg
Bromobenzene	ND	0.82	0.82	ug/kg	1,1-Dichloropropene	ND	1.6	0.82	ug/kg
Bromochloromethane	ND	1.6	0.82	ug/kg	c-1,3-Dichloropropene	ND	0.82	0.82	ug/kg
Bromodichloromethane	ND	0.82	0.82	ug/kg	t-1,3-Dichloropropene	ND	1.6	0.82	ug/kg
Bromoform	ND	4.1	0.82	ug/kg	Ethylbenzene	ND	0.82	0.82	ug/kg
Bromomethane	ND	4.1	0.82	ug/kg	2-Hexanone	ND	16	0.82	ug/kg
2-Butanone	ND	16	0.82	ug/kg	Isopropylbenzene	ND	0.82	0.82	ug/kg
n-Butylbenzene	ND	0.82	0.82	ug/kg	p-isopropyltoluene	ND	0.82	0.82	ug/kg
sec-Butylbenzene	ND	0.82	0.82	ug/kg	Methylene Chloride	ND	8.2	0.82	ug/kg
ert-Butylbenzene	ND	0.82	0.82	ug/kg	4-Methyl-2-Pentanone	ND	16	0.82	ug/kg
Carbon Disulfide	ND	8.2	0.82	ug/kg	Naphthalene	ND	8.2	0.82	ug/kg
Propon Tetrachloride	ND	0.82	0.82	ug/kg	n-Propylbenzene	ND	0.82	0.82	ug/kg
robenzene	ND	0.82	0.82	ug/kg	Styrene	ND	0.82	0.82	ug/kg
unoroethane	ND	1.6	0.82	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.82	0.82	ug/kg
Chloroform	ND	0.82	0.82	ug/kg	1.1.2.2-Tetrachloroethane	ND	1.6	0.82	ug/kg
Chloromethane	ND	0.82	0.82	ug/kg	Tetrachloroethene	1.6	0.8	0.82	ug/kg
2-Chlorotoluene	ND	0.82	0.82	ug/kg	Toluene	ND	0.82	0.82	ug/kg
I-Chlorotoluene	ND	0.82	0.82	ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.82	ug/kg
Dibromochloromethane	ND	1.6	0.82	ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.82	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.1	0.82	ug/kg	1,1,1-Trichloroethane	2.1	0.8	0.82	ug/kg
1,2-Dibromoethane	ND	0.82	0.82	ug/kg	1,1,2-Trichloroethane	ND	0.82	0.82	ug/kg
Dibromomethane	ND	0.82	0.82	ug/kg	Trichloroethene	2.9	1.6	0.82	ug/kg
,2-Dichlorobenzene	ND	0.82	0.82	ug/kg	Trichlorofluoromethane	ND	8.2	0.82	ug/kg
,3-Dichlorobenzene	ND	0.82	0.82	ug/kg	1,2,3-Trichloropropane	ND	1.6	0.82	ug/kg
,4-Dichlorobenzene	ND	0.82	0.82	ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.82	ug/kg
Dichlorodifluoromethane	ND	1.6	0.82	ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.82	ug/kg
,1-Dichloroethane	ND	0.82	0.82	ug/kg	Vinyl Acetate	ND	8.2	0.82	ug/kg
,2-Dichloroethane	ND	0.82	0.82	ug/kg	Vinyl Chloride	ND	0.82	0.82	ug/kg
1-Dichloroethene	2.3	0.8	0.82	ug/kg	p/m-Xylene	ND	1.6	0.82	ug/kg
-1,2-Dichloroethene	ND	0.82	0.82	ug/kg	o-Xylene	ND	0.82	0.82	ug/kg
1,2-Dichloroethene	ND	0.82	0.82	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.82	ug/kg
,2-Dichloropropane	ND	0.82	0.82	ug/kg	,				
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>	
)ibromofluoromethane	111	65-157			Toluene-d8	101	51-144		
.4-Bromofluorobenzene	90	49-141					VI 177		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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SB-6-10			01-05-12	1-17	05/25/01 Solid	05/26/01	05/27/01	052601	CS 🦢
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter	<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	ND	19	0.97	ug/kg	1,3-Dichloropropane	ND	0.97	0.97	ug/kg
Benzene	ND	0.97	0.97	ug/kg	2,2-Dichloropropane	ND	4.9	0.97	ug/kg
Bromobenzene	ND	0.97	0.97	ug/kg	1,1-Dichloropropene	ND	1.9	0.97	ug/kg
Bromochloromethane	ND	1.9	0.97	ug/kg	c-1,3-Dichloropropene	ND	0.97	0.97	ug/kg
Bromodichloromethane	ND	0.97	0.97	ug/kg	t-1,3-Dichloropropene	ND	1.9	0.97	ug/kg
Bromoform	ND	4.9	0.97	ug/kg	Ethylbenzene	ND	0.97	0.97	ug/kg
Bromomethane	ND	4.9	0.97	ug/kg	2-Hexanone	ND	19	0.97	ug/kg
2-Butanone	ND	19	0.97	ug/kg	Isopropylbenzene	ND	0.97	0.97	ug/kg
n-Butylbenzene	ND	0.97	0.97	ug/kg	p-lsopropyltoluene	ND	0.97	0.97	ug/kg
sec-Butylbenzene	ND	0.97	0.97	ug/kg	Methylene Chloride	ND	9.7	0.97	ug/kg
ert-Butylbenzene	ND	0.97	0.97	ug/kg	4-Methyl-2-Pentanone	ND	19	0.97	ug/kg
Carbon Disulfide	ND	9.7	0.97	ug/kg	Naphthalene	ND	9.7	0.97	ug/kg
bon Tetrachloride	ND	0.97	0.97	ug/kg	n-Propylbenzene	ND	0.97	0.97	ug/kg
orobenzene	ND	0.97	0.97	ug/kg	Styrene	ND	0.97	0.97	ug/kg
Chioroethane	ND	1.9	0.97	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.97	0.97	ug/kg
Chloroform	ND	0.97	0.97	ug/kg	1,1,2,2-Tetrachloroethane	ND	1.9	0.97	ug/kg
Chloromethane	ND	0.97	0.97	ug/kg	Tetrachloroethene	ND	0.97	0.97	ug/kg
2-Chlorotoluene	ND	0.97	0.97	ug/kg	Toluene	ND	0.97	0.97	ug/kg
-Chlorotoluene	ND	0.97	0.97	ug/kg	1,2,3-Trichlorobenzene	ND	1.9	0.97	ug/kg
Dibromochloromethane	ND	1.9	0.97	ug/kg	1,2,4-Trichlorobenzene	ND	1.9	0.97	ug/kg
,2-Dibromo-3-Chloropropane	ND	4.9	0.97	ug/kg	1,1,1-Trichloroethane	ND	0.97	0.97	ug/kg
2-Dibromoethane	ND	0.97	0.97	ug/kg	1,1,2-Trichloroethane	ND	0.97	0.97	ug/kg
Dibromomethane	ND	0.97	0.97	ug/kg	Trichloroethene	ND	1.9	0.97	ug/kg
,2-Dichlorobenzene	ND	0.97	0.97	ug/kg	Trichlorofluoromethane	ND	9.7	0.97	ug/kg
,3-Dichlorobenzene	ND	0.97	0.97	ug/kg	1,2,3-Trichloropropane	ND	1.9	0.97	ug/kg
.4-Dichlorobenzene	ND	0.97	0.97	ug/kg	1,2,4-Trimethylbenzene	ND	1.9	0.97	ug/kg
Dichlorodifluoromethane	ND	1.9	0.97	ug/kg	1,3,5-Trimethylbenzene	ND	1.9	0.97	ug/kg
,1-Dichloroethane	ND	0.97	0.97	ug/kg	Vinyl Acetate	ND	9.7	0.97	ug/kg
,2-Dichloroethane	ND	0.97	0.97	ug/kg	Vinyl Chloride	ND	0.97	0.97	ug/kg
,1-Dichloroethene	ND	0.97	0.97	ug/kg	p/m-Xylene	ND	1.9	0.97	ug/kg
-1,2-Dichloroethene	ND	0.97	0.97	ug/kg	o-Xylene	ND	0.97	0.97	ug/kg
1,2-Dichloroethene	ND	0.97	0.97	ug/kg	Methyl-t-Butyl Ether (MTBE)		1.9	0.97	ug/kg
,2-Dichloropropane	ND	0.97	0.97	ug/kg	······································	•			
urrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	<u>Qual</u>	
ibromofluoromethane	108	65-157			Toluene-d8	101	<u>51-144</u>		
.4-Bromofluorobenzene	96	49-141			roluging-uo	101	01-1-44		

RL - Reporting Limit , DF - Dilution Factor ,

actor , Qual - Qualifiers

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1795 (114) 004



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Client Sample Number:		·····	Lab Sam	alo.	Date		Date	Date		
Cherit Sample Number.			Number		Collected:	Matrix:	Prepared:	Analyzed:	QC Bat	ch ID:
SB-7-1			01-05-125	1-20	05/25/01	Solid	05/26/01	05/27/01	052601	cs 🖉
Parameter	<u>Result</u>	RL	DF Qual	<u>Units</u>	Parameter		<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	45	18	0.92	ug/kg	1,3-Dichloropropa	aue	ND	0.92	0.92	ug/kg
Benzene	ND	0.92	0.92	ug/kg	2,2-Dichloropropa		ND	4.6	0.92	ug/kg
Bromobenzene	ND	0.92	0.92	ug/kg	1,1-Dichloroprope		ND	1.8	0.92	ug/kg
Bromochloromethane	ND	1.8	0.92	ug/kg	c-1,3-Dichloropro		ND	0.92	0.92	ug/kg
Bromodichloromethane	ND	0.92	0.92	ug/kg	t-1,3-Dichloroprog		ND	1.8	0.92	ug/kg
Bromoform	ND	4.6	0.92	ug/kg	Ethylbenzene		ND	0.92	0.92	ug/kg
Bromomethane	ND	4.6	0.92	ug/kg	2-Hexanone		ND	18	0.92	ug/kg
2-Butanone	ND	18	0.92	ug/kg	Isopropylbenzene	•	ND	0.92	0.92	ug/kg
n-Butylbenzene	ND	0.92	0.92	ug/kg	p-lsopropyltoluen		ND	0.92	0.92	ug/kg
sec-Butylbenzene	ND	0.92	0.92	ug/kg	Methylene Chlorid		ND	9.2	0.92	ug/kg
tert-Butylbenzene	ND	0.92	0.92	ug/kg	4-Methyl-2-Penta		ND	18	0.92	ug/kg
Carbon Disulfide	ND	9.2	0.92	ug/kg	Naphthalene	10110	ND	9.2	0.92	ug/kg
Corbon Tetrachloride	ND	0.92	0.92	ug/kg	n-Propyibenzene		ND	0.92	0.92	ug/kg
robenzene	ND	0.92	0.92	ug/kg	Styrene		ND	0.92	0.92	ug/kg
Cinoroethane	ND	1.8	0.92	ug/kg	1,1,1,2-Tetrachlor	roethane	ND	0.92	0.92	ug/kg
Chloroform	ND	0.92	0.92	ug/kg	1,1,2,2-Tetrachlor		ND	1.8	0.92	ug/kg
Chloromethane	ND	0.92	0.92	ug/kg	Tetrachloroethen		2.3	0.9	0.92	ug/kg
2-Chlorotoluene	ND	0.92	0.92	ug/kg	Toluene	5	ND	0.92	0.92	ug/kg
1-Chlorotoluene	ND	0.92	0.92	ug/kg	1,2,3-Trichlorober	37ene	ND	1.8	0.92	ug/kg
Dibromochloromethane	ND	1.8	0.92	ug/kg	1,2,4-Trichlorober		ND	1.8	0.92	ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.6	0.92	ug/kg	1,1,1-Trichloroeth		3.6	0.9	0.92	ug/kg
1,2-Dibromoethane	ND	0.92	0.92	ug/kg	1,1,2-Trichloroeth		ND	0.92	0.92	ug/kg
Dibromomethane	ND	0.92	0.92	ug/kg	Trichloroethene	ano	4.1	1.8	0.92	ug/kg
1,2-Dichlorobenzene	ND	0.92	0.92	ug/kg	Trichlorofluorome	thane	ND	9.2	0.92	ug/kg
1,3-Dichlorobenzene	ND	0.92	0.92	ug/kg	1,2,3-Trichloropro		ND	1.8	0.92	ug/kg
1,4-Dichlorobenzene	ND	0.92	0.92	ug/kg	1,2,4-Trimethylbe		ND	1.8	0.92	ug/kg
Dichlorodifluoromethane	ND	1.8	0.92	ug/kg	1,3,5-Trimethylbe		ND	1.8	0.92	ug/kg
1,1-Dichloroethane	ND	0.92	0.92	ug/kg	Vinyl Acetate	1120110	ND	9.2	0.92	ug/kg
I.2-Dichloroethane	ND	0.92	0.92	ug/kg	Vinyl Chloride		ND	0.92	0.92	ug/kg
I.1-Dichloroethene	1.7	0.9		ug/kg	p/m-Xylene		ND	1.8	0.92	ug/kg
>1.2-Dichloroethene	ND	0.92		ug/kg	o-Xylene		ND	0.92	0.92	ug/kg
-1,2-Dichloroethene	ND	0.92		ug/kg	Methyl-t-Butyl Eth	er (MTRE)	ND	1.8	0.92	ug/kg
,2-Dichloropropane	ND	0.92	0.92	ug/kg	moury-codyr Eur	Si (mi DE)	ne	1.0	J. J L	чуку
Surrogates:	<u>REC (%)</u>	Control	Qual		Surrogates:		<u>REC (%)</u>	Control	Qual	
Dibromofluoromethane	107	Limits			Taluana d9		404	<u>Limits</u>		
		65-157			Toluene-d8		101	51-144		
,4-Bromofluorobenzene	87	49-141								

RL - Reporting Limit , DF - Dilution Factor ,

tor , Qual - Qualifiers

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Project: BAE Systems

Client Sample Number:	umber:		Lab Sample Number:		Date Collected:	Matrix:	Date Prepared:	Date Analyzed: QC Batch ID:		
SB-7-5			01-05-12	51-21	05/25/01	Solid	05/26/01	05/27/01	052601	ĊŚ
Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>	Parameter		<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	ND	16	0.81	ug/kg	1,3-Dichloroprop	bane	ND	0.81	0.81	ug/kg
Benzene	ND	0.81	0.81	ug/kg	2,2-Dichloroprop	bane	ND	4.1	0.81	ug/kg
Bromobenzene	ND	0.81	0.81	ug/kg	1,1-Dichloroprop		ND	1.6	0.81	ug/kg
Bromochloromethane	ND	1.6	0.81	ug/kg	c-1,3-Dichloropr	opene	ND	0.81	0.81	ug/kg
Bromodichloromethane	ND	0.81	0.81	ug/kg	t-1,3-Dichloropro	opene	ND	1.6	0.81	ug/kg
Bromoform	ND	4.1	0.81	ug/kg	Ethylbenzene	•	ND	0.81	0.81	ug/kg
Bromomethane	ND	4.1	0.81	ug/kg	2-Hexanone		ND	16	0.81	ug/kg
2-Butanone	ND	16	0.81	ug/kg	Isopropylbenzer	e	ND	0.81	0.81	ug/kg
n-Butylbenzene	ND	0.81	0.81	ug/kg	p-Isopropyitolue		ND	0.81	0.81	ug/kg
sec-Butylbenzene	ND	0.81	0.81	ug/kg	Methylene Chlor		ND	8.1	0.81	ug/kg
ert-Butylbenzene	ND	0.81	0.81	ug/kg	4-Methyl-2-Pent		ND	16	0.81	ug/kg
Carbon Disulfide	ND	8.1	0.81	ug/kg	Naphthalene		ND	8.1	0.81	ug/kg
bon Tetrachloride	ND	0.81	0.81	ug/kg	n-Propylbenzen	e	ND	0.81	0.81	ug/kg
robenzene	ND	0.81	0.81	ug/kg	Styrene	-	ND	0.81	0.81	ug/kg
Inforcethane	ND	1.6	0.81	ug/kg	1,1,1,2-Tetrachl	oroethane	ND	0.81	0.81	ug/kg
Chloroform	ND	0.81	0.81	ug/kg	1,1,2,2-Tetrach		ND	1.6	0.81	ug/kg
Chloromethane	ND	0.81	0.81	ug/kg	Tetrachloroethe		ND	0.81	0.81	ug/kg
2-Chlorotoluene	ND	0.81	0.81	ug/kg	Toluene	110	ND	0.81	0.81	ug/kg
-Chlorotoluene	ND	0.81	0.81	ug/kg	1,2,3-Trichlorob	007000	ND	1.6	0.81	ug/kg
Dibromochloromethane	ND	1.6	0.81	ug/kg	1,2,4-Trichlorob		ND	1.6	0.81	ug/kg
,2-Dibromo-3-Chloropropane	ND	4.1	0.81	ug/kg	1,1,1-Trichloroei		ND	0.81	0.81	ug/kg
,2-Dibromoethane	ND	0.81	0.81	ug/kg	1,1,2-Trichloroe		ND	0.81	0.81	ug/kg
)ibromomethane	ND	0.81	0.81		Trichloroethene	liane	ND	1.6	0.81	
.2-Dichlorobenzene	ND	0.81	0.81	ug/kg ug/kg	Trichlorofluorom	othone	ND	1. 0 8.1	0.81	ug/kg
,3-Dichlorobenzene	ND	0.81	0.81				ND ND	8.1 1.6	0.81	ug/kg ug/kg
,4-Dichlorobenzene	ND	0.81	0.81	ug/kg	1,2,3-Trichlorop		ND		0.81	
ichlorodifluoromethane	ND	1.6		ug/kg	1,2,4-Trimethylb			1.6		ug/kg
,1-Dichloroethane	ND		0.81	ug/kg	1,3,5-Trimethylb	enzene	ND	1.6	0.81	ug/kg
•		0.81	0.81	ug/kg	Vinyl Acetate		ND	8.1	0.81	ug/kg
,2-Dichloroethane	ND	0.81	0.81	ug/kg	Vinyl Chloride		ND	0.81	0.81	ug/kg
,1-Dichloroethene	ND	0.81	0.81	ug/kg	p/m-Xylene		ND	1.6	0.81	ug/kg
1,2-Dichloroethene	ND	0.81	0.81	ug/kg	o-Xylene		ND	0.81	0.81	ug/kg
1,2-Dichloroethene ,2-Dichloropropane	ND ND	0.81 0.81	0.81 0.81	ug/kg ug/kg	Methyl-t-Butyl El	iner (MTBE)	ND	1.6	0.81	ug/kg
urrogates:	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>		Surrogates:		<u>REC (%)</u>	<u>Control</u>	Qual	
ibromofluoromethane	111	<u>Limits</u> 65-157			Toluene-d8		102	<u>Limits</u> 51-144		
4-Bromofluorobenzene	95	49-141						.		

RL - Reporting Limit , DF - Dilution Factor ,

n Factor , Qual - Qualifiers



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Project: **BAE Systems**

TOJECI. DAE System	0					1 age 14 01 10			
Client Sample Number:	·		Lab Samp Number		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bate	ch ID:
SB-7-10			01-05-125	1-22	05/25/01 Solid	05/26/01	05/27/01	052601	CS
Parameter	Result	<u>RL</u>	<u>DF</u> Qual	<u>Units</u>	Parameter	<u>Result</u>	<u>RL</u>	DF Qual	<u>Units</u>
Acetone	ND	20	0.98	ug/kg	1,3-Dichloropropane	ND	0.98	0.98	ug/kg
Benzene	ND	0.98	0.98	ug/kg	2,2-Dichloropropane	ND	4.9	0.98	ug/kg
Iromobenzene	ND	0.98	0.98	ug/kg	1,1-Dichloropropene	ND	2.0	0.98	ug/kg
Iromochloromethane	ND	2.0	0.98	ug/kg	c-1,3-Dichloropropene	ND	0.98	0.98	ug/kg
romodichloromethane	ND	0.98	0.98	ug/kg	t-1,3-Dichloropropene	ND	2.0	0.98	ug/kg
romoform	ND	4.9	0.98	ug/kg	Ethylbenzene	ND	0.98	0.98	ug/kg
romomethane	ND	4.9	0.98	ug/kg	2-Hexanone	ND	20	0.98	ug/kg
-Butanone	ND	20	0.98	ug/kg	Isopropylbenzene	ND	0.98	0.98	ug/kg
-Butylbenzene	ND	0.98	0.98	ug/kg	p-Isopropyltoluene	ND	0.98	0.98	ug/kg
ec-Butylbenzene	ND	0.98	0.98	ug/kg	Methylene Chloride	ND	9.8	0.98	ug/kg
ert-Butylbenzene	ND	0.98	0.98	ug/kg	4-Methyl-2-Pentanone	ND	20	0.98	ug/kg
arbon Disulfide	ND	9.8	0.98	ug/kg	Naphthalene	ND	9.8	0.98	ug/kg
bon Tetrachloride	ND	0.98	0.98	ug/kg	n-Propylbenzene	NÐ	0.98	0.98	ug/kg
viorobenzene	ND	0.98	0.98	ug/kg	Styrene	ND	0.98	0.98	ug/kg
chloroethane	ND	2.0	0.98	ug/kg	1,1,1,2-Tetrachloroethane	ND	0.98	0.98	ug/kg
hloroform	ND	0.98	0.98	ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	0.98	ug/kg
hloromethane	ND	0.98	0.98	ug/kg	Tetrachloroethene	ND	0.98	0.98	ug/kg
-Chlorotoluene	ND	0.98	0.98	ug/kg	Toluene	ND	0.98	0.98	ug/kg
-Chiorotoluene	ND	0.98	0.98	ug/kg	1,2,3-Trichlorobenzene	ND	2.0	0.98	ug/kg
bioromochloromethane	ND	2.0	0.98	ug/kg	1,2,4-Trichlorobenzene	ND	2.0	0.98	ug/kg
,2-Dibromo-3-Chloropropane	ND	4.9	0.98	ug/kg	1,1,1-Trichloroethane	ND	0.98	0.98	ug/kg
2-Dibromoethane	NÐ	0.98	0.98	ug/kg	1,1,2-Trichloroethane	ND	0.98	0.98	ug/kg
bibromomethane	ND	0.98	0.98	ug/kg	Trichloroethene	ND	2.0	0.98	ug/kg
,2-Dichlorobenzene	ND	0.98	0.98	ug/kg	Trichlorofiuoromethane	ND	9.8	0.98	ug/kg
,3-Dichlorobenzene	ND	0.98	0.98	ug/kg	1,2,3-Trichloropropane	ND	2.0	0.98	ug/kg
.4-Dichlorobenzene	ND	0.98	0.98	ug/kg	1,2,4-Trimethylbenzene	ND	2.0	0.98	ug/kg
ichlorodifluoromethane	ND	2.0	0.98	ug/kg	1,3,5-Trimethylbenzene	ND	2.0	0.98	ug/kg
1-Dichloroethane	ND	0.98	0.98	ug/kg	Vinyl Acetate	ND	9.8	0.98	ug/kg
,2-Dichloroethane	ND	0.98	0.98	ug/kg	Vinyl Chloride	ND	0.98	0.98	ug/kg
,1-Dichloroethene	ND	0.98	0.98	ug/kg	p/m-Xylene	ND	2.0	0.98	ug/kg
1,2-Dichloroethene	ND	0.98	0.98	ug/kg	o-Xylene	ND	0.98	0.98	ug/kg
1.2-Dichloroethene	ND	0.98	0.98	ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.98	ug/kg
,2-Dichloropropane	ND	0.98	0.98	ug/kg	· · · ·				-
urrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	
ibromofluoromethane	111	65-157			Toluene-d8	101	51-144		
.4-Bromofluorobenzene	97	49-141							

RL - Reporting Limit ,

DF - Dilution Factor , Qual - Qualifiers



ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127

Date Received:
Work Order No:
Preparation:
Method:

05/25/01 01-05-1251 EPA 5035 EPA 8260B

Project: **BAE Systems** Page 15 of 15

Client Sample Number:		· · · · · ·) Samp umber:		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	ch ID:
Method Blank			09	5-01-02	5-2,737	N/A Solid	N/A	05/27/01	05260	ICS.
Parameter	<u>Result</u>	<u>RL</u>	DF	<u>Qual</u>	<u>Units</u>	Parameter	<u>Result</u>	<u>RL</u>	<u>DF</u> Qual	<u>Units</u>
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1	ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1	ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	2.0	1	ug/kg
Bromochloromethane	ND	2.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1	ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	2.0	1	ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1	ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1	ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1	ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1	ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	NÐ	10	1	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1	ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1	ug/kg
arbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1	ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1	ug/kg
Chloroethane	ND	2.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1	ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	1	ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1	ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1	ug/kg
Dibromochloromethane	ND	2.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1	ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1	ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1	ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	2.0	1	ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1	ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	2.0	1	ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	NĎ	2.0	1	ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1	ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1	ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyi Chloride	ND	1.0	1	ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1	ug/kg
c-1,2-Dichloroethene	NÐ	1.0	1		ug/kg	o-Xylene	ND	1.0	1	ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-t-Butyl Ether (MTBI	E) ND	2.0	1	ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg					
Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits		<u>Qual</u>		Surrogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual	1
Dibromofluoromethane 1,4-Bromofluorobenzene	105 93	65-157 49-141				Toluene-d8	100	51-144		

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127 Project: BAE Systems				05/25/01 01-05-1251 Total Digestion EPA 6010B			
Spiked Sample ID	Matrix	Instrument	Date Prepared	Date /	Analyzed	MS/MSD Batch Number	
SB-5-5	Solid	ICP 3300	05/29/01	05/	30/01	052901ms3	
Parameter	MS %REC	MSD %REC	<u>%REC CL</u>	<u>RPD</u>	RPD CL	Qualifiers	
Antimony	42	40	50-115	6	0-20	3	
Arsenic	97	98	75-125	1	0-20		
Barium	98	97	75-125	0	0-20		
Beryllium	98	98	75-125	0	0-20		
Cadmium	96	96	75-125	1	0-20		
Chromium (Total)	101	100	75-125	1	0-20		
Cobalt	98	98	75-125	0	0-20		
Copper	97	97	75-125	0	0-20		
Lead	91	92	75-125	2	0-20		
Molybdenum	91	92	75-125	1	0-20		
Nickel	103	100	75-125	· 3	0-20		
Selenium	91	92	75-125	2	0-20		
Silver	97	97	75-125	0	0-20		
Thallium	86	87	75-125	1	0-20		
Vanadium	94	93	75-125	1	0-20		
Zinc	95	97	75-125	1	0-20		



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Quality Control - Laboratory Control Sample

ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127 Date Received: Work Order No: Preparation: Method:

05/25/01 01-05-1251 Total Digestion EPA 6010B

Project: BAE Systems

Ĺ	CS Sample Number	Matrix	Instrument Date Analyzed		Lab File ID	LCS Batch N	umber
10000	097-01-002-2:449	Solid	ICP 3300	05/29/01	0105294	0105291	:\$3
P	arameter	Conc Ac	ided Conc	Recovered	%Rec	%Rec CL	Qualifiers
А	ntimony	50		46.8	94	80-120	
Α	rsenic	50		45.2	90	80-120	
B	arium	50		48.7	97	80-120	
В	eryllium	50		48.9	98	80-120	
С	admium	50		51.3	103	80-120	
С	hromium (Total)	50		49.6	99	80-120	
С	obalt	50		52.0	104	80-120	
С	opper	50		50.4	101	80-120	
L	ead	50		48.8	98	80-120	
Μ	lolybdenum	50		50.3	100	80-120	
N	ickel	50		50.7	101	80-120	
/ s	elenium	50		48.5	97	80-120	
S	ilver	25		24.3	97	80-120	
T	hallium	50		49.6	99	80-120	
V	anadium	50		49.9	100	80-120	
Zi	inc	50		51.5	103	80-120	

Calscience nvironmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127 Project: BAE Systems				05/25/01 01-05-1251 Total Digestion EPA 7471A			
Spiked Sample ID	Matrix	Instrument	Date Prepared	Date	Analyzed	MS/MSD Batch Number	
SB-5A-1	Solid	Mercury	05/29/01		/29/01	052901ms1	
Parameter Mercury	<u>MS %REC</u> 133	<u>MSD %REC</u> 116	<u>%REC CL</u> 76-136	<u>RPD</u>	<u>RPD CL</u> 0-16	Qualifiers	

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Quality Control - Laboratory Control Sample

ARCADIS Geraghty & Miller 1400 North Harbor Blvd., Suite 700 Fullerton, CA 92835-4127 Project: BAE Systems		Date Received: Work Order No: Preparation: Method:		05/25/01 01-05-1251 Total Digestion EPA 7471A	
LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-978	Solid	Mercury	05/29/01	010529 I	0105291čs1

Parameter	Conc Added	Conc Recovered	<u>%Rec</u>	%Rec CL	<u>Qualifiers</u>
Mercury	0.835	0.917	110	82-124	



QUALITY ASSURANCE SUMMARY

Method EPA 7199/3060A

ARCADIS Geraghty & N Page 1 of 1	Work Or Date An	01-05-1251 05/29/01			
Matrix Spike/Matrix Spike DuplicateSample Spiked: SB-3-10AnalyteMS%RECHexavalent Chromium101		MSD%REC	Control <u>Limits</u> 70 - 130	<u>%RPD</u> 0	Control <u>Limits</u> 0 - 25
Laboratory Control Sa					0 - 20
<u>Analyte</u>	Conc. <u>Added</u>	Conc. <u>Rec.</u>	<u>%REC</u>		Control <u>Limits</u>
Hexavalent Chromium	50.0	50.5	101		80 - 120

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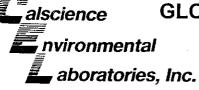
Quality Control - LCS/LCS Duplicate

ARCADIS Geraghty & Miller	Date Received:	05/25/01
1400 North Harbor Blvd., Suite 700	Work Order No:	01-05-1251
Fullerton, CA 92835-4127	Preparation:	EPA 5035
	Method:	EPA 8260B
Project: BAE Systems		

LCS Sample Number	Matrix Ir	nstrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ж
095-01-025-2,737	Solid	GC/MS S	N/A	05/28/01	052601CS	
Parameter	LCS %REC	LCSD %R	EC <u>%REC (</u>	<u>CL RPD</u>	RPD CL	Qualifiers
Benzene	98	105	76-12	4 7	0-15	
Carbon Tetrachloride	78	80	66-13	7 2	0-16	
Chlorobenzene	98	105	72-12	97	0-21	
1,2-Dichlorobenzene	97	103	79-12	1 7	0-20	
1,1-Dichloroethene	100	109	59-13	1 8	0-14	
Toluene	97	102	72-13	0 6	0-16	
Trichloroethene	96	108	69-13	0 12	0-18	
Vinyl Chloride	.98	105	51-13	66	0-21	
Methyl-t-Butyl Ether (MTBE)	92	90	69-14	9 2	0-17	
Fort-Butyl Alcohol (TBA)	77.	62	49-14	5 22	0-25	
Diisopropyl Ether (DIPE)	97	96	73-13	31	0-25	
Ethyl-t-Butyl Ether (ÈTBE)	93	92	73-13	2 1	0-25	
Tert-Amyl-Methyl Ether (TAME)	92	92	82-12	0 0	0-25	

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GLOSSARY OF TERMS AND QUALIFIERS



Work Order Number: 01-05-1251

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the completed the second durit based on the second durit
B ND	therefore, the sample data was reported without further clarification. Analyte was present in the associated method blank. Not detected at indicated reporting limit.

ARCAL GERAGHTY & MILLER	AILLER	Laboratory Tas	Laboratory Task Order No./P.O. No.	1	CHAIN-OF-CUSTODY RECORD	Y RECORD Page	of 2
Project Number/Name				ANI	ANALYSIS / METHOD / SIZE		
Project Location BAE 545TEMS	54517	Simi					
Laboratory CAL SCIENCE	NCE.						'n
Project Manager RUHMK6		AGM					
Sampler(s)/Affiliation	Non	Lagm		er.			
		Date/Time	LE ST HA	NO ANY			
Sample ID/Location	Matrix				/ /	Remarks	Total
5-H-2 38-4-5	S	5/25/01 0730	<u>``</u>	>			7
258-4-10	S	0735	>	, V,		Hold Metals	T
358-4-15	S	0755		/		Hold Metrils	Ъ
Y 5B-4-20	Ś	0,410				12	7
558-4-25	\$	0435				11-1/cl	5
65B-2-10	S	0910					3
758-2-14	S	09320		<u> </u>			б
858-3-10		5001					
9 5B-3A-13		5401	>				
1-92-58-1		1210					T
((58-5-5		1135					7
1253-5-10		145		>		Hold Metals	T
1358-5-15		1150		/		Hold	J
145B-5-18		1205	>			Hold	L
							-
Sample Matrix: L = Liquid;	S	= Solid; A = Air				iotal No. of Bottles/ Containers	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Relinquished by:	6	Organ Organ	Organization: <u>内G+1^</u> Organization: Ce C		Date <u>5 / 25/0/</u> Date <u>5 / 25/0/</u>	- Time <u>しこ名</u> Sea Time し らこ子 Yes	Seal Intact?
Delinquiched hr		a coro	.uoiterineor		Data		
Received by:		Organ	Organization:		Date /		es No N/A
Special Instructions/Remarks:							1 1
olease return	24,122	its in 48hrs	(121)				
Delivery Method: XIn Person	In Per		15		Lab Courier	□ Other	
		· .		SPECIFY	•	SPECIFY	-Y AG 05-0597

ARCA GERAGHTY & MILLER	MILLER	Laboratory Task Order No./P.O. No	k Order No./F				Ċ	2
Project Number/Name	ĺ		•				rage 01	
Project Location BAB	Systems	Ş			ANALYSIS / METHOD / SIZE			
Laboratory CAL SCIENCE	Sce							
Project Manager RUHMK6	√k6			2 ₂ 2				
Sampler(s)/Affiliation (2700)		AG-M	124	PSIC St				
Sample ID/Location	Matrix	Date/Time Sampled Lah ID	94. F	102 202 102 202				
SK 1-9-83	5	5/25/01 1235				Remarks	Total	a
513-6-5 16	S	1240						·
5B-6-10 17	S	1245				-1-70M FINT		Τ
SB-6-15 18	5	1250	>	>		HUN VUIL		
51 21-9-95	\$	1255				A104	7	Т
26-7-1 20	V	0151						-
513-7-5 21	2	1315		<u></u>			2 -	<u> </u>
7-10	Ś	(325				1-1-1 h wat		
512-7-15 23	S	1335				CINI211 0101		<u> </u>
5B-7-19 24	থ	1355	>			2/2/1		
								-
						-		1
				~				
							-	
Sample Matrix: L = Liquid;	id; S =	= Solid; A = Air				Total No. of Bottles/ Containers	f Bottles/ 40	
Relinquished by: Z	100	Organization:		AG M	12212		Inta	~
				J	1	Time '628	- Yes No N/A	∢
Relinquished by: Received by:		Organization: Organization:	zation: zation:		Date / / / Date / /	Time	Seal Intact?	<u>~</u> 5
Special Instructions/Remarks:								٢
HL JASH								
Delivery Method: 🔀	X In Person		Common Carrier	-	Lab Courier	□Other		
				SPECIFY			SPECIFY AG 05-	-0597

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ARCADIS GERAGHTY& MILLER

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Appendix E

City Directory Search

EBR^{*} Environmental Data Resources, Inc.

The EDR-City Directory Abstract

3171 South Bundy Drive 3171 South Bundy Drive Los Angeles, CA 90066

April 24, 2001

Inquiry Number: 620973-8

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802

Environmental Data Resources, Inc. City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1528-00, Section 7.3 on Historical Use Information, identifies the prioruse requirements for a Phase I environmental site assessment. The ASTM standard requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.

To meet the prior use requirements of ASTM E 1528-00, Section 7.3.4, the following standard historical sources may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1528-00 requires All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful. (ASTM E 1528-00, Section 7.3.4, page 12. EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1528-00 specifies that a review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice. (ASTM E 1528-00, Section 7.3.4, page 12.)

Please call EDR Nationwide Customer Service at 1-800-352-0050 (8am-8pm EST) with questions or comments about your report. Thank you for your business!

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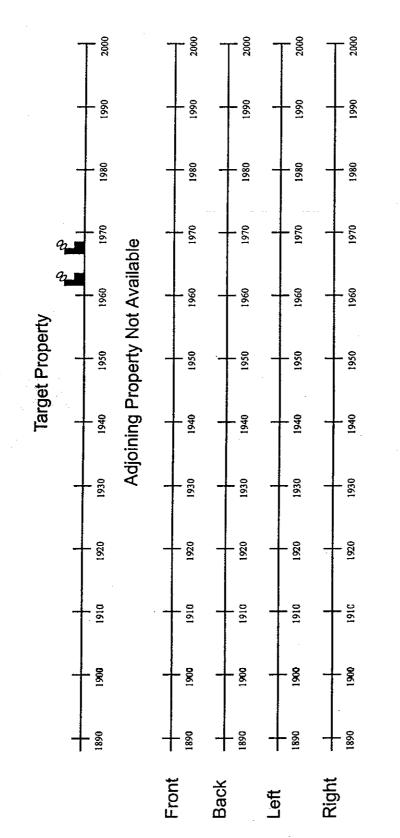
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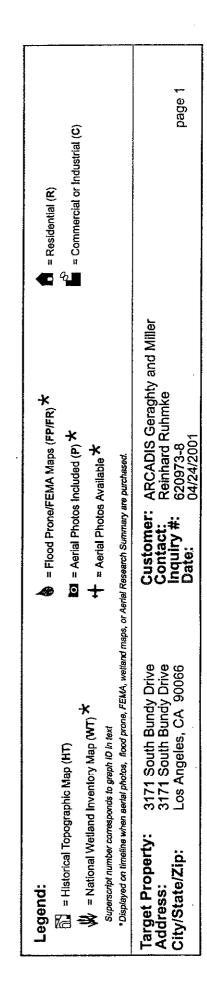
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Data Data Resources, Inc.

Prior Use Report[®] Timeline

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4. SUMMARY

• City Directories:

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1963 through 1998. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:

City Directories Apr 24, 2001

Target Property: 3171 South Bundy Drive Los Angeles, CA 90066

PUR ID

Year Uses 1963 Lear Siegler Inc 1968 Lear Siegler Inc 1973 Address not Listed in Research Source 1978 Address not Listed in Research Source 1983 No Return 1988 Address not Listed in Research Source ---1993 Address not Listed in Research Source 1998 Address not Listed in Research Source

Adjoining Properties

SURROUNDING

S Bundy Dr Los Angeles, CA 90066

PUR ID Year Uses

1963

*** S BUNDY DR *** Address Not Listed In Research Source (2876) Severns Texaco Service Station (3010) Address Not Listed In Research Source (3030) No Addresses Listed Beyond Target Property

1968 *** S BUNDY DR ***

Harry's Union Service (2876) Severns Texaco Service Station (3010) Address Not Listed In Research Source (3030) No Addresses Listed Beyond Target Property

1973

*** S BUNDY DR *** Bill's Union (2876) Severns Texaco Service Station (3010) Berkshire/Berkus B A Assocs/Enviro Sys Intl (3030) No Addresses Listed Beyond 3030

Portion-Findings (FIM Information Only)

.

Portion-Findings (FIM Information Only)

<u>Source</u>

General Tel Co City Directory

General Tel Co City Directory

General Tel Co City Directory

Haines City Directory

<u>Source</u>

General Tel Co City Directory

General Tel Co City Directory

General Tel Co City Directory

620973-8 3

\bigcirc				
	PUR ID <u>Year</u>	<u>Uses</u>	Portion-Findings (FIM Information Only)	<u>Source</u>
	1978	*** S BUNDY DR ***		Haines City Directory
		Avis Union Service (2876)		
		Serves Texaco Service Station (3010)		
		Bundy Escrow/Burnham Bldg Co/H S I Reservation (3030)		
		- Hotel Systems Intl/Urban West/Holders Capital Corp (3030)		
		No Addresses Listed Beyond 3030		
	1983	*** S BUNDY DR ***		Haines City Directory
		Dave's Union 76 (2876)		
		George's Texaco (3010)		
		Bundy Escrow/Burnham Bldg Co/H S I Reservation (3030)		
		- Hotel Systems Intl/Urban West Community (3030)		
		No Addresses Listed Beyond 3030		
	1988	*** S BUNDY DR ***		Haines City Directory
		Dave's Union 76 (2876)		
		George's Texaco (3010)		
		Chamberlain Ins Asc/Kelsey Natl Corp (3030)		
		Conroy's Florists (Unnumbered)		
		No Addresses Listed Beyond Unnumbered		
\cap				
Ú	1993	*** S BUNDY DR ***		Haines City Directory
		Dave's Union 76 (2876)		
		VS Service Center (3010)	·	
		Kelsey Natl Corp (3030)		
		No Addresses Listed Beyond 3030		
	1998	*** S BUNDY DR ***		Haines City Directory
		Dave's Unocal 76 (2876)		
		VS Texaco (3010)		
		Kelsey Design/Kelsey Natl Corp (3030)		

No Addresses Listed Beyond 3030

620973-8 4

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address Change

Indicates that a change of address has occurred; indicates new address. A change of address may occur when a city, street, or the address ranges of a street are restructured.

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. To differentiate from each adjoining property, stand at the target property's "front door" facing the street.

Adjoining Back

Property directly to the rear of the target property.

Adjoining Front

Property directly in front of the target property.

Adjoining Left

Property directly to the left of the target property.

Adjoining Right

Property directly to the right of the target property.

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

Commercial

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial

Property that has either a commercial or an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.

Aerial photograph flyer: Department of National Resources (state).

D.O.T.

Aerial photograph flyer: Department of Transportation (state).

Fairchild

Aerial photograph flyer: Fairchild (private).

FIM

Fire Insurance Map

Flood Insurance Rate Maps

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.

(j

Aerial photograph flyer: Forest Service (Federal).

Geonex

Aerial photograph flyer: Geonex (private).

M.C.

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Map Required Not Available in Local Collection

Property is located on a fire insurance map sheet not available in local and/or microfilm collection.

Mark Hurd

Aerial photograph flyer: Mark Hurd (private)

Multiple Locations

Indicates that there are two or more sites adjoining the target property's border.

N.A.P.P.

Aerial photograph flyer: National Aerial Photography Program (Federal).

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. Applies only to city directories.

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different that EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors.

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.

Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.

Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.

Aerial photograph flyer: United States Geological Survey (Federal).

Vacant

May refer to an unoccupied structure or land. Used only when fire insurance map or city directory specifies 'vacant.'

W.P.A.

Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE

Aerial photograph flyer: Wallace (private).

Appendix F

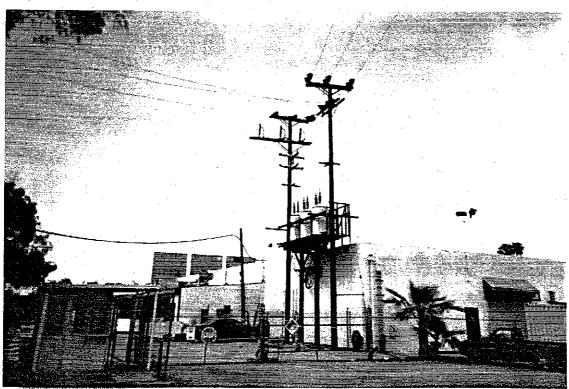
Annotated Photographs

Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 1. Eastside of Building 1 and east parking Lot



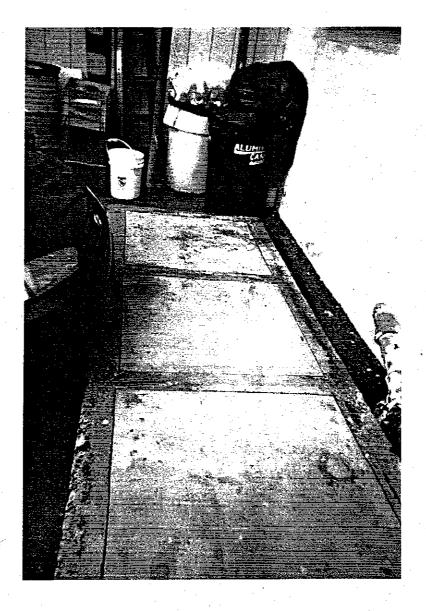


Photograph 2. Electric transformers and location of former clarifier (by car)

Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 3. Former clarifier



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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 4. Southside of facility





Photograph 5. North side of facility. Fence is boundary between Los Angeles anc Santa Monica properties

Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

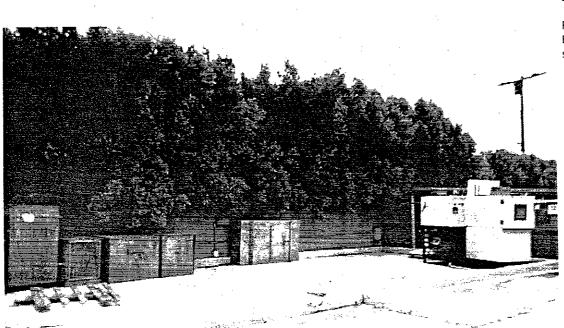
Photograph 6. Westside of Building 5 (Bundy building)



Photograph 7. West parking lot



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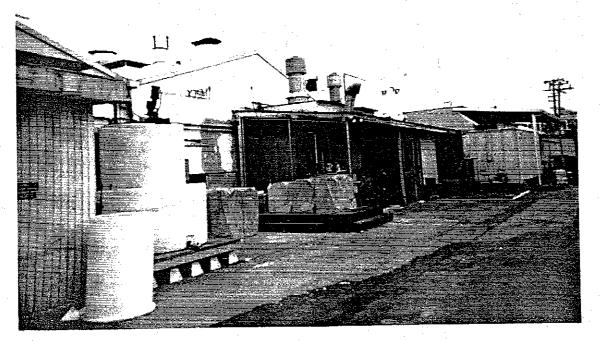


Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 8. Former hazardous waste storage yard

Photograph 9. Satellite waste storage area and wastewater treatment plant



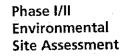
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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

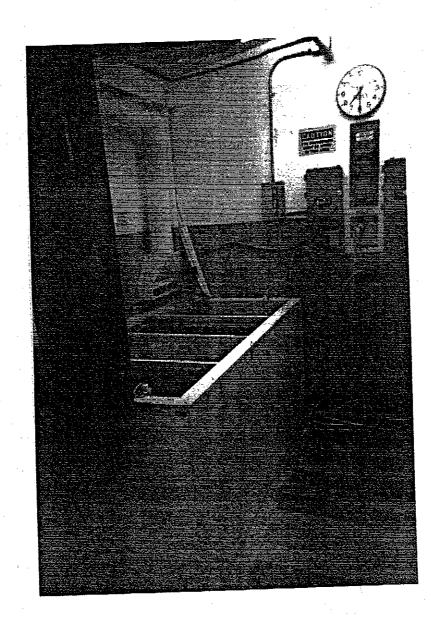
Photograph 10. Active clarifier In wastewater treatment plant.





BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 11. Plating room



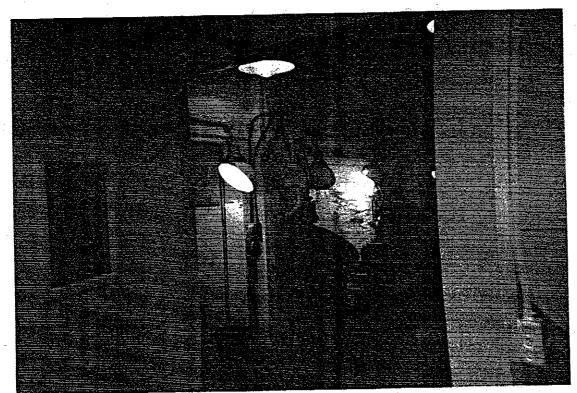
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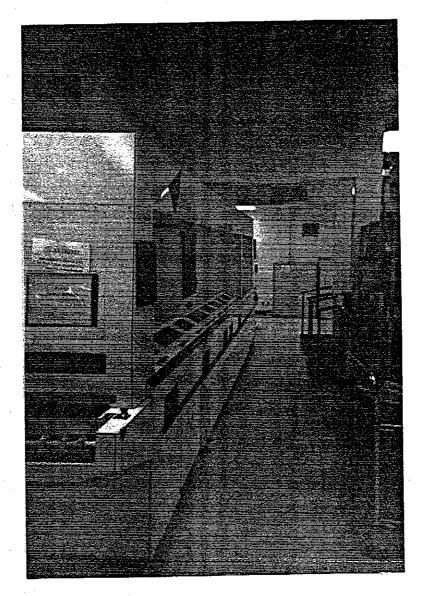
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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 12. Paint booths





Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

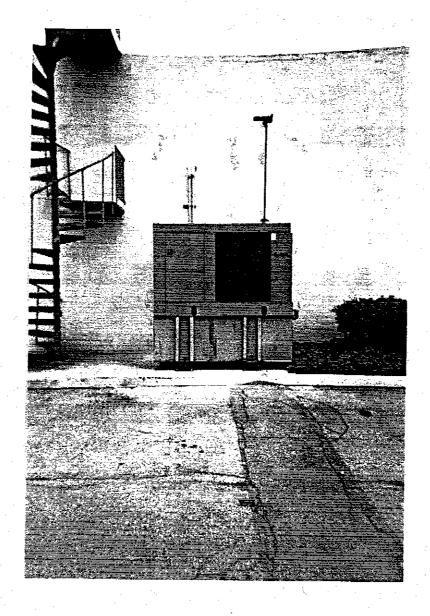
Photograph 13. Printed circuit board cleaning machine

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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 14. Emergency generator with diesel fuel tank on bottom

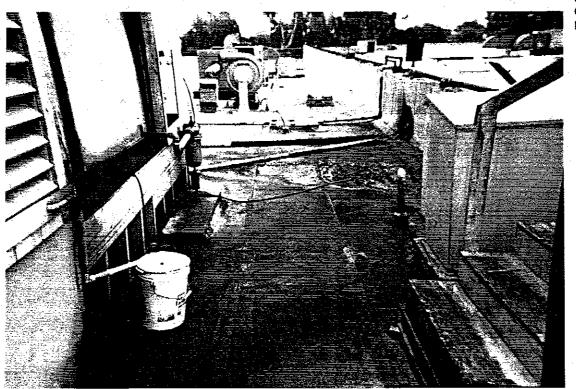


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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 15. Oil staining on roof of Building 1

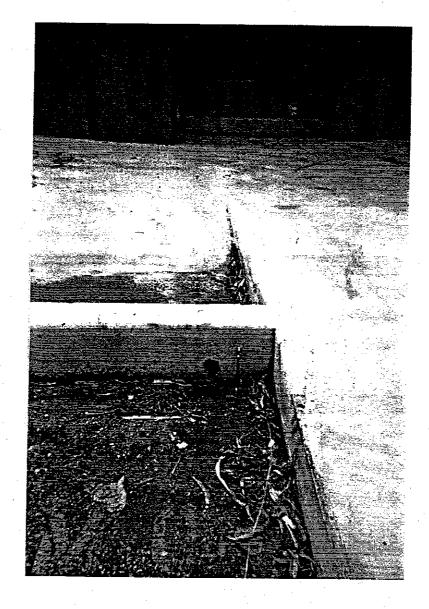


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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 16. Drain from former hazardous waste storage yard



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Phase I/II Environmental Site Assessment

BAE SYSTEMS 3171 South Bundy Dr. Los Angeles, CA

Photograph 17. Former paint storage area



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Appendix G

Asbestos Report



Hygienetics Environmental Services, Inc.

Suite A 1920 East Warner Avenue Santa Ana, CA 92705 Phone: (949) 955-0201 Fax: (949) 955-0965

RECEIVED

MAY 0 3 2001 ARCADISGeraghty&Miller

May 1, 2001

Mr. Steve Figgins Arcadis Geraghty & Miller 1400 N. Harbor Blvd., Suite 700 Fullerton, California 92825

Re: Asbestos Inspection Report, 3173 S. Bundy, Los Angeles, California Hygienetics Project Number 4313.015

Dear Mr. Figgins:

Hygienetics Environmental Services, Inc. (Hygienetics Environmental) was retained by Environmental Partners to perform an asbestos investigative survey at the above referenced property. The purpose of the investigation was to identify, locate and quantify accessible asbestos-containing materials (ACM) within the building. The inspection was limited to friable and damaged non-friable materials. The on-site asbestos sampling was performed by Norm Kramer a California Accredited Asbestos Consultant.

Asbestos-Containing Materials

The on-site inspection consisted of identifying, quantifying and bulk sample collection of suspect ACM. Samples were collected using wet methods to minimize fiber release. The suspect materials were sampled using a knife or coring device to cut through the material's entire thickness, to ensure that a cross-section of the material had been obtained. The material was then placed in a labeled container, which was sealed and submitted to the laboratory for analysis.

All samples collected during this survey were submitted to Hygienetics Laboratory Services, Inc. (HLS) for analysis. HLS is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST); formerly the National Bureau of Standards, and a participant in the California Environmental Protection Agency (Cal/EPA) Environmental Laboratory Accreditation Program for asbestos analysis. All samples were analyzed by polarized light microscopy with dispersion staining (PLM/DS) in accordance with the United States Environmental Protection Agency (USEPA) Interim Method for bulk asbestos identification.

Hygienetics Environmental collected and analyzed a total of 48 bulk samples of materials suspected of containing asbestos (see Appendix A for analytical results). Based on analytical results, it was determined that the acoustic ceiling materials, all floor tile mastic and most floor tiles samples collected contained asbestos fibers. The enclosed table lists by the sample numbers, sample location, suspect materials and analytical results.

Page 2 Arcadis Geraghty & Miller Asbestos Investigative Report 3171 BundyDrive Los Angeles, California

Hygienetics Environmental Services, Inc

	31	ample Analysis Results 171 Bundy Drive Angeles, California		
Sample ID	# Location	Material	Asbestos %	P Area
B1-1	Throughout Hallways	12" Brown Floor Tile*	2%	6000 S.F.
B1-2	Throughout Hallways	12" Brown Floor Tile*	2%	6000 S.F.
B1-3	Throughout Hallways	12" Brown Floor Tile*	2%	6000 S.F.
B1-4	Under Tiles	Floor Tile Mastic	10%	6000 S.F.
B1-5	Under Tiles	Floor Tile Mastic	10%	6000 S.F.
B1-6	Labs	Blue Floor Tile	N.D.	6000 S.F.
B1-7	Under Tiles	Floor Tile Mastic	N.D.	6000 S.F.
B1-8	Labs	Blue Floor Tile	N.D.	6000 S.F.
B1-9	Under Tiles	Floor Tile Mastic	N.D.	6000 S.F.
B1-10	Labs	Blue Floor Tile	N.D.	6000 S.F.
B1-11	Under Tiles	Floor Tile Mastic	N.D.	6000 S.F.
B1-12	Environmental Testing	Blue sheet vinyl	N.D.	·
B1-13	Environmental Testing	Blue sheet vinyl	N.D.	
B1-14	Environmental Testing	Blue sheet vinyl	N.D.	
B1-15	Restrooms	Brown Sheet Vinyl	N.D.	
B1-16	Restrooms	Brown Sheet Vinyl	N.D.	
B1-17	Restrooms	Brown Sheet Vinyl	N.D.	
B1-18	Main Hallway	Drywall Muđ	N.D.	
B4-1	Restrooms	Brown Sheet Vinyl	N.D.	
B4-2	Restrooms	Brown Sheet Vinyl	N.D.	
B4-3	Restrooms	Brown Sheet Vinyl	N.D.	
B4-4	Stairwells	12" Brown Floor Tile	2%	800 S.F.
B4-5	Stairwells	12" Brown Floor Tile	2%	800 S.F.
B4-6	Stairwells	12" Brown Floor Tile	2%	800 S.F.
B4-7	Under Tiles	Floor Tile Mastic	20%	800 S.F.
B4-8	Under Tiles	Floor Tile Mastic	20%.	800 S.F.

Hygienetics Environmental

Page 3 Arcadis Geraghty & Miller Asbestos Investigative Report 3171 BundyDrive Los Angeles, California

		Нуд	ienetics Enviro	nmental Services
	31	mple Analysis Results 71 Bundy Drive Angeles, California		
Sample ID	# Location	Material	Asbestos	% Area
B4-9	Under Tiles	Floor Tile Mastic	20%	800 S.F.
B4-10	Steel Beams	Fireproofing	N.D.	
B4-11	Steel Beams	Fireproofing	N.D.	
B4-12	Steel Beams	Fireproofing	N.D.	
BB-1	Restrooms	Brown Sheet Vinyl	N.D.	
BB-2	Restrooms	Brown Sheet Vinyl	N.D.	
BB-3	Restrooms	Brown Sheet Vinyl	N.D.	
BB-4	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-5	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-6	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-7	Under Tiles	Floor Tile Mastic	5%	4000 S.F.
BB-8	Under Tiles	Floor Tile Mastic	5%.	4000 S.F.
BB-9	Under Tiles	Floor Tile Mastic	5%	4000 S.F.
BB-10	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-11	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-12	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-13	Throughout First Floor	Acoustic Ceiling	20%	7000 S.F.
BB-14	Throughout First Floor	Acoustic Ceiling	20%	7000 S.F.
BB-15	Throughout First Floor	Acoustic Ceiling	20%	7000 S.F.
BB-16	Penthouse	Pipe Elbows	10%	4 Ea.
BB-17	Penthouse	Pipe Elbows	10%	4 Ea.
BB-18	Penthouse	Pipe Elbows	10%	4 Ea.

N.D. – None Detected * Also found in Building #3

B1 – Building #1, B4 – Building #4, BB – Bundy Building

Bold type indicates samples that contain asbestos



Page 4 Arcadis Geraghty & Miller Asbestos Investigative Report 3171 BundyDrive Los Angeles, California

Hygienetics Environmental Services, Inc

The Federal Occupational Safety and Health Administration regulation (29 CFR 1910.1001) and California Occupational Safety and Health Administration regulation (CCR Title 8, Section 1529) define asbestoscontaining material (ACM) as those materials having an asbestos content of greater than one percent. Additionally, California Occupational Safety and Health Administration regulation (CCR Title 8, Section 1529) defines asbestos-containing construction material as those materials having an asbestos content of greater than one percent of greater than one tenth of one percent (>0.1%) by weight.

Conclusions

Prior to impact by renovation or demolition activities, asbestos-containing materials must be removed and disposed of in accordance with all applicable regulations by a licensed and registered asbestos abatement contractor utilizing engineering controls, trained personnel, and work methods that minimize potential fiber release. Hygienetics recommends that these activities are designed and monitored by a state certified asbestos consultant. Current estimated abatement cost for the removal of acoustic ceiling material is \$5.00/square feet (sf) and floor tile is \$2.00/sf. These cost do not include mobilization fees and consultant costs.

The roofing materials were not part of this inspection. Therefore, it must be presumed that the roofing felts and roof penetration mastic contain asbestos.

The friable acoustic ceiling material was in fair to good condition. However, during the inspection construction workers were knocking holes in the acoustic ceiling in the Bundy Building, to install a suspended ceiling. Acoustic ceiling debris was observed scattered throughout several areas on the first floor of the building. The floor tiles/mastic were generally in good condition. These materials can be effectively managed through an operations and maintenance (O&M) program.

Since the survey was not destructive in nature, Hygienetics recommends that additional destructive sampling (i.e. dismantling wall systems) be performed prior to demolition or extensive renovations that may impact materials not accessible during the survey.

Should building materials not sampled as part of this survey is encountered during demolition at this facility; we recommended that you contact Hygienetics Environmental at that time for consultation with regard to further testing, analysis and abatement recommendations.

Should you have any questions, or require additional information please do not hesitate to contact me.

Sincerely. Hygienetics Environmental Services, Inc.

Norbert E. Kramer Project Manager California Certified Asbestos Consultant - 92-0582

Enclosure \\SANTA_ANA\DATA\FILENEW\JOBS\ASBESTOS\4313\015\Report.doc



Page 5 Arcadis Geraghty & Miller Asbestos Investigative Report 3171 BundyDrive Los Angeles, California

Hygienetics Environmental Services, Inc

APPENDIX A

ASBESTOS ANALYTICAL RESULTS

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Appendix I

EST Soil Gas Report



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MAY 3 0 2001 ARCADIS Geraghty & Miller

May 29, 2001

EST1928

Mr. Reinhard Ruhmke ARCADIS Geraghty and Miller, Inc. 1400 N. Harbor Boulevard, Suite 700 Fullerton, California 92835-4127

Subject: Soil Gas Survey Report BAE Systems Facility 3171 South Bundy Drive Santa Monica, California

Dear Mr. Ruhmke

Environmental Support Technologies, Inc. (EST) is pleased to submit the results of the soil gas survey conducted at the BAE Systems facility located at 3171 South Bundy Drive in Santa Monica, California. On May 11 and 14, 2001, EST installed and sampled twenty six (26) 5-foot soil gas sampling probes. The soil gas samples were subsequently analyzed onsite for volatile organic compounds (VOCs) including halogenated and aromatic hydrocarbons. The soil gas survey was conducted in general accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

A summary of field analytical results for soil gas samples is provided in Table 1. Factors that may affect the distribution of VOCs in the subsurface are presented in Appendix A. Field analytical reports, quality assurance/quality control data, and reportable limits of quantitation for halogenated and aromatic hydrocarbons are provided in Appendix B. EST's standard methods and procedures for soil gas surveys are provided in Appendix C.

EST appreciates the opportunity to assist ARCADIS Geraghty and Miller, Inc. on this project. Should you have any questions or require additional information, please contact me at (949) 457-9664.

Sincerely,

Environmental Support Technologies, Inc.

Kein B. acall

Kevin B. Aardahl Project Manager

23276 Del Lago Drive • Laguna Hills, California 92653 • 949/457-9664 • Fax 949/457-0664

LIMITATIONS AND WARRANTIES

This letter report titled "Soil Gas Survey Report – BAE Systems Facility, 3171 South Bundy Drive, Santa Monica, California," has been prepared for the exclusive use of ARCADIS Geraghty and Miller, Inc. and assigned interested parties. The report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made. The information provided in this report is based on measurements performed in specific areas during a specific limited period of time.

Soil gas sample analysis is conducted using laboratory-grade gas chromatography equipment. Chemical compound identification is performed using quantitative methods. Chemical compound identities should be verified using gas chromatography/mass spectrometric analyses methods. Soil gas survey data should be used in conjunction with other site specific data.

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Kevin B. Aardahl Project Manager

KLA. Thomson

Kirk A. Thomson, RG, CHG, REA II Laboratory Director/Principal Hydrogeologist

May 29, 2001

TABLES

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Note: Values shown are the highest detected at each location within quantitation range.	ID = Not	detected; Sa	mple is belo	w the reporte	ed limit of qu	antitation.								
Note: Values shown are the highest detected at each location within quantitation range.														
				Note: V	/alues shows	n are the high	hest detected a	at each loca.	tion within gu	antitation re	ange.			

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APPENDICES

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Appendix A

FACTORS AFFECTING THE GAS-PHASE DISTRIBUTION OF VOCs IN THE SUBSURFACE

Soil and groundwater contamination by volatile organic compounds (VOCs) can often be detected by analyzing trace gases in soil just below ground surface. This technique is possible because many VOCs will volatilize and move by molecular diffusion away from source areas toward regions of lower concentrations. A gas phase concentration gradient from the source to adjacent areas is established.

The following factors affect the transport and gas phase distribution of VOCs in the subsurface.

- 1. The liquid-gas partitioning coefficient of the compounds of interest (the "volatility" of the compound).
- 2. The vapor diffusivity, which is a measure of how quickly an individual compound "spreads out" within a volume of gas.
- 3. Retardation of the individual compounds as they migrate in the soil gas. Retardation may be due to degradation, adsorption on the soil matrix, tortuosity of the soil profile, or entrapment in unconnected pores.
- 4. The presence of impeding layers, wetting fronts of freshwater, or perched water tables, between the regional water table and ground surface.
- 5. The presence of soil moisture around man-made structures such as clarifiers and sumps may suppress volatilization and diffusion of VOCs resulting in false negative or low soil gas concentrations.
- 6. The presence of contaminants from localized spills or in the ambient air.
- 7. Movement of soil gas in response to barometric pressure changes.
- 8. The preferential migration of gas through zones of greater permeability (e.g. natural lithologic variation or back-fill of underground utilities).
- 9. Soil temperature.

At most sites, many of these factors are unknown or poorly understood. Because of this uncertainty, soil gas sampling should be used in conjunction with other site-specific data.

Appendix B

FIELD ANALYTICAL RESULTS FOR HALOGENATED AND AROMATIC HYDROCARBONS

(INCLUDING CALIBRATION REPORTS, QUALITY CONTROL REPORTS, AND EXPLANATION OF REPORTABLE LIMTS OF QUANTITATION)

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TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

RT 3.78 4.13 4.65 4.98 5.43 5.68	ARF 6.92E+03 1.25E+04 1.24E+04 2.15E+04	SG1.5' S111/01 8:45 500 100 ND 1 0.00E+00 ND 0.00E+00 ND 0.00E+00 ND 0.00E+00 ND	SG1-5 5/11/01 9:05 5:00 2:00 ND 1 1 1 1 0:00E+00 ND 0.00E+00 ND	SG1-5 5/11/01 9:30 500 400 ND 1 1 1 1 st 0.00E+00 ND 0.00E+00	SG2-5' 5/11/01 9:51 500 200 ND 1 1 1 0.00E+00 ND	SG3-5' 5/11/01 10:15 500 200 ND 1 1 1 0.00E+00	SG4-5' 5/11/01 10:35 500 200 ND 1 1 1 0.00E+00	SG5-5' 5/11/01 10:54 500 200 ND 1 1	SG6-5 5/11/01 11:14 500 200 ND 1 1
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5.43	2.15E+04		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0,00E+00
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	ł	0.00E+00	1.24E+01	1.25E+01	1.11E+01	2.01E+01	4.69E+01	5.91E+01	8.10E+01
5.68	1.77E+04	ND<1	1.4	1.4	1.3	2.3	5.3	6.7	9.2
5.68		1.56E+01	9.46E+01	9.93E+01	1.07E+02	1.42E+02	2.93E+02	3.39E+02	5.19E+02
	2.43E+04	1.3	7,8	8.2	8,8	12	24	28	43
1	1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002+00
6.18	2.75E+04	ND	ND	ND	ND	ND	ND	ND	ND
		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 ND
6.53	2.49E+04	ND	NĎ	ND	ND	ND	ND	ND	
									0.00E+00 ND
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	0.005104								0.00E+00 ND<1
7.68	2.32E+04								0.00E+00
7.88	3 455+04								ND
1 7.00	3,432,104					-			8.57E+01
8.40	2 815+04								6.1
			· · · · · · · · · · · · · · · · · · ·					0.00E+00	0.00E+00
8.77	2.54E+04		ND	ND	ND	ND	ND	ND	ND
		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8,93	3.76E+04	NÐ	ND	ND	ND	ND	ND	ND	ND
	(0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8,85	3.59E+04	ND	ND	ND	ND	NÐ	ND	ND	DND
	1	1.41E+02	1.10E+02	1,14E+02	1.27E+02	1.26E+02	1,21E+02	1.19E+02	1.18E+02
	2.46E+04	115%	89%	93%	103%	102%	98%	97%	96%
	<u> </u>	0.00E+00	0.00E+00	0.00E+00	7.32E+00	0.00E+00	2.17E+01	2.15E+01	4.94E+01
9.73	3.39E+04	ND<1	ND<1	ND<1	ND<1	ND<1	1.3	1.3	2.9
	1	8.59E+01	7.56E+01	8.83E+01	7.84E+01	8.15E+01			7.95E+01
	1.68E+04	102%							95%
		1.36E+01							7.33E+03
11.60	3.56E+04								412
		}	=						0.00E+00
12.00	2.61E+04								ND
									1.58E+01
12.70	3.00E+04								1.1
									0.00E+00 ND
14.00	2.99E+04								
1									4.44E+02 30
14.00	3.00E+04								
1									1.69E+03 92
14.10	3.69E+04								
									2.23E+02 15
14.90	3.02E+04				0.00E+00	0.00E+00			
15.80	2.82E+04	0.00E+00	0.00E+00	• • • • • • • • • • • • • • • • • • •			0.00E+00	0.00E+00	0.00E+00
	6.98 7.68 7.88 8.40 8.77 8.93 8.85 9.73 11.60 12.00 12.00 12.70 14.00 14.00 14.10	6.98 2.65E+04 7.69 2.32E+04 7.68 3.45E+04 8.40 2.81E+04 8.77 2.54E+04 8.93 3.76E+04 8.85 3.59E+04 9.73 3.39E+04 1.68E+04 1.68E+04 12.00 2.61E+04 14.00 2.99E+04 14.00 3.60E+04	6.98 2.65E+04 0.00E+00 7.68 2.32E+04 ND 7.68 3.45E+04 ND 7.68 3.45E+04 ND 8.40 2.81E+04 ND 8.77 2.54E+04 ND 8.93 3.76E+04 ND 8.85 3.59E+04 ND 8.85 3.59E+04 ND 8.85 3.59E+04 ND 9.73 3.39E+04 ND 1.68E+04 102% 1.68E+04 102% 1.36E+01 1.36E+01 1.68E+04 ND 1.68E+04 ND 1.200 2.61E+04 ND 1.200 2.61E+04 ND 12.00 2.61E+04 ND 14.00 2.99E+04 ND<	6.98 2.65E+04 0.00E+00 0.00E+00 ND 0.00E+00 ND ND ND ND 7.68 2.32E+04 ND ND ND ND 7.68 3.45E+04 ND ND ND ND 8.40 2.81E+04 ND 1.3 0.00E+00 N.00E+00 8.40 2.81E+04 ND ND ND ND 8.77 2.54E+04 ND ND ND 8.77 2.54E+04 ND ND ND 8.77 2.54E+04 ND ND ND 8.85 3.59E+04 ND ND ND 8.85 3.59E+04 ND ND ND 9.73 3.39E+04 ND<1	6.98 2.65E+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 ND 7.68 2.32E+04 ND ND ND ND ND 7.68 3.45E+04 ND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.88 3.45E+04 ND 1.35E+01 1.53E+01 1.53E+01 8.40 2.81E+04 ND 1.3 1.1 1.1 8.40 2.81E+04 ND 1.3 1.1 8.77 2.54E+04 ND ND ND 8.77 2.54E+04 ND ND ND 8.85 3.59E+04 ND ND ND 8.85 3.59E+04 ND ND ND 9.33 3.76E+04 ND ND ND ND 9.33 3.76E+04 ND ND ND ND 9.33 3.76E+04 ND ND ND ND 1.41E+02 1.10E+02 1.14E+02 1.1	6.98 2.65E+04 ND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 ND 7.68 2.32E+04 ND 1 ND<1	6.98 2.65E+04 ND 0.00E+00 0.00E	6.98 2.65E+04 ND 0.00E+00 0.00E+00 0.00E+00 ND <	6.98 2.65E+04 0.00E+00 0.00E+00 ND ND<

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

µl = Microliter ml = Millifter in, H_q = Inches of Mercury ARF = Average response factor * = Exceeds quantitation range

NA = Not Analyzed

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TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCO #4										1928-4-051101
SAMPLE ID			SG6-5'	SG7-5'	SG8-5'	SG8-5'	\$G13-5	SG14-5	SG9-5'	SG10-5'
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			11:33	11:53	12:13	12:31	12:52	13:12	13:35	13:55
INJECTION VOLUME (µI)			100	100	500	200	250	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			5	5	1	2.5	2	1	1	1
REPORTABLE LIMIT (µg/L)			5	5	1	2.5	2	1	1	1
COMMENTS	· · · · · · · · · · · · · · · · · · ·									1
COMINENTS	RT	ARF								
······			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	3,78	6.92E+03	ND	ND	ND	ND	ND	ND	NO	ND
Dichlorodifluoromethane		0.022.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NF 4 41 41	4,13	1.25E+04	ND	ND	ND	ND	ND	ND	ND	ND
Vinyt chloride		1.232104		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.05	1.24E+04	0.00E+00 ND	ND	ND	ND	ND	ND	ND	ND
Chioroethane	4,65	1.24E+04					0.00E+00			0.00E+00
			0.00E+00	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0,00E+00
Trichlorofluoromethane	4.98	2.15E+04	ND							
			8.48E+00	0.00E+00	1.19E+01	6.64E+00	6.54E+00	1.27E+01	2.05E+01	8.45E+01
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<5	ND<5	1,3	ND<2.5	ND<2	1.4	2.3	10
	f I		7.17E+01	1.24E+01	2.18E+02	9.18E+01	6.42E+01	2.53E+02	1.46E+02	6.24E+02
1.1-Dichloroethene	5.68	2.43E+04	30	5.1	18	19	11	21	12	51
	_		0.00E+00	0.00E+00	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methylene chloride	6.18	2.75E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
trans-1_2-Dichloroethene	6.53	2.49E+04	ND	ND	ND	NĎ	ND	ND	NÐ	ND
			0.00E+00	0.00E+00	8.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E+00
1.1-Dichloroethane	6.98	2.65E+04	ND<5	ND	ND<1	ND	ND	ND	ND	ND<1
1,1-0,1110,000,1110			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cis-1,2-Dichloroethene	7.68	2.32E+04	ND<5	ND<5	ND<1	ND<2.5	ND<2	ND<1	ND<1	ND<1
CI3-1,2-Dicinior de Brene			0.00E+00	0.00E+00	0.00E+00	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	7,88	3.45E+04	ND	ND	ND	ND	ND	ND	ND	ND
		0.402.04	1.27E+01	0.00E+00	1,01E+02	3.93E+01	3.55E+01	9.46E+00	1.14E+01	2.41E+01
	6.40	2.81E+04	ND<5	ND<5	7.2	7.0	5.1	ND<1	ND<1	1.7
1,1,1-Trichloroethane	0.40	2.012104		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		2545.04	0.00E+00	0.00E+00 ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	8.77	2.54E+04	ND 0:00E+00	0.00€+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002+00	0.00€+00
		0.707.04			ND	ND	ND	ND	ND	ND
Benzene	8.93	3.76E+04	ND	ND						
			0.00E+00	0.00E+00	0.00E+00	0.00E+00 ND	0.00E+00 ND	0.00E+00	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	ND	ND	ND		· · · · · · · · · · · · · · · · · · ·	ND		
			1.28E+02	1,148+02	1.29E+02	1.25E+02	1.19E+02	1.16E+02	1.18E+02	1.21E+02
Fluorobenzene (Surrogate) (PID)		2.46E+04	104%	93%	105%	102%	97%	94%	96%	98%
			0.00E+00	0.00E+00	4.47E+01	1.22E+01	5.04E+00	3.79E+01	8.275+00	5.59E+01
Trichloroethene	9.73	3.39E+04	ND<5	ND<5	2.6	ND<2.5	ND<2	2.2	ND<1	3.3
			8.37E+01	8.49E+01	8.55E+01	8.08E+01	8.29E+01	8.162+01	8.63E+01	8.17E+01
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	100%	101%	102%	96%	99%	97%	103%	97%
			2.40E+03	0.00€+00	4.25E+03	1.87E+03	2.65E+02	1.65E+03	3.97E+02	1.17E+03
Toluene	11.60	3.56E+04	674	ND<5	239 •	263	30	93	22	66
· · · · · · · · · · · · · · · · · · ·			0.00E+00	0.00€+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane	12.00	2.61E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	1,57E+01	5.80E+00	6.46E+00	1.26E+01	0.00E+00	1.30E+01
Tetrachloroethene	12.70	3.00E+04	ND<5	ND<5	1	ND<2.5	ND<2	ND<1	ND<1	ND<1
I SE GENNEL GENERE			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1 1 1 7 Tetrachlometrose	14.00	2.99E+04	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	14.00	2.000-104	8.62E+01	0.002+00	1.75E+02	7.44E+01	1.34E+01	6.38E+01	1,61E+01	7.93E+01
	14.00	3.00E+04	8.62E+01 29	ND<5	12	12	ND<2	4.3	1.1	5.3
Ethylbenzene	14.00	3.00E+04		1			·······			3.49E+02
			3.29E+02	0.00€+00	6.42E+02	2.825+02	9.016+01	2.93E+02	6.90E+01	
meta- and para-Xytene	14,10	3.69E+04	89	ND<5	35	38	10	16	3.7	19
			4.86E+01	0.00E+00	9.49E+01	4.64E+01	0.00E+00	4.52E+01	9.38E+00	6.00E+01
ortho-Xylene	14.90	3.02E+04	16	ND<5	6.3	7.7	ND<2	3	ND<1	4
			0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	15.80	2.82E+04	ND	ND	ND	ND	ND	ND	ND	ND

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

pi = Microller mi = Millifer m, H_p = Inches of Mercury ARF = Average response factor * = Exceeds quantitation range NA = Not Analyzed

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4			6011 E	SG12-5'	SG15-5'	NA	NA	NA	NA	1928-4-05110 NA
SAMPLE ID			SG11-5' 5/11/01	5/11/01	5/11/01	NA	NA	NA	NA	NA NA
DATE			14:14	14:35	14:55	NA	NA	NA	NA	NA
TIME			500	500	500	NA	NA	NA	NA	NA
			200	200	200	NA	NA	NA	NA	NA NA
PURGE VOLUME (ml)			200	200 ND	ND	NA	NA	NA	NA	NA
VACUUM (in. Hg)				1	1	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)				· ·			<u> </u>	<u> </u>		100
COMMENTS	RT	ARF							1	
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
D'ables the second	3,78	6.92E+03	ND	ND	ND	NA	NA	NA	NA	NA
Dichlorodifluoromethane		0.022.00	0.00E+00	0,00E+00	0,00E+00	NA	NA	NA	NA	NA
	4,13	1.25E+04	ND	ND	ND	NA	NA	NA	NA	NA
Vinyl chloride		1.202.04	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
CU	4.65	1.24E+04	ND	ND	ND	NA	NA	NA	NA	NA
Chloroethane		1.246.04	0.00E+00	0.00E+00	0.002+00	NA	NA	NA	NA	NA
Trick I and Burger with a ma	4.98	2.15E+04	ND	ND	ND	NA	NA	NA	NA	NA
Trichlorofluoromethane	4.50	2.102104	4.81E+01	1.43E+02	2.73E+01	NA	NA	NA	NA	NA
	5,43	1.77E+04	4.81E+01 5,4	16	3,1	NA	NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane		1.172104	3.84E+02	1.12E+03	2.36E+02	NA	NA	NA	NA	NA
	5.68	2.43E+04	3.84E+02 32	92	19	NA	NA	NA	NA	NA
1,1-Dichloroethene	3,66	2.430.104	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
· · · · · · · · · · · · · · · · · · ·	6.18	2.75E+04	0.00E+00 ND	ND	ND	NA	NA	NA	NA	NA '
Methylene chloride	0.10	2.732-04		0.00E+00	0.00E+00	NA	NA	NA	NA	NA
		2.49E+04	0.00E+00 ND	ND	ND	NA	NA	NA	NA	NA
trans-1,2-Dichlomethene	6.53	2.495704			1.01E+01	NA	NA	NA	NA	NA
	6,98	2.65E+04	0.00E+00 ND	1,26E+01 ND<1	ND<1	NA	NA	NA	NA	NA
1,1-Dichloroethane	0,90	2.032704				NA	NA	NA	NA	NA
	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	2.38E+01 2.1	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	1.68	2.325704			0.00E+00	NA	NA	NA	NA	NA
	7.00	2 455.04	0.00E+00 ND	0.00E+00 ND	ND	NA	NA	NA	NA	NA
Chloroform	7.88	3.45E+04							NA	f
			5.65E+00	2.21E+01	1.81E+01 1.3	NA NA	NA NA	NA NA	NA	NA NA
1,1,1-Trichloroethane	8.40	2.81E+04	ND<1	1.6					NA	NA
		0.545.04	0.00E+00	0.00E+00	0.00E+00 ND	NA NA	NA NA	NA NA	NA	NA
Carbon tetrachloride	8.77	2.54E+04	ND	ND 0.00E+00	0.00E+00	NA	NA	NA	NA	NA
_		2705-04	0.00E+00 ND	ND	ND	NA	NA	NA	NA	NA
Benzene	8.93	3.76E+04		· · · · · · · · · · · · · · · · · · ·		NA	NA	NA	NA NA	NA
	0.05	3,59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA	NA	NA	NA	NA
1,2-Dichloroethane	8.85	5,592+04		1.08E+02	1.13E+02	NA	NA	NA	NA	NA
		7.455.04	1.17Ë+02 95%	88%	92%	NA	NA	NA	NA	NA
Fluorobenzene (Surrogate) (PID)		2.46E+04			1.60E+02	NA	NA	NA	NA	NA
	0.70	3 305+04	6.69E+01 3.9	2.35E+02 14	9,4	NA	NA	NA	NA	NA
Trichloroethene	9,73	3.39E+04		7.48E+01	7.71E+01	NA	NA	NA	NA	NA
		1.68E+04	7.78E+01 93%	7.48E+01 89%	92%	NA	NA NA	NA	NA	NA
cis-1,3-Dichloropropene (Surrogate)		1.002+04		6.08E+01	0.00E+00	NA	NA	NA	NA	NA
T-lu	11.60	3.56E+04	8.81E+02 49	6.06E+01 3,4	ND<1	NA	NA	NA	NA	NA
Toluene	11,60	3.30ET04	43 0.00E+00	0.00E+00	0.00E+00	NA	NA NA	NA	NA	NA
		2.61E+04	ND	ND	ND	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	12.00	2.010+04			1.10E+01	NA	NA	NA	NA	NA
	40.90	3.00E+04	0.00E+00 ND<1	2.02E+01 1.3	ND<1	NA	NA	NA	NA	NA
Tetrachloroethene	12.70	3.005404				NA	NA	NA	NA NA	NA
		0.005.01	0.00E+00 ND	0.00Ë+00 ND	0.00E+00 ND	NA NA	NA	NA NA	NA NA	NA
1,1,1,2-Tetrachioroethane	14.00	2.99E+04			0.00E+00	,	NA	NA	NA NA	NA
		3 005.04	3.93E+01	0.00E+00	0.00E+00	NA NA	NA	NA NA	NA NA	NA NA
Ethylbenzene	14.00	3,00E+04	2.6	ND<1			• • • • • • •			
			1.69E+02	1,50E+01	2.11E+01	NA NA	NA NA	NA NA	NA NA	NA NA
meta- and para-Xylene	14.10	3.69E+04	9.2	ND<1	1.1		1	ł		
			2.53E+01	0.00E+00	1,31E+01	NA	NA	NA	NA	NA
ortho-Xylene	14.90	3.02E+04	1.7	ND<1	ND<1	NA	NA	NA	NA	NA
	1		0.00E+00	0.00E+00	0.00€+00	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	ND	ND	ND	NA	NA	NA NA	NA	NA

Concentrations reported in micrograms per liter (µgA.)

ND = Not detected

ND< = Not detected above the reported limit of quantitation

RT = Retention time

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µl ≈ Microliter mt = Milliter in, H_g = Inches of Mercury ARF = Average response factor * = Exceeds quantitation range NA = Not Analyzed

REVIEWED BY Duy Mai

QUALITY ASSURANCE/QUALITY CONTROL REPORT SUBJECT SITE, CALIFORNIA

					SUBJE	CISTE	, CALIF	JKNIA							1078	-4-051101
PID/ELCD #4											May 11, 2001					
TARGET					January 8, 2001 CALIBRATION LCS					MID-POINT LAST RUN						
COMPOUNDS					CALIBRO					103			0-2010			
STANDARD CONC. (ug/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	Í
INJECTION VOLUME (µL)		0,50	1.00	2.90	0.50	1.25			1.00		500	1.00		500	0.20	1
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	D,010Q	0,0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17,4	31.5	65.7	147	372			33.4							
CF		6.95E+03	6.30E+03	6.57E+03	7.35E+03	7,44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4,13	31.1	60.3	136	260	568		-	61						0.00E+00	NA
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1.14E+04	1.25E+04	7	1.22E+04 63	-2	ND	9.00E+00	NA	ND	0,000+00	
Chloroethane	4.65	26.8	82.7		299	567	1.015.04	15	1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
CF		1.07E+04	1.25E+D4		1.50E+04	1.13E+04	1.24E+04	15	1.202+04			0.002400			0.002+00	
Trichlerefluoromethane	4,95	54.0	109	212	456 2.28E+04	1011 2.02E+04	2.15E+04	4	2.22E+04	3	ND	0.005+00	NA	ND	0.00E+00	NA
CF		2.16E+04	2,18E+04	2.12E+04 169	373	893	1.102-04	· · ·	92			87				[
1,1,2-Trichloro-triftuoroethane	5.43	43.9 1.76E+04	87.0 1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.848+04	4	ND	1.74E+04	-2	ND	0.00E+00	NA
CF	5,58	1,76E+04 84,7	1.742+04	241	485	1132	1,772.01		124			121		† –		t
1,1-Dichloroethene	5.65	04.7 2,59E+04	2.48E+04	2,41E+04	2.432+04	2.26E+04	Z.43E+04	5	2.48E+04	2	ND	2.42E+04	0	ND	0.00E+00	NA
	6.18	2.592404	146	269	556	1254			141					1		
Methylene chloride	0.10	2.85E+04	Z.92E+04	2.69E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
CF	6.53	67.5	132	244	493	1108			126			125				
trans-1,2-Dichloroethene CF	0.55	2.70E+04	2.84£+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.50E+04	0	ND	0.00E+00	NA
	6.98	76.6	138	259	511	1138			123			137	[1
1,1-Dichloroethane CF	0.50	3.06E+D4	2.765+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.74E+04	3	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7,68	56.4	117	233	480	1135			114			112				
CF	1.00	2.265+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.24E+04	-3	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF	1	3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3,45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8,40	74.7	144	277	563	1302			141			142				•
CF	1	2,99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2,64E+04	1	ND	0.00E+00	NA
Carbon tetrachioride	8,77	59.4	137	248	504	1288			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	NO	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			188		1	19Z				
CF]	4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	םא	3.84E+04	2	ND	0.00E+00	NA.
1,2-Dichloroethane	8.85	114	184	353	685	1383			179	ł		199				
CF		4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3,58E+04	0	ND.	3.98E+04	<u> </u>	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0	1				136		NA
CF	ļ	2.33E+04	2.62E+04	2.43E+04		ļ	2.46E+04	6	0.00E+00	NA.	ND	0.00E+00	NA	111	0.00E+00	- m
Trichloroetherie	9.73	101.0	173	333	637	1469			162		I	163			0.005.00	NA
CF	<u> </u>	4.04E+04	3.46E+04	3,33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.24E+04	4	ND	3.26E+04	-4	ND 78	0,00E+00	<u>↓</u>
cis-1,3-Dichloropropene (Surrogate)]	42.2	85	164	1			_	0	NA	ND	0.005+00	ND	93	0.00E+00	NA
CF	ļ	1.69E+04	1.72E+04	1.64E+04			1,68E+04	Z .	0.00E+00 175	- mn		162	- 10	30	0.002.00	
Toluene (PID)	11.6	95.9	188	332	689	1711	3.55E+04	6	3.50E+04	-2	ND	3.24E+04	-9	ND	D.00E+00	NA
CF	<u> </u>	3.84E+04	3.76E+04	3.32E+04	3,45E+04	3.42E+04 1278	3.300404	- `	137			129			5,000,00	
1,1,2-Trichloroethane	12.0	66.1	126 2.52E+04	260 2,60E+04	2.73E+04	12/5 2.55E+04	2.51E+04	3	2.74E+04	5	ND	2.58E+04	.1	ND	0.002+00	NA
CF	107	2.64E+04 A2.3	2.52E+04	2,60E+04	2.736+04	1380	2.012.04	<u> </u>	153	<u> </u>		155	<u> </u>			<u> </u>
Tetrachioroethene	12.7	82.3 3.29E+04	141 2.82E+04	3.03E+04	3.125+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	3,10E+04	3	ND	0.00E+00	NA
CF	14.0	3.292+04	2.522-404	3.032+04	627	1389		<u> </u>	160	T	1		· · · ·	<u> </u>	t	<u> </u>
1,1,1,2-Tetrachloroethane	1 14.0	3,09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.008+00	NA	ND	0.00E+00	NA
CF	14.0	3.092404	2.552.104	276	- 590	1535			148	1	1	154		1		
Ethylbenzene (PID)	1	3.11E+04	3.10E+04	Z.76E+04	Z.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	3.08E+04	3	ND	0.00E+00	NA
CF	14.1	187	3.102-04	711	1510	3634	1	1	372	<u> </u>		367				
meta-and para-Xylene (PID) CF	".'	3.74E+04	3.75E+04	3,56E+04	3.78E+04	3.63E+04	3.69E+04	3	3.72E+04	1	ND	3.67E+04	-1	ND	0.008+00	NA
	14.0	76.2	153	289	611	1515		1	147	1		138				
ortho-Xylene (PID) CF		3.05E+04	3.06E+04	2.89E+04	3.08E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	ND	2.72E+04	-10	ND	0.00E+00	NA
	15.8	68.8	143	276	590	1393	1		149		1					1
1,1,2,2-Tetrachioroethane CF	1	2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	з	2.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA
				к	f	A	<u>.</u>									

LCS = Laboratory Control Sample

ug/L, = Micrograms per Liter

uL = Microliters

ug = Microgram RT = Retention Time ARF = Average Response Factor %RSD = Percent Relative Standard Deviation RPD = Relative Percent Difference %REC = Percent Recovery

5000 mg/L 25 VOC STD :Lot #80060319 5000 mg/L 25 VOC LC\$:Lot #B0060322

CF = Calibration Factor ND = Not Detected NA = Not Applicable PID # Photo-ionization Detector 40000 mg/L 25 VOC STD :Lot # 80060319

ANALYST: Darren McNamee

REVIEWED BY, Duy Mai

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HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4							1	1	1	1928-4-05140
SAMPLE ID			SG16-5	SG17-5	SG18-5	SG19-5'	SG20-5	SG21-5'	SG22-5'	SG23-5
DATE			5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01
TIME			7:12	7:33	7:53	8:16	8:35	8:55	9:14	9:33
INJECTION VOLUME (III)			500	500	500	500	500	500	500 200	500 200
PURGE VOLUME (ml)			200	200	200	200	200	200	ND 200	 ND
VACUUM (in. Hg)			ND	ND	ND	ND	ND	4	1	1
DILUTION FACTOR			1	1	1	1	1		1	1
REPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	<u> </u>	- ' -
COMMENTS	RŢ	ARF			ļ				ļ	
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4,13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
			0.00E+00	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroethane	4,65	1.24E+04	ND	ND	ND	ND	ND	ND	NO	NĎ
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichlorofluoromethane	4.98	2,15E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	9.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.1.2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<1	ND<1	1.1	ND<1	ND<1	ND<1	ND<1	ND<1
ry rys - r refiter or a fillow of or a fillow			1.56E+01	0.00E+00	1.01E+02	1.82E+01	0.00E+00	0.00E+00	0.00E+00	1.79E+01
1,1-Dichloroethene	5.68	2.43E+04	1.3	ND<1	8.3	1.5	ND<1	ND<1	ND<1	1.5
I, I-Diciliorocolene			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methylene chloride	6.18	2.75E+04	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
trans 1 2 Dichloroethene	6.53	2,49E+04	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		A	0.00E+00	0.00E+00	5.10E+00	0.00E+00	0.000+00	0.00E+00	0.00E+00	0.00E+00
1 1 Dichiomethana	6.98	2.65E+04	ND	ND	ND-1	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.00	2.002.04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-i- 4 3 Disblaraathaac	7.68	2.32E+04	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	2.020704	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
011	7.88	3.45E+04	0.00E+00 ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	/.00	J.NJETVH	1.11E+01	+	1.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	8.40	2.81E+04	1.11E+01 ND<1	1.01E+01 ND<1	1.696+01	ND<1	ND<1	ND<1	ND<1	ND<1
1,1,1-Trichloroethane		2.012704		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		3645+04	0.00E+00 ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	8.77	2.54E+04		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0,002+00	0.00E+00	0.00E+00
_			0.00E+00	ND	ND	ND	ND	ND	ND	ND
Benzene	8.93	3.76E+04	ND			+	-			
			0.00E+00	0.00€+00	0.00E+00	0.00E+00	0.00E+00	0.000000	0.00E+00 ND	0.00E+00
1,2-Dichloroethane	8,85	3.59E+04	ND	ND	ND	ND	NO	ND		
			9.75E+01	1.09E+02	1,14E+02	1.14E+02	1.13E+02	1.18E+02	1.17E+02	1.19E+0
Fluorobenzene (Surrogate) (PID)		2.46E+04	79%	89%	93%	93%	92%	96%	95%	
			2.12E+01	0.00€+00	5.11E+01	0.00E+00	0.00E+00	0.005+00	0.00E+00	0.00E+00
Trichloroethene	9.73	3.39E+04	1.3	ND<1	3	ND<1	ND<1	ND<1	ND<1	ND<1
			7.83E+01	7.59E+01	7.73E+01	7.34E+01	7.27E+01	7.50 =+ 01	7.43E+01	8.25E+01
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	93%	90%	92%	87%	87%	89%	88%	98%
			0.00E+00	0.00E+00	2.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	11.60	3.56E+04	ND<1	ND<1	1.2	ND<1	ND<1	ND<1	ND<1	ND<1
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00€+00	0.00E+00	0.00E+00	0.002+00
1,1,2-Trichloroethane	12.00	2.61E+04	· ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	1,10E+01	0.00E+00	0.00E+00	0.00E+00	D.00E+00	0.00E+0
Tetrachloroethene	12.70	3.00E+04	ND<1	ND×1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	ND	ND	ND	ND	ND	ND	ND	ND
			0.00E+00	0.00E+00	0.00E+00	1.87E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylbenzene	14.00	3.00E+04	ND<1	ND<1	ND<1	1.2	ND<1	ND<1	ND<1	ND<1
	_		0.00E+00	0.00E+00	6,54E+01	1.01E+02	2.69E+01	1.06E+01	0.00E+00	0.00E+0
meta- and para-Xylene	14.10	3.69E+04	ND<1	ND<1	3.5	5.5	1.5	ND<1	ND<1	ND<1
			0.00E+00	0.00E+00	3.08E+01	2.16E+01	0.00E+00	0.00E+00	0.00€+00	0.00E+0
ortho-Xylene	14.90	3.02E+04	ND<1	ND<1	2	1.4	ND<1	ND<1	ND<1	ND<1
			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	ND	ND	ND	ND	ND	ND	ND	ND
			•							
Concentrations reported in micrograms per liter (up	5/L)				ł = Microliter			-	response factor	
				~	ol = Milliter			* = Exceeds rain	entitation mone	

ND = Not detected

()

ND < = Not detected above the reported limit of quantitation

RT = Retention time

mi = Milliter in, H_p = inches of Mercury ARF = Average response factor * = Exceeds quantitation range NA = Not Analyzed

HALOGENATED AND AROMATIC HYDROCARBONS FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA 25-TARGET COMPOUND LIST

PID/ELCD #4			SG24-5	SG25-5'	SG26-5'	NA	NA	NA	NA	NA
SAMPLE ID			5/14/01	5/14/01	5/14/01	NA	NA	NA	NA	NA
DATE			9:53	10:12	10:31	NA	NA	NA	NA	NA
TIME INJECTION VOLUME (µ)			500	500	500	NA	NA	NA	NA	NA
			200	200	200	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			ND	ND	ND	NA	NA	NA	NA	NA
VACUUM (in. Hg)			1	1	1	NA	NA	NA	NA	NA
DILUTION FACTOR			1	<u> </u>	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			•		<u>↓</u> ·		102	11/4		
COMMENTS	RT	ARF				1				
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Dichlorodifluoromethane	3.78	6.92E+03	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Vinyl chloride	4.13	1.25E+04	ND 0.00E+00	ND 0.00E+00	0.00E+00	NA	NA NA	NA	NA	NA
Chloroethane	4,65	1.24E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Trichlorofluoromethane	4.98	2.15E+04	ND	ND	ND	NA	NA	NA	NA	NA
	-		0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
			0.00E+00	0.002+00	0.00E+00	NA	NA	NA	NA	NA
1,1-Dichloroethene	5.68	2.43E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
· ·			0.00E+00	0.002+00	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Methylene chloride	6,18	2.75E+04	ND	ND	0.00E+00	NA	NA	NA	NA NA	NA NA
	6 6 7	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	6.53	2.495+04	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1-Dichloroethane	6.98	2.65E+04	ND	ND	ND	NA	NA	NA	NA	NA
	-		0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7.68	2.32E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chloroform	7.88	3.45E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	8.40	2.81E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
	· ·		0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Carbon tetrachloride	8.77	2.54E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Benzene	8.93	3.76E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA NA	NA NA	NA . NA	NA NA
1,2-Dichloroethane	8.85	3.59E+04	ND	ND	ND	NA	+		·····	NA NA
		D 405.04	1.19E+02	1.25E+02	1.17E+02	NA	NA	NA NA	NA NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	97%	102%	95%	NA	NA NA		1	
Y =? = b = = = = ab = = = =	9.73	3.39E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA	NA NA	NA NA	NA NA
Trichloroethene	9.13	3.335704	7.61E+01	7.93E+01	7.46E+01	NA	NA	NA	NA	NA
sis 4.2 Disblasses and (Sumgesta)		1.68E+04	7.61≝+01 91%	94%	89%	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene (Surrogate)		1.002-04	0.00€+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Toluene	11.60	3.56E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
Toldelle		0.002 01	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	12.00	2,61E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Tetrachloroethene	12.70	3.00E+04	ND<1	ND<1	ND<1	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	ND	ND	ND	NA	NA	NA	NA	NA
			0.00E+00	2.41E+01	0.00E+00	NA	NA	'NA	NA	NA
Ethylbenzene	14.00	3.00E+04	ND<1	1.6	ND<1	NA	NA	NA	NA	NA
			0.00E+00	1.22E+02	8.69E+00	NA	NA	NA	NA	NA
meta- and para-Xylene	14.10	3.69E+04	ND<1	6.6	ND<1	NA	NA	NA	NA	NA
······································			0,00E+00	3.54E+01	0.00E+00	NA	NA	NA	NA	NA
ortho-Xylene	14,90	3.02E+04	ND<1	2.3	ND<1	NA	NA	NA	NA	NA
			0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	NÐ	ND	ND	NA	NA	NA	NA	NA

Concentrations reported in micrograms per liter (µg/L)

ND = Not detected

 \langle

ND< = Not detected above the reported limit of quantitation

RT = Retension time

pi = Microliter ml = Milliter in. H_g = Inches of Mercury ARF = Average response factor * = Exceeds quantitation range NA = Not Analyzed

ANALYST: Darren McNamee

QUALITY ASSURANCE/QUALITY CONTROL REPORT SUBJECT SITE, CALIFORNIA

					2001	201 311		UNNA							1928	-4-05140
TARGET						January 8	, 2001						ħ	lay 14, 20		
COMPOUNDS			11	ITIAL CA	LIBRATIC	N				LCS		M	D-POIN	1T	LAST R	UN
STANDARD CONC. (ug/L)	ł	5000	5000	5000	40000	40000			5000		BLANK	5000	}	BLANK	5000	
INJECTION VOLUME (µL)		0.50	1.00	2.00	0.50	1.25	ļ		1,00		500	1.00		500	0.20	
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD	L	0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17,4	31.5	65.7	147	372			33.4		1	1				
CF		6.96E+03	6.30E+03	6,57E+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31,1	60.3	· 136	260	568	1		61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1,14E+04	1.25E+04	7	1.22E+04	•2	NÐ	0.00E+00	NA	ND	0.00E+00	NA
Chloroethane	4.65	26.8	62.7		299	567			63	2		0.005.00	NA	ND	0.005.00	NA
CF		1.07E+04	1.25E+04	212	1.50E+04 455	1.13E+04 1011	1.24E+04	15	1.26E+04 111	- 2	ND	0.00E+00			0.00E+00	- NA
Trichlorofluoromethane	4.98	54.0 2.16E+04	109 2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	4	2.225+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
CF 1.1.2-Trichloro-trifluoro-thane	5,43	43.9	87.0	169	373	893			92			83				
CF	5.45	1.76E+04	1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.84E+04	. 4	ND	1.66E+04	-6	ND	0.00€+0Q	NA
1,1-Dichloroethene	5,68	64.7	124	241	485	1132			124			110	[
CF	1	2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	z	ND	2.20E+04	-9	ND	0.002+00	NA
Methylene chloride	6.18	71,3	146	269	556	1264	ľ.		141				[
CF	1	2.85E+04	2.928+04	2.69E+04	2.78€+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67,5	132	244	493	1105			125			116				
CF	L	2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.36E+04	-3	ND	0.00E+00	NA
1,1-Dichloroethane	6,98	78.6	138	259	511	1138		}	123	_		130				
CF	ļ	3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.85E+04	11	2.46E+04	-7	ND	2.60E+04	-2	ON ON	0.00€+00	NA
cis+1,2+Dichloroethene	7.68	56.4	117	233	480	1135	2.32E+04		114	_		105			0.005.00	
CF	<u> </u>	2.26E+04	2.34E+04	2.33E+04 341	2.40E+04 673	2.27E+04 1523	Z,32E+04	2	2.28E+04 174	-2	ND	2.10E+04	-9	ND	0.00E+00	NA
Chloroform	7.88	94.8 3,79E+04	181 3.62E+04	3,41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.005+00	NA
CF 1,1,1-Trichloroethane	8,40	74.7	144	277	563	1302	0.102.01	- <u>-</u> -	141			131				
CF		2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.62E+04	-7	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1288			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			155			172				_
CF		4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	ND	3.44E+04	-9	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	114	184	353	685	1383			179			170				
CF	ļ	4.56E+04	3.68E+04	3,53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.40E+04	-5	ND	0.00E+D0	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					115		
CF		2.33E+04	2.62E+04	2.43E+04	. 637	4460	2.46E+04	6	0.00E+00 162	NA	ND	0.002+00	NA.	93%	0.00E+00	NA
Trichloroethene	9.73	101,0	173 3.46E+04	333 3.33E+04	0.37 3.19E+04	1469 2.94E+04	3.39E+04	12	3.245+04	-4	ND	168 3.36E+04	-1	ND	0.00E+00	NA
CF		4,04E+04 42.2	88	164	3.386404	4.416101	0.002.04		Dianaita		,	9.00L104		75	0.002.000	
cis-1,3-Dichioropropene (Surrogate) CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0,005+00	NA	89%	0.00E+00	NA
Toluene (PID)	11,6	95.9	188	332	689	1711		- <u>-</u>	175			165				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.58E+04	6	3,50E+04	-2	ND	3.30E+04	.7	ND	0.00£+00	NA
1,1,2-Trichloroethane	12.0	68.1	128	260	546	1276			137			113				
CF		2.84E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.81E+04	3	2.74E+04	5	ND	2.26E+04	-13	ND	0.00E+00	NA
Tetrachioruethene	\$2.7	82.3	141	303	524	1380	1		153			133				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3,00E+04	7	3.06E+04	2	ND	2.66E+04	-11	ND	0.00E+00	NA
1,1,1,2-Tetrachloroethane	14.0	77.3	144	306	627	1389			160							
CF	<u> </u>	3,09E+04	2.88E+04	3.062+04	3,146+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535		5	148			143			D.005-00	1 11
ĊF	1	3.11E+04		2.76E+04	2.95E+04	3.07E+04 3634	3.002+04		2.96E+04 372	-1	ND	2.86E+04 349	-5	ND	0.00E+00	NA
meta-and para-Xylene (PID)	14.1	187	375	711 3,56E+04	1510 3.78E+04	3634 3.63E+04	3.69E+04	3	3/2 3.72E+04	1	ND	3.49E+04	-5	ND	0.00E+00	NA
CF	14.9	3.74E+04 78.2	3.75E+04 153	3,506+04	3.78E+04 611	1515	0.002704		147	···		149			0.002100	
ortho-Xylene (PID) CF	14.9	3.05E+04	3.06E+04	2.89E+04	3.062+04	3.03E+04	3.02E+04	2	2,94E+04	-3	ND	2.98E+04	-1	ND	0.00E+00	NA
1,1,2,2-Tetrachioroethane	15.8	68.8	143	276	590	1393	~		149	·						
CF		2.75E+04			2.95E+04	2.79E+04	2.82E+04	3	Z.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA
			·		.								I	.		
LCS = Laboratory Control Sample				ARF = Ave	rage Respor	ise Factor						CF = Calibr	ation Fac	tor		
ug/L = Micrograms per Liter						re Standard	Deviation					ND = Not D	etected			
uL = Microiters				RPD = Rek	tive Percent	Difference						NA = Not A	pplicable			
				VREC - R	read Bacay							PID + Photo	- ionizativ	no Detector		

%REC = Percent Recovery

5000 mg/L 25 VOC STD :Lot #B0060319

\$800 mg/L 25 VOC LCS :Lot #80060322

ug = Microgram

1

()

RT -Retention Time

ANALYST: Darren McNamee

REVIEWED BY, Duy Mai

PID = Photo-ionization Detector

40000 mg/L 25 VOC STD :Lot # 80050319

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC. SOIL GAS SURVEYS

REPORTABLE LIMITS OF QUANTITATION FOR HALOGENATED AND AROMATIC HYDROCARBONS

The Reportable Limit of Quantitation for Halogenated and Aromatic Hydrocarbons is 1 μg/L when the injection volume is 500 μL. Reportable limits for lesser injection volumes are listed below.

Injection	Reportable
Volume (μL)	Limit (µg/L)
500	1.0
250	2.0
200	2.5
100	5.0
80	6.3
60	8.3
50	10.0
40	12.5
20	25.0
10	50.0
5	100.0
1	500.0
5 1	

Appendix C

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

SOIL GAS SURVEYING

STANDARD METHODS AND PROCEDURES FOR INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC. 23276 Del Lago Drive Laguna Hills, California 92653 (949) 457-9664 Fax (949) 457-0664

2001

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

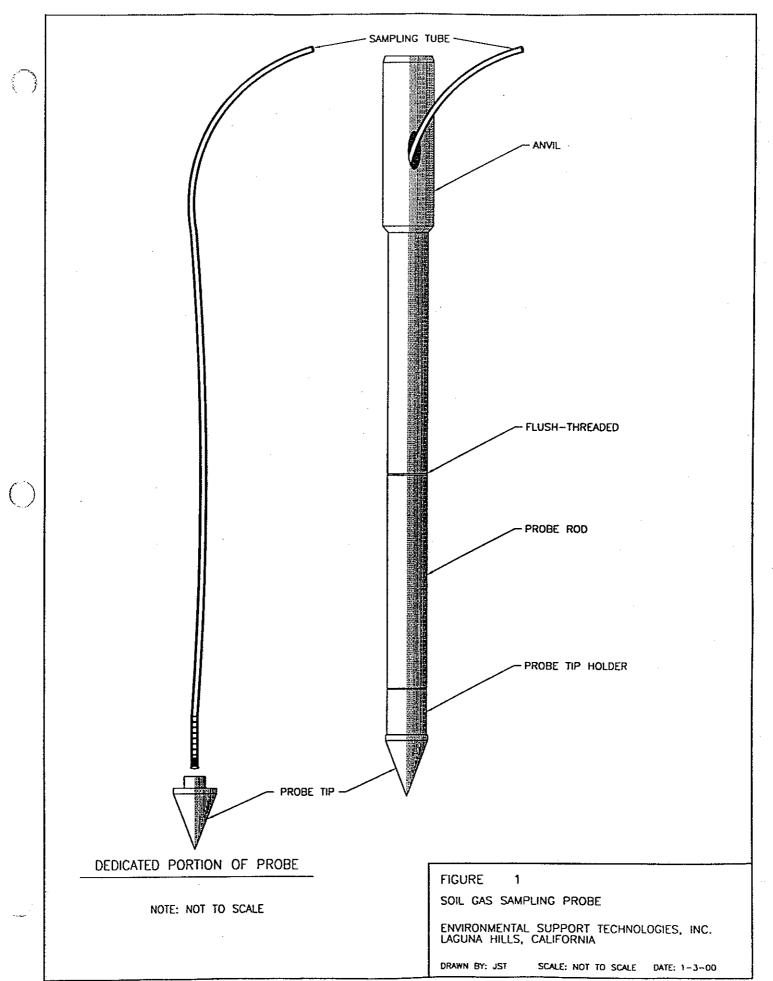
This section describes EST's standard methods and procedures for conducting soil gas surveys. Procedures may be modified based on evaluation of specific project needs. EST will perform soil gas surveys in general accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

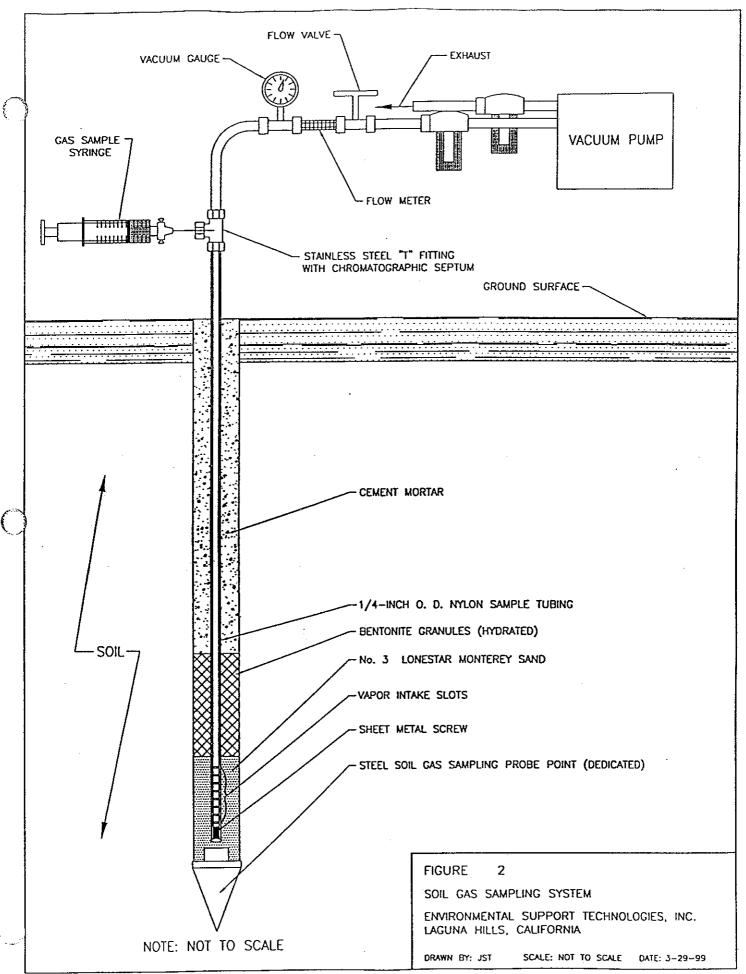
INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

Soil gas sampling probes will be installed using either a percussion hammer or hydraulic ram. Once a probe is installed to the desired depth, the 1.25-inch diameter hollow probe drive-rods are withdrawn, leaving a steel probe point and NylaflowTM sampling tube in the subsurface. Clean, graded (No. 3), kiln dried, Lonestar Monterey sand will be poured around the perforated section of NylaflowTM sample tubing to allow for diffusion of soil vapors. Approximately 6-inches of granular bentonite will be added above the sand pack and hydrated. The remaining annulus will be filled with cement mortar/bentonite grout to slightly below grade. Construction details of a typical soil gas sampling probe are shown in Figure 1.

Soil gas samples will be collected from the driven probes using the soil gas sampling system as shown in Figure 2. The soil gas sampling system is constructed of stainless steel, glass, NylaflowTM, and TeflonTM components. Instrumentation associated with the sampling system includes a calibrated flow meter and vacuum gauge. Vacuum integrity of the sampling system will be tested prior to, and after the soil gas survey using leak-down testing methods. Site-specific probe purging and sample volume calibrations will be initially performed to evaluate the appropriate volume of gas to be purged from each probe prior to sample collection. This will be done by performing time-series sampling of at least one probe to evaluate trends in soil gas concentrations as a function of purge volume. After probe purging, soil gas samples will be withdrawn from the moving sample stream using a glass syringe fitted with a disposable needle and MininertTM gas-tight valve. Soil gas samples will be analyzed, immediately following collection, by direct gas injection into a laboratory-grade, field-operable gas chromatograph (GC).

When soil gas sampling is completed, the NylaflowTM tubing can either be removed or can remain in-place for subsequent sampling. If the abandonment method requires tube removal, the sample tubing will be removed and the remaining void will be filled with a fluid bentonite slurry until slightly below grade. The remaining depression will be filled with concrete patch material and finished flush with grade. If it is desired to leave the tubing in-place, the NylaflowTM sample tubing will be plugged with a sheet metal screw, folded over, and pushed down-hole until slightly below grade. The remaining depression will be filled with concrete mortar and finished flush with grade. The probe point and sample tubing will remain as a long-term soil gas monitoring point, unless otherwise specified by the client prior to entering the field.





SAMPLE ANALYSIS OF HALOGENATED AND AROMATIC HYDROCARBONS

Soil gas samples will be analyzed in the field using a field-operable GC equipped with a photoionization detector (PID) and an electrolytic conductivity detector (ELCD). The PID and ELCD will be configured in-series to analyze for twenty-five (25) target compounds (halogenated and aromatic hydrocarbons) as specified in the LARWQCB requirements (February 25, 1997).

Detection limits for the LARWQCB target compounds will be no more than one microgram per liter (μ g/L) of gas except when compound concentrations exceed the initial calibration range. When this occurs, the sample must be diluted (smaller sample injection volume), which results in raised detection limits for the analysis.

Soil gas samples may be analyzed for other constituents on a site-specific basis. A series of quality assurance/quality control (QA/QC) analyses will be performed prior to, during, and following the analysis of soil gas samples. A summary of these QA/QC analyses is shown in Table 1 and each are described below.

SURROGATE COMPOUNDS

Two (2) surrogate compounds will be added to all analyzed samples. Surrogate compound concentrations will be within the calibration range. The percent recovery of the surrogate compounds will be calculated and reported with soil gas sample results. The acceptance goal for surrogate recovery is ± 25 percent difference from the true concentration of the surrogate compounds. Surrogate compounds added to each sample analysis run will include Fluorobenzene (PID) and cis-1, 3-Dichloropropene (PID and ELCD), each at a true concentration of 5,000 µg/L.

INITIAL MULTI-POINT EQUIPMENT CALIBRATION

The GC used for soil gas analysis will be calibrated using high-purity solvent-based standards obtained from certified vendors. Standards are typically prepared in high-purity methanol or dodecane solvent. Calibration using solvent-based standards will typically be performed using varying injection volumes of the stock solvent-based standard without dilution. If necessary, stock solvent-based standards will be diluted to an appropriate concentration. Diluted standards will be prepared by introducing a known volume of stock solvent-based standard into a known volume of high-purity solvent.

Initial GC calibration will be performed for EPA Method 8021 compounds. The GC will be calibrated using varying standard injections to establish a multi-point calibration curve. The lowest standard will not be higher than five times the method detection limit (5 μg/L). The percent relative standard deviation (%RSD) of the response factor (RF) for each target compound will not exceed 20 percent except for Trichlorofluoromethane (FreonTM-11), Dichlorodifluoromethane (FreonTM-12), Trichlorotrifluoroethane (FreonTM -113), Chloroethane (CE), and Vinyl Chloride (VC) which will not exceed 30% RSD. Identification and quantitation of compounds in the field will be based on calibration under the same analytical conditions as for multi-point calibration.

TABLE 1

SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ANALYSES FOR SOIL GAS SURVEYS

File: SGSQAQCt1

CALIBRATION AND LABORATORY CONTROL SAMPLES

		PRECISION
DESCRIPTION	FREQUENCY	GOAL
NITIAL MULTI-POINT CALIBRATION (25 Target Compounds)	At the beginning of the soil gas survey, unless the RPDs of the initial laboratory check sample or daily mid-point calibration check samples exceed their goals.	20, 30 %RSD (1)
INITIAL LABORATORY CONTROL SAMPLE (LCS) (25 Target Compounds)	At the beginning of the survey, following the initial multi- point calibration.	±15, ±25 RPD (2)
DAILY MID-POINT CALIBRATION CHECK (12 Target Compounds)	At the beginning of each day (unless an initial multi-point calibration was performed).	±15, ±25 RPD (3)
LAST GC TEST RUN	At the end of the day if all samples from that day of analysis show non-detect (ND) results.	At least 50 % recovery (4)
	FIELD CONTROL SAMPLES	
DESCRIPTION	FREQUENCY	PRECISION

DESCRIPTION	FREQUENCY	PRECISION GOAL
BACKGROUND SAMPLE (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery of surrogate compounds
SYRINGE BLANK (5)	Minimum one per day.	 <1 μg/L of target compounds and 75 to 100 percent recovery of surrogate compounds

%RSD = Percent Relative Standard Deviation calculated based on the initial multi-point calibration.

RPD = Relative Percent Difference between the response factor obtained from the LCS, the daily mid-point calibration, and the average response factor initially calculated based on the multi-point calibration.

µg/L = Micrograms per liter

- (1) The %RSD goal for the initial multi-point calibration will be 20 percent for all compounds except for Dichlorodifluoromethane (Freon[™]-11), Vinyl Chloride (VC), Chloroethane (CE), Trichlorofluoromethane (Freon[™]-12), and 1,1,2-Trichloro-Trifluoroethane (Freon[™]-113) for which the %RSD goal is 30 percent.
- (2) The RPD goal for the initial laboratory control standard will be ±15 percent for all compounds except for Freon[™]-11, Vinyl Chloride, Chloroethane, Freon[™]-12, Freon[™]-113 for which the RPD goal is ±25 percent.
- (3) The RPD goal for the daily mid-point calibration check will be ±15 percent for all compounds except for Freon[™]-11, Vinyl Chloride, Chloroethane, Freon[™]-12, Freon[™]-113 for which the RPD goal is ±25 percent.
- (4) A LCS at the detection limit concentration is analyzed. The recovery for each compound must be at least 50 percent.
- (5) A syringe/background sample will be analyzed using ambient air. If volatile organic compounds (VOCs) are not detected, the ambient air sample will represent the background sample and syringe blank. If VOCs are detected in the ambient air sample, a syringe blank will be analyzed using ultra-high-purity helium or nitrogen gas.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) from a source other than the initial calibration standard will be used to verify the true concentration of the initial calibration standard. The LCS will include the LARWQCB target compounds and the RF for each compound will be within ± 15 percent difference from the initial calibration.

DAILY MID-POINT CALIBRATION CHECK

Daily field calibration of the GC will consist of a mid-point calibration analysis using the same standard as used for the initial multi-point calibration. The daily mid-point calibration check will include the 12 target compounds as specified in the previously referenced LARWQCB requirements. The RF of each compound (except for Freon[™]-11, -12, and -113, CE, and VC) will be within 15 percent difference of the average RF from the initial calibration. The RF for Freon[™]-11, -12, and -113, CE, and VC will be within 25 percent difference of the initial calibration. If these criteria are not met, the GC will be re-calibrated.

Daily calibration will be performed prior to the first sample analysis of the day. One-point calibration will be performed for all compounds detected at a particular site to ensure accurate quantitation. Subsequent calibration episodes, if deemed necessary, will consist of at least one injection of the standard exhibiting a similar detector response as that of samples encountered in the field.

END OF DAY GC TEST RUN

A LCS will be analyzed at the end of the day should soil gas samples not contain detectable concentrations of halogenated or aromatic hydrocarbons. The LCS will contain the same compounds as the daily mid-point calibration standard (minimum 12 compounds). The LCS will be from a second source independent from the initial multipoint calibration standard. The RF for each compound will be within 20 percent difference of the average RF for the initial calibration. If these criteria are not met, an additional LCS will be analyzed to satisfy these criteria.

BLANK INJECTIONS

The syringes used for soil gas sample collection will be filled with ambient air or highpurity carrier-grade gas from a compressed gas cylinder. The ambient air or high-purity gas will be injected directly into the GC. The blank injection will serve to detect contamination of the syringe to be used for sampling and verify the effectiveness of equipment decontamination procedures.

DECONTAMINATION PROCEDURES

Probes and equipment in contact with the soil gas sample stream will be decontaminated prior to initiation of sampling. Decontamination of soil gas sampling equipment will be conducted by repeated washing and/or by baking in the gas chromatograph oven. Washing will include the use of a phosphate-free detergent wash, tap water rinse, and organic-free water rinse. The equipment will be allowed to air-dry following final rinsing.

SHORTENING THE GC RUN TIME

Shortening the GC run time is acceptable only if the chemist feels that doing so will not sacrifice the quality of data obtained. If this is recommended by the chemist, appropriate client and agency approval will be obtained prior to initiating such change.

REPORTING OF SAMPLE RESULTS AND QA/QC INFORMATION

Reporting of sample results and QA/QC information will be performed in accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

SOIL GAS SURVEY REPORTS

Following completion of a soil gas survey, Environmental Support Technologies, Inc. will prepare a Soil Gas Survey Report. Typically, this report will include:

- Soil gas concentrations in tabular form;
- Laboratory analytical data and Quality Assurance/Quality Control data.
- A description of EST's standard sampling and analysis methods used for soil gas surveying.

November 21, 2001

Santa Monica College 1900 Pico Boulevard Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: Review of Environmental Documentation BAE Systems – 3171 South Bundy Drive Los Angeles, California

SA210-001

Dear Dr. Donner:

As you requested, West Coast Environmental and Engineering (WCE) is providing this letter report to detail our findings and opinions from the review of available documentation regarding environmental conditions at the BAE Systems facility in Los Angeles, California. The BAE Systems facility sits astride the boundary between the City of Los Angeles and the City of Santa Monica. WCE understands from conversations with BAE Systems personnel that only the portion of the facility situated wholly within the City of Los Angeles is part of the potential real estate transaction with Santa Monica College. Therefore, facility operations located on the City of Santa Monica portion of the facility were reviewed only with regard to potential impacts to the property subject to the real estate transaction with Santa Monica College.

The purpose of our review was to provide an independent evaluation of environmental conditions that may exist at the facility in consideration of potential impacts on Santa Monica College's proposed redevelopment of the site, and potential long-term liability from previous site usage. File materials made available during a site visit on November 19, 2001 were reviewed, which included the following documents:

- Arcadis Geraghty and Miller, June 2001; <u>Phase I/Phase II Environmental Site</u> <u>Assessment, BAE Systems, 3171 South Bundy Drive, City of Los Angeles, California</u> (AGM-June 2001).
- Leroy Crandall and Associates, February 27, 1980; <u>Report of Foundation Investigation</u>, <u>Proposed Headquarters Building and Warehouse Addition</u>, <u>Bundy Drive South of Airport</u> <u>Avenue</u>, Los Angeles, California for Lear Siegler, Inc (Leroy Crandall –February, 1980).
- Miscellaneous permits for wastewater discharge, environmental compliance documents including SB-14 reports (hazardous waste reduction) for the years 1991 and 1994, and facility layout plans. These materials were available in seven file cabinets in a room provided for the purpose of due diligence review.

During the site visit on November 19, 2001, facility operations were observed on a tour guided

sa210-BAE Systems_letter

by Mr. Jim Bright of BAE Systems and both Mr. Bright and Mr. Richard Spalding were available to answers questions regarding the facility and its operations. Mr. Bright and Mr. Spalding are long-term employees of the facility, who are knowledgeable of facility operations and environmental compliance issues. Our review was performed on a rush basis to accommodate project scheduling and copies of pertinent documentation requested from BAE Systems are as yet unavailable for extended and detailed review. The requested documents are expected to be available by November 26, 2001.

WCE has the following preliminary comments based on the observations of our site tour, conversations with Mr. Bright and Mr. Spalding, limited review of documents provided during our site visit, and our knowledge of regional environmental conditions and regulations:

- 1. The BAE Systems facility overlies the Santa Monica Groundwater Basin (SMGB), which along with the Charnock Sub-Basin provides up to 40% of the municipal water supply for the City of Santa Monica. Although AGM-June 2001 report that no public supply wells are located within a mile of the facility, the SMGB contains significant groundwater resources that must be protected from contamination. The assessment reported in AGM-June 2001 did not sample groundwater.
- 2. The facility has a long-term history (since approximately 1956) of contact wastewater discharge to the City of Los Angeles sewer system through two multi-staged clarifiers (only one is currently active), that at various times has likely been exposed to volatile organic compounds (VOCs) and heavy metals including lead and hexavalent chromium from processes within the facility. The wastewater from the facility is typically acidic and a post-treatment discharge limit for pH of 4.5 is imposed on discharge to the city sewer. The clarifier is constructed of concrete and the drain lines feeding the clarifiers, which underlie the interior slab of the facility, are assumed to be cast iron. Each of these materials would be expected to corrode under long-term contact with acidic wastewater.

3. The results of soil and soil gas sampling reported in AGM-June 2001indicate that a release of process wastewater has occurred in the vicinity of the active clarifier at the rear of Building I. Although the concentrations of VOCs and heavy metals, including hexavalent chromium, reported are low and generally below regulatory guidance levels, observations of the sampling locations during the site tour noted that the sampling locations were offset from the clarifier, and not sufficiently close to the clarifier to be certain that the results are representative of underlying conditions. Efforts to drill near the clarifier from the building interior were reportedly refused due to the resistance of the interior slab.

Based on the limited review performed and the observations detailed above, WCE recommends additional evaluation of groundwater conditions underlying the facility, including groundwater sampling. The facility has a long-term history of process discharge that is similar in nature to processes believed responsible in part (leaking clarifiers) for contamination of the San Fernando and San Gabriel Groundwater Basins, which are currently undergoing Superfund cleanup for VOCs. The SMGB is a significant groundwater resource and discovery of VOCs or heavy metals in groundwater in the vicinity of the facility could result in a search for potentially responsible parties that could ultimately result in liability to the property owner. Furthermore, it should be anticipated that low pH soils impacted by heavy metals and VOCs may be

sa210-BAE Systems letter

encountered during site demolition and grading that may require special handling. If such soils are encountered, special handling requirements could have significant impacts on project budgets.

Thank you for this opportunity to be of service. Please do not hesitate to contact me at (805) 644-7976 if you have any questions or need more information regarding this report.

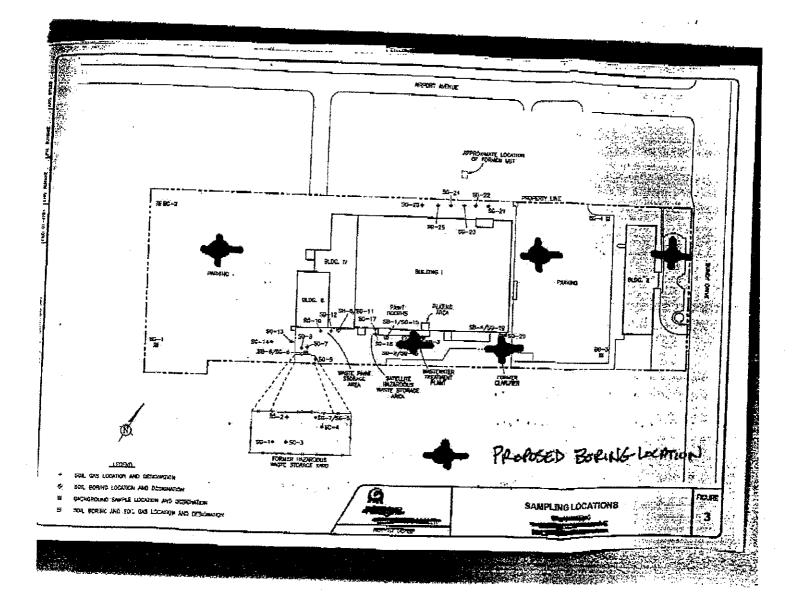
Respectfully Submitted, West Coast Environmental and Engineering

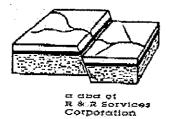
Peter L. Thams, C.E.G., R.E.A, Senior Geologist/Group Manager

Cc: Lee Paul, LPI Dave Sarkisian, Geolabs-Westlake Village

sa210-BAE Systems_letter

West Coast Environmental and Engineering





GEOLABS-WESTLAKE VILLAGE

Foundation and Soils Engineering, Geology

31119 Via Collnas, Suite 502 = Westlake Village, CA 91362 Voice: (818) 889-2562 (805) 495-2197 Fax: (818) 889-2995 (805) 379-2603

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TELECOPY TRANSMITTAL LETTER

11/19/01 Date:

Telecopier Number: (805) 379-2603 Office Number: (805) 495-2197 (813) 889-2562

Please deliver the following material as soon as possible: To: Lee Paul From: Dare Sarkisian

Total Number of Pages (including this page): 2

Robosal Boring Lou Additional Information: and 1 rough iller ASAP to Dertin This torwarding an 70 rather than 3 borness

Please notify us immediately if not received properly. Thank you.

GEOLABS-WESTLAKE VILLAGE

DONNER_THOMAS

From: Sent: To: Subject: PAUL_LEE Friday, November 30, 2001 8:59 AM DONNER_THOMAS FW: BAE Systems

-----Original Message-----From: Peter Thams [mailto:pthams@wcenviro.com] Sent: Friday, November 30, 2001 8:47 AM To: 'lee@lpior.com' Subject: BAE Systems

Lee

We received the results of laboratory analysis for volatile organic compounds (VOCs) from the perched groundwater zone at the BAE Systems facility. VOCs, including TCE, PCE and their breakdown byproducts, were detected in the groundwater sample at levels exceeding maximum contaminant levels (MCLs) for some compounds. The VOCs detected are consistent with compounds historically used at the facility, which indicates facility operations may have impacted groundwater at the site.

We should have all the laboratory reports by the end of the day today and are working on the report. We send you a draft as soon as we can.

Regards,

Peter Thams, C.E.G., R.E.A. Group Manager West Coast Environmental and Engineering

11/30/01 MTy @ BAR Low Ph soil Henry metal u/ consultant for ENV. ground water basis 3 dailling Cocotions Power Perched water on clay layer @ 70ft Voc's were present Previous Testing Cow levels of VOC's No Voc Lischange into sewer lines in LasTiogens Voc from HAZANDOUS WASTE AREA seems likely AQUA Fin

celved: 11/29/01 4:20PM;	~> WC	E; Page 18	
Client: West Coast Envir	onmental	Date Analyzed:	
Sample ID: B1		Analyst:	
CAS LAB NO: 01240401		Sample Matrix:	Water
Date Received: 11/26/01		Date Extracted:	N/A
Date Sampled: 11/26/01		Time Sampled:	1020
	ATILE ORGANIC COM A Method 8260 con		
• • • • •			, DOI
	Concentration	Dilution	POL
Compound		Factor	ug/L ===========
Ethylbenzene	BOF	1	1.0
Hexachlorobutadiene	BOL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BOL	1	0.5
Methylene Chloride	BQL	ī	2.0
Methylene chiorrae	BQL	ī	1.0
Napthalene	BQL	1	1.0
N-Propylbenzene		ī	0.5
Styrene	BQL	. 1	1.0
1,1,1,2-Tetrachloroethan	e BQL.	. 7	0.5
1,1,2,2-Tetrachloroethan	e <u>BQL</u>	· · · · · · · · · · · · · · · · · · ·	1.0
Tetrachloroethene	. 2.8	· <u> </u>	
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	1.5	1	1.0
1,1,2-Trichloroethane	13 '	· 1	1.0
Trichloroethene	160	1	1.0
Trichloroflouromethane	BOL	· 1	1.0
1,2,3-Trichloropropane	BQL	l	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride		1	2.0
Total Xylenes	BOL	- 1	5.0
MTBE	BQL		2.0
	SURROGATE RECOVER	Υ.	
Surrogate	<pre>% Recovery</pre>	Control Limi	ts
~~~~~**			
Dibromofluoromethane	89	86-118%	
Toluene-d8	88	88-110%	
4-Bromofluorobenzene	88	86-115%	
4-BromorLuorobenzene	55	· · · · · · · · · ·	

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

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GAPCO Analytical Services, Inc.

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Capco Analy	tical Services stman Avenue,	Suite B	
T230 RS	ntura CA 9300	3	
ve (	805) 644-1095	-	
			· · · · · · · · · · · · · · · · · · ·
Client: West Coast Environm	ental	Date Analyzed:	11/28/01
Sample ID: B1		Analyst:	AN
CAS LAB NO: 01240401		Sample Matrix:	Water
Date Received: 11/26/01		Date Extracted:	N/A 1020
Date Sampled: 11/26/01		Time Sampled:	1020
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VOLATIL	R ORGANIC COMP PA Method 8260	B	
_			DOI
	Concentration	Dilution	PQL ug/L
Compound	ug/L	Factor	
Benzene	BQL	· 1 1	0.5
Bromobenzene	BQL	1 7	0.5
Bromochloromethane	BQL	<u> </u>	1.0
Bromodichloromethane	BQL	上 1	1.0
Bromoform	BQL		0.5
Bromomethane	BQL	±. 1	0.5
N-Butylbenzene	BQL	بل ۲	0.5
sec-Butylbenzene	BQL	<u>ר</u> ר	0.5
tert-Butylbenzene	BQL	1 1 1 1 1 1 1 1	0.5
Carbon tetrachloride	BQL	<u>т</u> 1	1.0
Chlorobenzene	BQL	1	1.0
Chloroethane	EQL	т. Н	1.0
Chloroform	4.0	1	0.5
Chloromethane	BQL		0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	ī	5.0
1,2-Dibromo-3-chloropropane	BQL	1	0.5
1,2-Dibromoethane	BQL BQL	ī	1.0
Dibromochloromethane		- 1	. 0.5
Dibromomethane	BQL	1 1 1	0.5
1,2-Dichlorobenzene	BOL	1	0.5
1,3-Dichlorobenzene	BQL .	· 1	1.0
1,4-Dichlorobenzene	BQL BQL	1	0.5
Dichlorodifluoromethane	8.0	ī.	0.5
1,1-Dichloroethane	6.2	ĩ	1.0
1,2-Dichloroethane	260	·ī	0.5
1,1-Dichloroethene	280	. 1	0.5
cis-1,2-Dichloroethene	0.59	ī	0.5
trans-1,2-Dichloroethene	24	ī	0.5
1,2-Dichloropropane	BQL	ī	1.0
1,3-Dichloropropane	BQL	1	0.5
2,2-Dichloropropane	BQL	ī	0.5
1,1-Dichloropropene	рун	-	:

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Principal Analyst

A P C O Analytical Services, Inc.

# **BAE SYSTEMS PROPERTY** 3171 SOUTH BUNDY DRIVE LOS ANGELES, CALIFORNIA

# **BUSS-SHELGER ASSOCIATES**

**Real Estate Consultants** 

Kurt S. Shelger, MAI, CRE Ronald L. Buss, MAI, CRE Russell W. Reynolds, MAI Thomas W. Baaden, MAI Robert D. Draves, MAI Anthony M. Marin, MAI 865 S. Figueroa Street Suite 3300 Los Angeles, California 90017 Telephone: (213) 388-7272 Fax: (213) 388-5276 E-Mail: bussshelger@pacbell.net

November 30, 2001

Santa Monica Community College District 1900 Pico Boulevard Santa Monica, California 90405-1628 Fulbright & Jaworski, LLP 865 South Figueroa Street, 29th Floor Los Angeles, California 90017-2576

Attention:

Mr. Michael G. Smooke Attorney at Law

Reference: BAE SYSTEMS Property 3171 South Bundy Drive Los Angeles, California

Our File No. 3276-01

Mr. Thomas J. Donner

Executive Vice President, Business & Administration

Gentlemen:

Attention:

In response to your request, we have personally inspected and appraised the above referenced property for the purpose of providing you with our opinion of "as is" market value. As a result of the field investigation, study and analysis, the following opinion of fee simple value has been formed as of November 15, 2001:

# THIRTY TWO MILLION FOUR HUNDRED THOUSAND DOLLARS

#### (\$32,400,000)

A narrative appraisal report follows which presents descriptive information, factual data and analyses which form the basis for the opinion expressed.

Respectfully submitted,

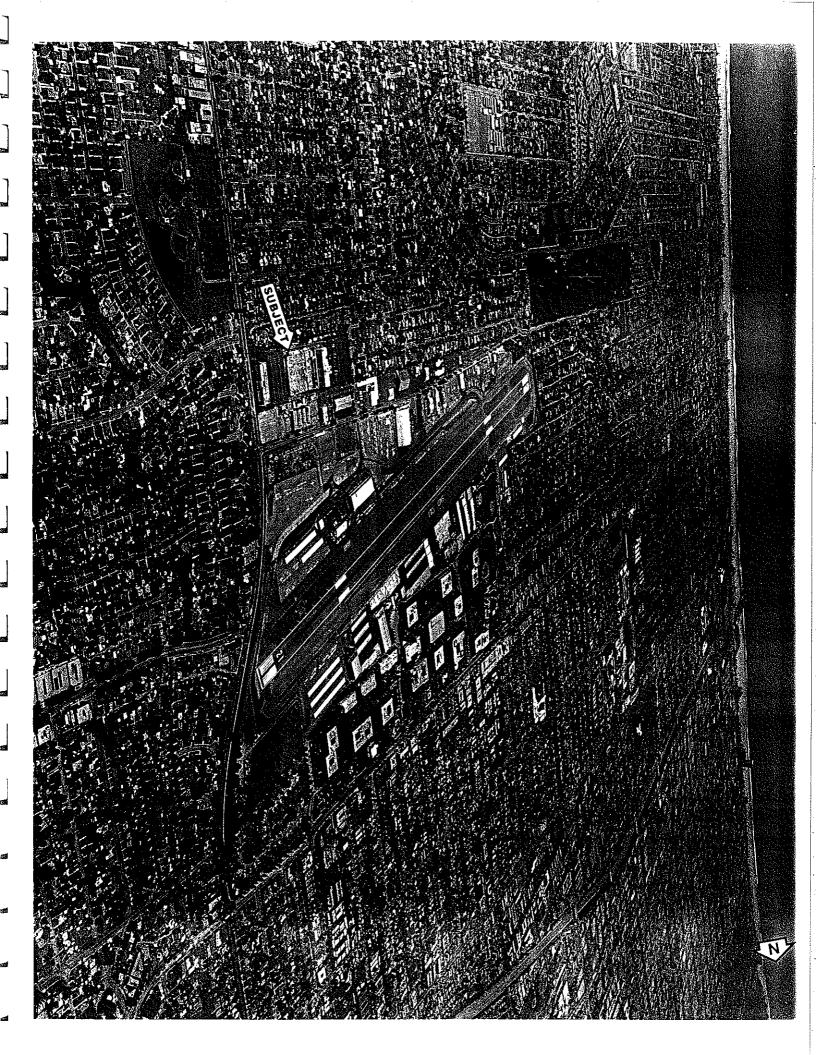
**BUSS-SHELGER ASSOCIATES** 

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Ronald L. Buss, MAI, CRE

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#### **INTRODUCTION**

Buss-Shelger Associates has been requested to value a large, both industrially and commercially zoned holding located technically in the city of Los Angeles, but from a practical standpoint is integrated into the Santa Monica Airport as shown on the facing aerial photograph. Since the property inherits the features of both communities, background comments on both West Los Angeles and the city of Santa Monica will be included in this narrative report.

The property under appraisement is presently owner-occupied by BAE SYSTEMS, the plant provides research, development and production of flight controls, avionics space and aircraft engine controls. Although not fully utilized at this time, the four buildings on the campus encompass a 10.398-acre parcel. A table is provided below to assist in understanding the composition of improved properties, the numbering system is internal to the ownership.

<u>No.</u>	Year Built	No. Floors	Square Feet	Current Use
1	1954/60s	1	90,966	Research/Production
3	Early 1960s	1	10,226	Support Offices
4	1981	4	65,260	Support Offices
5	1961	2	33,055	Corporate Offices
• Тота	AL AREA		199,507	

The current building to land ratio (FAR) is 0.44 to 1, well below the allowable density of 1.5 to 1; on-site parking exists for 654 spaces. Recognizing the lower density and age of the improvements, the  $10\pm$  acres (in part or total) is well situated on the west side for redevelopment with up to 500,000 square feet of office space as allowed by zoning. In this connection, several assumptions have been made which become a component of the valuation analysis.

- A peak-hour traffic control device will be installed at Bundy Drive to be time integrated with the signalization at Bundy Drive and Airport Avenue.
- The current Stewart Street access to the lower parking lot will likewise be time regulated to mitigate homeowners' concerns about a potentially large-scale project.

• The current second access point off Airport Drive to the lower parking will be relocated further to become an extension of Donald Douglas Loop South.

The latter item has the concurrence of the city of Santa Monica and becomes a necessary ingredient to the city approval of the recycling efforts if implemented.

#### PURPOSE OF APPRAISAL

The purpose of this appraisal is to report our opinion of the market value of the simple interest in the subject holding in an "as is" condition.

#### SCOPE OF APPRAISAL

To analyze the subject per the optimum development scheme outlined herein, the appraiser has conducted a field inspection of the property and surrounding district; in addition, he has collected, confirmed and analyzed pertinent market data necessary for a value conclusion. The Sales Comparison Approach is utilized in analyzing the subject land portion since it is the recognized methodology when valuing vacant land, particularly so when considering the specific use and intention for the site. Similarly, the corporate offices of "Bundy Building" has a value in excess of the underlying land, this type of owner-occupied facility was likewise valued by the Sales Comparison Approach utilizing transfers of similar buildings.

#### USE OF APPRAISAL

The appraisal has been requested by Mr. Michael Smooke as legal counsel to the Santa Monica Community College District; the study is to be used in connection with the potential purchase of the property.

#### DATE OF VALUE

The matters and opinions expressed herein are stated as of November 15, 2001, the site was inspected several times in the past month.

#### PROPERTY RIGHTS APPRAISED

The interest in the subject property being appraised is that of the fee simple estate which is ownership unencumbered by any other interest or estate, subject only to the limitations of eminent domain, escheat, police power and taxation.

#### **DEFINITIONS**

#### Market Value

"The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently, knowledgeably and assuming that the price is not affected by undue stimulus." Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby:

- (a) buyer and seller are typically motivated;
- (b) both parties are well informed or well advised, and acting in what they consider their own best interest;
- (c) a reasonable time is allowed for exposure in the open market;
- (d) payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and
- (e) the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale.

#### As-Is Market Value

"An estimate of the market value of a property in the condition observed upon inspection and as it physically and legally exists without hypothetical conditions, assumptions, or qualifications as of the date the appraisal is prepared."

### BUSS-SHELGER ASSOCIATES

#### Fee Simple Estate

"Absolute ownership unencumbered by any other interest or estate; subject only to the limitations imposed by the government powers of taxation, eminent domain, police power and escheat."

#### PROPERTY IDENTIFICATION

The property in question is identified by the following Los Angeles County Assessor's reference as:

#### Book 4247, Page 001, Parcel 030

#### **OWNERSHIP HISTORY**

The subject property was vested in the ownership name of Lear Siegler Astronics Corporation through its initial development. The firm was acquired in the early 1980s, the successor entity changing hands several times since, and last purchased by BAE SYSTEMS in 1998. The subject real estate was always part of the corporate entity transfer.

The decision was made earlier this year to sell the subject property, hopefully before year end, book the proceeds and relocated the company over the ensuing 15 to 18 months. This obviously involves an interim leaseback of the premises allowing alternative site selection and relocation to occur. CRESA Partners has been marketing the property, the following all-cash offers have been received; they are listed by descending price order.

Prospective Buyer	Offering Price	Due Diligence/ Escrow Close	Closing Contingencies
Archstone Communities Trust	\$36,000,000	16 Months	Rezoned – 100,000 sq.ft. office, 454 apartments
Lincoln Property Company Southwest	\$35,000,000	19 Months	Rezoned – 625 multi- family units



### **BUSS-SHELGER ASSOCIATES**

Prospective Buyer	Offering Price	Due Diligence/ Escrow Close	Closing Contingencies
Scobar (Shafer/Beitler)	\$34,250,000	3 Months	None – As Is Purchase
Related Communities Chicago Group	\$30,000,000	3 Months	None – As Is Purchase
Santa Monica Community School District	\$30,000,000	3 Months	None – As Is Purchase

#### MARKETING / EXPOSURE TIME

Exposure time is presumed to occur prior to the effective date of the appraisal. Review of the sales data and analysis of prevailing market conditions leads to the opinion that a time frame of six to nine months is considered to be a reasonable estimate to achieve a price consistent with the appraised value concluded herein.

#### **LOCATION**

The subject property is situated on the westerly side of Bundy Drive (Centinela Avenue southerly), 200 feet southerly of Airport Avenue, Santa Monica Airport. As shown on the facing Location Map, the northerly property line is also the boundary line separating the cities of Santa Monica and Los Angeles; the subject falls within the latter. As previously indicated, background information and a brief discussion will be provided on each community.

#### METROPOLITAN LOS ANGELES

#### Background

The Los Angeles Metropolitan Area is the second largest urban area in the United States behind New York and its environs. Long recognized as the West Coast's most important trade and cultural center, the Greater Los Angeles area has historically enjoyed a strong and diverse economic base, largely due to factors such as location, extensive freeway system, diversified employment base, scenic environment and a temperate climate. Additionally, trade has been strong with Pacific Rim countries such as Japan, China, Korea and Taiwan. The scope and significance of the Los Angeles-Long Beach metropolitan area is demonstrated by the following statistical data contained in the "2001 Survey of Buying Power" published by Sales and Marketing Management.

		Rank		
Population:				
Los Angeles-Long Beach	9,568,600	1		
New York	9,371,700	2		
Chicago	8,337,300	3		
Total Effective Buying Income (\$000):				
New York	\$195,293,762	1		
Chicago	\$184,731,599	2		
Los Angeles	\$169,417,226	3		
Total Retail Sales (\$000):				
Los Angeles-Long Beach	\$111,276,587	1		
Chicago	\$107,339,981	2		
New York	\$ 87,695,524	3		

The Los Angeles-Long Beach statistical area ranks first in population and is demonstrating considerable strength in the effective buying income and retail sales sectors. Of equal significance, Greater Los Angeles is ranking first nationally in total business employment. A large concentration of skilled technicians, engineers and scientists in varied industries such as manufacturing (including aerospace), business and professional management services, health services, motion picture/TV production, transportation/communication, etc. are vital to the economy of the area.

Over the years Los Angeles County has experienced rapid and sustained population growth. During the 20th century, the number of residents grew from 170,000 in 1900 to a 2000 level of 9,519,000. Historically, people were attracted to Southern California by the favorable climate, diversified job opportunities and a life-style emphasizing home ownership and a wide range of leisure activities. However, the large concentration of people has brought with it the drawbacks typically associated with major metropolitan areas, including traffic congestion, social problems and a shortage of affordable housing. Efforts are being made to alleviate these conditions and the future economic outlook is quite favorable.

#### **Population**

The table below summarizes population growth trends for Los Angeles County. The statistical information was compiled by the U.S. Census Bureau.

Year	Population	Average Annual Growth Rate
1960	6,042,700	
1970	7,032,075	1.5%
1980	7,477,503	0.6%
1990	8,863,164	1.7%
2000	9,519,338	1.1%

#### Los Angeles County Population Trends

Rapid population growth was experienced during the 1960s when many of the communities within the county were in their initial growth stages. Population growth slowed during the 1970s but picked up substantially during the 1980s largely due to the strong economy that was heavily based on defense contracts of Southern California's aerospace industry. The end of the Cold War caused a severe attrition in defense and aerospace industry related jobs. Together with

economic setbacks and mounting unemployment there had been a reversal in the net immigration pattern in that the number of people leaving Southern California exceeded the inflow of residents from other states. However, recent statistics show that more people are moving to California from other states than the number of Californians moving out.

The pickup in the Los Angeles County's population growth is worth noting. Per California Department of Finance, Demographic Research Unit, an increase of 159,000 persons was recorded in 2000 and a further increase of 150,000 is projected for 2001. Los Angeles County's population is estimated to reach 10,025,000 by the year 2002.

#### Employment and Economic Trends

The following observations and projections have been set forth by the Los Angeles County Economic Development Corporation in its "2001-2002 Economic Forecast & Industry Outlook."

- Following a strong growth pattern, the U.S. economy is decelerating, a condition felt throughout the nation and beyond. U.S. growth will drop to 1.8% in 2001 from 5% in 2000 before recovering to 2.6% in 2002.
- Inflation this year will be 3.4%, the same as 2000. Inflationary pressure will abate in 2002 as labor costs and energy prices decline.
- The Federal Reserve is likely to reduce the key Federal Funds Rate by another 50 to 75 basis points in the second half of 2001.
- Economic prospects are heavily influenced by the attitudes of U.S. consumers who are expected to sustain a strong level of spending until business investment begins to recover.
- California's economy will narrowly avert a recession in 2001, with nonfarm employment growing by 2.2% or 318,000 jobs. Job growth in Los Angeles County is projected at only 1.4% in 2001, increasing to 1.8% in 2002.

• The impact of tax refunds and lower income tax rates on consumer spending will be felt in the fourth quarter of 2001 and early in 2002, giving a modest boost to the nation's economic growth.

### Outlook for Los Angeles County

Favorable factors providing Los Angeles County with a buffer from severe economic fluctuations include the diversity of the County's economy and the large number of major construction projects underway. In addition, despite uncertainties generated by the energy crisis and a slowing economy, major business expansions are still taking place.

On the negative side, sources of concern are the energy situation, the weakness experienced by several major industries and the leveling off of international trade. In addition, the office and retail markets are considered to be problem areas on a macro-basis.

Total nonfarm employment is Los Angeles County reached 4,084,500 in the year 2000, an increase of 81,600 or 2.0 percent over the previous year. An increase of 1.4 percent is projected for 2001. In 1994, during the depth of the 1990s recession, the number of employed in Los Angeles County was 3,701,900 or 9.4 percent below the year 2000 figure. Along with the increase in employment there has been a sharp decline in the unemployment rate since 1993, a pattern that should be reversed when 2001 figures are available.

# Percent Unemployed

Year	Los Angeles County	State of California
1993	9.8%	9.4%
1995	7.9%	7.8%
1997	6.8%	6.3%
1999	5.9%	5.2%
2000	5.4%	4.9%
2001	5.6%*	5.0%*
2002	5.7%**	4.9%**
*Estimate		
**Forecast		

# **Outlook for Major Industries**

The following information summarizes the trend of major industries in the Los Angeles

five-county area (Los Angeles, Orange, San Bernardino, Riverside and Ventura counties).

### Aerospace

This sector includes production of aircraft and parts, missiles and space equipment, and search and navigation equipment, which can be used in defense, space, and commercial applications. These activities generate high wage, high-multiplier jobs. The commercial aircraft industry suffers from the severe slowdown in the orders for mainline jets and the competition between Airbus and Boeing.

Higher budgets by the Department of Defense (DOD) will result in a pick up of business by local defense contractors.

### DOD Budget (\$billion)

· .	FY98	FY99	FY00	FY01	FY02
Procurement	44.8	48.9	55.4	62.4	62.6
R, D, T & E	37.1	36.6	38.8	41.0	47.4

#### Source: US Department of Defense

Employment in the aerospace industry in Los Angeles County has been declining but is expected to gradually improve during the next few years.

### Aerospace Employment

	1997	1998	1999	2000	2001e	2002f
Aircraft & Parts	62,800	64,900	58,300	51,600	46,200	45,200
Missiles & spacecraft	4,100	2,800	1,900	1,800	1,700	1,900
Search & Navigation Equipment	36,100	35,800	<u>33,100</u>	<u>30,500</u>	<u>30,900</u>	<u>31,200</u>
TOTALS	103,000	103,500	83,300	83,900	78,800	78,300

# Apparel

Los Angeles County has a very well developed apparel/textiles hub. There is renewed interest in Los Angeles "fashion," attracting people from various parts of the country. Nevertheless, the industry is under severe pressure caused by rising natural gas costs, the push for lower prices by retailers and the stringent regulatory environment in the State. These problems have been driving apparel makers to low cost locations in Mexico, which is reflected in the following employment figures.

Apparel & Textiles Employment

	1997	1998	1999	2000	2001e	2002f
Apparel	111,900	106,300	101,300	100,700	98,400	96,000
Textiles	15,300	_15,700	16,600	_16,600	16,000	15,700
Totals	127,200	122,000	117,900	117,300	114,400	111,700

### **Business and Professional Management Services**

This sector includes engineering and architecture, accounting, advertising, law, management consulting and computer-related activities. Weakness in the economy are boosting the demand for services by accountants, law firms and management consultants as firms are restructuring and streamlining their operations. Engineering firms are busy with power plants, highway and rail transit projects. The advertising sector is impacted by the huge cut back in advertising budgets.

Business and Professional Management Services Employment

	1997	1998	1999	2000	2001e	2002f
Business services	304,300	321,300	328,200	350,000	363,000	378,000
Engineering & Mgmt.	<u>116,400</u>	<u>118,100</u>	<u>115,300</u>	<u>117,700</u>	<u>119,300</u>	<u>122,200</u>
TOTALS	420,700	439,400	443,500	467,700	482,300	500,200

# **Financial Services**

The financial services industry in Southern California continues to see lots of change. Comerica has completed its acquisition of Imperial Bank, while Sanwa Bank has just merged with Tokai Bank to form "United California Bank," a name once used by a prominent local bank that eventually became part of Wells Fargo. Despite job losses caused by mergers a slight increase in overall employment is projected.

1997	1998	1999	2000	2001e	2002f
109,200	111,600	111,900	111,300	113,600	116,000

### **Health Services**

Employment in this category has been increasing at a moderate pace. The industry is beset by numerous problems including disputes between hospitals and HMOs; a shortage of qualified nurses; concerns over quality and cost of health care with several hospitals struggling financially.

# Health Services Employment

1997	1998	1999	2000	2001e	2002f
264,400	264,200	267,200	270,700	273,300	276,300

# International Trade

Following a stellar performance in 2000, this sector has weakened considerably. Export activity is hampered by weak Asian economies and the strength of the U.S. dollar. Import activity is constrained by the inventory build-up in the U.S. and the weak retail sales trend.

In 2001, the value of exports out of Los Angeles Customs District should move up by 1.5% to \$78.8 billion, quite a contrast to the 2000s 16.5% gain. Import values in 2001 should increase by 1.9% to \$155.3 billion, compared with 2000s 16.8% increase.

Expansions are underway at both the Los Angeles and Long Beach ports, and the Alameda Corridor transportation project is approaching completion. There are concerns about the July 2002 expiration of the ILWU contract, covering the entire Pacific Coast, as a strike would be quite devastating to the local economy.

# **Motion Picture/TV Production**

The year 2000 will be remembered by the bankruptcies of several theater chains, a strike against commercial producers, and disappointing box office results. Contract negotiations between the studios and the Writers and Screen Actors guilds and AFTRA (American Federation of Television and Radio Artists) took place in 2001. To protect themselves in case of a strike, the studio accelerated production at the start of the year, causing a sharp decline during the second half.

Entertainment industry employment in Los Angeles County in 2001 should average 135,500, essentially unchanged from the previous year's level. The 2001 box office results are anticipated at \$8.31 billion, an 8.5% increase over the previous year.

### Tourism

Adverse conditions affecting the tourist business include the energy crisis and the fears associated with it by out-of-state visitors being caught in a blackout. Also, the strong U.S. dollar deters international visitors. Difficult economic times in the San Francisco Bay area, a significant source of tourist business, have an adverse impact, as has the September 11th terrorist attacks.

Overall, the number of overnight visitors to Los Angeles County in 2001 should move up 0.4%. Hotel occupancy rate in Los Angeles County for 2001 should average 73%.

In November 2001 the Hollywood & Highland project will be completed which will be a big boost for the community of Hollywood, but to really stay competitive with Anaheim and San Diego with its expanded convention facilities, Los Angeles needs the retail/entertainment center and the major hotel planned adjacent to the Staples Center and the downtown convention center.

Outlook for the Construction and Retail Industries

The volume of residential construction has been steadily increasing since 1996 as shown

below.

Los Ar	igeles County Resid	ential Permits (Numb	per of Units)
Year	Single-Family	Multi-Family	Total
1996	5,370	3,237	8,607
1997	6,788	3,638	10,424
1998	6,887	4,805	11,692
1999	7,858	6,525	14,383
2000	8,392	8,542	16,934

Population growth, attractive mortgage rates and low unemployment contributed to the demand for housing. New construction is lagging the demand for living accommodations, resulting in a shortage of housing, especially of affordable housing. Construction of affordable housing is constrained by the scarcity and high prices of developable land, opposition by property owners to higher density housing, plus a lengthy and expensive entitlement process.

Home prices and apartment rents have been rising and this trend is expected to continue. Average home prices in Los Angeles County have shown a pronounced increase since 1997 as illustrated by the table on the next page.

Average Home Prices per Los Angeles County			
Year (April)	Average Home Price	Change	
1997	\$211,787	*	
1998	\$226,235	6.8%	
1999	\$252,672	11.7%	
2000	\$278,468	10.2%	
2001	\$309,498	11.1%	

Source: Real Estate Research of Southern California

With high demand for housing, apartment vacancies in Los Angeles County declined from 3.4% to 3.1% during the last year. During the same period average monthly rents went up 11.0% from \$1,068 to \$1,186.

Southern California's residential real estate activity will most likely remain strong through the rest of 2001, but the gradual slowdown which has been observed during the first half of the year will continue expressed in a slow down of building activity and a decrease in home sales. Nevertheless, home prices and residential rents will continue their upward trend.

### **Office Development**

Following the large oversupply of office space resulting from the 1980-1990 building boom, new office building construction has been restrained during the economic expansion starting in 1995 but has gained in momentum during the past five years as illustrated below.

Los Angeles County Office Building Permits

Year	(\$000)	Change
1995	\$ 88,000	
1996	\$133,000	+51.1%
1997	\$161,000	+21.0%
1998	\$284,000	+76.4%
1999	\$393,000	+38.4%
2000	\$268,000	-32.0%

Office vacancy rates in Los Angeles County declined from 18.4% in 1996 to 12.9% in 2001. A persistently high vacancy factor of 20.3% plagues Central Los Angeles whereas the West Los Angeles area reports a vacancy of 11.2%; this is nearly double the 5.5% vacancy of one year ago. This increase is due mainly to the dot-com crash of

2000, making available about 700,000 square feet, much of it "creative" office space which is not in demand by conventional business firms.

Cutbacks by corporate tenants combined with the shrinking space demand on the part of the telecom sector are creating a renter's market, characterized by an uptrend in vacancies and a softening of rents.

### Industrial

Demand for industrial space has remained strong even as the manufacturing sector has decreased in importance. Most of the demand originates from the distribution/warehousing sector whose growth will be further stimulated by the completion of the Alameda Corridor and the expansion of the twin ports.

The overall vacancy for industrial space in Los Angeles County declined to 3.9% in the second quarter 2001 from 4.2% in the first quarter, although there is a large quantity of sublease space being brought to the market. It stood at 5.25% in 1999 and 4.75% in 2000.

To meet the demand large increments of space have been added to the inventory. This is clearly shown in the statistical data below.

Los Angeles County Industrial Building Permits

Year	(\$000)	Change
1995	\$294,000	
1996	\$516,000	+75.5%
1997	\$763,000	+47.9%
1998	\$1,237,000	+62.1%
1999	\$1,198,000	-3.2%
2000	\$1,173,000	-2.1%

Los Angeles County continues to have the lowest industrial vacancy rates in the Southern California region. The industrial space is basically fully occupied as most of the available facilities are not in keeping with today's requirements.

### Retail

Retail sales have experienced robust growth since the depth of California's recession in 1993. Taxable retail sales in Southern California rose by 11.0% in both 1999 and 2000. The slowdown in the economy is reflected in the forecast for 2001 and 2002 of 2.2% and 2.8%, respectively.

Retail construction activity has been accelerating at a fast pace as shown in the following table below despite the slowdown projection in the above figures for 2001 and 2002.

Year	(\$000)	Change
1995	\$757,000	
1996	\$818,000	8.1%
1997	\$945,000	15.5%
1998	\$1,053,000	11.4%
1999	\$1,246,000	18.3%
2000	\$1,330,000	6.7%

Los Angeles County Retail Construction Permits

Various trends and shifts are emerging in the retail sector. For instance, Wal-Mart is broadening its scope of products and services, putting pressure on stores such as JC Penney and Sears. It forced the Montgomery Ward to close its 250-store nationwide chain. Moreover, warehouse-type operations such as Costco are expanding, putting out of business many smaller operations. Moreover, many retail companies over-expanded and are overloaded with debt during a declining economy. In addition retailers have set up Internet operations, cutting into conventional shopping trips.

Particularly hard hit by these trends are some of the conventional regional malls. Several have been partially razed to be converted into open malls or mixed-use developments, i.e., Long Beach Plaza, Plaza Pasadena and Sherman Oaks Galleria.

### Summary and Outlook

The year 2000 was a good year for the Los Angeles County economy. The diversity of the County's economic base has been a major factor in its recent healthy performance. A number of major multi-year private and public projects are under construction. Upon completion, they will contribute to the vitality of the area. These include: the Alameda Corridor; expansion of both the ports of Long Beach and Los Angeles; the Hollywood and Highland project; the downtown Disney Concert Hall and the Cathedral of Our Lady of Los Angeles; the light rail line from downtown Los Angeles to Pasadena; and the "Grove" shopping center at the Farmer's Market.

Slowing in the national economy is expected to result in slower job growth, less robust consumer spending and a cooling in international trade in the Los Angeles region during 2001. Anticipated declines almost uniformly represent changes in how fast economic indicators are growing rather than reversals into negative territory. The energy crisis has had a variety of impacts, both economic and financial, most typically move-outs from the State. The full impact of the September 11th terrorist attacks is not possible to gauge at present.

# WEST LOS ANGELES

Location

The property in question is located within the West Los Angeles area of the city of Los Angeles. Extending roughly between Santa Monica Boulevard and Pico Boulevard, westerly of Century City to the Santa Monica city limits, West Los Angeles is a densely populated sector of the Los Angeles Metropolitan area with a heavy emphasis on multifamily and office development.

### **Development Patterns**

During the last 15 years the character of West Los Angeles has undergone a significant change. The area has become home to major law firms, financial institutions and corporate headquarters; most have relocated away from the crowds, traffic and congestion of Beverly Hills, Century City and downtown Los Angeles. More recently, media and Internet companies have developed a strong presence is West Los Angeles. Many executives who live in the suburbs of Brentwood, Bel Air, Westwood, Pacific Palisades and Malibu enjoy the better commute that a West Los Angeles location offers.

Originally the bulk of office construction was along Olympic Boulevard, starting at Sepulveda Boulevard and extending west one mile to Bundy Drive. Other westside areas where major development occurred are the Wilshire-Brentwood, Sepulveda and Santa Monica Boulevard corridors. Recycling of land formerly improved with older apartment buildings into high-end condominiums was prevalent until the area reached an overbuilt condition in 1989-1991.

The aforementioned construction activity in West Los Angeles generated an increasing market for service-commercial establishments. A proliferation of strip shopping center development paralleling the building boom occurred along the major thoroughfares in the area.

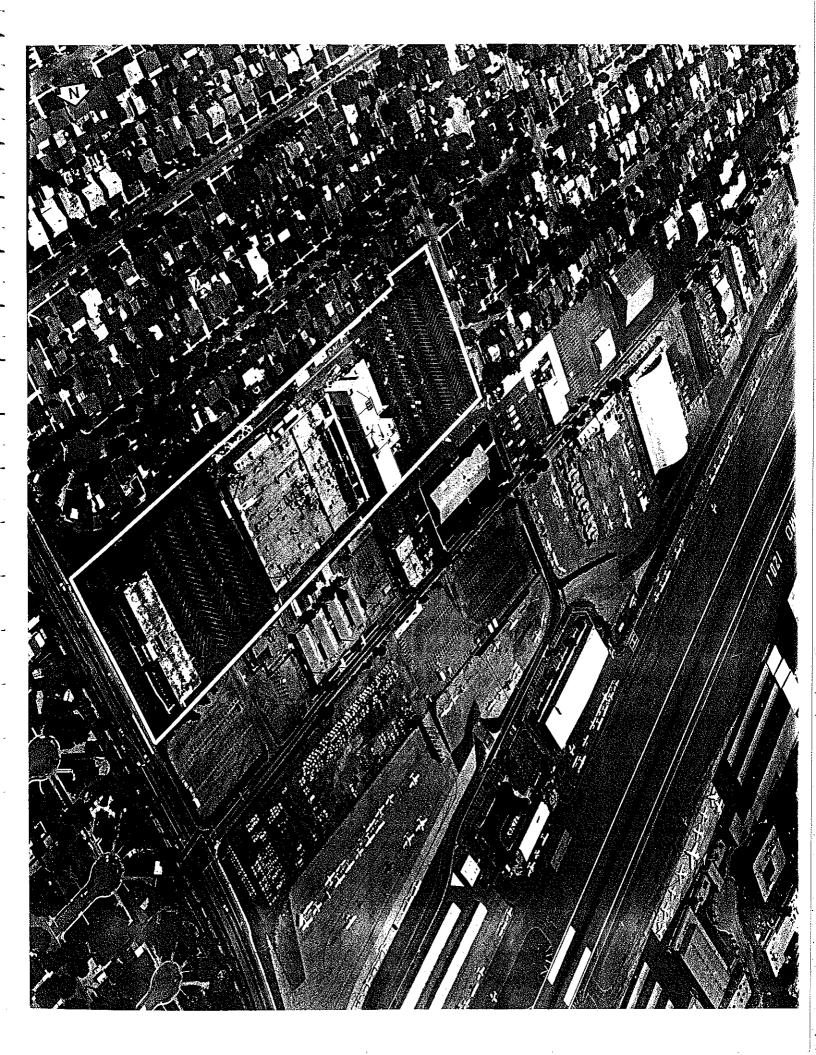
Employment of area residents is diversified among various fields with a high representation of professional, technical and managerial jobs.

# Accessibility

Wilshire, Santa Monica, Olympic and Pico boulevards are major east-west thoroughfares carrying a heavy volume of traffic, particularly west of the San Diego Freeway. Major north-south thoroughfares in the area include Bundy Drive, Barrington Avenue, Sawtelle Avenue and Sepulveda Boulevard. The Santa Monica (I-10) and the San Diego (I-405) freeways are vital transportation corridors.

# Trend

West Los Angeles is a stable, highly desirable area and is expected to continue to enjoy a favorable reputation. In recent years the trend in the area has been toward redevelopment of underimproved parcels with more intensely developed projects. The area benefits from its pleasant environment due to its proximity to the Pacific Ocean, resulting in lower summer temperatures. Furthermore, it enjoys a high social and economic status which is clearly reflected in the quality of the housing inventory and the thriving commercial districts. Considering past and present trends, it can be anticipated that the favorable factors influencing this large area will continue to make West Los Angeles a desirable place to live and conduct business.



# **DATA ON SANTA MONICA**

### Location/Access

Santa Monica is located at the Pacific Ocean shoreline in the southwesterly portion of Los Angeles County, approximately 15 miles west of the Los Angeles Civic Center. Santa Monica was incorporated in 1876 and contains an aggregate area of 8.3 square miles. City boundaries are as follows:

San Vicente Boulevard and Montana Avenue	On the south
Centinela Avenue	On the east
Pacific Ocean	On the west
Dewey Street and Airport Avenue	On the south

The city of Santa Monica is located in the western portion of the Los Angeles metropolitan area. Santa Monica is easily reachable by air, boat or land transportation. It is closer to Los Angeles International Airport than downtown, and in addition, has its own airport for private planes or short-haul connections. With no fewer than six major east-west and north-south highways and freeways, Santa Monica offers excellent access to the entire Los Angeles vicinity with Santa Monica Municipal and Los Angeles Municipal Bus lines servicing Santa Monica.

### **Population**

Population growth in Santa Monica since 1940 is illustrated in the summary located on the following table; the statistics provided were obtained from the U.S. Census, and the State of California Department of Finance.

Year	Population	Percent Change
1940	53,500	
1950	71,595	3.4%
1960	83,249	1.6%
1970	88,289	0.6%
1980	88,314	
1990	86,905	(0.2%)
2000	84,084	(0.3%)

The largest gains occurred between 1940 and 1950 when the population increased by about 34% or about 18,000 residents. From 1950 to 1970 the city continued to grow, but at a much slower pace of only 1.2% per year. There has been a slight, but continual decline in the city's population since 1980. The population base is largely composed of skilled workers, professional people, and executives. There is also a high percentage of retired people who have settled in the city because of the moderate climate and other amenities which the area offers.

# **Employment**

The largest employment sector in the city is services, followed by retail trade and manufacturing. Analysis of the data indicate that the majority of Santa Monica's work force is employed in white collar professions. There are over 10 manufacturing plants with 100 or more employees in the community with leading product groups including electronics, aerospace and computers. The largest manufacturing firms in the community are listed below.

Name of Company	Employment	Product
Lear Siegler Astronics Corp.	900	Astronics
Candle Corporation	800	Computer Software
L.A. Gear	750	Athletic Apparel/Shoes
Louverdrape, Inc.	740	Vertical Blinds
The Gillette Company	700	Pens
Pioneer Magnetics	560	Power Supplies

There are also numerous non-manufacturing employers in the community area, the largest of which are shown on the table on the following page; the statistics were provided by the Santa Monica Chamber of Commerce.

Name of Company	Employment	Product
City of Santa Monica	2,207	Government
Santa Monica/Malibu	1,607	Public School District
Unified School District		
Santa Monica College	1,274	Community College
St. John's Hospital & Health Center	1,000	Hospital
Rand Corporation	958	Research & Development
U.C.L.A. Santa Monica Hospital	800	Hospital
Medical Center		
National Medical Enterprises	595	Hospital Management
Morley Group, Inc.	500	Construction
Metro Goldwyn Meyer, Inc.	500	Entertainment

# Character of Development

The city of Santa Monica is approximately 8.3 square miles (5,363 acres). Located along the Pacific Ocean, Santa Monica maintains over three miles of beaches, first class hotels, restaurants and entertainment opportunities. Additionally, Marina Del Rey, less than ten minutes away, has one of the largest and most luxurious private boat harbors in the United States. Santa Monica has among the most prestigious residential neighborhoods in Los Angeles, and therefore, is a natural home for corporate executives. Other exclusive neighborhoods, within proximity, include Brentwood, Bel Air, Westwood and West Los Angeles.

Recognizing that Santa Monica is a predominately residential community, there are however major commercial districts and a significant industrial area within the city limits. The most important commercial development is Santa Monica Place, an enclosed regional mall with twodepartment stores containing a gross leasable area of 565,000 square feet. The center is located between Second and Fourth Streets at Colorado Avenue. Of additional significance to the city is Santa Monica Mall (Third Street Promenade), extending along Third Street between Wilshire Boulevard and Broadway, an open air commercial district. Substantial funds has been expended on public related facilities, i.e. landscaping, lighting and thematic improvements, alley upgrading, and increased parking. The decline of Santa Monica Mall over the years precipitated this revitalization

effort. The Third Street Promenade has been highly successful, attracting numerous high-end restaurants, national retail chains (Barnes & Noble Bookstore, Rizzoli Books, Disney Store, Pottery Barn, Jay Crew, The Gap, Banana Republic, Tower Records, etc.), cinemas (AMC Theatres, Mann Theatres and Cineplex Odeon) and clubs which have created a regional entertainment destination. The city of Santa Monica has also experienced growth as a dining/entertainment center serving the surrounding Westside Los Angeles and greater Los Angeles areas. Especially significant has been the redevelopment of the Old Main Street District and the above mentioned Third Street Promenade.

Several first-rate hotels exist within the city limits of Santa Monica. These hotels include the 196-room Shutters on The Beach Hotel at the corner of Ocean Avenue and Pico Boulevard; Loews Santa Monica Beach Hotel, which has 200 rooms and is located on Ocean Avenue near Pico Boulevard; the Sheraton with 253 suites located at Fourth Street and Olympic Boulevard; The Bay View Holiday Inn, which has 350 rooms and is located at the corner of Ocean and Colorado avenues; and the Miramar Sheraton, which has 308 rooms and is located on Wilshire Boulevard between First and Second Streets. Recently constructed along Ocean Avenue is the 175-room Le Merigot hotel as well as the 129-room Casa Del Mar. Both the latter facilities have programmed room rates at \$300 per night plus.

Wilshire Boulevard is the principal commercial thoroughfare in the city of Santa Monica. Development ranges from retail strip stores to modern high-rise office buildings. An intensification of land use had been experienced over an extended period of time, but severe constraints have subsequently been imposed concerning development density and height limitation. The Santa Monica industrial district extends along the former Pacific Electric Railway right-of-way. This industrial corridor follows Olympic Boulevard from Centinela Avenue for a distance of two miles in a southwesterly direction to Sixth Street.

# Office Market

Santa Monica has traditionally been a landlord's office market due to the very tight growth restrictions enacted by its city council and voters. Proposition U in West Los Angeles created pressure on Santa Monica as the next area for increased construction.

The Santa Monica market is divided into four separate areas: The Santa Monica Airport located along Ocean Park Boulevard near the airport: the Special Office District bounded by 20th Street on the west, 26th Street on the east, Broadway on the north, and Olympic Boulevard on the south; downtown Santa Monica East running along Wilshire and Santa Monica boulevards, east of Sixth Street to Centinela Avenue; and the Central Downtown District bounded by Ocean Avenue on the west, Wilshire Boulevard on the north, Pico Boulevard on the south and Sixth Street on the east.

The non-CBD areas include large projects such as the Water Garden project, adjoining MGM Plaza (formerly Colorado Place) and the Arboretum. These large projects in the non-CBD compete for larger tenants such as law firms, entertainment companies, technology and computer businesses, as well as smaller tenants. As recently as the end of last year rents had escalated to \$4.00 per square foot (monthly) as a result of a 3.5% vacancy rate, however the recent failure and contraction of numerous dot-com, high-tech and info firms, has led to a vacancy rate escalating rapidly to 16.3%.

### Retail Trade

Santa Monica is a relatively affluent area overall, although there are significant variations in buying power amongst the numerous neighborhoods in the city. The table on the next page highlights retail data for the city as compared to the larger surrounding area. Figures are from "Survey of Buying Power," *Sales & Marketing Management 2001*.

Category	Santa Monica	Los Angeles Long Beach Area	State of California
Retail Sales Per Capita	\$31,818	\$11,629	\$14,711
Median Household E.B.I.	\$42,301	\$41,627	\$39,741

The data show median household effective buying income is consistent with the larger areas, however the retail sales per capita clearly reveal the city is a magnet for shoppers and tourists from outside the immediate area. This is greatly due to the increased retail sales volumes brought about by the success of the Third Street Promenade.

### Civic Center Specific Plan

By special municipal election on June 7, 1994, residents of the city of Santa Monica approved passage of the Civic Center Specific Plan. Covering the area bounded by Ocean Avenue, Pico Boulevard, Fourth Street and Colorado Boulevard, voters approved a land use plan which calls for the redevelopment and expansion of the existing Civic Center, County Courts, Santa Monica Civic Auditorium, Santa Monica Police Station, the Rand Corporation facility and Pacific Shores Hotel. The conceptual plan allows for additional development including 250,000 square feet of speculative office space, 350 residential units, 20,000 square feet of retail space, 200,000 square feet of institutional space for the Rand Corporation, a 55,000 cultural/community center, 260,000 square feet of additional court and civic facilities, and multi-level parking garages. Development of the project will occur in phases most likely over a 15 to 20-year period according to city officials. Funding for the initial phase of the project (new police station) is pending and is the main obstacle to the rate at which the project is developed.

### Summary

Santa Monica, over the last 10 years, has undergone a remarkable and rapid resurgence and can be accurately described as one of the most active markets on the Westside. This growth is largely due to the attractive environment and the proximity to some of Los Angeles' most affluent communities.

The stringent rent control of multifamily project development policies within the city have brought much controversy to the city of Santa Monica. Because of the below market rental rates, vacancies in apartment units are minimal, but at the expense of property owners whose growth in real estate values are inhibited by the below market rental rates initiated by the voters of the city. As a result, there has been little new construction activity in the multi-family sector and existing product condition has deteriorated given reduced incentive for strong maintenance programs. This has recently changed with the January 1996 action taking by the State Legislature which by January 1999 allowed rental rates on vacation, abandonment or eviction to go to market levels. Future increases in rent, however will be dictated by the Santa Monica Rent Control Board. Future prospects for Santa Monica are very good as the city continues to be an attractive tourist and regional entertainment destination, plus home to an increasing number of entertainment related firms who are attracted to the area due to its proximity to nearby affluent residential communities, the Pacific Ocean and predominately low-rise surroundings.

### **OFFICE MARKET OVERVIEW**

### Introduction

The subject parcel is currently zoned to allow for approximately one-half million square feet of office space. In order to gain insight into the demand for added space, we are including information on the current status of the West Los Angeles office market. This is essentially based on statistical data published by Grubb & Ellis Research Service Group, Third Quarter 2001, along with data compiled by other brokerage firms, as well as the *Los Angeles Business Journal*. Grubb & Ellis's survey includes buildings constructed or renovated since 1965, containing at least 20,000 square feet of rentable office space. Excluded are medical, governmental, owner-occupied (75% or more) and significantly deteriorated buildings.

### **Development Trend**

The Los Angeles metropolitan area experienced unprecedented office building construction beginning in the early 1980s. Accelerated construction activity during the 1980s reflected the cyclical nature of office development. West Los Angeles has been one of the strongest markets with low vacancy rates and high net absorption levels through the late 1980s. But in 1990, when net absorption of office space in most markets began to decrease, and up until year-end 1993, the vacancy rate consistently hovered around 20%. Most West Los Angeles submarkets began to show some improvement beginning in early 1994. Speculative construction in West Los Angeles began to increase in the late 1990s with several projects now under way.

### Inventory and Vacancy Data

The chart on the following page contains detailed information on the status of the office market of the entire West Los Angeles area as well as of the individual submarkets as of the Third Quarter of 2001. The subject property is located in the West Los Angeles submarket.

<b>COMPETITIVE OFFICE MARKET</b>
2001 Third Quarter

	Square Feet				Sq.Ft.	Asking Rent ⁽²⁾	
Submarket	Total	Vacant	3 rd Qtr '00	3 rd Qtr '01	U/C ⁽¹	Class A	Class B
Beverly Hills	5,309,236	569,295	9.5%	10.6%	45,592	\$2.75	\$2.90
Brentwood	3,366,878	307,154	4.8%	9.1%	0	2.85	2.04
Century City	9,000,887	508,450	3.4%	5.6%	0	2.95	3.27
Hollywood/W. Hwd.	2,742,917	451,924	11.7%	16.5%	80,000	2.31	2.35
Marina/Culver City	4,769,687	503,124	4.7%	9.9%	485,299	2.17	2.58
Miracle/Park Mile	5,445,167	743,918	9.7%	13.7%	0	2.19	2.29
Santa Monica	7,497,592	1,219,032	3.5%	16.3%	175,774	2.99	3.46
West Los Angeles	5,345,770	760,234	6.9%	14.0%	156,950	2.42	2.57
Westwood	2,867,710	367,140	<u>8.9%</u>	12.8%	0	3.32	3.55
Totals	46,365,844	5,430,271	6.4%	11.6%	943,615	\$2.68	\$2.95

Footnotes:

⁽¹Space under construction includes speculative and build-to-suit for lease projects.

⁽²Asking rates are per square foot per month full service; rates for each building are weighted by the size of the building.

Office vacancy rate figures for the entire marketplaceighlighted below.

Area	1995	1996	1997	1998	1999	2000
Entire Competitive Market	15.2%	14.2%	12.6%	11.8%	7.2%	8.0%

The overall vacancy rate in the broader west Los Angeles market area was 6.4% a year ago, with the subject West Los Angeles submarket consistent at 6.9%. As of the Third Quarter 2001, the West Los Angeles market area and Santa Monica submarket vacancy rates increased sharply to 14.0% and 16.3%, respectively. The heavy inventory of new space in 2000 increased the areawide vacancy to 8.0% as of year end.

# Demand and Absorption

Shown in the table on the following page is net rentable footage absorbed within the entire competitive marketplace between year-end 1988 and 2000, plus year-to-date September 30, 2001.

Year	Square Feet Absorbed
1988	1,524,000
1989	1,728,000
1990	750,000
1991	181,000
1992	1,152,000
1993	165,000
1994	735,000
1995	404,616
1996	726,945
1997	942,181
1998	1,327,165
1999	2,173,785
2000	946,326
YTD 9/30/01	<1,318,565>

Excluding 1992, annual absorption ranged from 181,000 to 726,945 square feet between 1990 and 1996, or an average of 442,512 square feet. Annual absorption for the entire West Los Angeles market in 1992 reportedly totaled 1,152,000 square feet, an inordinately high figure contrasted with other figures posted during the early to mid 1990s. Annual absorption in 1997 and 1998 increased to 942,181 and 1,327,165 square feet respectively, as the positive effects of a significantly improving economy began to emerge. Space absorption during 1999 for the total market area was reported at a record high level of 2,173,785 square feet. The first six months of 2000 had shown continued strong growth in net absorption with 979,943 square feet in the aggregate, however this declined to 946,326 square feet by year end. The negative absorption of about 1.3 million square feet for the first nine months of this year is reflective of the near term contraction that has occurred.

### **Entertainment Related Industries**

Over the past few years numerous entertainment related firms (media, entertainment and technology operations) have relocated to West Los Angeles. The explosive growth of the entertainment industry, access to a highly-skilled labor force and proximity to high-end residential neighborhoods make West Los Angeles attractive to these firms. Due to the limited amount of

vacant traditional Class A and B office space, entertainment related firms have begun to lease space in older industrial facilities which have been converted to "creative" space. DreamWorks' 1999 decision not to proceed with its planned studio in Playa Vista was a setback to immediate growth prospects, but demand from other segments of the entertainment industry and other employment sectors remains quite strong until the fourth quarter of 2000 at which time the many dot.com related firms withdrew from the market.

### New Construction and Future Development

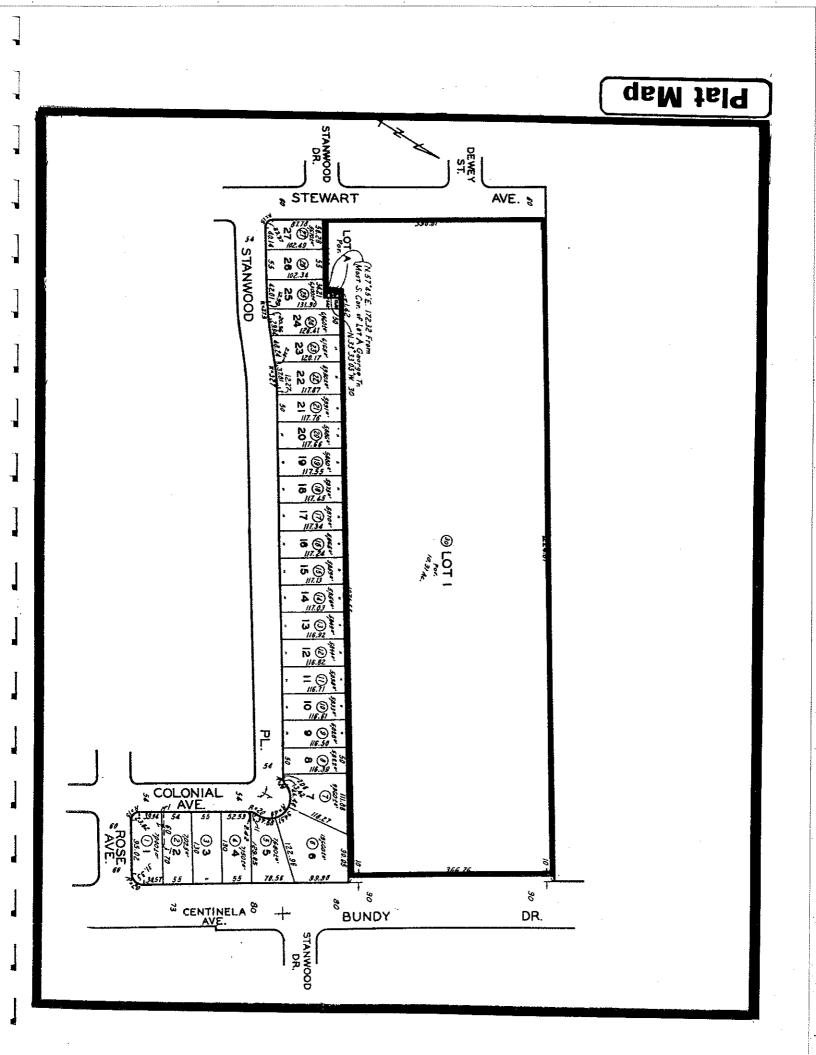
New speculative office construction commenced in early 1998 within the Arboretum project located in Santa Monica. Called Arboretum Courtyard, the two-building, four-story development totals 133,000 square feet. The Arboretum Gateway, a 192,000-square foot office building has been leased by Universal Music Group. Both Arboretum projects have been completed and are nearly 100% leased. Phase II of the Water Garden (615,286 square feet) was completed in September 2000. Additional office development scheduled for completion this year include: the previously mentioned Kilroy Realty's Westside Media Center (384,700 sq.ft.); La Cienega Center in Beverly Hills along La Cienega Boulevard (84,000 sq. ft.); Lantana West in Santa Monica along Olympic Boulevard (61,000 sq. ft.); Santa Monica Gateway at Santa Monica Boulevard in West Los Angeles (78,000 sq. ft.); and the Howard Hughes Center, a 250,000-sq.ft. office building by Arden Realty plus EOP/Macguire's Water's Edge project (426,000 square feet) in Playa Vista. Nearly 5.5 million square feet of office space is approved for development in the Marina/Culver City submarket; most of this additional new space is planned for the Playa Vista project in Playa Del Rey. JMB Realty Corporation has announced plans to construct a 38-story, 791,000-square foot office tower in Century City.

# **Conclusion**

At the present time market conditions are still favorable for property owners with vacancy now slightly over 11% and rents near the \$3.00 per square foot market. Following a period of depressed rents and high vacancies, the office market did recover as evidenced by a recent strong occupancy level and escalating rents, although in a current downturn.

Despite recent construction activity, some of the area's major developers remain cautious as large increments of new product are coming on the market and as planned. Of particular concern is the marketplace's perceived instability of the dot.com companies and the effect on the long term office market as a result of the shakeout in the industry. Moreover, lenders are growing increasingly cautious with the downturn underway; as a conservative posture they typically no longer consider vacancy rates alone when assessing development plans. Experience has shown that in every past cycle, when vacancies got below a certain level, that was the stimulus to do more development, leading to highly competitive conditions and frequently to a retreat in the market. Particularly where large speculative developments are concerned, it takes several years before an office building hits the market, and conditions may be quite different by that time.

Nevertheless, a major factor bears on the long term outlook. There is a definite shortage of sites available for new construction, particularly larger parcels that will accommodate a masterplaned project. Howard Hughes Center has one smaller site left, Playa Vista has the only large reservoir, but in an unproven market. Clearly West Los Angeles is lacking future sites excluding the Rand Corporation holding.



### SUBJECT PROPERTY DESCRIPTION

### THE LAND

### Location

Parcel in question is situated on the west side of Bundy Drive (Centinela Avenue), extending further west to Stewart Avenue, approximately 200 feet south of Airport Drive. While identified with the Santa Monica Airport, the property is technically within the city of Los Angeles.

#### Shape

Subject is rectangular-shaped being roughly 370 feet by 1,225 feet, plus a 30 foot by 144 foot extension at the southwesterly corner. Dimensions of the site are shown below.

Bundy Drive Frontage	366.76 Feet
Stewart Avenue Frontage	396.81 Feet
Northerly Property Line	1,224.87 Feet
Southerly Property Line	1,220.06 Feet

#### <u>Area</u>

Per the architect's findings, the land contains 452,925 square feet or 10.398 acres.

#### Topography

Site slopes downward from Bundy Drive to Stewart Street with adequate slope that provides positive drainage away from the buildings. Drainage is primarily accomplished by sheet flow across the asphalt surfaces to swales and into the storm drain system located along Stewart Street.

#### Utilities

All the usual and customary utilities and services are connected to the property.

### Zoning

The subject holding features three zoning designations with the following criteria applicable to each.

Designation	Location	Criteria
P-1 / P-1VL	East, South & West perimeter area	Parking limitation
(Q) CR-1	Land beneath Building 5	Office & retail usage Height – 75' or 6 stories Setbacks – 10' front – 15' rear FAR – 1.5:1 (max)

Designation	Location	Criteria
M1-1	Land beneath center portion of holding	Industrial & office usage Height – 61' within 200' of rear Setbacks – None FAR – 1.5:1 (max)

# Soils

A soils report has not been provided. This analysis assumes that the subject property is free from soil contamination and that load bearing characteristics are sufficient to support any existing or proposed improvements. The existence of toxic waste hazards resulting from prior uses may or may not be present. While every effort has been made to observe any potential toxic waste hazards, we are not qualified to make a determination as to their existence. If any such toxic material is believed to impact the subject property in any way, the user of this appraisal is urged to contact a qualified professional trained to identify such hazards.

### Flood Zone

The subject is located on Panel No. 060137-0077C. Flood designation is Zone C which is identified in the community flood insurance study as an area of moderate or minimal hazard from the principal source of flood in the area. Flood insurance is available in participating communities but is not required by regulation in this zone.

### Earthquake Zone

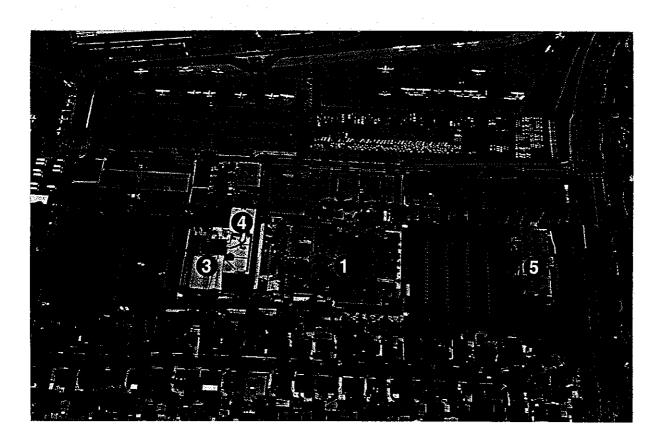
In 1972, the state of California enacted the Alquist-Priolo Special Studies Act. The purpose of this act is to delineate all active faults (faults with movement in the last 10,000 years) in California and to prohibit development of structures for human occupancy across the trace of an active fault. The project area is not included in an identified Special Studies Zone.

#### Access

The subject fronts on Bundy Drive shich is a major north-south traffic corridor with freeway off and on ramps available one mile north at the Santa Monica (I-10) Freeway. Terminating immediately north of the subject property at Bundy Drive, is National Boulevard which connects with the San Diego (I-405) Freeway roughly 1½ miles to the east. Internal access off Airport Avenue connects to both interior parking areas, the most westerly corridor is proposed to be moved further west to become a southerly extension of the Donald Douglas Loop South. Stewart Street also provides ingress and egress to the westerly parking area through the adjacent residential area on the south.

### Streets

BUNDY DRIVE (Centinela Avenue) is dedicated to a width of 90 feet and improved for two lanes of traffic in each direction plus a center median. There is no left turn lane into the street for northbound traffic, right turn only for southbound vehicles.



STEWART AVENUE is a cul-de-sac street along the subject frontage terminating at the airport boundary. It is dedicated and improved to 60 feet, it services the nearby residential tracts exclusively.

### **Surroundings**

The property under appraisement identifies with and is linked by several access points to the Santa Monica Airport as shown in the aerials provided. Nearby improvements consist primarily of former aircraft hangars, office space of varying quality, plus specialty shops and restaurants. To the south are older residential tracts in the city of Los Angeles.

# THE IMPROVEMENTS

### Background

The campus of BAE SYSTEMS consists of four buildings with a gross area of 199,507 square feet. The structures were built in phases starting in 1954 with an upgrading of tenant improvements continuing to the present. The grounds are improved with paving, plus landscaping at the entrance to Building Nos. 4 and 5. Site condition varies from good at the Bundy Drive entrance, to poor at Stewart Street due to surface drainage erosion. The location of each facility as well as BAE's numbering system is shown on the facing aerial.

#### Building No. 1

Year Built:

Three phases – 1954 through early 1960s

Building Area:

First Floor	-	88,454 sq.ft.
Mezzanines	-	1,694 sq.ft.
Penthouse	-	<u>818</u> sq.ft.
Total	~	90,966 sq.ft.

Construction Features:

Single-level office and manufacturing building constructed of a combination double wythe masonry wall with steel and wood roof frame; roofing is combination build-up and elastomeric systems. Manufacturing areas have exposed concrete and vinyl tile flooring.

# **Building No. 3**

Year Built:	Early 1960s		
Building Area:	First Floor Penthouse	- -	8,775 sq.ft. _ <u>1,451</u> sq.ft.
	Total	-	10,226 sq.ft.

Construction Features:

One-story office and manufacturing structure with an equipment loft. Building is of manufactured metal construction with concrete slab floor; metal roof deck with elastomeric coating.

# Building No. 4

Year Built:

Building Area:

rea:	First Floor	*	16,315 sq.ft.
	Second Floor	-	16,315 sq.ft.
	Third Floor	-	16,315 sq.ft.
	Fourth Floor	-	<u>16,315</u> sq.ft.
	Total	-	65,260 sq.ft.

1981

Construction Features:

Facility is a four-story office and research building of concrete masonry block construction with steel and concrete floor and roof framing. New composition roof covering in place. Office finish is typical commercial grade, carpeting and gypsum board interior walls with suspended acoustical ceiling.

### **Building No. 5**

Year Built:

1961

Basement	-	1,500 sq.ft.
First Floor	-	14,892 sq.ft.
Main Lobby	-	929 sq.ft.
Second Floor	-	14,939 sq.ft.
Penthouse	-	<u> </u>
Total	-	33,055 sq.ft.
	First Floor Main Lobby Second Floor Penthouse	First Floor - Main Lobby - Second Floor - Penthouse -

Construction Features: Primarily a two-story office building with mechanical equipment in basement. Facility is of concrete masonry construction with cast in-place floors and roof deck. Composition roofing with elastomeric coating, typical office finishes with upgraded lobby area. Exterior walls feature aluminum and glass curtain panel windows with brick accent panels.

# ASSESSMENT INFORMATION

Background

Per Proposition 13, upon sale or transfer a property is reassessed based on the assessor's opinion of market value at that time. Parcelization and/or new construction is assessed upon completion. The maximum increase of assessed value without transfer or new construction is 2.0% annually; the current assessment is shown below.

Assessor's Identification

Book 4247, Page 001, Parcel 030

Assessed Valuation

Land	\$ 9,000,000
Improvements	3,500,000
Total	\$12,500,000

Property Taxes

\$147,080

# HIGHEST AND BEST USE

# Background

Highest and best use as presented in "The Appraisal of Real Estate," Tenth Edition,

Appraisal Institute, page 274, is defined as:

"The reasonably probable and legal use of land or sites as though vacant, found to be physically possible, appropriately supported, financially feasible, and results in the highest present land value."

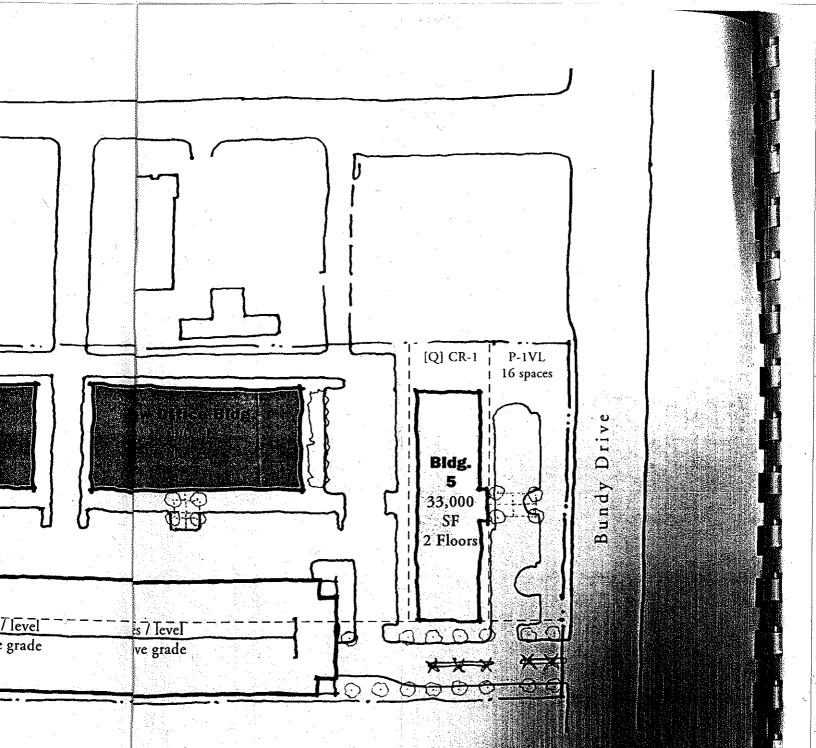
A consideration of highest and best use includes those possible uses for the land which meet the following four criteria.

1) Physically Possible

2) Legally Permissible

3) Financially Feasible

4) Maximally Productive



# Summary

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New Comn with Bldg. Total Land Area: Total Building Area: Total Provided Parking; 2

Too Balander

452.223 5000000 50000 A highest and best use analysis involves determining both the highest and best use of land or a site as though vacant and property as improved. These two terms are defined below.

#### Highest and Best Use of Land or a Site as Though Vacant

"The use of a property based on the assumption that a parcel of land is vacant or can be made vacant through demolishing of any improvements."

The physically possible uses of a parcel depend on its size, shape and terrain. The existing commercial zoning on the front parcel, as well as the industrial components to the rear with office and commercial uses to a density of 1.5 square feet of building area to every 1 square foot of land (FAR). The terrain will physically support a large masterplanned project, the market overview section clearly demonstrated the long term demand for office space recognizing there are cycles of growth and contraction. A study of the property has been prepared by Gensler Associates as to the optimum use of the property. Per their analysis, the following would be allowed under current code criteria, your attention is directed to the facing Development Scheme which closely depicts Building No. 5 as remaining.

	Squa	Bldg. to	
Zoning	Zoning Land Building		Land (FAR)
Commercial (Q) CR-1 Industrial M-1	17,400 290,000	26,100 468,000	1.5 1.6
Parking	<u>145,525</u>	-0-	<u>-0-</u>
Totals	452,925	494,100	1.1

### Highest and Best Use as Improved

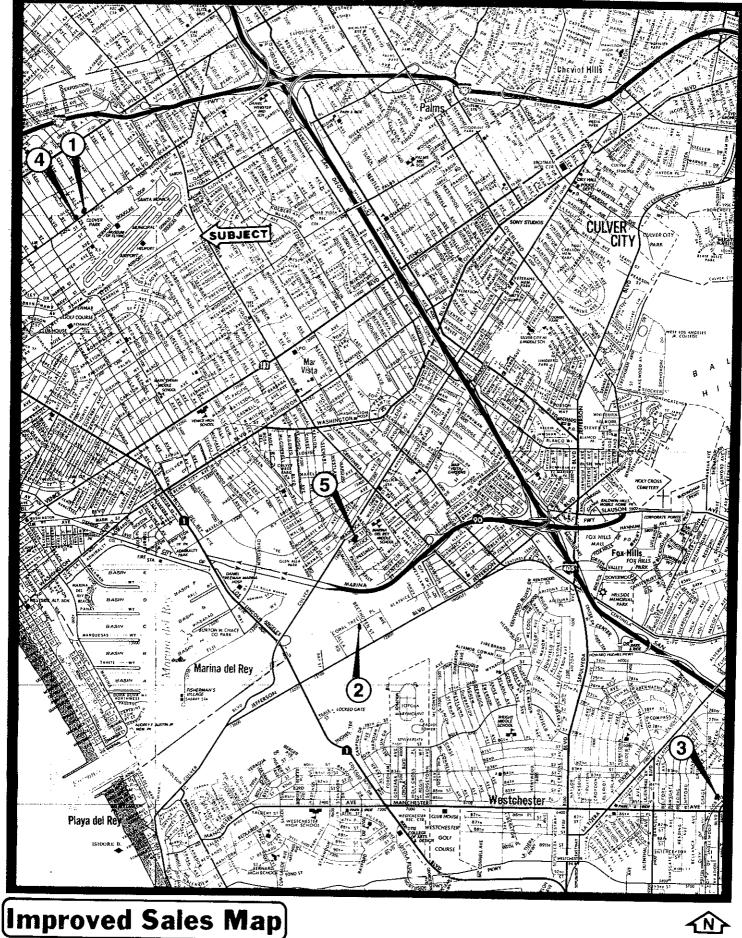
"The use that should be made of the property as it exists."

The issue at hand is whether or not the existing structures have a value over and above that of the underlying land. The commercial site will only allow 26,100 square feet to be rebuilt, the existing corporate offices (Building No. 5) contains 33,055 square feet and is in good condition, it is logical to retain this facility, this is over a 25% gain in buildable footage occupying a 3.117-acre portion of the total site.

The remaining 7.281 acres are improved with an aggregate 166,452 square foot of space (Building Nos. 1, 3 and 4), far less that the permissible 468,000 square feet. As a practical matter, market transfers uncovered indicated that improved properties of similar age on the west side are commanding prices around the \$80 per square foot level which translates to roughly \$13,300,000 "as is" or about \$28 per square fot of potential FAR. Both indexes are far below market levels as will be demonstrated in the ensuing land value analysis section.

# Optimum Usage

Building No. 5 should remain as is, the density it is improved to exceeds that allowed if recycled. The balance of the land should be redeveloped with 468,000 square feet of new office space in an integrated masterplanned project.



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# **BUILDING NO. 5 ANALYSIS**

# OFFICE BUILDING SALES

# Background

The subject office building is a low-rise structure that was constructed forty years ago, it has been maintained as a corporate facility as opposed to "back office" support or research space. The entry lobby is modern in every respect, the building has prominence on Bundy Drive. There are few structures on the Westside that have the subject features, nevertheless we have assembled office building acquisitions occurring within the past two years. The area searched ranged from Santa Monica south to Playa Vista. The sales are summarized chronologically below, they can visually found as shown on the facing map.

# Data Summary

Sale			Number of	Transfer I	Price
No.	Property Name	Bldg. Sq.Ft.	Parking Spaces		/Sq.Ft.
Date	Address	Year Built	Parking Ratio	Total	_Bldg
Subj.	BAE SYSTEMS 3171 S. Bundy Drive,	33,055	82	-	
Current	Los Angeles	1961	2.5:1		
1	Ocean Park Plaza 2701 Ocean Park Blvd.,	93,991	280	\$15,700,000	\$167.04
3/00	Santa Monica	1987	3.0:1		
2	Novocom Building 5401 Beethoven,	51,431	115	\$8,900,000	\$173.05
12/00	Playa Vista	1970	2.2:1		·
3	Citizens Watch Bldg. 8506 Osage Avenue,	55,168	98	\$5,750,000	\$104.23
12/00	Westchester	1981	1.8:1		
4	Girl Scout Building 2525 Ocean Park Blvd.,	14,100	29	\$2,640,000	\$187.23
5/01	Santa Monica	1963	2.1:1		

Sale			Number of	Transfer l	Price
No.	Property Name	Bldg. Sq.Ft.	Parking Spaces		/Sq.Ft.
Date	Address	Year Built	Parking Ratio	Total	Bldg
5	UC Regents Building 12700 Braddock Srive,	58,350	84	\$7,100,000	\$121.68
Escrow	Mar Vista	1968	1.4:1		

# **Comments**

The table above reveals a wide variation in prices paid; accordingly, details on each purchase may be found on the following individual data sheets.

#### Data No. 1

# **Identification**

Name:	Ocean Park Plaza
Address:	2701 Ocean Park Boulevard
Location:	North side of Ocean Park Boulevard, 120' west of 28 th Street, Santa Monica
Assessor's Parcel No.:	4270-014-046
Property Description	
Building Area:	93,991 square feet
Year Built:	1987
Construction:	Steel frame with stucco and glass veneer
Parking:	280 spaces or 3.0 spaces per 1,000 sq.ft.
Land Area:	1.49 acres
Bldg./Land Ratio:	1.4:1 FAR
Occupancy at Sale:	97%
Sale Information	
Sale Date:	March 31, 2000
Document No.:	0481095
Sale Price:	\$15,700,000 or \$167.04 per sq.ft.
Buyer:	Build America, LLC
Seller:	2701 Ocean Park, LLC
Financing:	Down payment of \$2,375,000 (15%); balance in conventional debt (\$13,325,000) with GE Capital

#### **Comments**

Attractive two-story office building leased on a multi-tenant basis that was 97% committed at time of purchase; average rent around \$30 per square foot annually.

#### Data No. 2

#### **Identification**

Name:	Novocom Building
Address:	5401 Beethoven Street
Location:	Southwest corner of Coral Tree Place and Beethoven Street, Playa Vista
Assessor's Parcel No.:	4211-009-007
Property Description	
Building Area:	51,431 square feet
Year Built:	1970
Construction:	Concrete tilt-up with glass inserts
Parking:	115 stalls or 2.2 spaces per 1,000 sq.ft.
Land Area:	2.06 acres
Bldg./Land Ratio:	0.8:1 FAR
Occupancy at Sale:	100%
Sale Information	
Sale Date:	December 28, 2000
Document No.:	2024283
Sale Price:	\$8,900,000 or \$173.05 per sq.ft.
Buyer:	Heidi Beethoven, LLC
Seller:	Symphony In M82, LLC
Financing:	Cash down payment of \$2,900,000 (33%), balance funded by private lender.

#### **Comments**

Average quality concret tilt up office structure that was fully leased to three tenants at time of purchase. Good corner prominence.

#### Data No. 3

#### **Identification**

Name:	Citizens Watch Building
Address:	8506 Osage Avenue
Location:	Easterly side of Osage Avenue, one lot north of Manchester Avenue, Westchester
Assessor's Parcel No.:	4127-024-025
Property Description	
Building Area:	55,168 square feet
Year Built:	1982
Construction:	Concrete tilt-up with glass inserts
Parking:	98 stalls or 1.8 spaces per 1,000 sq.ft.
Land Area:	2.14 acres
Bldg./Land Ratio:	0.6:1 FAR
Occupancy at Sale:	100%
Sale Information	
Sale Date:	December 22, 2000
Document No.:	1996937
Sale Price:	\$5,750,000 or \$104.23 per sq.ft.
Buyer:	Harcor, Inc.
Seller:	Copley West Coast, LLC

Financing: All cash purchase

#### **Comments**

One-story with partial mezzanine building that is located primarily in an industrial environment. A non-corner parcel with limited street exposure.

#### Data No. 4

#### **Identification**

Na	me:	Girl Scout Building
Ad	dress:	2525 Ocean Park Boulevard
Lo	cation:	North side of Ocean Park Boulevard, 108 feet east of 25 th Street, Santa Monica
As	sessor's Parcel No.:	4270-012-048
Proper	ty Description	
Bu	ilding Area:	14,100 square feet
Ye	ar Built:	1963
Co	nstruction:	Steel frame with glass veneer
Par	rking:	29 stalls or 2.1 spaces per 1,000 sq.ft.
La	nd Area:	0.413 acres
Blo	lg./Land Ratio:	0.8:1 FAR
Oc	cupancy at Sale:	Vacant
<u>Sale In</u>	formation	
Sal	le Date:	May 7, 2001
Do	cument No.:	0774688

Document No.:	0774688
Sale Price:	\$2,640,000 or \$187.23 per sq.ft.
Buyer:	Angeles Girl Scout Council
Seller:	James B. Wark
Financing:	All cash purchase

#### <u>Comments</u>

Attractive, two-story glass skin office building that has curb appeal despite its interior situs. The high price paid for a vacant building is a combination of location, appeal and smaller size.

#### Data No. 5

#### Identification

Name:	UC Regent Building
Address:	12700 Braddock Drive
Location:	South side of Braddock Drive, 203 feet east of McConnell Avenue, Mar Vista
Assessor's Parcel No.:	4221-029-900
Property Description	
Building Area:	58,350 square feet
Year Built:	1968
Construction:	Concrete tilt-up facility with glass inserts
Parking:	164 stalls or 2.8 spaces per 1,000 sq.ft.
Land Area:	3.51 acres
Bldg./Land Ratio:	0.4:1 FAR
Occupancy at Sale:	Vacant
Sale Information	
Sale Date:	Curernt escrow
Document No.:	Not available
Sale Price:	\$7,100,000 or \$121.68 per sq.ft.

Document No.:	Not available
Sale Price:	\$7,100,000 or \$121.68 per sq.ft.
Buyer:	Confidential
Seller:	UC Regents
Financing:	All cash purchase

#### Comments

Property is being acquired vacant and in need of interior upgrading. Buyer is a user requiring all the space on one level and a higher parking ratio.

#### VALUE DETERMINATION

The data does not produce a definite price pattern based on age (Data No. 4 at \$187 per square was highest), nor parking ratio (Data No. 3 at 1.5:1 was lowest at \$104 per square foot. It is noted that the two office buildings on nearby Ocean Boulevard (Item Nos. 1 and 4) command two of the three highest prices (\$167 and \$187 per square foot).

More important to the price obtained was the quality and appeal of the facility purchased. Sale Nos. 3 and 5 are both one-story concrete tilt-up buildings which brought the lowest prices of \$104 and \$122 per square foot, respectively. The subject should be valued above these benchmarks. Conversely, Data Nos. 1 and 4 are superior buildings that commanded higher prices above \$165 per square foot. While Data No. 2 (\$173 per square foot) is not a superior property, it was nevertheless fully leased at high rents, the subject would be purchased without long term occupants in-place.

Recognizing the construction feature of the property in question as well as its modest curb appeal, a price above \$125 per square foot is appropriate, but less than \$140. We have adopted \$130 per square foot, recognizing that Building No. 5 will be acquired for owner-occupancy.

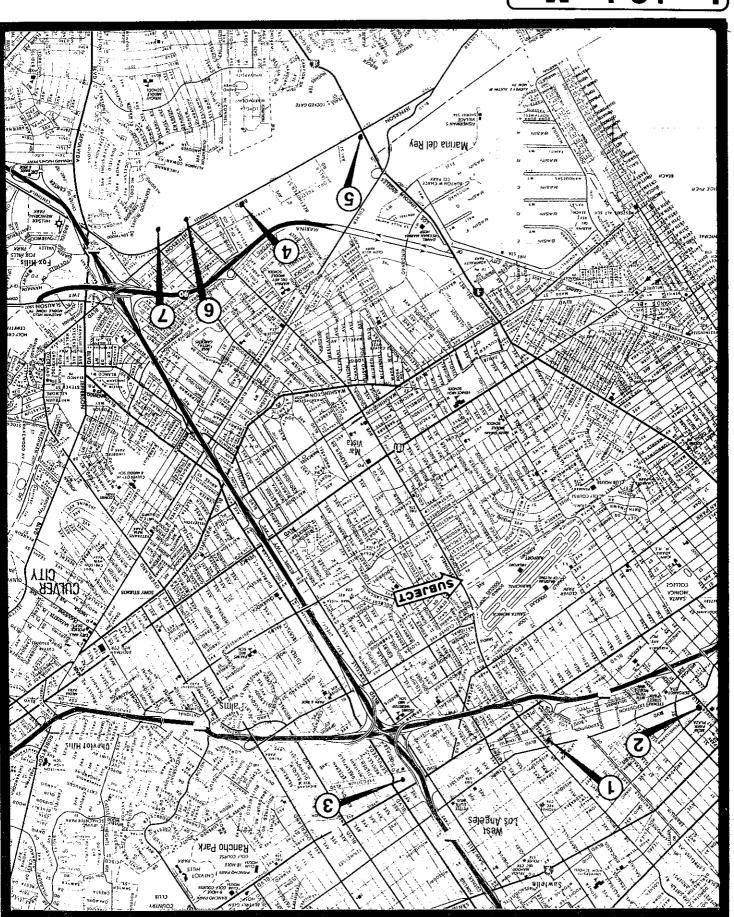
#### LAND COMPONENT ANALYSIS

#### OFFICE LAND PURCHASES

#### **Background**

The subject land available for redevelopment is positioned to the rear of Building No. 5 which would require mid-rise structures in order to gain visibility from Bundy Drive. Roughly 7.28 acres would be considered excess property after satisfying the retained Building No. 5's parking needs. The holding in question is projected by Gensler Associates to allow 468,000 square feet of new space; this translates to an overall density of 1.5:1 FAR, consistent with the existing zoning criteria. The favorable aspects of controlling a larger site is the ability to create an integrated complex of multiple office buildings with structured parking, accessed from four points of ingress and egress.

Similar to the office building data program, the area investigated ranged from Santa Monica south to Playa Vista. Recognizing that very few larger, underdeveloped parcels exist, it was necessary to cover a broader timeframe to generate sufficient market information, from 1998 todate. The sale benchmarks uncovered are listed chronologically on the ensuing page. The location of each data item is indicated on the facing Land Sales Map facing the summary on the next page. Since these parcels are purchased based on allowable density rather than price per square foot of land area, the table will indicate what the buyer paid per square foot of proposed building area (FAR). In several instances, assessment bonds are buyer assumed, they have been added to the acquisition price to ascertain the total land base the purchaser is acquiring. Detailed data sheets follow for specifics on each sale.



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# Data Summary

Sale			Proposed	Transfer	Price
No.	Property Name	Land Sq.Ft.	Bldg. Sq.Ft.		/Sq.Ft.
Date	Address	Acres	FAR	Total	Bldg. FAR
Subj. Current	W/O Bundy Drive, S/O Airport Drive Los Angeles	317,160 7.28	468,000 1.5:1		
1 1/98	SWC Olympic Blvd. and Bundy Drive, Los Angeles	281,218 6.46	384,700 1.4:1	\$23,407,000	\$60.85
2 6/98	NWC Cloverfield & Colorado blvds., Sta Monica	311,0018 7.14	600,000 1.9:1	\$39,600,000	\$66.00
3 3/99	S/S Pico Blvd., E/S I-405 Freeway, West Los Angeles	102,798 2.36	141,950 1.5:1	\$8,347,000	\$55.65
4 3/00	N/S Jefferson Blvd., 250' W/O Westlawn, Playa Vista	158,986 3.65	136,060 0.9:1	\$8,000,000	\$58.80
5 2/01	NEC Lincoln & Jefferson blvds., Playa Vista	284,447 6.53	426,000 1.5:1	\$27,050,000	\$78.52*
6 Escrow	NEC Bluff Creek & Cam- pus Center Dr., Playa Vista	991,501 22.76	1,048,521 1.1:1	\$60,735,435	\$72.95*
7 Escrow	SEC Waterfront & Campus Center drives, Playa Vista	198,177 4.55	250,000 1.3:1	\$13,750,000	\$70.02*

*Includes buyer-assumed Mello Roos obligations

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#### Data No. 1

#### Identification

Location:	Southwest corner of Olympic Boulevard and Bundy Drive, West Los Angeles	
Assessor's Parcel No.:	4259-025-003, 006, 008-010	
Property Description		
Land Area:	281,218 square feet or 6.46 acres	
Situs:	Corner property	
Shape	Rectangular	
Topography:	Level	
Zoning:	M2	
Proposed Project:	Improved with an existing 72,700 square foot two-story industrial building which has been stripped to the shell and rebuilt into creative offices. Purchaser gained approval for twin 156,000-sq.ft. office buildings on bulk of site.	
Density:	1.4:1 FAR	
Sale Information		
Sale Date:	December 17, 1997 / January 9, 1998	
Document No.:	1977001 / 0054213	
Sale Price:	\$16,000,000 + \$7,407,000 = \$23,407,000	
Price/FAR Sq.Ft.:	\$60.85	
Buyer:	Kilroy Realty	
Seller:	Southwest Leasing & Rental / Olybund, LLC	
Financing:	All cash acquisitions	

#### Comments

Buyer has reconstructed the older building, completed the first of the twin office structures with the second under construction. The single tenant (eToys Inc.) went bankrupt and did not occupy the first of the twin structures, it is currently being marketed. AT&T National Digital Television leased the rehabilitated facility.

#### Data No. 2

Identification	
Location:	Southeast corner of Colorado Avenue and Cloverdale Boulevard, Santa Monica
Assessor's Parcel No.:	4268-18-048 & 049
Property Description	
Land Area:	311,018 square feet or 7.14 acres
Situs:	Corner parcel
Shape	Irregular, wrapping around water theme
Topography:	Level
Zoning:	Commercial
Proposed Project:	Level site that was fully entitled for 600,000 square feet of office space as Phase II of Water Garden project $\bullet$
Density:	1.9:1 FAR
Sale Information	
Sale Date:	June 1, 1998
Document No.:	0922230
Sale Price:	\$39,600,000
Price/FAR Sq.Ft.:	\$66.00
Buyer:	Synder TAFC Investment, LLC
Seller:	Snyder Properties Venture, LP
Financing:	Cash transaction

#### Comments

Commonly identified as Water Gardens II, the second phase involved a transfer from one development entity to another with Jerry Snyder remaining in both. Purchase negotiated between parties with cash acquisition ensuing. A 325,000 and 275,000-square foot office building were subsequently built around existing lagoon creating an excellent office environment.

#### Data No. 3

Identification	
Location:	South side of Pico Boulevard, abutting east side of San Diego (I-405) Freeway, West Los Angeles
Assessor's Parcel No.:	4256-010-008-009 & 010
Property Description	
Land Area:	102,798 square feet or 2.36 acres
Situs:	Non-corner location
Shape	Irregular, roughly triangular
Topography:	Level
Zoning:	M2-1
Proposed Project:	Land approved for up to 150,000 square feet of office space, buyer elected to create a four-story self storage facility with 141,950 square feet of space.
Density:	1.5:1 FAR
Sale Information	
Sale Date:	March 31, 1999
Document No .:	0553270
Sale Price:	\$8,347,000
Price/FAR Sq.Ft.:	\$55.65
Buyer:	Public Storage Pickup & Delivery
Seller:	Southern Pacific Rail Corporation
Financing:	All cash transaction

#### **Comments**

Although marketed as an office site approved for up to 150,000 square feet of space, buyer elected to construct a pick-up and delivery facility designed to store containers in the four-story building on a long term basis.

	Data No. 4
Identification	
Location:	North side of Jefferson Boulevard, 253 feet west of Westlawn Avenue, Playa Vista
Assessor's Parcel No.:	4211-005-017 and 4211-009-025
Property Description	
Land Area:	158,984 square feet or 3.65 acres
Situs:	Non-corner location
Shape	Rectangular
Topography:	Level
Zoning:	M2-1
Proposed Project:	Approved for industrial, office and commercial usage, buyer constructed a four-story self-storage building that resembles an office structure; contain a gross area of 136,060 square feet.
Density:	0.9:1 FAR
Sale Information	
Sale Date:	March 2, 2000
Document No.:	Not available
Sale Price:	\$8,000,000
Price/FAR Sq.Ft.:	\$58.80
Buyer:	Public Storage Inc.
Seller:	Cressy Lopez
Financing:	All cash transaction
Comments	

Buyer elected to construct a facility that resembles a four-story office building, but is a self-storage operation.

#### Data No. 5

#### **Identification**

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<b>.</b>	
Location:	Northeast corner of Lincoln and Jefferson boulevards, Playa Vista
Assessor's Parcel No.:	4211-007-011 (portion)
Property Description	
Land Area:	284,447 square feet or 6.53 acres
Situs:	Corner parcel
Shape	Irregular, integrated with other uses
Topography:	Level
Zoning:	SP-Office
Proposed Project:	Land is entitled for 426,000 square feet of office space as part of the Playa Vista Master Plan.
Density:	1.5:1 FAR
Sale Information	
Sale Date:	February 11, 2001
Document No.:	Not available
Sale Price:	\$27,050,000
Price/FAR Sq.Ft.:	\$78.52 (including bonds assumed)
Buyer:	MacGuire/Equity Office Properties
Seller:	Playa Vista Capital
Financing:	All cash purchase

#### **Comments**

Currently under development at the full density is an office project identified as Waters Edge; no preleasing todate. Purchase price equates to \$63.50 per square foot of FAR, the Mello-Roos bonds assumed increased the land base to \$78.52.

#### Data No. 6

#### **Identification**

Location:	Northeast corner of Bluff Creek Drive and Campus Center, Playa Vista
Assessor's Parcel No.:	Not available
Property Description	
Land Area:	991,501 square feet or 22.76 acres
Situs:	Corner location
Shape	Irregular
Topography:	Level
Zoning:	SP-Office
Proposed Project:	Property has full entitlement for 991,501 square feet of office space, divided among three parcels.
Density:	1.1:1 FAR
Sale Information	
Sale Date:	Current escrow (to close by May 31, 2002)
Document No.:	Not available
Sale Price:	\$60,735,435
Price/FAR Sq.Ft.:	\$72.95
Buyer:	MacGuire Partners
Seller:	Playa Vista Capital
Financing:	All cash transaction

#### Comments

Property is in escrow to buyer with a non-refundable deposit of \$5,100,000. Property proposed for office usage, price without bonds is \$57.93 per square foot of building area, \$72.95 with bonds.

#### Data No. 7

Identification	
Location:	Southwest corner of Waterfront and Campus Center Drive, Playa Vista
Assessor's Parcel No.:	Not available
Property Description	
Land Area:	198,177 square feet or 4.55 acres
Situs:	Corner property
Shape	L-shaped
Topography:	Level at street grade
Zoning:	SP-Office
Proposed Project:	Designated as Parcel G in the Specific Plan, the four lots are approved for 250,000 square feet of office space.
Density:	1.3:1 FAR
Sale Information	
Sale Date:	Current escrow (to close before May 31, 2002)
Document No.:	Not available
Sale Price:	\$13,750,000
Price/FAR Sq.Ft .:	\$70.02 (including assessment bonds)
Buyer:	MacGuire Partners
Seller:	Playa Vista Capital
Financing:	All cash acquisition

#### **Comments**

Initially an option parcel, this site has been included in the current escrow by MacGuire Partners encompassing about 54 acres. The acquisition price equates to \$55.00 per square foot, however the buyer assumed bonds which increase the land base to \$70.02 per square foot.

#### VALUE DETERMINATION

The sales data reveals an uptrend in land acquisition prices per square foot over the fouryear period covered from roughly the \$60 per square foot mark during the 1998/99 period, to over \$70 per square foot in 2001. It is recognized that the three most recent data items related to Playa Vista, an unproven but potentially viable market; all three transactions are above the \$70.60 per square foot level.

The subject is not in Playa Vista nor does it "feed off the energy" of a highly visible, well promoted project. Conversely, the subject seven-plus acres is situated is a more conservative environment adjacent to the airport, although constrained by height limits at six stories, plus well controlled access points. Simply stated, the subject site, considered at its full density potential, should be at the more conservative end of the price range. The total square footage proposed at 468,000 square feet is not an extraordinarily high figure in light of the various properties purchased which average a similar 425,000± square feet each.

The most recent sale benchmark show an increase in FAR prices to a current \$70 to \$78 per square foot bracket. It is recognized however that all of the 2001 benchmarks are in the highly publicized Playa Vista project, a situation the subject does not benefit from. It is also acknowledged that the Westside office market has softened overall despite these high price land indexes. We have adopted a more conservative \$60 per FAR square foot for the subject for these reasons.

468,000 square feet @ \$60/sq.ft.	 \$28,080,000

Rounded To ..... \$28,100,000

#### **RECAPITULATION**

The subject holding is essentially comprised of the corporate office building plus excess land suitable for redevelopment with office space. Effectively the two are integrated in terms of access, traffic flow and potential land usage, consequently the value is the sum of the two components.

Corporate Office Building	\$ 4,300,000
Land Available for Redevelopment	28,100,000
TOTAL PROPERTY VALUE	\$32,400,000

#### **VALUATION**

As the result of our investigation and analysis, we have formed the opinion that as of November 15, 2001, the market value of the fee simple property is the sum of:

# THIRTY TWO MILLION FOUR HUNDRED THOUSAND DOLLARS (\$32,400,000)

#### LIMITING CONDITIONS

This report is made expressly subject to the following conditions and stipulations:

- 1) No responsibility is assumed by us for matters which are legal in nature.
- 2) No opinion of title is rendered and the property is appraised as though free of all encumbrances and the title marketable.
- 3) The appraisal covers the property described only.
- 4) No survey of the boundaries of the property has been made. All areas and dimensions furnished are assumed to be correct.
- 5) Sources of information are believed to be correct and, where feasible, have been verified.
- 6) By reason of this appraisal we are not required to give testimony or to be in attendance in court or at any governmental or other hearing with reference to the property without arrangements having been made relative to such addition employment.
- 7) Neither all nor any part of the contents of this report (especially any conclusions as to value, the identity of the appraisers or the firm with which they are connected, or any reference to the Appraisal Institute, or to the MAI or RM designation, shall be disseminated to the public through advertising media, public relations media, news media, sales media, or any other public means of communication without the prior written consent and approval of the author(s).
- 8) Unless otherwise stated in this report, the existence of hazardous substances, including without limitation asbestos, polychlorinated biphenyls, petroleum leakage, or agricultural chemicals, which may or may not be present on the property were not called to the attention of nor did the appraiser become aware of such during the appraiser's inspection. The appraiser has no knowledge of the existence of such materials on or in the property unless otherwise stated. The appraiser, however, is not qualified to test for such substances. The presence of such hazardous substances may affect the value of the property. The value estimated herein is predicated on the assumption that no such hazardous substances exist on or in the property or in such proximity thereto which would cause a loss in value.

#### **CERTIFICATION**

The following certification applies to the appraisal of the fee simple interest in BAE

SYSTEMS' property located adjacent to the Santa Monica Airport in West Los Angeles, California.

- o The undersigned appraiser certifies that he has personally inspected the property described herein; that he has no past, present or prospective, direct or indirect interest in or bias with respect to the subject property, nor personal interest or bias toward the parties involved.
- o The reported analyses, opinions and conclusions are limited only by the reported assumptions and limiting conditions, and are the personal, unbiased professional analyses, opinions, and conclusions of the undersigned; employment in this appraisal report is not in any manner contingent upon returning appraisal findings in any specified or implied amount or otherwise contingent upon anything other than the delivery of this report.
- o This appraisal assignment was not based upon a requested minimum valuation, a specific valuation, or the approval of a loan.
- o To the best of the appraiser's knowledge and belief, all of the statements contained herein, upon which the analyses, opinions and conclusions expressed are based, are true and accurate; that no one other than the undersigned prepared the analyses, conclusions and opinions concerning real estate set forth in this report.
- o The appraiser's analyses, opinions, and conclusions were developed and this report has been prepared in conformity with the Uniform Standards of Professional Appraisal Practice of the Appraisal Institute.

As of the date of this report, Ronald L. Buss, MAI has completed the requirements of the

continuing education program of the Appraisal Institute.

Respectfully submitted,

**BUSS-SHELGER ASSOCIATES** 

and Buse

Ronald L. Buss, MAI, CRE

# PROFESSIONAL QUALIFICATIONS OF

#### RONALD L. BUSS

#### **EXPERIENCE:**

**Buss-Shelger Associates**, Los Angeles, California (since 1984). **President**. Provides consulting, investment, valuation, advisory, brokerage and leasing services on all types of vacant and improved properties.

Landauer Associates Inc., Los Angeles, California (1975-1984). Senior Vice President. Real Estate consulting services.

Shattuck Company, Los Angeles, California (1971-1975). Real Estate Counselor and Consulting Appraiser.

State Board of Equalization, State of California (1963-1970).

# PROFESSIONAL ACTIVITIES:

Member:	Urban Land Institute, 1998
Member:	Lambda Alpha International Director, 1998
Member:	Appraisal Institute Southern California Chapter President, 1987
Member:	The Counselors of Real Estate Southern California Chapter President, 1988 National Vice President, 1996
Member:	Assessment Practices Advisory Council, Los Angeles County Assessor's Office, 1980-1986
Member:	Los Angeles Board of Realtors
Member:	California Real Estate Association
Member:	UCLA Center for Finance and Real Estate, 1993/94
Member:	National Association of Realtors
Member:	American Industrial Real Estate Association, 1999
Advisor:	Operating Engineers Pension Trust
Advisor:	Electrical Workers Pension Trust
Advisor:	Independent Directors, Irvine Apartment Communities
Investment Advisor:	United States Securities & Exchange Commission (Registered)

#### CERTIFICATION:

Currently certified under the Appraisal Institute voluntary program of continuing education for its designated members (MAIs and RMs who meet the standards of this program are awarded periodic certification).

Certified as General Real Estate Appraiser in the State of California. OREA Appraiser Certification No. AG009146

Licensed State of California Real Estate Broker

EDUCATION:

Bachelor of Science - California State Polytechnic College (1963)

Certificate in Real Estate, University of California, University Extension (1971)



# WEST COAST

ENVIRONMENTAL AND ENGINEERING

4253 Transport Street, Suite A Ventura, CA 93003 Phone 805/644-7976 Fax 805/644-5929

444 South Flower Street, 31st Floor Los Angeles, CA 90071 Phone 213/229-0075 Fax 213/229-0088

www.wcenviro.com

December 5, 2001

Santa Monica College 1900 Pico Boulevard Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: Limited Assessment of Soil and Groundwater Conditions BAE Systems - 3171 South Bundy Drive Los Angeles, California

SA210-002

Dear Dr. Donner:

As you requested, West Coast Environmental and Engineering (WCE) performed limited assessment sampling of soil and groundwater at the BAE Systems facility in Los Angeles, California (see Figure 1 for site location). WCE recommended additional evaluation of groundwater conditions underlying the facility based on our limited review of environmental documentation provided by BAE Systems. The findings of our review of the documents provided were presented in the November 27, 2001 letter report Review of Environmental Documentation, BAE Systems - 3171 South Bundy Drive, Los Angeles, California (WCE-November 2001). As indicated in WCE-November 2001, review of the documentation was performed on a rush basis in a room set aside for that purpose by BAE Systems on November 19, 2001. The scope of work performed for this assessment was also conducted on a rush basis, and in conjunction with a geotechnical investigation being performed at the facility by

Purpose and Scope of Work: The purpose of the limited assessment reported herein was to evaluate the potential for significant impacts to groundwater from facility operations, particularly with regard to the historical discharge of acidic and solvent bearing wastewater through underground drain lines and clarifiers. Potential constituents of concern included industrial solvents and metals (primarily lead and hexavalent chromium) from onsite plating operations. The scope of work attempted was limited to groundwater sampling from three borings advanced by the geotechnical investigation and collection of soil samples from one of the three borings. A total of five borings were advanced for the combined environmental/geotechnical assessment.

Methodology: Field work was conducted over the days of November 26 and 27, 2001. All borings were advanced with truck-mounted hollow stem auger (Mobile B-61) provided by C&C Drilling Company under contract to Geolabs-Westlake Village. Eight-inch augers were utilized for all borings. Borings from which environmental data was desired were advanced at locations estimated to be upgradient and downgradient of the facility's main production area (Building I),

1

### Limited Assessment of Soil and Groundwater Conditions 3171 South Bundy Drive, Los Angeles, CA

December 5, 2001

for volatile organic compounds in groundwater. Table 3 summarizes laboratory analysis for metals in both soil and groundwater and Table 4 summarizes the results of analyses for hydrocarbons and VOCs in soil.

**Discussion and Recommendations:** WCE has the following comments based on field observations of this assessment and the results of laboratory analyses of soil and groundwater samples:

- 1. The results of analysis for VOCs in the groundwater sample from boring B1 (GWV-1) indicate that perched groundwater beneath the facility has been impacted by industrial solvents. Boring B1 (GWV-1) was located in the immediate vicinity of a former hazardous materials storage area and a sewer lateral receiving effluent from the facility's active clarifier, either of which may be considered a potential source of the compounds detected.
- 2. Boring B2 (GWV-2) advanced in the vicinity of the facility's active wastewater treatment equipment/clarifier did not encounter the perched groundwater interval noted and sampled in boring B1 (GWV-1), indicating the perched interval may be discontinuous across the site. Boring B2 (GWV-2) did not encounter groundwater to the total depth explored of 114 feet bgs.
- 3. The results of analyses of soil samples from the vicinity of the wastewater treatment equipment/clarifier reported by AGM-June 2001 indicated a release has occurred in the area. The results of analyses of soil samples from the vicinity of the wastewater treatment equipment/clarifier from this assessment (boring B2) indicate the lateral extent of the release is localized to the area of the equipment/clarifier. The vertical extent of the suspected release is not considered to be fully defined. The suspected release at the clarifier is considered to be a potential threat to water quality in the underlying aquifer.

No evidence was encountered during this limited assessment to indicate environmental conditions exist that pose potential constraints to future use of the property, beyond those discussed in WCE-November 2001. However, the results of the limited assessment performed and the observations detailed above do indicate groundwater may have been impacted by facility operations. The VOCs discovered in perched groundwater at the facility (industrial solvents and their break down bi-products) are consistent with compounds known to have been used in facility processes. The extent of VOCs in perched groundwater beneath the facility is not known, but their presence does demonstrate a potential for impacts to the deeper aquifer that has not been addressed.

WCE recommends that the potential impacts to the underlying deep aquifer be addressed by sampling soils directly beneath the active wastewater treatment equipment/clarifier, at minimum. Sampling should be continued until the vertical extent of the release directly beneath the equipment is defined. If such sampling cannot be performed or the results of laboratory analyses indicate the release may be significant with respect to water quality in the deep aquifer, groundwater sampling in the deep aquifer is recommended.

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Limited Assessment of Soil and Groundwater Conditions

3171 South Bundy Drive, Los Angeles, CA December 5, 2001

Thank you for this opportunity to be of service. Please do not hesitate to contact me at (805) 644-7976 if you have any questions or need more information regarding this report

Respectfully Submitted, West Coast Environmental and Engineering

l

Lawrence Levee Staff Geologist

No. 6133 Exp. 9/05 Exp. 9/05 Free of CALIFORNIA

Peter L. Thams, C.E.G., R.E.A, Senior Geologist/Group Manager

Cc: Lee Paul, LPI Dave Sarkisian, Geolabs-Westlake Village

Limited Assessment of Soil and Groundwater Conditions 3171 South Bundy Drive, Los Angeles, CA December 5, 2001

# TABLES

West Coast Environmental and Engineering

Limited Assessment of Soil and Groundwater Conditions 3171 South Bundy Drive, Los Angeles, CA December 5, 2001

•	TPH as Diesel	<0.5	
Table 1: Groundwater Laboratory Analysis for TPH	TPH As Gasoline	0.12	mg/Kg
Table 1: Groundwater L	Sample ID	81	All results listed in mg/K

Table 2: Groundwater Sample Laboratory Analysis for VOCs

						ĺ					
Sample ID	Chloroform	1,1 DCA	1,2 DCA	1,1 DCE	cis1,2 DCE	Trans-1,2 DCE	1,2 Dichloropropa	РСЕ	1,1,1	1,1,2 TCA	TCE
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	D F	0.0	7.0	260	0.69	0.59	24.0	ЯС	u 7	÷	
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City of L.A.							1	2	7007	ŋ	5 S
PHQ	*	*	*	*	*	,					
				·			*	0.056	*	*	0
All results listed in ug/Kg.	ed in ug/Kg.										0.0
All other Volati	All other Volatile organic chemicals tested BQL (B	tested BQL	(Below Pra	ictical Ottan	Below Practical Ouantitation limits	ς,					
See laboratory	See laboratory reports presented in Appendix 2 for a list of all analytes	' Appendix ;	? for a list of	all analytes							
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Table 3: Laboratory Analysis for Metals	tory Ani	alysis for	Metals		÷												
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All results listed in mo/Ko	n ma/K									;	74.0	2	C:)/	7	<0.2	~	√10 10
The groundwater sample was filtered prior to preservation	r sampl	e was filt	ered prio	r to pres	servation				·		·						
Table 4: Total Petroleum Hvdrocomooo in Si	trola m	- Hudroon	shono in	100													

4: Lotal Petroleum Hydrocarbons in Soil B2-5 Sample ID

B2-25 ₽ <u>4</u> 4 B2-20 혼홍절 ₽ ₽ ğ ₽ ☆ st 80L VOCs Results in mg/Kg TPH gas TPH diesel

B2-15

B2-10

# West Coast Environmental and Engireering

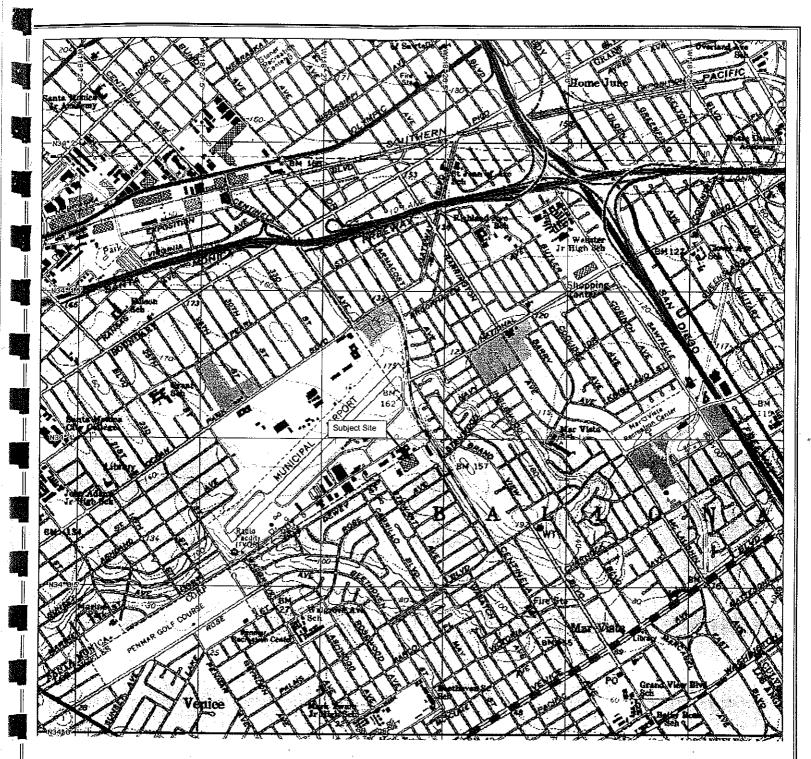
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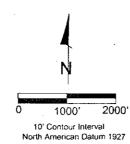
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**FIGURES** 

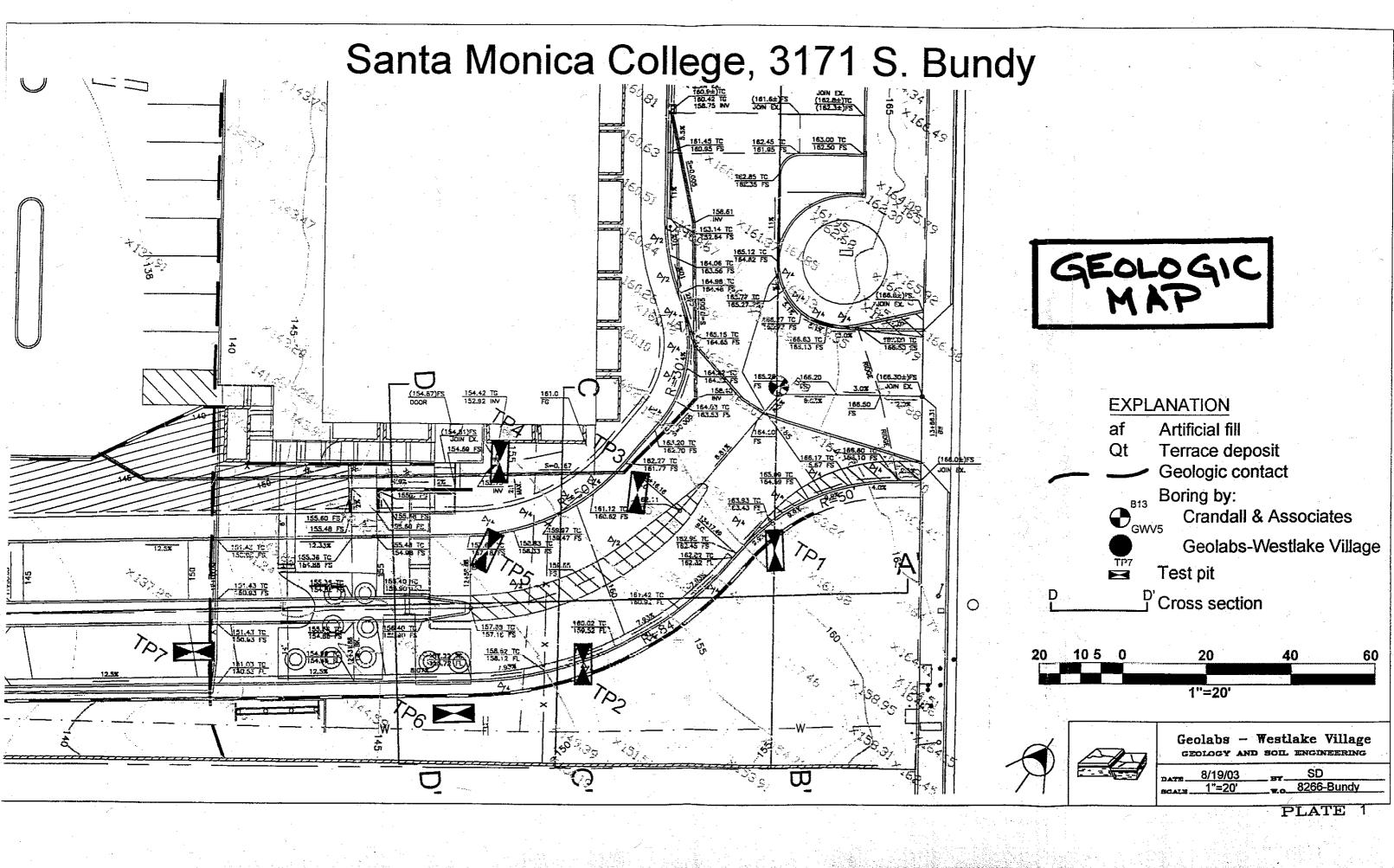


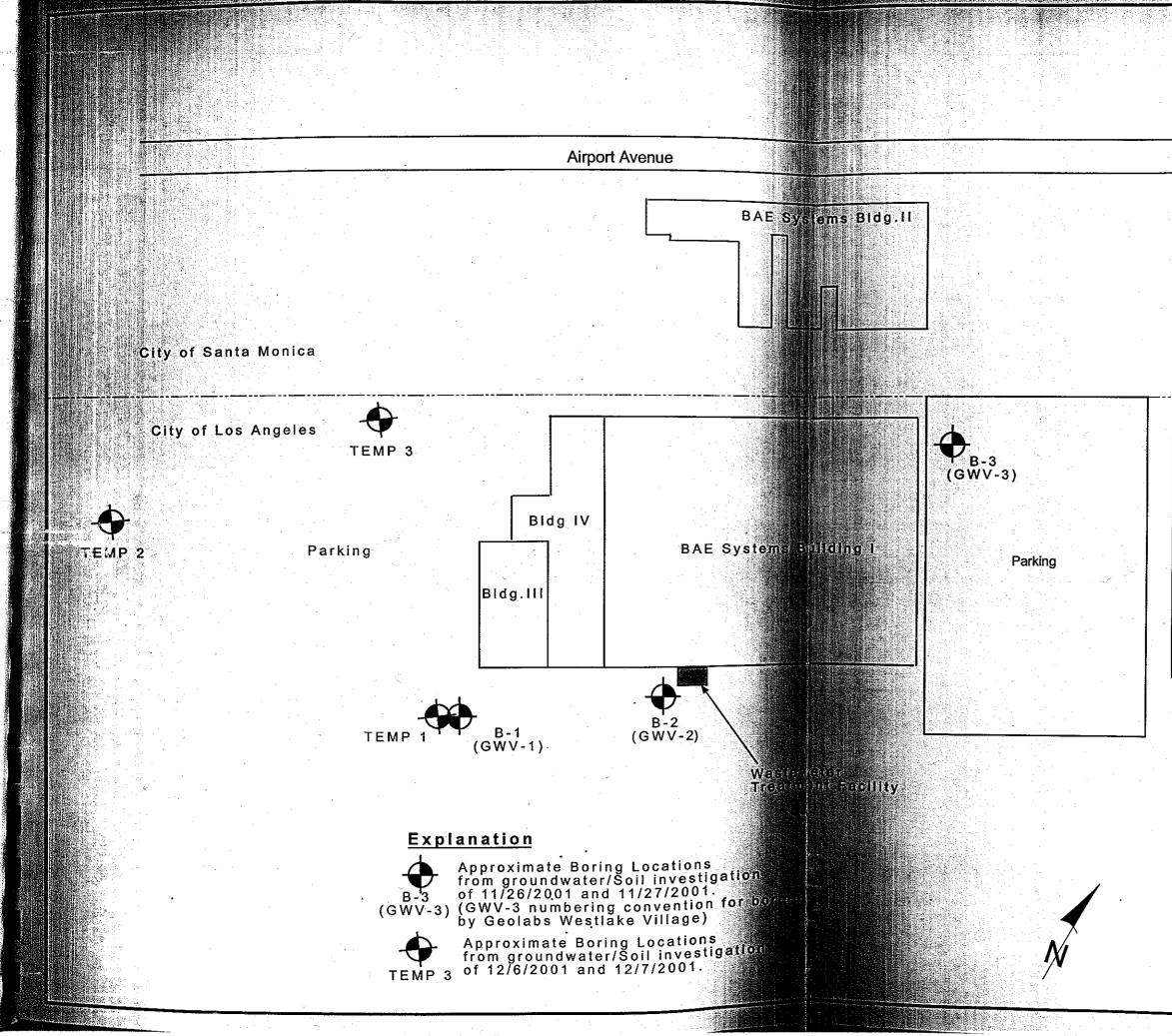
Source: Beverly Hills CA, Quadrangle 1966, Photorevised 1981 Minor Revision 1994 USGS Topographic



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PROJECT:	SA210-001			FIGURE •1
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	3A2	10_SMCC_Fig2.fh10	SCALE: Not to Scale

Limited Assessment of Soil and Groundwater Conditions 3171 South Bundy Drive, Los Angeles, CA December 5, 2001

# LAB RESULTS

SA210-BAE Systems_letter_report_Inl.doc

West Coast Environmental and Engineering

#### Capco Analytical Services Incorporated (CAS) 1536 Eastman Avenue, Suite B Ventura, CA. 93003 (805) 644-1095

Prepared For: West Coast Environmental November, 2001 4253 Transport St., Suite A Ventura, CA 93003

ATTENTION: Larry Levee

Laboratory No: 012404	Job No: B05541
Date Received: 26-NOV-01	Sampled By: Client
Project: SMCC (SA 210)	ID: See Below

#### RESULTS

On November 26, 2001 twenty-four (24) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of pages excluding the cover letter, and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
B1 to the second s	01240401
B1, B2 COMP	01240402 & 3
B2-5	01240404
B2-10	01240405
B2-15	01240406
B2-20	01240407
B2-25	01240408
B2-30	01240409
B2-35	01240410*HOLD
B2-40.	01240411*HOLD
B2-45	01240412*HOLD
	in the second

#### *HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D. Director - Analytical Operation

This report shall not be reproduced except in full without the written approval of Capco Analytical Services Inc. The test results reported represent only the items being tested and may not represent the entire material from which the sample was taken.



#### Capco Analytical Services Incorporated (CAS) 1536 Eastman Avenue, Suite B Ventura, CA. 93003 (805) 644-1095

Prepared For: West Coast Environmental November, 2001 4253 Transport St., Suite A Ventura, CA 93003

ATTENTION: Larry Levee

Laboratory No: 012404 Date Received: 26-NOV-01 Project: SMCC (SA 210)

Job No: B05541 Sampled By: Client ID: See Below

#### RESULTS

SAMPLE DESCRIPTION	<u>CAS LAB NUMBER</u>
B2-45	01240413*HOLD
B2-50	01240414*HOLD
B2-55	01240415*HOLD
B2-60	01240416*HOLD
B2-65	01240417*HOLD
B2-70	01240418*HOLD
B2-75	01240419*HOLD
B2-80	01240420*HOLD
B2-85	01240421*HOLD
B2-90	01240422*HOLD
B2-95	01240423*HOLD
B2-100	
	01240424*HOLD

#### *HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D. Director - Analytical Operation

This report shall not be reproduced except in full without the written approval of Capco Analytical Services Inc. The test results reported represent only the items being tested and may not represent the entire material from which the sample was taken.



#### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Water Analyst: AN Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
CAS Lab #: 01240401 Sample ID: B1		Date Analyzed:	11/28/01
TPH as Gasoline	0.12	1.0	0.05
CAS Lab #: 012404-MB Sample ID: Method Blank		Date Analyzed:	11/28/01
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

usca

Principal Analyst



#### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Soil

Analyst: AN Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240402 Client ID: B1, B2 Comp	I	Date Analyzed: 11/	28/01
TPH as Gasoline	BQL	· · · · · · · · · · · · · · · · · · ·	0.5
CAS Lab #: 01240404 Client ID: B2-5	1	Date Analyzed: 11/	28/01
TPH as Gasoline	BQL	·· 1	0.5
CAS Lab #: 01240405 Client ID: B2-10	Ţ	Date Analyzed: 11/	28/01
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240406 Client ID: B2-15	<b>I</b>	Date Analyzed: 11/	28/01
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

Principal Analyst



#### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Soil Analyst: AN Date Received: 11/28/01

#### TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution PQL Factor mg/Kg
CAS Lab #: 01240407 Client ID: B2-20	Date	Analyzed: 11/28/01
TPH as Gasoline	BQL	1 0.5
CAS Lab #: 01240408 Client ID: B2-25	Date	Analyzed: 11/28/01
TPH as Gasoline	BQL	1 0.5
CAS Lab #: 01240409 Client ID: B2-30	Date	Analyzed: 11/28/01
TPH as Gasoline	BQL	1 0.5
CAS Lab #: 012404-MB Client ID: Method Blank	Date	Analyzed: 11/28/01
TPH as Gasoline	BQL	1 0.5

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

5200

Principal Analyst



	apco Analytical Se 1536 Eastman Av Ventura CA (805) 644	enue, Suite B 93003	<b>.</b>	- -
Client: West Coas Lab ID: 012404 Matrix: Water	t Environmental	Anal Date Recei	yst: J ved: 1	
	TOTAL PETROLEUM EPA METHOD			
Compound	Concentration mg/L		PQL mg/L	Surrogate % Rec.
CAS Lab #: 012404 Client ID: B1	01	Date Extra Date Anal		
TPH - Diesel	BQL	1.0	0.5	69
CAS Lab #: 012404 Client ID: Method		Date Extra Date Anal		
TPH - Diesel	BQL	1.0	0.5	67

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

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Client: West Coast Environmental Lab ID: 012404 Matrix: Soil Analyst: JD Date Received: 11/26/01

### TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

			-			
Compound	Concentrati mg/Kg	Fa	lution actor	PQL mg/Kg	% Rec	
CAS Lab #: 01240402 Client ID: B1, B2 Co			Date Ext: Date Ana	racted:		
TPH as Diesel	BQL	1.0		10	71	
CAS Lab #: 01240404 Client ID: B2-5			Date Ext: Date An		11/26/01 11/26/01	
TPH as Diesel	BQL	1.0		10	74	J
CAS Lab #: 01240405 Client ID: B2-10		۰ ۱			11/26/01 11/27/01	
TPH as Diesel	BQL	1.0		10	73	
CAS Lab #: 01240406 Client ID: B2-15			Date Ext: Date An		11/26/01 11/27/01	
TPH as Diesel	BQL	1.0		10	67	
CAS Lab #: 01240407 Client ID: B2-20			Date Ext Date An		11/26/01 11/27/01	
TPH as Diesel	BQL	1.0	ананан алар алар алар алар алар алар ала	10	75	
Surrogate: n-Undeca Surrogate Control 1 PQL: Practical Quan	Limits: 57 -			`		

BQL: Below Practical Quantitation Limit

Analytical Services, Inc. Principal Analyst

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Client: West Coast Environmental Lab ID: 012404 Date Matrix: Soil

## Analyst: JD Date Received: 11/26/01

## TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor		rogate Rec.
CAS Lab #: 01240408 Client ID: B2-25			racted: 11/26 alyzed: 11/27	
TPH as Diesel	BQL	1.0	10 66	-
CAS Lab #: 01240409 Client ID: B2-30			racted: 11/26 alyzed: 11/27	
TPH as Diesel	BQL	1.0	10 83	
CAS Lab #: 012404-M Client ID: Method B	· .		racted: 11/26 alyzed: 11/26	
TPH as Diesel	BQL	1.0	10 65	

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

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Client: West Coast Environ Sample ID: B1 CAS LAB NO: 01240401 Date Received: 11/26/01 Date Sampled: 11/26/01	mental		Samp Date	Analyzed: Analyst: ole Matrix: Extracted: me Sampled:	AN Wate N/A	er
		ANIC COM thod 8260				
Compound		ntration g/L		Dilution Factor		PQL ug/
Benzene Bromobenzene	****	BQL			=====	0. 0.
Bromochloromethane		BQL BQL		1		0.
Bromodichloromethane		BQL		ц Ц		1.
Bromoform		BQL		1		1.
Bromomethane		BQL	•	1		0.
N-Butylbenzene	• •	BQL		1		<i>0</i> .
sec-Butylbenzene		BQL		1		ö.
tert-Butylbenzene		BQL		1		ő.
Carbon tetrachloride		BQL	* <del>-</del>	1		ō.
Chlorobenzene		BQL		1		ı.
Chloroethane		BQL		1		1.
Chloroform		4.0	1. A.	ī		ī.
Chloromethane		BQL	<b>.</b> .	1		ō.
2-Chlorotoluene		BQL		1		0.
4-Chlorotoluene		BQL		1		Ō.
1,2-Dibromo-3-chloropropan	e	BQL		ī	· .	5.
1,2-Dibromoethane		BQL		1		ō.
Dibromochloromethane		BQL .		1		1.
Dibromomethane		BQL		1		0.
1,2-Dichlorobenzene	. •	BQL		1		0.
1,3-Dichlorobenzene		BQL		1		Ο.
1,4-Dichlorobenzene		BQL	•	1		1.
Dichlorodifluoromethane		BQL		1		0.
1,1-Dichloroethane		8.0		1		0.
1,2-Dichloroethane		6.2		1		1.
1,1-Dichloroethene		260		1		0.
cis-1,2-Dichloroethene	4	0.69		1		0.
trans-1,2-Dichloroethene		0.59		1		0.
1,2-Dichloropropane		24	1	1		0.
1,3-Dichloropropane		BQL		1		1.
2,2-Dichloropropane	14. 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	BQL		1		0.
1,1-Dichloropropene		BQL		- 1		0.

Principal Analyst



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Client: West Coast Environmental Sample ID: B1 CAS LAB NO: 01240401 Date Received: 11/26/01 Date Sampled: 11/26/01

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Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroflouromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		1.0 0.5 0.5 2.0 1.0 1.0 0.5 1.0 0.5 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Total Xylenes MTBE	BQL BQL	1	5.0

#### SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits
Dibromofluoromethane	89	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

here Principal Analyst



1536 1	lytical Services Eastman Avenue, S Ventura CA 93003 (805) 644-1095 mmental	uite B	N
VOLAT	ILE ORGANIC COMPO EPA Method 8260B		
Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropar 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		$\begin{array}{c} 0.5\\ 0.5\\ 0.5\\ 1.0\\ 1.0\\ 1.0\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0$

Principal Analyst

A P C O Analytical Services, Inc.

Client: West Coast Environmental Sample ID: Method Blank CAS LAB NO: 012404-MB

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# Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: MB for Liquid

VOLA	TILE ORGANIC COMPOUNI	DS	
EPA	Method 8260 continue	ed	
Compound	Concentration	Dilution	PQL
	ug/L	Factor	ug/L
Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroflouromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride Total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		1.0 0.5 0.5 2.0 1.0 1.0 0.5 1.0 0.5 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

# SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits
Dibromofluoromethane	88	86-118%
Toluene-d8	93	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit



1536 Eastman Avenue, Suite B	
Ventura CA 93003	
(805) 644-1095	

Client, West Const Englisher 1		
Client: West Coast Environmental	Date Analyzed: 11/28/01	
Sample ID: B1, B2 Comp	· · · · ·	
	Analyst: AN	
CAS LAB NO: 01240402	Sample Matrix: Soil	
Date Received: 11/26/01		
	Date Extracted: N/A	
Date Sampled: 11/26/01		
bace bampied. II/20/01	Time Sampled: 1020	

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A P C O Analytical Services, Inc.

# VOLATILE ORGANIC COMPOUNDS EPA Method 8260B

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chlorotoluene 4-Chlorotoluene Chlorotoluene 4-Chlorotoluene Chlorodibromomethane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2,2-Dichloropropane 2,2-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

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Client: West Coast Environmental Sample ID: B1, B2 Comp CAS LAB NO: 01240402 Date Received: 11/26/01 Date Sampled: 11/26/01

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,4-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	91	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

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COAnalytical Services, Inc.

Client: West Coast Environment	$\overline{al}$
Sample ID: B2-5	
CAS LAB NO: 01240404	
Date Received: 11/26/01	
Date Sampled: 11/26/01	

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

# VOLATILE ORGANIC COMPOUNDS EPA Method 8260B

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene Chlorotoluene 4-Chlorotoluene Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Principal Analyst



Client: West Coast Environmental Sample ID: B2-5 CAS LAB NO: 01240404 Date Received: 11/26/01 Date Sampled: 11/26/01

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Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

		()			·
	Compound	Concentration ug/Kg	· ·	Dilution Factor	PQL ug/Kg
	1,1-Dichloropropene	BQL		======================================	=======================================
	Ethylbenzene	BQL	-	1	5
	Hexachlorobutadiene	BQL		1	5
	Isopropylbenzene	BQL		· 1	5
	p-Isopropyltoluene	BQL		1.	5
	Methylene Chloride	BQL		1	5
	Napthalene	BQL		1	5
•	N-Propylbenzene	BQL		1	5
	Styrene	BQL		1	5
	1,1,1,2-Tetrachloroethane	BQL		1	5
	1,1,2,2-Tetrachloroethane	BQL		1	5
	Tetrachloroethene	BQL		1	10
	Toluene	BQL		1	5
÷	1,2,3-Trichlorobenzene	BQL	•	1	5
	1,2,4-Trichlorobenzene	BQL		1	5
	1,1,1-Trichloroethane	BQL		1	5
	1,1,2-Trichloroethane	BQL		1	· 10 ·
	Trichloroethylene	BQL		1	5
	Trichlorofluoromethane	BQL		1	-5
	1,2,3-Trichloropropane	BQL		1	5
	1,2,4-Trimethylbenzene	BQL		- 1	5
	1,3,5-Trimethylbenzene	BQL		1	5
	Vinyl Chloride	BQL		1 .	5
	total Xylenes	BQL		1	10
	MTBE	BQL		1	5
		· · · · · · · · · · · · · · · · · · ·			<b>4</b>

#### SURROGATE RECOVERY

Surrogate		<pre>% Recovery</pre>	Control Limits
	Dibromofluoromethane	91	80-120%
	Toluene-d8	100	81-117%
	4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

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CO🖌 Analytical Services, Inc.

1536	alytical Ser Eastman Ave Ventura CA (805) 644-	nue, 9 93003	Suite 🔅	(CAS) B		
Client: West Coast Enviro Sample ID: B2-10 CAS LAB NO: 01240405 Date Received: 11/26/01 Date Sampled: 11/26/01	onmental		Sampi Date J	Analyzed: Analyst: le Matrix: Extracted: e Sampled:	AN Soil N/A	8/01
VOLAT	ILE ORGANIC EPA Method			· · · · · · · · · · · · · · · · · · ·		
Compound	Concentrat ug/Kg	cion		Dilution Factor		PQL ug/Ka
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane N-Butylbenzene sec-Butylbenzene carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene Chlorotoluene 4-Chlorotoluene Chlorotoluene (chlorotoluene Chlorotoluene (chlorotoluene 1,2-Dibromo-3-chloropropar 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane (EDC) 1,1-Dichloroethane (EDC) 1,1-Dichloroethane (EDC) 1,1-Dichloroethane (EDC) 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2,2-Dichloropropane 2,2-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL					55555555555555555555555555555555555555

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Principal Analyst



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Client: West Coast Environmental Sample ID: B2-10 CAS LAB NO: 01240405 Date Received: 11/26/01 Date Sampled: 11/26/01

#### Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

# VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,4-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	98	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



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alient Meet a	Ventura CA 9300 (805) 644-1095		
Client: West Coast Enviror Sample ID: B2-15 CAS LAB NO: 01240406 Date Received: 11/26/01	mental	Date Analyzed: Analyst: Sample Matrix: Date Extracted:	AN Soil N/A
Date Sampled: 11/26/01		Time Sampled:	1020
VOLATI	LE ORGANIC COMP EPA Method 8260		·····
	EPA Method 8260	B	
Compound	Concentration	Dilution	PQL
Compound	ug/Kg	Factor	ug/K
Benzene		=======================================	-============
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	<u>1</u>	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1.	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5 5 5 5 5 5 5 5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	
Chloroethane	BQL	1	10
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	<b>1</b>	5 5 5 5 5 5 5
4-Chlorotoluene	BQL	1	5
4-Chiorotoluene	BQL	1	5
Chlorodibromomethane	BQL	· · · 1	5
1,2-Dibromo-3-chloropropane		1	10
1,2-Dibromoethane (EDB)	BQL	1	· [^] 5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5.
1,3-Dichlorobenzene	BQL	· 1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5 5 5 5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	. —	

Principal Analyst



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Client: West Coast Environmental Sample ID: B2-15 CAS LAB NO: 01240406 Date Received: 11/26/01 Date Sampled: 11/26/01

#### Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

# VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

## SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits
Dibromofluoromethane	85	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	87	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



Client: West Coast Enviro Sample ID: B2-20 CAS LAB NO: 01240407 Date Received: 11/26/01 Date Sampled: 11/26/01		Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Soil N/A
VOLAT	ILE ORGANIC COMP EPA Method 8260		<u></u>
Compound	Concentration ug/Kg	Dilution	PQI
		Factor	ug/H
Benzene	BQL	1	
Bromobenzene	BQL	1	
Bromochloromethane	BQL	1	
Bromodichloromethane	BQL	1	
Bromoform	BQL	1	
Bromomethane	BQL	1	Ľ
N-Butylbenzene	BQL	1	Ē
sec-Butylbenzene	BQL		-
tert-Butylbenzene	BQL	1	
Carbon Tetrachloride	BQL	1	
Chlorobenzene	BQL	1	10
Chloroethane	BQL		5
Chloroform	BQL	1	5
Chloromethane	BQL	· · · · ·	_ 6
2-Chlorotoluene	BQL	· · · · · · · · · · · · · · · · · · ·	
4-Chlorotoluene	BQL		
Chlorodibromomethane	BQL		5
1,2-Dibromo-3-chloropropan	ne BQL	1	10
1,2-Dibromoethane (EDB)	BQL		5
Dibromomethane	BQL	1	
1,2-Dichlorobenzene	BQL		· · · ·
1,3-Dichlorobenzene	BQL		5
1,4-Dichlorobenzene	BQL		5
Dichlorodifluoromethane	BQL		
1,1-Dichloroethane	BQL	1 -	
1,2-Dichloroethane (EDC)	BQL	1	5 5 5 5 5 5
1,1-Dichloroethene			5
cis-1,2-Dichloroethene	BQL	L 7	
trans-1,2-Dichloroethene	BQL	1 -	5
1,2-Dichloropropane	BQL	<u>1</u>	5
1,3-Dichloropropane	BQL BQL	1	5
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Principal Analyst



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Client: West Coast Environmental Sample ID: B2-20 CAS LAB NO: 01240407 Date Received: 11/26/01 Date Sampled: 11/26/01

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration/	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene p-Isopropyltoluene	BQL BQL	1	5
Methylene Chloride Napthalene	BQL	1	5
N-Propylbenzene	BQL BQL	1 1	5 5 5 5 5 5 5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene 1,2,3-Trichlorobenzene	BQL BQL	1 1	5 5 5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL		5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL –		5
Trichlorofluoromethane	BQL	1	5 · · · · 5 · ·
1,2,3-Trichloropropane	BQL	1	
1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	BQL BQL	1	5
Vinyl Chloride	BQL	<b>1</b>	5
total Xylenes	BQL		10
MTBE	BQL	1	5

#### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	84	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analytical Services, Inc.

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Capco Analytical Services INC. (CAS)				
1536 Eastman Avenue, Suite B Ventura CA 93003				
	(805) 644-1095			
	,			
Client: West Coast Enviro	nmental	Date Analyzed:	11/28/01	
Sample ID: B2-25		Analyst:		
CAS LAB NO: 01240408		Sample Matrix:		
Date Received: 11/26/01		Date Extracted:		
Date Sampled: 11/26/01	•	Time Sampled:	1020	
VOLAT	ILE ORGANIC COMP			
	EPA Method 8260	· B		
	Concentration	Dilution	PQL	
Compound	ug/Kg	Factor	ug/Kg	
	=======================================			
Benzene	BQL	1	5	
Bromobenzene Bromochloromethane	BQL	1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Bromochioromethane Bromodichloromethane	BQL	1	5	
Bromoform	BQL	1	5	
Bromomethane	BQL	1	5	
N-Butylbenzene	BQL	1	. 5	
sec-Butylbenzene	BQL	<u>1</u>	5	
tert-Butylbenzene	BQL	<u> </u>	. 5	
Carbon Tetrachloride	BQL BQL	· L	5	
Chlorobenzene	BQL		5	
Chloroethane	BQL	· · · · · · · · · · · · · · · · · · ·	10	
Chloroform		1	5	
Chloromethane	- BQL	1 1	5 5 5	
2-Chlorotoluene	BQL	1	5	
4-Chlorotoluene	BQL	1	5	
Chlorodibromomethane	BQL	- 1	5	
1,2-Dibromo-3-chloropropar	ne BQL	· 1	10	
1,2-Dibromoethane (EDB)	BQL	<b>–</b> 1		
Dibromomethane	BQL	1	5 5	
1,2-Dichlorobenzene	BQL	·	5	
1,3-Dichlorobenzene	BQL	ī	5	
1,4-Dichlorobenzene	BQL	ĩ		
Dichlorodifluoromethane	BQL	ī	5 5 5	
1,1-Dichloroethane	BQL	- <b>1</b>	5	
1,2-Dichloroethane (EDC)	BQL	1	5	
1,1-Dichloroethene	BQL	1	5	
cis-1,2-Dichloroethene	BQL	1	5	
trans-1,2-Dichloroethene	BQL	1	5	
1,2-Dichloropropane	BQL	1	5	
1,3-Dichloropropane	BQL	1	5	
2,2-Dichloropropane	BQL	1. · · · · · · · · · · · · · · · · · · ·	5 -	

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Analytical Services, Inc.

cheer Principal Analyst

Client: West Coast Environmental Sample ID: B2-25 CAS LAB NO: 01240408 Date Received: 11/26/01 Date Sampled: 11/26/01

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

## VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

#### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	81	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	95	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

> Analytical Services, Inc.

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Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095				
Client: West Coast Envir Sample ID: B2-30 CAS LAB NO: 01240409 Date Received: 11/26/01 Date Sampled: 11/26/01		•	Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Soil N/A
VOLA	TILE ORGANIC EPA Method			· · ·
Compound	Concentra ug/Kg		Dilution Factor	PQL ug/Kg
Benzene	BQL	=====:	 1	=======================================
Bromobenzene	BQL		1	
Bromochloromethane	BQL		1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Bromodichloromethane	BQL		: 1	- 5
Bromoform	BQL		1	5
Bromomethane	BQL		1	Š.
N-Butylbenzene	BQL		<u> </u>	~ Š
sec-Butylbenzene	BQL		ī	5
tert-Butylbenzene	BQL		1	, S
Carbon Tetrachloride	BQL		·	5
Chlorobenzene	BQL		ī	10
Chloroethane	BQL		ī	5
Chloroform	BQL		· 1	5
Chloromethane	BQL		1	5 5 5 5
2-Chlorotoluene	BQL		1	5
4-Chlorotoluene	BQL		<b>1</b>	5
Chlorodibromomethane	BOT		. 1	5
1,2-Dibromo-3-chloropropa	ne BQL		ī	10
1,2-Dibromoethane (EDB)	BQL		· <u>1</u>	
Dibromomethane	BQL		· 1	5
1,2-Dichlorobenzene	BQL		ī	5
1,3-Dichlorobenzene	BQL		1 - I	·5
1,4-Dichlorobenzene	BQL		1	5.1
Dichlorodifluoromethane	BQL		1	5
1,1-Dichloroethane	BQL		1	5
1,2-Dichloroethane (EDC)	BQL		1	5
1,1-Dichloroethene	BQL		ī	5
cis-1,2-Dichloroethene	BQL	•	1	5
trans-1,2-Dichloroethene	BQL		ī	5
1,2-Dichloronronane	BQL		- 1	5
1,3-Dichloropropane	BQL		1	5
2,2-Dichloropropane	BQL		1	5

se er Principal Analyst

Analytical Services, Inc.

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Client: West Coast Environmental Sample ID: B2-30 CAS LAB NO: 01240409 Date Received: 11/26/01 Date Sampled: 11/26/01

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Date Analyzed:	11/28/01
Analyst:	
Sample Matrix:	Soil
Date Extracted:	N/A
Time Sampled:	1020

## VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloropena i,2,4-Trichloropena 1,2,4-Trichloropena 1,2,5-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	102	81-117%
4-Bromofluorobenzene	92	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

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Analytical Services, Inc.

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Principal Analyst

MONATO ANATVOTO

Client: West Coast Environmental	Sample Matrix: Water
Sample ID: B 1	CAS LAB NO: 01240401
Date Received: 11/26/01	Date Analyzed: 11/28/01 &
Date Sampled: 11/26/01	11/29/01

CAM 17

		CAM	17 METALS	ANALYSI	5		
· · ·	· · · · ·	TTLC		STLC	CAM LIN		• • •
	TTLC	PQL	STLC	PQL	TTLC	STLC	EPA
METALS	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	- 5	206.2
Barium	BQL	0.06	•		10000	100	200.7
Beryllium	BQL	0.1		(°	75	0.75	200.7
Cadmium	BQL	0.03	··· .	· · · ·	100	1	200.7
Chromium	BQL	0.04	• •		2500	560	200.7
Cobalt	BQL	0.05	j.		8000	80	200.7
Copper	0.030	0.03			2500	25	200.7
Lead	BQL	0.09		·	1000	5	200.7
Mercury	BQL	0.0005		• • •	20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1.	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	0.23	0.07			2400	24	200.7
Zinc	BQL	0.06		•	5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



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Client: West Coast Environmental Sample ID: Method Blank

Sample Matrix: MB for Liquid CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

	METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIN TTLC (mg/L)	IITS STLC (mg/L)	EPA METHOD
	Antimony	BQL	0.1			500	15	200.7
	Arsenic	BQL	0.03			500	.5	206.2
	Barium	BQL	0.06			10000	100	200.7
	Beryllium	BQL	0.1	- • .	· · · ·	75	0.75	200.7
	Cadmium	BQL	0.03			100	1	200.7
	Chromium	BQL	0.04			2500	560	200.7
	Cobalt	BQL	0.05			8000	80	200.7
	Copper	BQL	0.03			2500	25	200.7
	Lead	BQL	0.09	· · · ·		1000	5	200.7
	Mercury	BQL	0.0005			20	0.2	245.1
	Molybdenum	BQL	0.08		-	3500	350	200.7
	Nickel	BQL	0.08			2000	20	200.7
	Selenium	BQL	0.01			100	1	270.2
	Silver	BQL	0.06	•		500	5	200.7
	Thallium	BQL	0.2			700	7	200.7
:	Vanadium	BQL	0.07			2400	24	200.7
	Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

 $C(\mathbf{O})$ Analytical Services, Inc.

Client: West Coast Environmental	Sample Matrix:	Water
Sample ID: B1	CAS LAB NO:	01240401
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01	- 	11/27/01

### CAM 17 METALS ANALYSIS

		TTLC		STLC	CAM LIN	AITS	·
	TTLC	PQL	STLC	PQL	TTLC ·	STLC	EPA
METALS	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	METHOD
Antimony	BQL	0.1	• •• •• •• • • • • • • •		500	15	200.7
Arsenic	0.11	0.03	-		500	5	206.2
Barium	3.9	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	0.04	0.03			100	1	200.7
Chromium	0.96	0.04			2500 .	560	200.7
Cobalt	0.50	0.05			8000	80	200.7
Copper	0.94	0.03			2500	25	200.7_
Lead	0.26	0.09			1000	5	200.7
Mercury	BQL	0.0005		/	20	0.2	245.1
Molybdenum	BQL	0.08	*		3500	350	200.7
Nickel	0.75	0.08			2000	20	200.7
Selenium	BQL	0.01		•	100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	0.7	0.2			700	7	200.7
Vanadium	1.7	0.07			2400	24	200.7
Zinc	2.9	0.06	4		5000	250	200.7
							1

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analytical Services, Inc.

Principal Analyst

Client: West Coast Environmental	Sample Matrix: Soil	-
Sample ID: B1,B2 Comp	CAS LAB NO: 01240402,	3
Date Received: 11/26/01	Date Analyzed: 11/26/01-	
Date Sampled: 11/26/01	11/27/01	

		CAM	17 METALS	ANALYSIS		,	
		TTLC		STLC	CAM LIM	IITS	
	TTLC	PQL	STLC	PQL	TTLC	$\operatorname{STLC}$	EPA
METALS	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/L)	(mg/Kg)	(mg/L)	METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.9	0.5			500	5	7060
Barium	58	10		· ·	10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	46	9		1. S.	2500	560	6010
Cobalt	BQL	10	·		8000	80	6010
Copper	BQL	10		-	2500	25	6010
Lead	2.6	0.6		· .	1000	5	7421
Mercury	BQL	0.1		<b>-</b> .	20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	10	10	* . <i>0</i>		2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2	•		500	- 5	6010
Thallium	BQL	0.2			. 700	7	7841
Vanadium	16	7		. •	2400	24	6010
Zinc	28	10			5000	250	6010
			· · ·				-

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



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Client: West Coast Environmental	Sample Matrix: Soil
Sample ID: B2-5	CAS LAB NO: 01240404
Date Received: 11/26/01	Date Analyzed: 11/26/01-
Date Sampled: 11/26/01	11/27/01

· · · · · · · · · · · · · · · · ·		CAM	17 METALS	ANALYSIS			
		TTLC		STLC	CAM LIM	ITS	
	TTLC	PQL	STLC	PQL	TTLC	STLC	EPA
METALS	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/L)	(mg/Kg)	(mg/L)	METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.8	0.5			500	5	7060
Barium	67	10			10000	100	6010
Beryllium	BQL	0.8	Ϋ́ Υ		75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	12	9			2500	560	6010
Cobalt	BQL	10	•		8000	80	6010
Copper	BQL	10 -			2500	25	6010
Lead	3.6	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20	•		3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5		м. - С	100	· İ	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	23	7			2400	24	6010
Zinc	22	10			5000	250	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst **`** 

ΡСΟ Analytical Services, Inc.

Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-10	CAS LAB NO:	01240405
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01	<i>(</i>	11/27/01

### CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	IITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8	· · · ·		500	15	6010
Arsenic	2.2	0.5			500	5	7060
Barium	42	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	. 1	·		100	1	6010
Chromium	13	9	•		2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10		· .	2500	25	6010
Lead	2.8	0.6		· · ·	1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5		· ·	100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	20	7			2400	24	6010
Zinc	21	10			5000	250	6010
						·.	v

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

. Principal Analyst



Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-15	CAS LAB NO:	01240406
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01

### CAM 17 METALS ANALYSIS

MEI	TALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	STLC	EPA METHOD	
Ant	imony	BQL	8	· · · · · · · · · · · · · · · · · · ·		500	15	6010	
Ars	senic	3.8	0.5	· · · ·	· · ·	500	5	7060	
Bar	ium	34	10	•		10000	100	6010	
Ber	yllium	BQL	0.8			75	0.75	6010	
Cad	lmium	BQL	1	· .		100	1	6010	
Chr	omium	16	9			2500	560	6010	
Cob	alt	BQL	10			8000	80	6010	
Cop	per	BQL	10	•		2500	25	6010	
Lea	ıd	2.8	0.6			1000	5	7421	
Mer	cury	BQL	0.1			20	0.2	7471	
Mol	ybdenum	BQL	20			3500	350	6010	•
Nic	kel	BQL	10			2000	20	6010	
Sel	.enium	BQL	0.5			100	1	7740	
Sil	ver	BQL	2		1 - A	500	5	6010	÷
. Tha	llium	BQL	0.2			700	7	7841	
Van	adium	21	7			2400	24	6010	
Zin	lC -	19	10			5000	250	6010	
		1.1			1				

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analytical Services, Inc.

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Principal Analyst

Capco Ana	alytical	Services	S INC.	(CAS)
1536	Eastman	Avenue,	Suite	В
·	Ventura	CA 9300	)3	
	(805) (	544-1095		

Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-20	CAS LAB NO:	01240407
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01

## CAM 17 METALS ANALYSIS

	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver Thallium Vanadium	BQL 1.0 15 BQL BQL BQL 2.1 BQL BQL BQL BQL BQL BQL BQL	8 0.5 10 0.8 1 9 10 10 0.6 0.1 20 10 0.5 2 0.2			500 500 10000 75 100 2500 8000 2500 1000 20 3500 2000 100 500 700	15 5 100 0.75 1 560 80 25 5 0.2 350 20 1 5 7 24	6010 7060 6010 6010 6010 6010 6010 7421 7471 6010 6010 7740 6010 7841 6010
Zinc	7.0 12	7 10			2400 5000	250	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



Client: We Sample ID: Date Recei Date Sampl	ved: 11/2	6/01	ntal		ample Matr CAS LAB ate Analyz	NO: 0124 ed: 11/2	10408
<u></u>	······	CAM	17 METALS	ANALYSIS	3		
METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	IITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.6	0.5			500	5	7060
Barium	27	10	· ·		10000	100	6010
Beryllium Cadmium	BQL	0.8	•		75	0.75	6010
Chromium	BQL	1			100	1	6010
Cobalt	BQL BQL	9		· · ·	2500	560	6010
Copper	BQL	10 10	<u></u>		8000	80	6010
Lead	1.3	0.6	х - с		2500	25	6010
Mercury	BQL	0.8			1000	5	7421
Molybdenum	BQL	20	•		20	0.2	7471
Nickel	BQL	10			3500 2000	350 20	6010
Selenium	BQL	0.5	Ъ.		100	20	6010 7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	8.0	7	· · · ·		2400	24	6010
vanaurum	0.0	1			2400		5010

BQL: Below Practical Quantitation Limit PQL; Practical Quantitation Limit

Principal Analyst



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		153	· · ·	Avenue, S	Suite B	5)	
Client: We Sample ID:		Environm	ental	Sa	ample Matr		
Date Recei		6/01			CAS LAB		
Date Sampl		-	· .	De	ate Analyz	-	26/01- 27/01
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				• •
		CAM	17 METALS	ANALYSIS	3		
	· · ·	TTLC		STLC	CAM LIM	ITTS	
	TTLC	PQL	STLC	PQL	TTLC	STLC	EPA
METALS	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/L)	(mg/Kg)	(mg/L)	METHOD
Antimony	BQL		· · · · · · · · · · ·		500	15	6010
Arseniç	3.2	0.5			500	5	7060
Barium	230	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6,010
Chromium	20	9		1	2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	12	10	а		2500	25	6010
Lead	5.3	0.6			1000	5	7421
Mercury	BQL	0.1	~.		20	0.2	7471
Molybdenum	BQL	20			35.00	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5		$(1,\ldots,n_{n-1})$	100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium Zinc	28	7	۲ 	· .	2400	24	6010
41HC	50	10		·	5000	250	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

> A P C O Analytical Services, Inc.

Principal Analyst

21

Client: West Coast Environmental Sample ID: Method Blank

Sample Matrix: MB for Solid CAS LAB NO: 012404-MB

# CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8		· · · · · · · · · · · · · · · · · · ·	500	15	6010
Arsenic	BQL	0.5			500	5	7060
Barium	BQL	10		7	10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1		•	100	1	6010
Chromium	$\mathtt{BQL}$	9			2500	560	6010
Cobalt	BQL	10		1	8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	BQL	0.6	·		1000	5 -	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	BQL	7			2400	24	6010
Zinc	BQL	10			5000	250	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal alyst

Analytical Services, Inc.

Client: West Coast Environmental Lab ID: 012404 Analyst: ENN

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Sample Matrix: Soil Date Received: 11/26/01 Date Sampled: 11/26/01

### HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/Kg)	Dil Factor	PQL (mg/Kg)
01240402,3	B1,B2 Comp	BQL	<b>1</b>	10
01240404	B2-5	BQL	1	10
01240405	B2-10	BQL	1	10
01240506	B2-15	BQL	1.	10
01240507	B2-20	BQL	1	10
01240508	B2-25	BQL	1	10
01240509	B2-30	BQL	1	10
012405-MB	Method Blank	BQL	1	10

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit EPA Method: 7196

Principal Analyst



Client: West Coast EnvironmentalSample Matrix: SoilLab ID: 012404Date Received: 11/26/01Analyst: ENNDate Sampled: 11/26/01

		HEXAVALENT CHROMIUM		·
CAS Lab #	Sample ID	RESULTS (mg/L)	Dil Factor	PQL (mg/L)
01040401			· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • •
01240401 012404-MB	B1 Method Blank	BQL BQL	1 1	0.03

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit EPA Method: SM3500D

Principal Analyst



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Contact REMARKS	* HarD WUTTL PESUA OL A 12 4 0 4 CAM 24H C Rug 1	Only Pb, Get 2	DLD T DLD DLD DLD DLD DLD DLD DLD DLD DLD DLD	sions of which are a part of this agreement. errime Received by: (Signature) 10 05 10 05
ENVICONMENTING ENVICONMENTING Company Address Address Phone	Contraction of the second	$X \times X \times$	XX XX XX XX XX XX XX XX XX XX XX XX XX	1 Conditions, the provi
RT	CONTAINER TYPES A= AMBER B= BRASS G= GLASS P= PLASTIC V= VOA VIAL 0= OTHER MATRIX MATRIX MATRIX MATRIX	Z <del>/</del> / / / / /		
RECORD	COMP COMP	82-10 82-10 82-10 82-15 82-10		The undersigned hereby acknowledges having received a copy of the Fee Inquishedby, Banature) Differtime Received by: (Signature) Inquished by: (Signature) Datertime Received by: (Signature) Datertime Received by: (Signature) Mainten Datertime Received by: (Signature) Datertime Received By: (Sign
CAPCO THAL THAL CAPCO SERVICES 1536 Eastman Avenue Ventura, CA 93003 (805) 644-1095 Fax 644-9947 (805) 644-1005 CUSTODY RI	SAMPLERS: (Signature) SAMPLERS: (Signature) SAMPLE DATE NO. Edde TIME NO. Edde SAMPLED	10745940	00-01-90	The undersigned hereb Relinquished by (Signature) Relinquished by (Signature)

P.0.#		Contact	Rentresting - REMARKS	/ 7/0/12404 -	/ / # 11 m 0	/ Twitten								•			CHECK ONE BOX:	DISPOSE SAMPLES	RETURN SAMPLES	The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.	Received by: (Signature)	man sal	LURN AROUND TIME		
	Address	Phone / / / /	A	00000000000000000000000000000000000000	1 / ANT AN	11114													· ·	unditions, the provisions of w	Date/Time	0/071.			
Fax Fay KIRDWKWTM		Acontact		CONTAINER TYPES A=AMBER B=BRASS G=GLASS P=PI ASTIC V=VOAVIAL O-OTHER		HER # 1 TYPE														e/General Information and Co	Relinquished by: (Signature)	SNIWIII. Kaula	Marhin 11/1/ / 1927 21 11		72 Hr.
RT V Wer (	Address					WATER	L													ed a copy of the Fee Schedule	Received by: (Signature)		(Signature)	MANIN . MAJELLO	PINK COPY
LYTICAL	9947 1000 DF 2000		BUICC		SAMPLE SAMPLE		82-65	82-70	132-7S	132-80	77-85	06-72	132-95	82-100						acknowledges having receiv	L Pate/Time	I CYTI MALITY	Date/Time	-	CANARY COPY
CAPCO ANALYTICAL CAPCO SERVICES 1536 Eastman Avenue	Ventura, CA 93003 (805) 644-1095 Fax 644-9947 CHAIN OF CHATON		SK210 MS	SAMPLERA: (Stonature)	SAMPLE DATE TIME	SAMPLED SAMPLED	16 11/20/01		(X)	6	20	Э(-	23	33						The undersigned hereby	Relinduished by (Signature)		Relinquished by (Sighbulie)	>	· WHITE COPY

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### WEST COAST

ENVIRONMENTAL

4253 Transport Street, Suite A Ventura, CA 93003 Phone 805/644-7976 Fax 805/644-5929

444 South Flower Street, 31st Floor Los Angeles, CA 90071 Phone 213/229-0075 Fax 213/229-0088

SA210-00

www.wcenviro.com

January 21, 2002

Santa Monica College 1900 Pico Boulevard Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: Companion Sampling of Soil and Groundwater BAE Systems – 3171 South Bundy Drive Los Angeles, California

Déar Dr. Donner:

As you are aware, BAE Systems contracted Brown and Caldwell perform additional evaluation of a perched groundwater interval reportedly impacted by chlorinated solvents at the BAE Systems facility in Santa Monica. The presence of chlorinated solvents in the perched interval was detected during a combined geotechnical/environmental due diligence evaluation of the property and was reported by West Coast Environmental and Engineering (WCE) in the report <u>Limited Assessment of Soil and Groundwater Conditions</u>; December 5, 2001 (WCE-December 2001). At your request, WCE accompanied Brown and Caldwell (B&C) during assessment sampling_activities and collected companion samples to provide independent confirmation of results.

**Scope of Work:** The scope of work performed included soil and groundwater sampling from three borings advanced by Gregg Drilling and Testing, Inc. under contract to and supervision of B&C. One boring (designated TEMP 1) was located in the immediate vicinity of Boring B-1 as reported in WCE-December 2001. Boring TEMP 1 was advanced near the former location of the facility's hazardous waste storage area. The remaining two wells (TEMP 2 and TEMP 3) were located in the parking lot north and west of TEMP 1 in areas unlikely to have been affected by facility operations. The approximate location of each boring is shown on Figure 2.

*Methodology:* Field work was conducted over the days of December 5 and 6, 2001. All borings were advanced with truck-mounted hollow stem auger (Marl M-21). Eight-inch augers were utilized for all borings.

Soils samples were collected from the borings at five foot (5') intervals from all borings to a depth of 60 feet (60'), borings were then continued until groundwater was encountered. The borings were completed at approximately five feet below the depth of groundwater contact. Soil sampling was performed in accordance with WCE standard sampling procedure SSP-4 regarding rig boring soil sampling. Soil samples were collected with a split spoon sampler

1

loaded with three-inch, stainless steel rings, which were divided between WCE and B&C for testing.

Three perched groundwater samples were obtained using a half-inch diameter sterile, disposable bailer lowered through a one-inch PVC temporary well casing. The casing was placed at the bottom of the boring and set in place using a sand pack of clean packaged sand. The bottom five feet of casing was perforated and the remainder was blank. The bailer was removed from its wrap immediately prior to use, and disposed after each sample was obtained.

All soil and groundwater samples were submitted to Capco Analytical Services (CAS) in Ventura, California for analysis. CAS is a laboratory certified by the State of California to perform all analyses required for this project. Groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, total petroleum hydrocarbons (TPH) by EPA Method 8015m, and for Title 22 Metals by EPA Series 6000 and 7000. Soil samples were held for future analyses, but were not analyzed and the holding time for VOC and TPH analyses has since lapsed.

Drill cuttings were placed in 55-gallon DOT drums and stored onsite pending results of profiling laboratory analyses. All borings were backfilled and sealed using a grout of bentonite slurry to within 5 feet of ground surface. The remainder was filled with bentonite chips, and capped with asphalt. The augers were pre-cleaned by Gregg Drilling Company prior to arrival onsite.

**Results:** Boring TEMP1 encountered perched groundwater at approximately 68 feet below ground surface (bgs) and was terminated at 73 feet bgs to facilitate the collection of a groundwater sample. Boring TEMP2 was advanced in the parking lot approximately 140 feet south of the corner of building 1. This boring encountered groundwater at 67 feet and was terminated at 72 feet bgs to facilitate groundwater sampling. Boring TEMP3 was advanced near the south fence of the facility parking lot. Groundwater was encountered at 68 feet and the boring was terminated at 73 feet bgs.

Eleven VOCs, including solvents and their breakdown bi-products were detected in the groundwater sample taken at TEMP1, and at concentrations consistent with the results obtained from laboratory analyses of the groundwater sample from previous boring B1. Levels of PCE, TCE and some of their breakdown bi-products that were detected in the water sample from TEMP 1 exceed both the California Code of Regulations, Title 22, Maximum Contaminant Levels (22 CCR 64444) and the City of Los Angeles Public Health Goals (City of Los Angeles Drinking Water Public Health Goals Report, July 2001). Levels of lead and hexavalent chromium in water were below detection limits. The groundwater samples from TEMP 2 and TEMP 3 were non-detect for TPH and for most VOCs, indicating the source of the contaminants identified in the perched groundwater sample from TEMP 1 originated from facility operations. The results of all analyses performed for this assessment, including the results obtained by B&C, are summarized in the tables found in Attachment 2. Copies of the original laboratory reports are provide in Attachment 3.

**Discussion and Recommendations:** The results of this additional assessment serve to confirm the presence of VOCs in perched groundwater underlying the facility as reported in WCE-December 2001, and to provide further data to indicate a release has occurred from

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### Companion Sampling of Soil and Groundwater

BAE Systems – 3171 South Bundy Drive Los Angeles, California January 21, 2002

facility operations. Based on these results, the comments and recommendations of WCE-December 2001 are considered to remain applicable and effective. WCE understands BAE Systems may undertake remedial action to address the contaminants identified in perched groundwater. BAE Systems proposes to remove contaminants in perched groundwater by installation and operation of a vapor extraction system (VES), which should be effective based on the volatile nature of contaminants identified and the soil conditions present. It should be noted, however, that BAE System's proposed action will address potential impacts to the deeper aquifer only to the extent that it will remove contaminants in the perched interval that may be a source of future contamination of the deeper aquifer. The VES as proposed will not remove contaminants that may have already reached the deeper aquifer.

Thank you for this opportunity to be of service. Please do not hesitate to contact me at 644-7976 if you have any questions or need more information regarding this report.

Respectfully Submitted, West Coast Environmental and Engineering

Lawrence Levee Staff Geologist

No. 736 08/03 Fxo. CERTIFIED HYDROGEOLOG OF

Peter L. Thams, C.E.G., C.H.G. Senior Geologist/Group Manager

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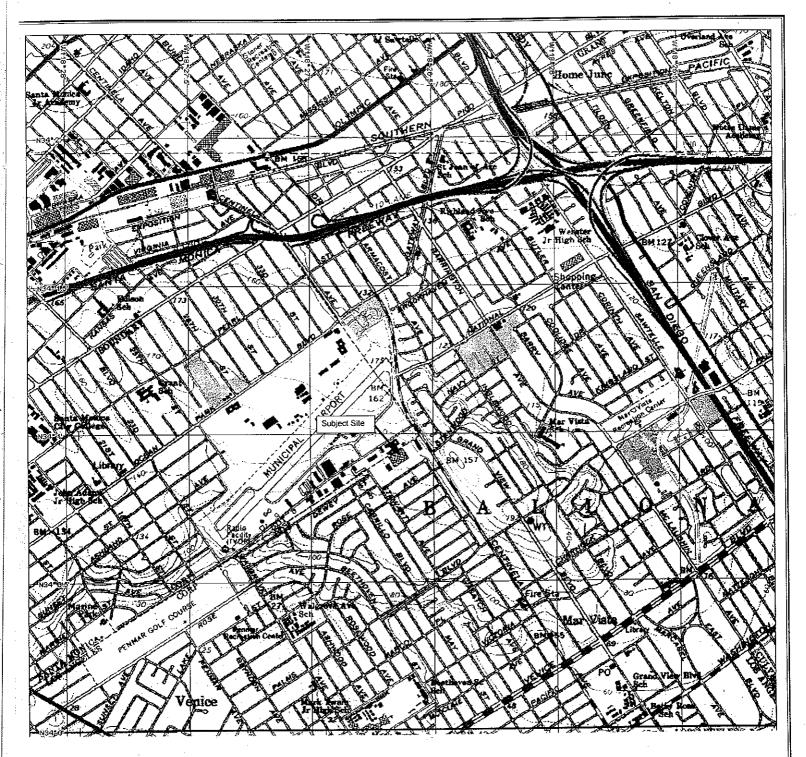
3

Companion Sampling of Soil and Groundwater BAE Systems – 3171 South Bundy Drive Los Angeles, California January 21, 2002

## ATTACHMENT 1

FIGURES

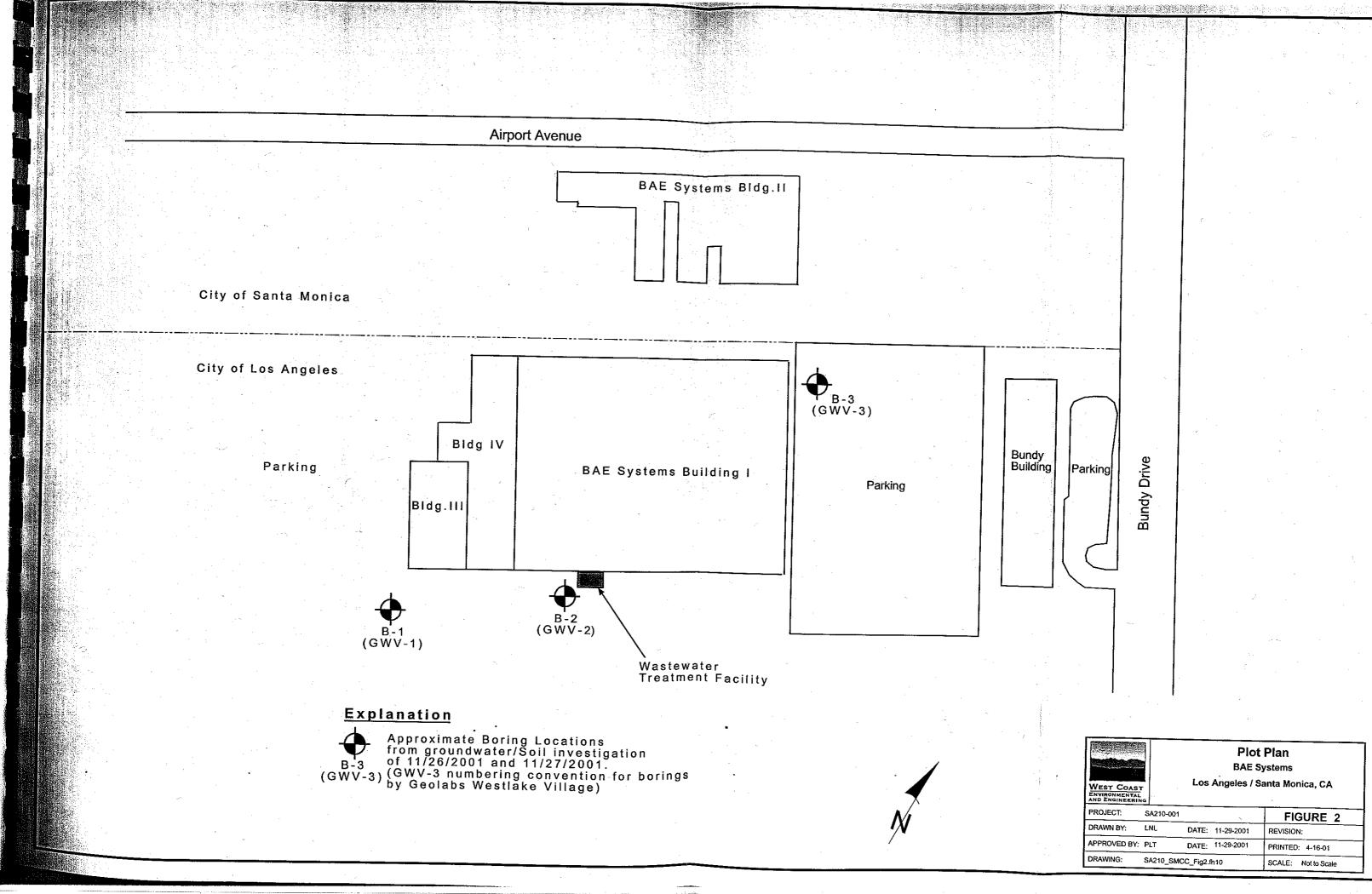
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Source: Beverly Hills CA, Quadrangle 1966, Photorevised 1981 Minor Revision 1994 USGS Topographic

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WEST COAST ENVIRONMENTAL AND ENGINEERIN	ł	SI	BAE S 3171 S. B	ATION MAP systems undy Drive geles, CA
PROJECT:	SA210-001			FIGURE 1
DRAWN BY:	LNL	DATE:	11-28-2001	REVISION:
APPROVED BY:	PLT	DATE:	11-28-2001	PRINTED: 11-28-2001
DRAWING:	SA210_fig1	_ini.fh10		SCALE: as shown



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### Santa Monica College

### Companion Sampling of Soil and Groundwater BAE Systems – 3171 South Bundy Drive Los Angeles, California January 21, 2002

### ATTACHMENT 2

TABLES

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Santa Monica College

Companion Sampling of Soil and Groundwater BAE Systems – 3171 South Bundy Drive Los Angeles, California Janùary 21, 2002

# Table 1: Groundwater Laboratory Analysis for TPH

Sample ID	TPH As Gasoline	TPH as Diesel
81	0.12	<0.5
All results listed in mg/Kg	Kg	

# Table 2: Groundwater Laboratory Analysis Carbon Range

				}
Sample ID	C4-C12	C13-C22	C23+	
TEMP 1(wce)	0.21	<10	<10	
TEMP2(wce)	<0.05	<10	<10	
TEMP3(wce)	<0.05	<10 <	<10	
All results listed in mg/Kg	Кg			

# Table 3: Groundwater Sample Laboratory Analysis for VOCs

Sample ID								-			1
	Chloroform	1,1 DCA	1,2 DCA	1,1 DCE	cis1,2 DCE	Trans-1,2 DCE	1,2 Dichloropropane	РСЕ	1,1,1 TCA	1,1,2 TCA	5
B1	4.0	8.0	6.2	260	0.69	0.59	24.0	2.8	1.5	13	160
Temp1 (wce)	e e	12	8.9	500	1.1	0.89	30	6.5	4.3	20	250
		<0.5	<0.5	30	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	3.1
1-		<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	3.1
╈	6.2	11	10	370	<0.5	<0.5	28	5.8	4.5	16	260
Temp 2 (b&c)		<0.5	<0.5	28	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	3.0
Temp 3 (b&c)		<0.5 <0.5	<0.5	4	<0.5	<0.5	<0.5	<ul><li>1.0</li></ul>	<1.0	<1.0	<1.0
	-1.U							u		Ľ	ſ
CA MCLs	*	£	ۍ آ	G	9	10	n	n	2002	,	
City of L.A. PHGs	*	*	*	*	*	*	*	0.056	*	*	0.8
All results in ug/Kg. B1= WCE sample obtained 11/25/2001. TEMP3(wce) = WCE sample obtained 12/5/2001. TEMP3(b&c) = Brown and Caldwell sample obtained 12/5/2001. MCL= Maximum Contamination Level allowed by California Code of Regulations Title 22. PHG= Public Health Goals for the City of Los Angeles. These are not legislated maximums but objectives.	otained 11/25/2 E sample obtair In and Caldwel ntamination Le Goals for the (	2001. Ped 12/5/20( I sample obt vel allowed I City of Los A	01. tained 12/5/ by Californiċ vngetes. The	2001. a Code of R sse are not	egulations Title legislated maxi	; 22. mums but objective	ŝ				

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Santa Monica College

Companion Sampling of Soil and Groundwater BAE Systems – 3171 South Bundy Drive Los Angeles, California January 21, 2002

Table 4: Laboratory Analysis for Metals	borat	ory Ai	nalysis	s for <b>N</b>	detals									÷		n	ł
Sample ID	as	As	Ba	Be	B	చ	ദ	õ	ЪЪ	Hg	Mo	Ņ	Se	Ag	ų	Va	z
GWV-B1 (GW)	<0.1	<0.03	<0.06	<u>6</u> .1	€0.03	<0.04	<0.04	0.30	e0.0>	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	0.23	<0.06
GWV-B2-5	89	1.8	67	<0.8 8.0	⊽	12	40	<u>1</u> 0	3.6	<0.1	<20	<10	<0.5	<2	<0.2	23	22
GWV-B2-10	\$	2.2	42	<0.8 8.0	۲	13	<10	<10	2.8	<0.1	<20	<10	<0.5	5	<0.2	20	21
GWV-B2-15	<b>\$</b>	3.8	34	<0.8 8.0≻	⊽	16	<10	10	2.8	40.1 1	<20	<10	<0.5	2	<0.2	31	19
GWV-B2-20	\$	1.0	15	¢0.8	⊽	13	6 <u>5</u>	<10	2.1	<0.1	<20	<10 <	<0.5	22	<0.2	7.0	12
GWV-B2-25	% %	1.6	27	<0'8'	۲	1.2	<10	<10	1.3	<0.1	<20	<10	<0.5	<2	<0.2	8.0	15
GWV-B2-30	∞	3.2	230	6.0 8.0	v	20	<10	12	5.3	<0.1	^20	40	<0.5	<2	<0.2	28	50
TEMP 1 (GW)	Ş	6.03 6	<0.06	6 1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	<0.07	<0.06
TEMP 1 (GW)	<u>.</u>	<0.03	<0.06	6. 1	<0.03	<0.04	<0.04	0.30	<0.05 <	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	0.24	<0.06
TEMP 1 (GW)	<u>6</u>	60.03	<0.06	÷.	<0.03	<0.0 <b>4</b>	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	0.39	<0.06
Method Blank	8	<0.5	<10	<0.8	4	6 V	<10	<10	<0.6	<0.1	<20	<10	<0.5	\$	<0.2	\$	ę
All results listed in mg/Kg Groundwaater samples were filtered prior to preservation	in mg/h	<g were filte</g 	ared prior	to pres	ervation.		.  -										

Groundwaater samples were rittered prior to preserva Positive results shown in bold italics

Table 5: Total Petroleum Hydrocarbons in Soil

Comple 10	R2_5	B2-10	B2-15	B2-20	B2-25	B2-30
odilibic In						V
TOU ARE	v	v	~	v		
						~10
TDU discol	<10	<10	<10			2
						Ca
VOCe	BOI	BOL	BQL	BUL	DUL	פער
5000						
Decute in ma/Ka						
Renderin III entreali						

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### Capco Analytical Services Incorporated (CAS) 1536 Eastman Avenue, Suite B Ventura, CA. 93003 (805) 644-1095

Prepared For: West Coast Environmental November, 2001 4253 Transport St., Suite A Ventura, CA 93003

### ATTENTION: Larry Levee

Laboratory No: 012404	Job 1
Date Received: 26-NOV-01	Sampled
Project: SMCC (SA 210)	

### RESULTS

On November 26, 2001 twenty-four (24) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of pages excluding the cover letter, and the Chain of Custody.

SAMPLE	DESCRIPTION	CAS LAB NUMBER
Bl		01240401
B1, B2	COMP	01240402 & 3
B2-5		01240404
B2-10		01240405
B2-15		01240406
B2-20		01240407
B2-25		01240408
B2-30		01240409
B2-35		01240410*HOLD
B2-40		01240411*HOLD
B2-45		01240412*HOLD

### *HOLD PER CUSTOMER REQUEST

No: B05541 By: Client ID: See Below

Dan A. Farah, Ph.D. Director - Analytical Operation

This report shall not be reproduced except in full without the written approval of Capco Analytical Services Inc. The test results reported represent only the items being tested and may not represent the entire material from which the sample was taken.



### Capco Analytical Services Incorporated (CAS) 1536 Eastman Avenue, Suite B Ventura, CA. 93003 (805) 644-1095

Prepared For: West Coast Environmental November, 2001 4253 Transport St., Suite A Ventura, CA 93003

### ATTENTION: Larry Levee

Laboratory No: 012404 Date Received: 26-NOV-01 Project: SMCC (SA 210) Job No: B05541 Sampled By: Client ID: See Below

### RESULTS

SAMPLE	DESCRIPTION		-	<u>CAS LAB N</u>	<u>UMBER</u>
B2-45				01240413*	HOLD
B2-50				01240414*	HOLD
B2-55				01240415*	HOLD
B2-60				01240416*	HOLD
B2-65	4			01240417*	HOLD
B2-70			e de la composición d Composición de la composición de la comp	01240418*	HOLD
B2-75	·		• . •	01240419*	HOLD
B2-80			·	01240420*	HOLD
B2-85				01240421*	HOLD
B2-90				01240422*	HOLD
B2-95				01240423*	HOLD
B2-100		\ \		01240424*	HOLD
				. •	

### *HOLD PER CUSTOMER REQUEST

### Dan A. Farah, Ph.D. Director - Analytical Operation

This report shall not be reproduced except in full without the written approval of Capco Analytical Services Inc. The test results apported represent only the items being tested and may not represent the entire material from which the sample was taken.



### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Water Analyst: AN Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
CAS Lab <b>#:</b> 01240401 Sample ID: Bl		Date Analyzed:	11/28/01
TPH as Gasoline	0.12	1.0	0.05
CAS Lab #: 012404-MB Sample ID: Method Blank		Date Analyzed:	11/28/01
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

> Analytical Services, Inc.

Capco An	alytical Service	s INC. (CAS)	
1536	Eastman Avenue,		
	Ventura CA 930	1	
	(805) 644-1095		
Client: West Coast Envir	onmental	Analyst: AN	1
Lab ID: 012404		Date Received: 11	
Matrix: Soil		. •	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
TOTAL	PETROLEUM HYDRO		•
· .	EPA METHOD 8015	<b>III</b>	· · ·
		н 	·
	Concentration	Dilution	PQL
Compound	mg/Kg	Factor	mg/Kg
		***************************************	
CAS Lab #: 01240402		Date Analyzed: 1	1/28/01
Client ID: B1, B2 Comp		Date Midry260. 1	
TPH as Gasoline	BQL	1	0.5
		· · · · · ·	
CAS Lab #: 01240404	•	Date Analyzed: 1	1/28/01
Client ID: B2-5			
TPH as Gasoline	BQL	1	0.5
	· · · ·		· · ·
CAS Lab #: 01240405		Date Analyzed: 1	1/28/01
Client ID: B2-10			
		· •	0.5
TPH as Gasoline	BQL	1 	0.0
CAS Lab #: 01240406		Date Analyzed: 1	1/28/01
Client ID: B2-15			
			·
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

Lasea



### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Soil Analyst: AN Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240407 Client ID: B2-20	Date	Analyzed: 11/	28/01
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240408 Client ID: B2-25	Date	Analyzed: 11/	28/01
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240409 Client ID: B2-30	Date	Analyzed: 11/	'28/01
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 012404-MB Client ID: Method Blank	Date	Analyzed: 11,	′28/01
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

escar



Car	oco Analytical Ser 1536 Eastman Ave Ventura CA (805) 644-	enue, Suite B 93003 -1095		· · · · · · · · · · · · · · · · · · ·
Client: West Coast Lab ID: 012404 Matrix: Water	Environmental	Ana Date Rece	lyst: JD ived: 11/26	/01
	TOTAL PETROLEUM I EPA METHOD		 	
Compound	Concentration mg/L	Dilution Factor		rrogate % Rec. =======
CAS Lab #: 0124040 Client ID: B1	 1	Date Extr Date Ana	acted: 11/2 lyzed: 11/2	7/01 7/01
TPH - Diesel	BQL	1.0	0.5	69
CAS Lab #: 012404- Client ID: Method		Date Extr Date Ana	acted: 11/2 alyzed: 11/2	7/01 ?7/01
TPH - Diesel	BQL	1.0	0.5	67

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit



### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Lab ID: 012404 Matrix: Soil

Analyst: JD Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

			·	
Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg	% Rec.
		=============================		- -
CAS Lab #: 01240402 Client ID: B1, B2 Con	qn		tracted: nalyzed:	
TPH as Diesel	BQL	1.0	10	71
CAS Lab #: 01240404 Client ID: B2-5			tracted: nalyzed:	
TPH as Diesel	BQL	1.0	10	74
CAS Lab #: 01240405 Client ID: B2-10		1	tracted: nalyzed:	
TPH as Diesel	BQL	1.0	10	73
CAS Lab #: 01240406 Client ID: B2-15			tracted: nalyzed:	
TPH as Diesel	BQL	1.0	10	67
CAS Lab #: 01240407 Client ID: B2-20	· .		tracted: nalyzed:	11/26/01 11/27/01
TPH as Diesel	BQL	1.0	10	75
Surrogate: n-Undecan	ne			

Surrogate Control Limits: 57 - 1.4 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

> Analytical Services, Inc.

Principal Analyst

seel

Cap	co Analytical Ser	vices INC. (CA	S)	1. (f. 17) 1
	1536 Eastman Ave	nue, Suite B		
	Ventura CA	93003		
	(805) 644-	1095		
	· · · · · · · · · · · · · · · · · · ·	, 		
Client: West Coast	Environmental		lyst: JD	
Lab ID: 012404		Date Rece	ived: 11/20	6/01
Matrix: Soil				
		· · · · · · · · · · · · · · · · · · ·		
	TOTAL PETROLEUM H	IYDROCARBONS	-	•
	EPA METHOD	8015m		
		,		
	Concentration			urrogate
Compound	mg/Kg	Factor	mg/Kg	% Rec.
		***************************************		
	• •			25/01
CAS Lab #: 01240408	· · · ·		acted: 11/3	
Client ID: B2-25		Date Ana	lyzed: 11/	27701
	DOI	1 0 7	.0 .66	
TPH as Diesel	BQL	1.0 ]	.0	
CAS Lab #: 01240409		Data Evti	acted: 11/	26/01
•·· ••			lyzed: 11/	
Client ID: B2-30		Dare Mid	LYNGA, LY	
TPH as Diesel	BQL	1.0	.0 83	
IFII as Dreser	тХт	1.0		

Date Extracted: 11/26/01 CAS Lab #= 012404-MB Date Analyzed: 11/26/01 Client ID: Method Blank 10 65 1.0 TPH as Diesel BQL

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

need

Principal Analyst



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Capco An 1536	alytical Services Eastman Avenue, Ventura CA 9300 (805) 644-1095	Suite B	
Client: West Coast Enviro Sample ID: B1 CAS LAB NO: 01240401 Date Received: 11/26/01 Date Sampled: 11/26/01	onmental	Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Water N/A
VOLA	TILE ORGANIC COMP EPA Method 8260		· · · · ·
Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzeme Bromobenzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorotoluene Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-Chloroprop 1,2-Dibromoethane Dibromochloromethane Dibromochloromethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL 8.0 6.2 260 0.69		0.5 0.5 0.5 1.0 1.0 0.5 0.5 0.5 0.5 0.5 1.0 1.0 1.0 0.5 0.5 0.5 1.0 0.5 0.5 1.0 0.5 0.5 1.0 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0

<u>e</u>e. Principal Analyst



Client: West Coast Environmental Sample ID: B1 CAS LAB NO: 01240401 Date Received: 11/26/01 Date Sampled: 11/26/01

## Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: 1020

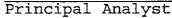
### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/L	Factor	ug/L
Compound Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloropenane 1,2,4-Trichloropenane 1,2,4-Trichloropenane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride	ug/L BQL BQL BQL BQL BQL BQL BQL BQL BQL BQ		
Total Xylenes	BQL	1.	2.0
MTBE	BQL	1	

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	89	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit





### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental Sample ID: Method Blank CAS LAB NO: 012404-MB

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: MB for Liquid

	E ORGANIC COMPOUNDS		`
E	PA Method 8260B		
	Concentration	Dilution	PQL
	ug/L	Factor	uq/L
Compound			
Benzéne	BQL	1.	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	ī	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	· <u>1</u> · .	. 1.O
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	ĺ	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	BQL	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst



Client: West Coast Environmental Sample ID: Method Blank CAS LAB NO: 012404-MB Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: MB for Liquid

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	 1	1.0 0.5
Hexachlorobutadiene	BQL BQL		0.5
Isopropylbenzene	BQL	-	0.5
p-Isopropyltoluene	BQL		2.0
Methylene Chloride	BQL	<b>1</b>	1.0
Napthalene	BQL	-	1.0
N-Propylbenzene	BQL	1	0.5
Styrene 1,1,1,2-Tetrachloroethane	BQL	<u>1</u>	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	<u>1</u>	0.5
1,2,3-Trichlorobenzene	BQL	1 <u>1</u>	1.0
1,2,4-Trichlorobenzene	BQL	<u>-</u>	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	BQL	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3 Trichloropropane	BQL	<u>1</u> 7	0.5
1,2,4-Trimethylbenzene	BQL	<u>_</u>	1.0
1,3,5-Trimethylbenzene	BQL	<u>.</u>	1.0 1.0
Vinyl Chloride	BQL	⊥ 7	2.0
Total Xylenes	BQL	7	5.0
MTBE	BQL	1	5.0
		747	

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits	
Dibromofluoromethane	88	86-118%	
Toluene-d8	93	88-110%	
4-Bromofluorobenzene	88	86-115%	

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

Analytical Services, Inc.

Capco Analytical Ser 1536 Eastman Ave Ventura CA (805) 644-	nue, Suite B 93003	
Client: West Coast Environmental Sample ID: B1, B2 Comp	Date Analyzed: Analyst:	
CAS LAB NO: $01240402$	Sample Matrix:	
Date Received: 11/26/01	Date Extracted:	
Date Sampled: 11/26/01	Time Sampled:	1020
VOLATILE ORGANIC EPA Method		

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene Bromobenzene Bromochloromethane	BQL BQL BQL	1 1	5 5 5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5 5
N-Butylbenzene	EQL	1	5
sec-Butylbenzene	BQL	1	ک ۲
tert-Butylbenzene	BQL BQL	· <u>1</u>	5
Carbon Tetrachloride	BQL	· ± 1	. D
Chlorobenzene	BQL	. <u>1</u>	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	. 5
Chlorodibromomethane	BQL	<u>1</u>	5
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)			10
Dibromomethane	BQL BQL		5
1,2-Dichlorobenzene	BQL	1	ភ ភ ភ ភ
1,3-Dichlorobenzene	BQL	·· 1	2
1,4-Dichlorobenzene	BQL		5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	-5
trans-1,2-Dichloroethene	BQL	1	5 5 5 5
1,2-Dichloropropane 1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL BQL	1	5
2,2 DICHTOLODIODAHG	руп	<b>–</b>	<b>D</b>

eee_ c Principal Analyst



Client: West Coast Environmental Sample ID: B1, B2 Comp CAS LAB NO: 01240402 Date Received: 11/26/01 Date Sampled: 11/26/01

### Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Compound ====================================	ug/Kg BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	Factor ====================================	ug/Kg 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits		
Dibromofluoromethane	91	80-120%		
Toluene-d8	100	81-117%		
4-Bromofluorobenzene	91	74-121%		

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

ea

Principal Analyst



Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

Client: West Coast Environmental
Sample ID: B2-5
CAS LAB NO: 01240404
Date Received: 11/26/01
Date Sampled: 11/26/01
-

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS EPA Method 8260B			
Concentration Dilution Compound ug/Kg Factor	PQL ug/Kg		
BenzeneBQL1BromobenzeneBQL1BromochloromethaneBQL1BromodichloromethaneBQL1BromodichloromethaneBQL1BromomethaneBQL1BromomethaneBQL1BromomethaneBQL1BromomethaneBQL1N-ButylbenzeneBQL1carbon TetrachlorideBQL1ChlorodetnaneBQL1ChlorodetnaneBQL1ChlorodetnaneBQL1ChlorodetnaneBQL12-ChlarotolueneBQL11, 2-Dibromo-3-chloropropaneBQL11, 2-DichlorobenzeneBQL11, 3-DichlorobenzeneBQL11, 4-DichlorobenzeneBQL11, 2-DichlorobenzeneBQL11, 2-DichlorobenzeneBQL11, 2-DichlorobenzeneBQL11, 2-DichlorobenzeneBQL11, 2-DichloroethaneBQL11, 2-DichloroethaneBQL11, 2-DichloroethaneBQL11, 2-DichloroethaneBQL11, 2-DichloroetheneBQL11, 2-DichloropenpaneBQL11, 2-DichloropenpaneBQL11, 3-DichloropropaneBQL11, 3-DichloropropaneBQL11, 3-DichloropropaneBQL11, 3-DichloropropaneBQL11, 3-Dichloropropane<	497 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		

cae. Principal Analyst

ΡСΟ Analytical Services, Inc.

Client: West Coast Environmental Sample ID: B2-5 CAS LAB NO: 01240404 Date Received: 11/26/01 Date Sampled: 11/26/01

### Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 10 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



Currencerte

Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095			
Client: West Coast EnvironmentalDate Analyzed: 11Sample ID: B2-10Analyst: AICAS LAB NO: 01240405Sample Matrix: SoDate Received: 11/26/01Date Extracted: N,Date Sampled: 11/26/01Time Sampled: 10	N Oil /A		
VOLATILE ORGANIC COMPOUNDS EPA Method 8260B	<u> </u>		
Concentration Dilution Compound ug/Kg Factor	PQL ug/Kg		
BenzeneBQL1BromobenzeneBQL1BromochloromethaneBQL1BromodichloromethaneBQL1BromodichloromethaneBQL1BromodichloromethaneBQL1BromomethaneBQL1BromomethaneBQL1BromomethaneBQL1sec-ButylbenzeneBQL1carbon TetrachlorideBQL1ChlorobenzeneBQL1ChlorobenzeneBQL1ChloroformBQL1ChloroformBQL1ChlorobuzeneBQL1ChlorobuzeneBQL1ChlorobuzeneBQL1ChlorobuzeneBQL11, 2-Dibromo-3-chloropropaneBQL11, 2-DibromoethaneBQL11, 2-DibromoethaneBQL11, 4-DichlorobenzeneBQL11, 2-DichlorobenzeneBQL11, 4-DichlorobenzeneBQL11, 2-DichloropethaneBQL11, 1-DichloroethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL11, 2-DichloropethaneBQL1 </td <td>5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td>	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		

Principal Analyst

A PCO Analytical Services, Inc.

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Client: West Coast Environmental Date Analyzed: 11/28/01 Sample ID: B2-10 Analyst: AN CAS LAB NO: 01240405 Sample Matrix: Soil Date Received: 11/26/01 Date Extracted: N/A Date Sampled: 11/26/01 Time Sampled: 1020 VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued Concentration Dilution POL Compound ug/Kg Factor ug/Kq BQL BQL BQL BQL BQL BQL _______ 1,1-Dichloropropene 1 5 Ethylbenzene 1 5 Hexachlorobutadiene 5 1 5 Isopropylbenzene 1 p-Isopropyltoluene 5 1 BOL 5 Methylene Chloride 1 5 Napthalene 1 BQL 5 N-Propylbenzene 1 BOL 5 Styrene BQL 1 1,1,1,2-Tetrachloroethane 5 BQL1 1,1,2,2-Tetrachloroethane BQL Tetrachloroethene BQL Toluene BQL 1 5 1 10 1 5 BQL 1,2,3-Trichlorobenzene 5 1 BOL 1,2,4-Trichlorobenzene 5 1 BQL 1,1,1-Trichloroethane 5 1 1,1,2-Trichloroethane BQL 10 1 5 Trichloroethylene BOL 1 Trichlorofluoromethane 5 BOL 1 BQL BQL 1,2,3-Trichloropropane 1 -5 1,2,4-Trimethylbenzene 5 1 5 1,3,5-Trimethylbenzene BOL 1 Vinyl Chloride BQL 5 1 total Xylenes 1 10 BOL MTBE BQL 1 5 SURROGATE RECOVERY Control Limits Surrogate * Recovery --------------

Dibromofluoromethane83Toluene-d81034-Bromofluorobenzene98

80-120% 81-117% 74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



Capco Analytical Services IN	C. (CAS)
1536 Eastman Avenue, Sui	
Ventura CA 93003	÷.
(805) 644-1095	

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Client: West Coast Envir Sample ID: B2-15 CAS LAB NO: 01240406 Date Received: 11/26/01 Date Sampled: 11/26/01		Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Soil N/A
VOLA	TILE ORGANIC COME EPA Method 8260		•
Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene Chlorodibromomethane 1,2-Dibromo-3-chloroprop 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2,2-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

cer Principal Analyst



Client: West Coast Environmental Sample ID: B2-15 CAS LAB NO: 01240406 Date Received: 11/26/01 Date Sampled: 11/26/01

# Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		
1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL	1 1 1 1 1 1 1 1 1 1	10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits	•
Dibromofluoromethane	85	80-120%	
Toluene-d8	100	81-117%	
4-Bromofluorobenzene	87	74-121%	

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit



Сарсо Апа	lytical Ser	vices INC.	(CAS)	
1536	Eastman Ave	nue, Suite	B	
•	Ventura CA	93003		
	(805) 644-	1095		
Client: West Coast Environ	mental	Dete		
Sample ID: B2-20	Intericar	Date	Analyzed:	11/28/01
CAS LAB NO: 01240407		·C - mr	Analyst:	AN
Date Received: 11/26/01		Date	le Matrix: Extracted:	SOLL
Date Sampled: 11/26/01		Tin	e Sampled:	N/A
			ie sampteu:	T020
VOLATI	LLE ORGANIC	COMPOUNDS		
	EPA Method	8260B		
	Concontrat	• _		•
Compound	Concentrat	lon	Dilution	PQL
	ug/Kg		Factor	ug/Kg
Benzene	BQL	===========		=================
Bromobenzene	BQL		. 1	5
Bromochloromethane	BQL	•	1.	-5-
Bromodichloromethane	BQL		1	5, 5 5 5 5 5 5 5 5 5 10
Bromoform	BQL			5
Bromomethane	BQL		1	5
N-Butylbenzene	BQL		1	5
sec-Butylbenzene	BQL		<u>_</u>	5
tert-Butylbenzene	BQL		1	- 5
Carbon Tetrachloride	BQL		1	5
Chlorobenzene	BQL		۲. ۲	5
Chloroethane	BQL	·	1	
Chloroform	BQL		1	5
Chloromethane	BQL		1	5
2-Chlorotoluene	BQL		1	5
4-Chlorotoluene	BQL		1	5 5 5 5 5 5 5
Chlorodibromomethane	BQL		1	5
1,2-Dibromo-3-chloropropan	e BQL		1	5
1,2-Dibromoethane (EDB)	BQL	• .	1	10
Dibromomethane	BQL	· · ·	L '	5
1,2-Dichlorobenzene	BQL		<u></u> , т	5
1,3-Dichlorobenzene	BQL		1	5
1,4-Dichlorobenzene	BQL	· · ·	· 1	5 5 5 5 5 5
Dichlorodifluoromethane	BQL		1	5
1,1-Dichloroethane	BQL	•	1	5
1,2-Dichloroethane (EDC)	BQL		1	5
1,1-Dichloroethene	BQL		1	
cis-1,2-Dichloroethene	BQL			5 5 5 5
trans-1,2-Dichloroethene	BQL		. <u>1</u> .	5
1,2-Dichloropropanè	BQL	•	1	5
1,3-Dichloropropane	BQL	~.		5
2,2-Dichloropropane	BQL		1	5
	ъQц		1	5

sear

Principal Analyst



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Client: West Coast Environmental Date Analyzed: 11/28/01 Analyst: AN Sample ID: B2-20 CAS LAB NO: 01240407 Sample Matrix: Soil Date Received: 11/26/01 Date Extracted: N/A Date Sampled: 11/26/01 Time Sampled: 1020 VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued Concentration Dilution ⊇QL Compound uq/Kq Factor uq/Kq 1,1-Dichloropropene BQL 1 Ξ Ethylbenzene BOL 1 5 BQL BQL BQL Hexachlorobutadiene 5 1 . Isopropylbenzene 1 5 p-Isopropyltoluene 5 5 1 Methylene Chloride BOL 1 Napthalene BQL 5 1 N-Propylbenzene 1 5 BOL Styrene BQL 1 5 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane BOL 5 1 BQL BQL Ť 5 Tetrachloroethene 1 10 BQL Toluene 1 5 1,2,3-Trichlorobenzene BQL 1 5 1,2,4-Trichlorobenzene BOL 1 5 1,1,1-Trichloroethane BQL 1 5. BQL BQL 1,1,2-Trichloroethane 1 10 Trichloroethylene 1 5 Trichlorofluoromethane BQL 1 5 1,2,3-Trichloropropane BOL 1 5 1,2,4-Trimethylbenzene BQL 1 5 1,3,5-Trimethylbenzene BOL 1 5 Vinyl Chloride BQL 1 5 total Xylenes BOL 1 10 MTBE BQL 1 5 SURROGATE RECOVERY Surrogate % Recovery Control Limits -----

· · · · · · · · · · · · · · · · · · ·	•	
Dibromofluoromethane	84	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



	lytical Ser			<u></u>
	Eastman Ave		В	
	Ventura CA		· · · · · · · · · · · · · · · · · · ·	
	(805) 644-	1095	~	
alient, Nech Great The	· · · · ·			
Client: West Coast Enviro	nmental	Date	Analyzed:	
Sample ID: B2-25 CAS LAB NO: 01240408		~	Analyst:	
			le Matrix:	
Date Received: 11/26/01	•		Extracted:	
Date Sampled: 11/26/01		Гіп	ne Sampled:	1020
VOLAT	ILE ORGANIC	COMPOUNDS		
	EPA Method			
~ I	Concentra		Dilution	PQL
Compound	ug/Kg	1 ^e	Factor	ug/Kg
	=======================================	===========	=======================================	
Benzene Bromobenzene	BQL		1	5
Bromochloromethane	BQL		1	5
Bromodichloromethane	BQL		1	- <b>5</b>
	BQL		1	. 5
Bromoform	BQL		··· · · ·	5
Bromomethane	BQL	*	1	5 5 5 5 5 5
N-Butylbenzene	BQL		. 1	5
sec-Butylbenzene	BQL	. ,	1	5
tert-Butylbenzene	BQL		1	5
Carbon Tetrachloride	BQL		1	
Chlorobenzene	BQL		1	1Ò
Chloroethane	BQL		1	5
Chloroform	BQL		1	
Chloromethane	BQL		1	5 5 5 5
2-Chlorotoluene	BQL		1	5
4-Chlorotoluene	BQL		1	5
Chlorodibromomethane	BOL	1	1	5
1,2-Dibromo-3-chloropropar	ie BQL		1	1.0
1,2-Dibromoethane (EDB)	BQL		1	5
Dibromomethane	BQL		l	5
1,2-Dichlorobenzene	BQL		1	5
1,3-Dichlorobenzene	BQL		1	5
1,4-Dichlorobenzene	BQL		. 1	5
Dichlorodifluoromethane	BQL	1	1	
1,1-Dichloroethane	BQL		1	5
1,2-Dichloroethane (EDC)	BQL		1	. J 5
1,1-Dichloroethene	BQL		1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
cis-1,2-Dichloroethene	BQL		1	
trans-1,2-Dichloroethene	BQL		1	
1,2-Dichloropropane	BQL			5 E
1,3-Dichloropropane	BQL		1 1	
2,2-Dichloropropane	BQL		1	5 2 1 <b>F</b> 1
212 DICHTOLOPIOPAHE	цуа		1	5

essee Principal Analyst



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Client: West Coast Environmental Sample ID: B2-25 CAS LAB NO: 01240408 Date Received: 11/26/01 Date Sampled: 11/26/01

Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/Kg	Factor	ug/Kg
1,1-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,1,1#Trichloroethane 1,1,2#Trichloroethane 1,1,2#Trichloroethane Trichloroethylene Trichlorofluoromethane 1,2,3#Trichloropropane 1,2,4#Trimethylbenzene 1,3,5#Trimethylbenzene Vinyl Chloride total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

### SURROGATE RECOVERY

·	Surrogate	% Recovery	Control Limits	
	Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene	103	80-120% 81-117% 74-121%	

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



### Capco Analytical Services INC. (CAS) 1536 Eastman Avenue, Suite B Ventura CA 93003 (805) 644-1095

	LE ORGANIC COMP		AN Soil N/A
Compound	<b>SPA Method 8260</b> Concentration ug/Kg	B Diluticn Factor	PQL ug/Kg
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane N-Butylbenzene sec-Butylbenzene carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene Chlorotoluene 4-Chlorotoluene Chlorotoluene Chlorotoluene Chlorotoluene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2,2-Dichloropropane 2,2-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

-seef_ Principal Analyst



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Client: West Coast Environmental Sample ID: B2-30 CAS LAB NO: 01240409 Date Received: 11/26/01 Date Sampled: 11/26/01

### Date Analyzed: 11/28/01 Analyst: AN Sample Matrix: Soil Date Extracted: N/A Time Sampled: 1020

### VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	======================================	
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	- 5
Methylene Chloride	BQL	1 -	5
Napthalene	BQL	1	- 5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	=
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	. 1	10
Trichloroethylene	BQL	l	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5 ·
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

### SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	102	81-117%
4-Bromofluorobenzene	92	74-121%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



		Capco A 153	6 Eastman Ventura	Avenue,	03	S)	
Client: We Sample ID: Date Recei Date Sampl	B 1 ved: 11/2	6/01	ental		Sample Mat CAS LAB Date Analy	NO: 012 zed: 11/	er 40401 28/01 & 29/01
		CAM	17 METALS	S ANALYS	IS		
METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LII TTLC (mg/L)	MITS STLC (mg/L)	EPA METHOD
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver	BQL BQL BQL BQL BQL BQL 0.030 BQL BQL BQL BQL BQL BQL BQL BQL BQL	0.1 0.03 0.06 0.1 0.03 0.04 0.05 0.03 0.09 0.0005 0.08 0.08 0.08 0.01			500 500 10000 75 100 2500 8000 2500 1000 20 3500 2000 100	15 5 100 0.75 1 560 80 25 5 0.2 350 20 1	200.7 206.2 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 245.1 200.7 200.7 200.7 200.7
Thallium Vanadium Zinc	BQL BQL 0.23 BQL	0.06 0.2 0.07 0.06		•	500 700 2400 5000	5 7 24 250	200.7 200.7 200.7 200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



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	· .		5 Eastman Ventura	Avenue,		5)	· · · · ·
Client: We			ental	Samp	le Matrix:	MB for	Liquid
Sample ID:	Method I	Blank		CI	AS LAB NO:	012404-	MB
		CAM	17 METALS	ANALYS	[S		· · · · · · · · · · · · · · · · · · ·
		TTLC		STLC	CAM LI	<b>AITS</b>	
	TTLC	PQL	STLC	PQL	TTLC	STLC	EPA
METALS	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1	·	<u>`</u> ~	75	0.75	
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05	· .		8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005	- -	i.	20	0.2	245.1
Molybdenum		0.08		н 	3500	350	200.7
Nickel	BQL	0.08	- · · · ·		2000	20	200.7
Selenium	BQL	0.01	· · ·		100	. <b>1</b> .	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

Principal Analyst



Client: West Coast Environmental	Sample Matrix:	Water
Sample ID: B1	CAS LAB NO:	01240401
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01

## CAM 17 METALS ANALYSIS

Arsenic0.110.0350052Barium3.90.06100001002BerylliumBQL0.1750.752Cadmium0.040.0310012Chromium0.960.0425005602Cobalt0.500.058000802Copper0.940.032500252	
Arsenic0.110.0350052Barium3.90.06100001002BerylliumBQL0.1750.752Cadmium0.040.0310012Chromium0.960.0425005602Cobalt0.500.058000802Copper0.940.032500252	00.7
BerylliumBQL0.1750.752Cadmium0.040.0310012Chromium0.960.0425005602Cobalt0.500.058000802Copper0.940.032500252	06.2
Cadmium0.040.0310012Chromium0.960.0425005602Cobalt0.500.058000802Copper0.940.032500252	00.7
Chromium0.960.0425005602Cobalt0.500.058000802Copper0.940.032500252	00.7
Cobalt0.500.058000802Copper0.940.032500252	00.7
Copper 0.94 0.03 2500 25 2	00.7
	00.7
Lead 0.26 0.09 1000 5 2	00.7
	00.7
Mercury BQL 0.0005 20 0.2 2	45.1
Molybdenum BQL 0.08 3500 350 2	00.7
Nickel 0.75 0.08 2000 20 2	00.7
Selenium BQL 0.01 100 1 2	70.2
Silver BQL 0.06 500 5 2	00.7
Thallium         0.7         0.2         700         7         2	00.7
Vanadium 1.7 0.07 2400 24 2	00.7
Zinc 2.9 0.06 5000 250 2	00.7

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analyst Principal



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Client: West Coast EnvironmentalSample Matrix: MB for LiquidSample ID: Method BlankCAS LAB NO: 012404-MB

		· · · · · · · · · · · · · · · · · · ·					-
		CAM	17 METALS	ANALYSI	[S		
METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQI (mg/L)	CAM LIN TTLC (mg/L)	MITS STLC (mg/L)	EPA METHOD
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobal Copper Lead Mercusy Molybdenum Nickel Selenium Silver Thallium Vanadium	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	0.1 0.03 0.06 0.1 0.03 0.04 0.05 0.03 0.09 0.0005 0.08 0.08 0.08 0.08 0.01 0.06 0.2 0.07			500 500 10000 75 100 2500 8000 2500 1000 20 3500 2000 100 500 700	15 5 100 0.75 1 560 80 25 5 0.2 350 20 1 5 7	200.7 206.2 200.7 200.7 200.7 200.7 200.7 200.7 200.7 245.1 200.7 200.7 200.7 200.7 200.7 200.7 200.7
Zinc	BQL	0.06			2400 5000	24 250	200.7 200.7

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

GAPCO Analytical Services, Inc.

Client: West Coast Environmental	Sample Matrix: Soil
Sample ID: B1,B2 Comp	CAS LAB NO: 01240402,3
Date Received: 11/26/01	Date Analyzed: 11/26/01-
Date Sampled: 11/26/01	11/27/01

• .		CAM	17 METALS	ANALYSIS			
METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver Thallium Vanadium	BQL 1.9 58 BQL BQL 46 BQL BQL 2.6 BQL 10 BQL BQL BQL BQL 16	8 0.5 10 0.8 1 9 10 10 0.6 0.1 20 10 0.5 2 0.2 7			500 500 10000 75 100 2500 8000 2500 1000 20 3500 2000 100 500 700 2400	$     15 \\     5 \\     100 \\     0.75 \\     1 \\     560 \\     80 \\     25 \\     5 \\     0.2 \\     350 \\     20 \\     1 \\     5 \\     7 \\     24 $	6010 7060 6010 6010 6010 6010 6010 7421 7471 6010 6010 7740 6010 7841 6010
Zinc	28	10			5000	250	6010

Principal Analyst



Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-5	CAS LAB NO:	01240404
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01

CAM 17 METALS ANALYSIS

· · · ·		TTLC	1	STLC	CAM LIM	TTTC	
METALS	TTLC (mg/Kg)	PQL (mg/Kg)	STLC (mg/L)	PQL (mg/L)	TTLC (mg/Kg)	STLC (mg/L)	EPA METHOD
Antimony	BQL	8		· · · ·	500	15	6010
Arsenic	1.8	0.5			500	5	7060
Barium	67	10		•	10000	100	6010
Beryllium	BQL	0.8		· · ·	75	0.75	6010
Cadmium	BQL	1	i i		100	1	6010
Chromium	12	9			2500	560	6010
Cobalt	BQL	10		•	8000	80	6010
Copper [%]	BQL	10			2500	25	6010
Lead	3.6	0.6	·	2000 - N. 1990 - N.	1000	5	.7421
Mercury	BQL	0.1	an a		20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10		· .	2000	20	6010
Selenium	BQL	0.5	:		100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	23	7	· · ·		2400	24	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

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Principal Analyst

5000

250

6010

P°C () Analytical Services, Inc.

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Zinc

Client: West Coast Environmental	Sample Matrix: Soil
Sample ID: B2-10	CAS LAB NO: 01240405
Date Received: 11/26/01	Date Analyzed: 11/26/01-
Date Sampled: 11/26/01	11/27/01

### CAM 17 METALS ANALYSIS

	METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD	
	Antimony	BQL	8	· /		500	15	6010	
•	Arsenic	2.2	0.5			500	5	7060	
	Barium	42	10			10000	100	6010	
	Beryllium	BQL	0.8			75	0.75	6010	
	Cadmium	BQL	1		-	100	1	6010	
	Chromium	13	9			2500	560	6010	
	Cobalt 🌾	BQL	10			8000	80	6010	
	Copper	BQL	10			2500	25	6010	
	Lead	2.8	0.6			1000	5	7421	
	Mercury	BQL	0.1		•	20	0.2	7471	
	Molybdenum	BQL	20			3500	350	6010	
	Nickel	BQL	10		-	2000	20	6010	
	Selenium	BQL	0.5			100	1	7740	
	Silver	BQL	2			500	5	6010	
	Thallium	BQL	0.2			700	7	7841	
	Vanadium	20	7			2400	24	6010	
	Zinc	21	10		•	5000	250	6010	

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analytical Services, Inc.

Principal And lyst

Client: West Coast Environmental		Sample Matrix:	Soil
Sample ID: B2-15		CAS LAB NO:	01240406
Date Received: 11/26/01		Date Analyzed:	11/26/01-
Date Sampled: 11/26/01			11/27/01
· · · · · · · · · · · · · · · · · · ·			1. State 1.

### CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony	BQL	. 8			500	15	6010
Arsenic	3.8	0.5			500	5	7060
Barium	34	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1 .	5		100	1	6010
Chromium	16	9			2500	560	6010
Cobalt	BQL	10		•	8000	80	6010
Copper	BQL	10		· .	2500	25	6010
Lead	2.8	0.6			1000	5	7421
Mercury	BQI	0.1			20	0.2	7471
Molybdenum	BQL	20.			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	- 5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	21	7			2400	24	6010
Zinc	19	10			5000	250	6010
			1				

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

GAPCO Analytical Services, Inc.

Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-25	CAS LAB NO:	01240408
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01
Date Sampled: 11/26/01		11/27/01

· ·	· · · ·	CAM	17 METALS	ANALYSĮS	· · · · · · · · · · · · · · · · · · ·		
		TTLC		STLC	CAM LIM	ITS	
	TTLC	PQL	STLC	PQL	TTLC	STLC	EPA
METALS	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/L)	(mg/Kg)	(mg/L)	METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.6	0.5	• •		500	5	7060
Barium	27	10			10000	100	6 <b>0</b> 10
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	l			100	1	6 <b>0</b> 10
Chromium	BQL	9	e e e e e e e e e e e e e e e e e e e		2500	560	6 <b>0</b> 10
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	1.3	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10		1	2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2		- -	700	7	7841
Vanadium	8.0	7			2400	24	6 <b>0</b> 10
Zinc	15	10		· *	5000	250	6010

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

Analytical Services, Inc.

Client: West Coast Environmental	Sample Matrix:	Soil
Sample ID: B2-30	CAS LAB NO:	01240409
Date Received: 11/26/01	Date Analyzed:	11/26/01-
Date Sampled: 11/26/01		11/27/01

# CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8		•	500	15	6010
Arsenic	3.2	0.5			500	5	7060
Barium	230	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	20	9			2500	560	6010
Cobalt 💲	BQL	10			8000	80	6010
Copper -	12 .	10			2500	25	6010
Lead	5.3	0.6			1000	5	7421
Mercury .	BQL	0.1	·		20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10	,		2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	2.8	7			2400	24	6010
Zinc	50	10			5000	250	6010

Principal Analyst



Client: West Coast EnvironmentalSample Matrix: MB for SolidSample ID: Method BlankCAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIM TTLC (mg/Kg)	ITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	BQL	0.5		· · ·	500	5	7060
Barium	BQL	10	- -		10000	100	6010
Beryllium	BQL	0.8	•		75	0.75	6010
Cadmium	BQL	· I .		•	100	1	6010 6010
Chromium	BQL	2.9			2500	560	6010 6010
Cobalt	BQL	10			8000	80	
Copper 👔	BQL	10			2500	25	6010
Lead	BQL	0.6			1000	25 5	6010
Mercury	BQL	0.1		· ·	20		7421
Molybdenum	BQL	20 7.				0.2	7471
Nickel	BQL	10			3500	350	6010
Selenium	BQL	0.5	· · ·		2000	20	6010
Silver	BQL	2	· .	•	100		7740
Thallium	BQL	0.2			500	5	6010
Vanadium	BQL	7			700	7	7841
Zinc	BQL	10			2400	24	6010
· · · · ·	777	τu			5000	250	6010

Principal



Client: West Coast Environmental	Sample Matrix: Soil
Lab ID: 012404	Date Received: 11/26/01
Analyst: ENN	Date Sampled: 11/26/01

HEXAVALENT CH	IROMIUM
---------------	---------

CAS Lab #	Sample ID	RESULTS (mg/Kg)	Dil Factor	PQL (mg/Kg)
01240402,3	B1,B2 Comp	BQL	· 1 ·	10
01240404	B2-5	BQL	1	10
01240405	B2-10	BQL	1	10
01240506	B2-15	BQL	1	10 /
01240507	B2-20	BQL	. 1 .	10
01240508	B2-25	BQL	1	10
01240509	B2-30	BQL	1	10
012405-MB	Method Blank	BQL	1	10

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit EPA Method: 7196

Principal Analyst



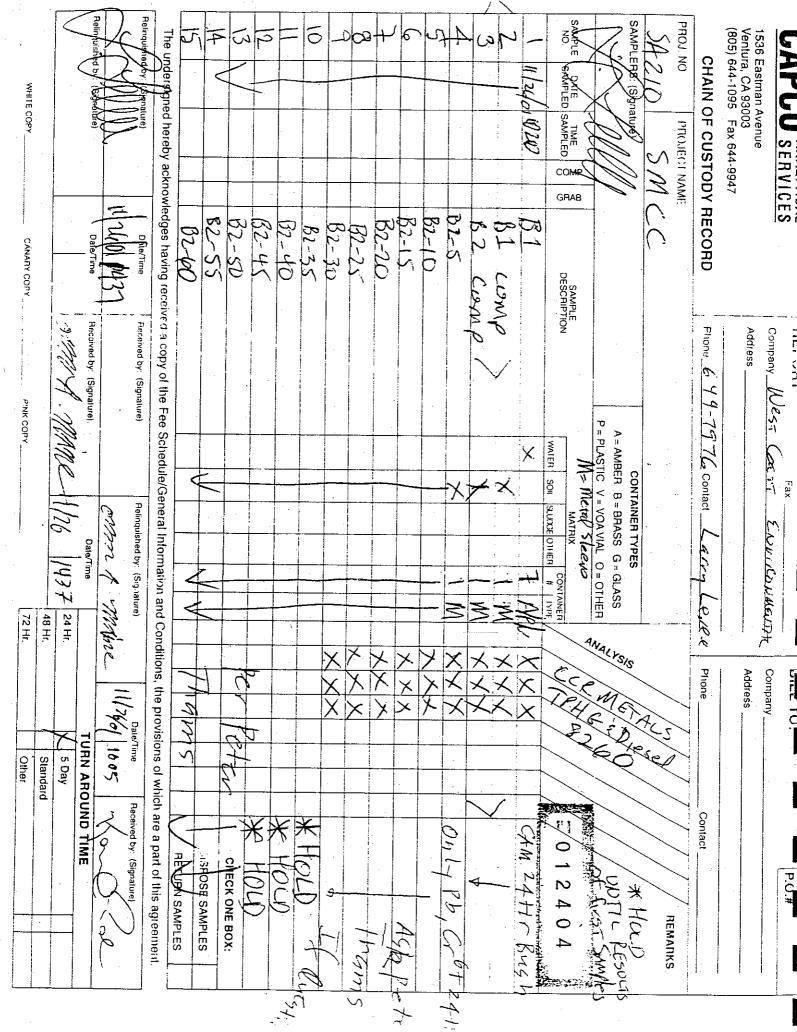
Client: West Coast Environmental	Sample Matrix: Soil
Lab ID: 012404	Date Received: 11/26/01
Analyst: ENN	Date Sampled: 11/26/01

		HEXAVALENT CHROMIUM		
CAS Lab #	Sample ID	RESULTS (mg/L)	Dil Factor	PQL (mg/L)
01240401 012404-MB	B1 Method Blank	BQL BQL	1 1	0.03

PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit EPA Method: SM3500D

Principal Analyst





	Other	72 Hr.	PINK COPY	P	CANALS COPY		
dard	Standard	48 Hr.		:		WHITE COPY	
Y	X 5 Day	11/26/01 1437 24 Hr.	A. MANE	March			$\left  \right $
ROUND	TURN A	Date/Time		Received by (Signature)	Oate/Time	ished by (Signakurë)	
Received by: (Signalura)	- 11/26/01 1605	Content by Signature)		(antital de contracteur)	Letter NOPTITI	_ <del>_//</del>	$\downarrow$
and Conditions, the provisions of which are a part of this agreement.	tions, the provisions of a	Schedule/General Information and Condi		Backland by Views	Date/Time	Plainguished by (Signalurp)	Pjelingu
RETURN SAMPLES				aived a conv of the	The understand hereby acknowlednes having received a convol the	undersigned hereby a	
DISPOSE SAMPLES							
CHECK ONE BOX:							
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	1 L M-10	CONTAINER TYPES	CONT	-		IP/EEAS: (Shopporture)/	SAMP
REMARKS	A AN			-	SOM CC	1210 PROJECT NAM	PROJ
Contact	Phone		1-797 Contact	Phone 640	TODY RECORD	CHAIN OF CUSTODY RECORD	]
	Address			nun ess	9947	ventura, CA 93003 (805) 644-1095 Fax 644-9947	(80) Ve
	7	していてたになるのであ	1 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	, ,		36 Eastman Avenue	ភ្លៃ
P.C.#	•		6.35	Commany //	SERVICES	UNI UU SEA	C

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Prepared For:	West Coast Environmental	December	7,	2001
	4253 Transport St., Suite A			
· · ·	Ventura, CA 93003			

ATTENTION: Larry Levee/Peter Thams

Laboratory No: 012474	 Job	No:	B05541
Date Received: 05-DEC-01	Sampled	By:	Client
Project: SMCC (SA 210)		ID:	See Below

#### RESULTS

On December 5, 2001 thirty-three (33) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 16 pages excluding the cover letter, and the Chain of Custody.

	<u>SAMPI</u>	E	DI	<u>ESCR</u>	IPTION
	TEMP	1	@	50 ⁱ	
	TEMP	1	6	55 ·	
	TEMP	1	@	60'	
	TEMP	3	@	5'	
	TEMP	3	@	101	
	TEMP	3	@	15'	
	TEMP	3	@	20'	
	TEMP	3	@	25'	
•	TEMP	3	@	30'	
	TEMP	3	@	351	
	TEMP	3 -	@	40'	
-	TEMP	3	@	45'	•
	TEMP	3	@	50'	
	TEMP	3	@	551	
	TEMP	3	@	60'	

*HOLD PER CUSTOMER REQUEST

CAS LAB NUMBER 01247401*HOLD 01247402*HOLD 01247403*HOLD 01247404*HOLD 01247405*HOLD 01247406*HOLD 01247407*HOLD 01247408*HOLD 01247409*HOLD 01247410*HOLD 01247411*HOLD 01247412*HOLD 01247413*HOLD 01247414*HOLD 01247415*HOLD

Dan A. Farah, Ph.D. Director - Analytical Operation

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Prepared Fo	r: West Coas	t Environmental	Decembe	r 7, 2001
	4253 Tran	sport St.,Suite A	A	
	Ventura,	CA 93003		

### ATTENTION: Larry Levee/Peter Thams

Laboratory No:	012474	· · ·	· ·	Job	No:	B05541
Date Received:	05-DEC-01	#		Sampled	By:	Client
Project: SMCC	(SA 210)			. –	ID:	See Below
			1			

### RESULTS

	<u>SAMPI</u>	ΞE	DE	ISCRI	PTION	I					CAS	LAB	NUM	BER	
	TEMP	3	@	651							0124	741	6 * HC	LD	
	TEMP	2	@	5'							0124	741	7*HC	LD	
÷.	TEMP	2	0	10'		•					0124	741	8*HC	LD	
	TEMP	2	@	15'							0124	741	9*HC	LD	
	TEMP	2	@	20'							0124	742	0 * HC	LD	
•	TEMP	2	0	25'							0124	742	1*HC	LD	
	TEMP	2	@	30'							0124	742	2*HC	ЪD	
1919 - S	TEMP	2	@	351							0124	742	3 <b>*</b> HC	LD .	•
· · · .	TEMP	2	@	40'						`.	0124	742	4*HC	$^{\rm LD}$	
	TEMP	2	@	45							0124	742	5*HC	LD	
4	TEMP	2	@	50'							0124	742	6*HC	LD	
	TEMP	2	@	55'			· · ·				0124	742	7*HC	LD	
	TEMP	2	@	60'	•	·					0124	742	8*HC	LD	
	TEMP	2	@	65'							0124	742	9*HC	LD -	
	TEMP	1						· •	. *		0124	743	0		
	TEMP	2									0124	743	1		
	TEMP	3						·. ·.			0124	743	2		,
	TRIP	BI	A	1K				• ·			0124	743	3		

### *HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D. Director - Analytical Operation

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Client: West Coast Environmental Lab ID: 012474 Matrix: Water

Analyst: AN & JD Date Received: 12/5/01

TOTAL PETROLEUM HYDROCARBONS EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec
CAS Lab #: 01247430 Client ID: Temp 1		Date Ext Date Ana	racted: 1 alyzed: 1	12/6/01
TPH - (C4 - C12)	0.21	1.0	0.05	 
TPH - (C13 - C22) TPH - (C23+)	BQL BQL	1	10	76
CAS Lab #: 01247431 Client ID: Temp 2		Date Ext Date Ana	racted: 1 alyzed: 1	
TPH - (C4 - C12)	BQL	1.0	0.05	
TPH - (C13 - C22) TPH - (C23+)	BQL BQL	1	10	45*

*Low surrogate recovery due to matrix interference

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

Principal Analyst



Car	co Analytical S			
	1536 Eastman A		B	
$X_{i} = \{i,j\}$	Ventura C		. · ·	
	(805) 64	4-1095		a. '
Client: West Coast	Environmental			* 3.7 or
Lab ID: 012474	hivitoimentai		Analyst:	
Matrix: Water		Date	Received:	12/5/01
	TOTAL PETROLEUM	HYDROCARBON	3	
	EPA METHO		-	
- -				
· · ·	Concentration	Dilution	PQL	Surrogate
Compound	mg/L	Factor	mg/L	-
=======================================			=======================================	
CAS Lab #: 01247432	۰.	<u>.</u>	_	
Client ID: Temp 3	2		tracted:	
		Date A	nalyzed:	12/6/01
TPH - (C4 - C12)	BQL	1.0	0.05	:
	~~~~	1.0	0.05	
TPH - (C13 - C22)	BQL	1	10	64
TPH - (C23 +)	BQL	· _		04
			:	с.
CAS Lab #: 012474-M		Date Ex	tracted:	12/6/01
Client ID: Method B	lank		nalyzed:	
		•		· · · · · · · · · · · · · · · · · · ·
TPH - (C4 - C12)	BQL	1.0	0.05	·
				x
TPH - (C13 - C22) TPH - (C23+)	BQL	1	10	72
$1_{211} - (C_{23} +)$	BQL			

Surrogate: n-Undecane Surrogate Control Limits: 57 - 114 % PQL: Practical Quantitation Limit BQL: Below Practical Quantitation Limit

Principal Analyst



	(002) 011 100		
Client: West Coast Enviro Sample ID: Temp 1 CAS LAB NO: 01247430 Date Received: 12/5/01 Date Sampled: 12/5/01	onmental	Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Water N/A
VOLAT	ELE ORGANIC COM EPA Method 8260		
Compound	Concentration ug/L	Factor	PQL ug/L
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane N-Butylbenzene sec-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropa 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

lesser-Principal Analyst



(Comes)

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Date Analyzed: 12/6/01 Analyst: AN Client: West Coast Environmental Sample ID: Temp 1 Sample Matrix: Water CAS LAB NO: 01247430 Date Extracted: N/A Date Received: 12/5/01 Time Sampled: N/A Date Sampled: 12/5/01 VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued Concentration Dilution FQL Factor ug/L uq/L Compound _______ 1.0 Ethylbenzene BQL 1 1 0.5 Hexachlorobutadiene BOL 1 0.5 BQL Isopropylbenzene 0.5 1 p-Isopropyltoluene BOL 1 2.0 Methylene Chloride BQL 1.0 1 BOL Napthalene 1.0 BQL 1 N-Propylbenzene 1 0.5 Styrene BOL 1 1.0 1,1,1,2-Tetrachloroethane BOL BQL 1,1,2,2-Tetrachloroethane 1 0.5 1 1.0 6.5 Tetrachloroethene 1 Э.5 Toluene BOL BQL 1 1,2,3-Trichlorobenzene 1.0 1 1,2,4-Trichlorobenzene BOL 1.0 4.3 1 . 1.0 1,1,1-Trichloroethane 1.0 1,1,2-Trichloroethane 20 1 1 1.0 Trichloroethene 250 1 1.0 Trichloroflouromethane BOL 1 0.5 1,2,3-Trichloropropane BOL 1 1.0 1,2,4-Trimethylbenzene BOL 1 1.0 1,3,5-Trimethylbenzene BOL 1.0 Vinyl Chloride 1 BQL 1 2.0 Total Xylenes BQL 1. 5:0 MTBE BQL SURROGATE RECOVERY % Recovery Control Limits Surrogate

Dibromofluoromethane	100	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	90	86-115%

~ · · · · · -Principal Analyst



			Suite B					
Client: West Coas Sample ID: Temp 2 CAS LAB NO: 0124 Date Received: 12 Date Sampled: 12	2 7431 2/5/01		Date Analyzed: Analyst: Sample Matrix: Date Extracted: Time Sampled:	AN Water N/A				
VOLATILE ORGANIC COMPOUNDS EPA Method 8260B								
Compound		ntration g/L	Dilution Factor	PQL ug/L				

Compound	ug/L	Factor	ug/L
Benzene	BQL		0.5
Bromobenzene	BQL	. 1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	<u>1</u>	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	` <u>1</u>	0.5
tert-Butylbenzene	BQL	1 👘	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene 📿	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL :	. 1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane		1	5.0
1,2-Dibromoethane	BQL	· 1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	30	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

A P C O Analytical Services, Inc.

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Client: West Coast Environmental Sample ID: Temp 2 CAS LAB NO: 01247431 Date Received: 12/5/01 Date Sampled: 12/5/01

Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroflouromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride Total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	Factor 1 1 1 1 1 1 1 1 1 1 1 1 1	ug/L 1.0 0.5 0.5 2.0 1.0 1.0 0.5 1.0 0.5 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	1.01	06 1108
Toluene-d8	101 90	86-118% 88-110%
4-Bromofluorobenzene	86	86-115%

Leal. Principal Analyst



Client: West Coast Enviro	nmental
Sample ID: Temp 3	
CAS LAB NO: 01247432	
Date Received: 12/5/01	
Date Sampled: 12/5/01	

Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS EPA Method 8260B

Benzene BQL 1 0.5 Bromobenzene BQL 1 0.5 Bromochloromethane BQL 1 0.5 Bromochloromethane BQL 1 0.5 Bromodichloromethane BQL 1 1.0 Bromomethane BQL 1 1.0 Bromomethane BQL 1 0.5 N-Butylbenzene BQL 1 0.5 sec-Butylbenzene BQL 1 0.5 carbon tetrachloride BQL 1 0.5 chlorobenzene BQL 1 0.5 chlorotethane BQL 1 0.5 chlorotoluene BQL 1 1.0 Chlorotoluene BQL 1 0.5 1, 2-Dibromo-3-chloropropane BQL 1 0.5 1, 2-Dibromoethane BQL 1 0.5 1, 2-Dibromoethane BQL 1 0.5 1, 2-Dichlorobenzene BQL 1 0.5 <
1,1-Dichloropropene BQL 1 0.5

8en Principal Analyst



Client: West Coast Environmental Date Analyzed: 12/6/01 Sample ID: Temp 3 Analyst: AN CAS LAB NO: 01247432 Sample Matrix: Water Date Received: 12/5/01 Date Extracted: N/A Date Sampled: 12/5/01 Time Sampled: N/A VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued Concentration Dilution Factor PQL Compound uq/L uq/L Ethylbenzene BOL 1.0 BQL BQL BQL BQL BQL BQL Hexachlorobutadiene 1 0.5 Isopropylbenzene 1 0.5 p-Isopropyltoluene 1 0.5 2.0 Methylene Chloride 1 1 Napthalene 1.0 N-Propylbenzene BQL 1 1.0 1 0.5 Styrene BQL l, 1,1,1,2-Tetrachloroethane 1.0 BQL 1 1,1,2,2-Tetrachloroethane BQL 0.5 BQL Tetrachloroethene l 1.0 l Toluene BOL 0.5 1,2,3-Trichlorobenzene 1 BQL 1.0 1 1,2,4-Trichlorobenzene 1.0 BOL1 1.0 1,1,1-Trichloroethane BOL 1,1,2-Trichloroethane BOL 1 1.0 Trichloroethene > 0.88 1 1.0 Trichloroflouromethane BQL 1 1.0 1 1,2,3-Trichloropropane BQL 0.5 1,2,4-Trimethylbenzene 1 BQL -1.0 1 1,3,5-Trimethylbenzene BOL 1.0 Vinyl Chloride 1. BOL 1.0 Total Xylenes BQL 1 2.0 MTBE BQL 1 5.0 SURROGATE RECOVERY % Recovery Control Limits Surrogate _____

Dibromofluoromethane	97	86-118%
Toluene-d8	97	88-110%
4-Bromofluorobenzene	92	86-115%

Principal Analyst



(805) 644-	-1095
Client: West Coast Environmental Sample ID: Trip Blank CAS LAB NO: 01247433 Date Received: 12/5/01 Date Sampled: 12/5/01	Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: N/A
VOLATILE ORGANIC EPA Method	
Concentra Compound ug/L	Factor ug/L
BenzeneBQIBromobenzeneBQIBromochloromethaneBQIBromochloromethaneBQIBromodichloromethaneBQIBromodichloromethaneBQIBromodichloromethaneBQIBromomethaneBQIBromomethaneBQIsec-ButylbenzeneBQIcarbon tetrachlorideBQIChlorobenzeneBQIChlorotolueneBQI2-ChlorotolueneBQI1,2-Dibromo-3-chloropropaneBQI1,2-DibromoethaneBQI1,2-DibromoethaneBQI1,3-DichlorobenzeneBQI1,4-DichlorobenzeneBQI1,1-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichlorobenzeneBQI1,3-DichlorobenzeneBQI1,1-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,2-DichloroethaneBQI1,3-DichloropropaneBQI1,3-DichloropropaneBQI1,2-DichloropropaneBQI1,2-DichloropropaneBQI1,3-DichloropropaneBQI1,1-DichloropropaneBQI1,1-DichloropropaneBQI1,1-DichloropropaneBQI1,1-DichloropropaneBQI1,1-DichloropropaneBQI1,1-DichloropropaneB	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Lessen Principal Analyst

A P C O Analytical Services, Inc.

Client: West Coast Environmental Sample ID: Trip Blank CAS LAB NO: 01247433 Date Received: 12/5/01 Date Sampled: 12/5/01

Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: Water Date Extracted: N/A Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration	Dilution	PQL
	ug/L	Factor	ug/L
Compound ====================================	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	Factor 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 0.5 0.5 2.0 1.0 1.0 0.5
1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroflouromethane 1,2,3-Trichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	1 1 1 1 1 1 1 1 1 1 1	1.0 0.5 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.0 0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane Toluene-d8	101	86-118%
	89	88-110%
4-Bromofluorobenzene	86	86-115%

eer Principal Analyst



Client: West Coast Environmental Sample ID: Method Blank CAS LAB NO: 012474-MB Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS EPA Method 8260B

Compound	Concentration	Dilution	PQL
	ug/L	Factor	ug/L
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane N-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropa 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropane	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL		$\begin{array}{c} 0.5\\ 0.5\\ 0.5\\ 1.0\\ 1.0\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 0.5\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 1.0\\ 0.5\\ 0.5\\ 1.0\\ 0.5\\ 0.5\\ 1.0\\ 0.5\\ 0.5\\ 1.0\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0$

Principal Analyst



Client: West Coast Environmental Sample ID: Method Blank CAS LAB NO: 012474-MB Date Analyzed: 12/6/01 Analyst: AN Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene Hexachlorobutadiene Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene N-Propylbenzene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,2,2-Trichloroethane	ug/L BQL BQL BQL BQL BQL BQL BQL BQL BQL BQ		ug/L 1.0 0.5 0.5 2.0 1.0 1.0 0.5 1.0 1.0 1.0 0.5 1.0 1.0 1.0 1.0 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Trichloroethene Trichloroflouromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride Total Xylenes MTBE	BQL BQL BQL BQL BQL BQL BQL BQL	1 1 1 1 1 1 1	$ \begin{array}{c} 1.0\\ 1.0\\ 0.5\\ 1.0\\ 1.0\\ 1.0\\ 2.0\\ 5.0\\ \end{array} $

SURROGATE RECOVERY

Surrogate	<pre>% Recovery</pre>	Control Limits
Dibromofluoromethane	102	86-118%
Toluene-d8	90	88-110%
4-Bromofluorobenzene	87	86-115%

BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Analytical Services, Inc.

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acheel Principal Analyst

Client: West Coast Environmental	Sample Matrix:	Water
Sample ID: Temp 1	CAS LAB NO:	01247430
Date Received: 12/5/01	Date Analyzed:	12/5/01 &
Date Sampled: 12/5/01		12/5/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIN TTLC (mg/L)	1ITS STLC (mg/L)	EPA METHOD
Antimony Arsenic	BQL BQL	0.1 0.03		· · · ·	500 500	15 5	200.7 206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0:75	200.7
Cadmium	BQL	0.03			100	1 1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03		•	2500	25	200.7
Lead	BQL	0.09		,	1000	5	200.7
Mercury	BQL	0.0005	•		20	0.2	245.1
Molybdenum	BQL	0.08		· .	3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst



Client: West Coast Environmental	Sample Matrix: Wa	ter
Sample ID: Temp 3	CAS LAB NO: 01	247432
Date Received: 12/5/01	Date Analyzed: 12	:/5/01 &
Date Sampled: 12/5/01	12	/6/01

CAM 17 METALS ANALYSIS

		TTLC		STLC	CAM LIM	IITS
METALS	TTLC (mg/L)	PQL (mg/L)	STLC (mg/L)	PQL (mg/L)	TTLC (mg/L)	STLC (mg/L)
Antimony	BQL	0.1		- 	500	15
Arsenic	BQL	0.03			500	5
Barium	BQL	0.06	· ·		10000	100
Beryllium	BQL	0.1	•		75	0.75
Cadmium	BQL	0.03			100	1
Chromium	BQL	0.04			2500	560
Cabalt	DOT	<u> </u>		· · · ·		1

Cadmium	BQL	0.03	100	1	200.7
Chromium	BQL	0.04	2500	560	200.7
Cobalt	BQL	0.05	8000	80	200.7
Copper	BQL	0.03	2500	25	200.7
Lead	BQL	0.09	1000	5	200.7
Mercury	BQL	0.0005	20	0.2	245.1
Molybdenum	BQL	0.08	3500	350	200.7
Nickel	BQL	0.08	2000	20	200.7
Selenium	BQL	0.01	100	1	270.2
Silver	BQL	0.06	500	5	200.7
Thallium	BQL	0.2	700	7	200.7
Vanadium	0.39	0.07	2400	24	200.7
Zinc	BQL	0.06	5000	250	200.7

*Sample was filtered prior to analysis BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

EPA

METHOD

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200.7

206.2

200.7

200.7



Client: West Coast EnvironmentalSample Matrix: MB for LiquidSample ID: Method BlankCAS LAB NO: 012474-MB

		CAM	17 METALS	ANALYSIS	3		
METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIN TTLC (mg/L)	MITS STLC (mg/L)	EPA METHOD
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc	BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL	0.1 0.03 0.06 0.1 0.03 0.04 0.05 0.03 0.09 0.0005 0.08 0.08 0.08 0.01 0.06 0.2 0.07 0.06			500 500 10000 75 100 2500 8000 2500 1000 20 3500 2000 100 500 700 2400 5000	15 5 100 0.75 1 560 80 25 5 0.2 350 20 1 5 7 24 250	200.7 206.2 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 200.7 270.2 200.7 200.7 200.7 200.7 200.7

*Sample was filtered prior to analysis BQL: Below Practical Quantitation Limit PQL: Practical Quantitation Limit

Principal Analyst

Analytical Services, Inc.

122

	REMARKS	-012474	1 total and the second se	*10-D								The samples	AFTURN SAMPLES	th are a part of this agreement. Received by: (Signature)	D TIME		
	() / () / ()	ALL MALES	the state of											Iditions, the provisions of which a Date/Hum Rec	TURN AROUND TIME		Standard
eusti Euviten Compa		CONTAINER TYPES A = AMBER B = BRASS G = GLASS - PLASTIC V - VOA VIAL O = OTHER	CONTAINER	× ×										Schedule/General Information and Conditions, the provisions of which are a part of this agreement Relinquisted by: (Signature) Date/Lina Received by: (Signature)	Date/Time	12-5-01 22-30 24 Hr.	48 Hr.
Company W Ent. Cou. Adding	_		SAMPLE DESCRIPTION			Ø	4 0 151	u @ 201	u @ 251) @)(11 0 20')@			Arcound by (Signature)	11 Mahan Rowass	1
UTE UU SEILVIUES 1536 Eastman Avenue Ventura, CA 93003 (805) 644-1095 Fax 644-0947 (805) 644-1095 Fax 644-0947 CHAIN OF CUSTODY RECORD	PROJECT NAME SMC - BAE	(Signature)	DATE TIME SAMPLED SAMPLED SAMPLED CO	TEMP	2 2	TEMP 3	5 2						N N	The updersigned hereby acknowledges having received a copy of the Fee inquinted v: (Signatura) Date/Time Date/Time Alexenvel by (September)	Dale/Time		

P.O.#	Contact	REMARKS	2 1 2 4 7 4	A the second s	KHOLD										/	CHECK ONE BOX:	WSPOSE SAMPLES	RETURN SAMPLES	Received by: (Signature)		id time		
Company Address	te to de la constante de la const	Martin Martin	C.A.	ALL									•					s, the provisions of which a	Date/Time Rec		TURN AROUND TIME	5 Day	Standard
Fax by 4 5721 Contraction Co	Phone 6 447926 Contract Larry Levee Peret Mannisona		CONTAINER TYPES A - AMBER B - BHASS G = GLASS = PLASTIC V = VOAVIAL O = OTHER	MATRIX SAUTXECONTAINER														Seneral Information and Condition:	Relinquished by: (Signature)		Date/Time	(25.01 2:30 24Hr.	48 Hr.
Harrow I Far	Flow 6447476 Con	KA C		DESCRIPTION WALLI SOIL		ور کر ا		P,		30	35	P	45	R	52	60	65 V	The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement	Received by: (Signature)	30 1	Herroryed by (Signature)	1 Jahn X onesti	
CAFUU SERVICES 1536 Eastman Avenue Ventura, CA 93003 (ADG) 644-1095, Eax 644-9947	CHAIN OF CUSTODY RECORD	PROJECT NAME	Mar April	SOMP BARE	TENV3@65	72mb 20										· · · ·		hereby acknowledges having n	e) / mm / gate/Time	VNNN (2/5/0(1/73	Arguertine bate/Time		
CAPUU SERVIC 1536 Eastman Avenue Ventura, CA 93003 (805) 644- 1095, Fax 644-9947	CHAIN OF	PROJ. NO. P	SAMPLERS: (Signalure)	AMPLE DATE TIME	14 12/4/0	10/2/21 11	18	 00	9	22	23	74	25	270	12	28	V V	The undersigned	Hatinquisheddy: (Signature	XIIIUUR	Belindership out (Sign tur) }	

Company WEST Address Phone \mathcal{L} \mathcal{H} \mathcal	Adst Ewy (Countern Company Address		6 Contact Carry Level Bert Minigrone Contact	O S S S S S S S S S S S S S S S S S S S	CONTAINER TYPES A=AMBER B=BRASS · G=GLASS P=PLASTIC V=VOAVIAL O-OTHER	MATRIX MATRIX	ANNER 9 2 4 7 4 -	AN	3 AN VVV									CHECK ONE BOX:	DISPOSE SAMPLES	The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of using and a states	Relinquished by: (Signature) Date/Time Received by: (Signature)	Date/Time , TURN ABOUND TIME	CM MM 12. 5-01 12-23 24 Hr. X 5 Day	
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B	
nvironmental	
Laboratories, Inc	

Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received:
Work Order No:
Preparation:
Method:

12/05/01 01-12-0180 N/A EPA 8260B

Project: BEA System

Page 1 of 7

Cilent Sample Number:		· ·		Sample Imber;) ·	Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bate	ch ID;
TEMP#1@10'		4 (n. 14). 14 : 1	01-	12-0180) - 2	12/04/01 Solid	N/A	12/05/01	120501	A8 . 333
Parameter	<u>Result</u>	RL	DF	Qual	<u>Units</u>	Parameter	Result	<u>RL</u>	DF Qual	<u>Units</u>
Асетоле	ND	50	1	· · ·	ug/kg	1,3-Dichloropropane	ND	5.0	1	ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1	ug/kg
Bromobenzene	ND	5.0	1	•	ug/kg-	1,1-Dichloropropene	ND	5.0	1	ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1.3-Dichloropropene	ND	5.0	1 '	ug/kg
Bromodichloromethane	ND	5.0	1.		ug/kg	t-1.3-Dichloropropene	ND	5.0	1.	ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1	ug/kg
Bromomethane	ND	5.0	- 1		ug/kg	2-Hexanone	ND	50	1	ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1	ug/kg
n-Butylbenzene	ND ·	5.0	1		ug/kg	p-isopropyltoluene	ND	\$.0	1	ug/kg
soc-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1	ug/kg
ert-Butylbenzene	ND	5.0	. 1		ug/kg	4-Methyl-2-Pentanone	ND	50	1	ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND 🛝	50	1	ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	. 1	ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1	ug/kg
Chioroethane	ND	5.0	1	· · · .	ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1	ug/kg
Chioroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5,0	1	ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachlorcethene	ND 👘	5.0	1	ug/kg
2-Chiorotoluene:	ND	5.0	1		ug/kg	Toluene	ND	5.0	1	ug/kg
1-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1	ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1	ug/kg
.2-Dibromo-3-Chiloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1	ug/kg
1.2-Dibromoethane	ND	5,0	1		ug/kg	1,1,2-Trichloroethane	ND	5,0	1	ug/kg
Dibromomethane	ND	5.0	1 .	·	ug/kg	Trichloroethene	ND	5.0	1	ug/kg
1,2-Dichioroberizene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1	ug/kg
1,3-Dichloroberizene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1	ug/kg
I,4-Dichlorobenzene	ND	5,0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1	ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1	ug/kg
1,1-Dichlomethane	NĎ	5.0	1		ug/kg	Vinyi Acetate	ND	50	it .	ug/kg
2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1	ug/kg
1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1	ug/kg
-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1	ug/kg
-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	ſ	ug/kg
1,2-Dichloropropane	ND	5,0	1		ug/kg					
Surrogates:	<u>REC (%)</u>	Control Limits		Qual		Surropates:	<u>REC (%)</u>	Control Limits	Qual	
Dibromofluoromethane	102	80-120				Toluene-d8	99	81-117		
1,4-Bromofluorobenzene	101	74-121								

RL - Reporting Limit

DF - Dilution Factor .

Qual - Qualifiers



Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received: Work Order No: Preparation: Method:

12/05/01 01-12-0180 N/A EPA 8260B

Project: BEA System

Page 2 of 7

Client Sample Number:			Lab Sample Number:			Date Collected: Matrix	Date Prepared:	Date Analyzed:	QC Batch ID:	
TEMP#1@20			<u>ੇ</u> 019	12-018	54	12/04/01 Solid	NA	12/08/01	120501	BS
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter	Result	<u>RL</u> 1	DE Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1	ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1	ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1	ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1	ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropeле	ND	5.0	1	ug/kg
Bromotoirn	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1	ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1	ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1	ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-isopropyttoluene	ND	5.0	1	ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Mothylene Chloride	ND	50	1	ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Mathyl-2-Pentanone	ND	50	1	ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1	ug/kg
Carbon Tetrachioride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1	ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1	ug/kg
Chloroethane	ND	5.0	1		ug/kg	1.1.1.2-Tetrachioroethane	ND	5.0	1	ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1.	ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1	ug/kg
2-Chlorotolyene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1	ug/kg
-Chlorotoluene	ND	5.0	1		ug/kg	1.2.3-Trichlorobenzene	ND	10	1	ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1.2.4-Trichlorobenzene	ND	5.0	1	ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1	ug/kg
2-Dibromoethane	ND	5.0	1.		ug/kg	1.1.2-Trichloroethane	ND	5.0	1	ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	ND	5.0	1	ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1	ug/kg
1.3-Dichlorobenzene	ND	5.0	· 1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1	ug/kg
1.4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1	ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1	ug/kg
I.1-Dichloroethane	ND	5.0	1		ug/kg	Vinyi Acetate	ND	50	1	ug/kg
1.2-Dichloroethane	ND	5.0	- i		ug/kg	Vinyl Chloride	ND	5.0	1	ug/kg
1,1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1	ug/kg
-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1	ug/kg
-1.2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	ug/kg
1.2-Dichloropropane	ND	5.0	1		ug/kg				-	
Surrogates:	REC (%)	Control	•	Qual	~ A. vA	Sunogates:	<u>REC (%)</u>	<u>Control</u>	Qual	i .
Dibromofluoromethane	105	<u>Umits</u> 80-120				Toluene-d8	102	<u>Limits</u> 81-117		
1.4-Bromofluorobenzena	99	74-121					-			

RL - Reporting Limit

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DF - Dilution Factor Qual - Qualifiers

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	nvironmental	
Ĩ	aboratories, Inc.	
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Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received:	
Work Order No:	
Preparation:	
Method:	•

ANALYTICAL REPORT

12/05/01 01-12-0180 N/A EPA 8260B

Project: BEA System

Page 3 of 7

Client Sample Number:			NL	Samp Imber:		Date Collected:	Matrix:	Date Prepared:	Date Analyzed	: 00 8	atch ID;
TEMP#1@30			.01	12-018	30-6	12/04/01	Solid	N/A	12/06/0		01BS
Parameter	Result	RL	D E	Qua)	Units	Parameter		Result	RL	DF Qu	al <u>Units</u>
Acelone	ND	50	1		ug/kg	1,3-Dichloropro		ND	5.0	· .	·
Benzene	ND	5.0	· 1		ug/kg	2,2-Dichloropro		ND	5.0 5.0	1	ug/kg
Bromobenzene	ND	5.0	1		ug/kg		hene	ND	5.0 5.0	-	ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1.3-Dichlorop	000000 000000	ND	5.0	1	ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropr	opene .	ND		1	ug/kg
Bromoform	ND	5.0	. 1		ug/kg	Ethylbenzene	ehene.	ND	5.0	1	ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone		ND	5.0	1	ug/kg
Butanone	ND	50	1		ug/kg	Isopropyibenzer			50	1	ug/kg
-Butylbenzene	ND .	5.0	1		ug/kg	p-leopropyitolue		ND	5.0	1	ug/kg
ec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chlor		ND	5.0	1	ug/kg
erl-Butylbenzene	ND .	5.0	1		ug/kg	4-Methyl-2-Pent		ND	50	1	ug/kg
arbon Disuifide	ND	50	ŕ		ug/kg	Naphthalene	anone	ND	50	1	ug/kg
arbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzen	_	ND	50	1	ug/kg
hlorobenzene	ND	5.0	1		ug/kg	Styrene	4	ND	5.0	1	ug/kg
hloroethane	ND	5.0	1		ug/kg			ND	5.0	1	ug/kg
hioroform	ND	5.0	1		ug/kg	1,1,1,2-Tetrachi	proethane	ND	5.0	1.	ug/kg
hloromethane	ND	5.0	1		ug/kg	1.1.2.2-Tetrachie		ND	5.0 N	ຸ 1	ug/kg
Chiorotoluene	ND	5.0	1		ug/kg	Tetrachloroether	18	ND	5.0	1	ug/kg
Chlorotoluene	ND	5.0	1		ug/kg	Toluene		ND	5.0	1	ug/kg
bromochloromethane	ND	5.0	1		nðvyð	1,2,3-Trichlorobe		ND	10	1	ug/kg
2-Dibromo-3-Chioropropane	ND	10	1		ug/kg	1,2,4-Trichiorobe		ND	5.0	1	ug/kg
2-Dibromosinane	ND	5.0	1		ig/kg	1,1,1-Trichloroet		ND	5.0	1	ug/kg
bromomethane	ND	5.0	1			1,1,2-Trichloroet	hane	ND	5.0	1	ug/kg
2-Dichlorobenzene	ND	5.0	1		lg/kg	Trichloroethene		9.4	5.0	1	ug/kg
3-Dichlorobenzene	ND	5.0	. 1		ig/kg	Trichlorofluorome	shane	ND	50	1	ug/kg
1-Dichlorobenzene	ND	5.0	1		lg∕kg vo∕∽a	1,2,3-Trichloroph	enego	ND	5.0	1	ug/kg
chlorodifluoromethane	ND	5.0	1		ig/kg	1,2,4-Trimelhylbe	nzene	NÐ	5.0	1	ug/kg
I-Dichloroethane	ND	5.0	· 1		ig/kg	1,3,5-Trimethylbe	nzene	ND	5.0	.1	ug/kg
2-Dichlorcethane	ND	5.0	. 1		ig/kg	Vinyl Acetate		ND	50	1	ug/kg
-Dichloroethene	39	5	1		ig/kg	Vinyl Chionde		ND	5.0	1	ug/kg
,2-Dichloroethene	ND	5.0	-		l⊈∕kg	p/m-Xylene		ND	5.0	1	ug/kg
2-Dichloroethene	ND	5.0	1 1		g/kg	o-Xylene		ND	5.0	1	ug/kg
-Dichioropropane	ND		•		g/kg	Methyl-t-Butyl Eth	er (MT8E)	ND	5.0	ˈ 1	ug/kg
•		5.0	.1 .		g/kg						
	<u>REC (%)</u>	Control	<u> (</u>	Qual	,	Surrogates:		REC (%)	Control	Qual	
romofluoromethane	106	Limits 80.400						· · · · · · · · · · · · · · · · · · ·	Umits		
-Bromofluorcbenzene	97	80-120 74-121				Toluene-d8		100	81-117		

RL - Reporting Limit

DF - Dilution Factor , Qual - Qualifiera

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 •

FAX: (714) 894-7501

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L alscience	

Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received:	12/05/	01
Work Order No:	01-12-01	80
Preparation:	N. N	l/A
Method:	EPA 826	0B

Project: BEA System

Page 4 of 7

Client Sample Number:		Lab Sample Number:		8	Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	QC Batch ID:		
TEMP#1@40	5 5. 9 9 9 1 3 1 34 3 7 7 2 5 1 -		01	12-018	0-8	12/04/01 Solid	NA	12/06/01	120501	BS	
Parameter	<u>Result</u>	RL	<u>DF</u>	Qual	<u>Units</u>	Parameter	<u>Result</u>	RL	DF Qual	<u>Units</u>	
Acetone	ND	50	1		ug/kg	1.3-Dichloropropane	ND	5.0	1	ug/kg	
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1	ug/kg	
Iromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1	ug/kg	
Bromochloromethane	ND ···	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1	ug/kg	
Iromodichioromethane	ND	5.0	1		ug/kg	I-1,3-Dichloropropene	ND	5.0	1	ug/kg	
iromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1	ug/kg	
Iromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	. 1	UQ/kg	
-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1	ug/kg	
-Butylbanzena	ND	5.0	1		ug/kg	p-isopropyitoluene	ND	5.0	1	ug/kg	
eo-Butylbenzerie	ND	5.0	1	-	ug/kg	Methylene Chloride	ND	50	1	ug/kg	
rt-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1	ug/kg	
arbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1	ug/kg	
arbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1	ug/kg	
hlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1	ug/kg	
hioroethane	ND	5.0	1		ug/kg	1.1.1.2-Tetrachioroethane	ND	5.0	1	•••	
hloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1	ug/kg ug/kg	
hloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		
-Chlorotoluene	ND .	5.0	1		ug/kg	Toluene	ND	5.0	1	ug/kg	
-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10 10	1	ug/kg	
ibromochloromethane	ND	5.0	1		ug/kg	1.2.4-Trichlorobenzene	ND	5.0	1	ug/kg	
2-Dibromo-3-Chloropropane	ND	10	1	•	ug/kg	1,2,4-Trichloroethane	ND	5.0	•	ug/kg	
2-Dibromoethane	ND	5.0	1		ug/kg	••••	ND ND	5.0	1 1	ug/kg	
Ibromomethane	ND	5.0	י 1		ug/kg	1,1,2-Trichloroethane Trichloroethene			1 ¹	ug/kg	
2-Dichloroben::ene	ND .	5.0	י 1		ug/kg	Trichlorofluoromethane	12 ND	. 5 50		ug/kg	
,3-Dichlorobenzene	ND	5.0	1		ug/kg				1.	ug/kg	
4-Dichloroberizene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1	ug/kg	
ichlorodifluorornethane	ND	5.0	1.			1,2,4-Trimsthylbenzene	ND	5.0		ug/kg	
1-Dichloroethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1	ug/kg	
2-Dichloroethane	ND	5.0 5.0	1		ug/kg	Vinyl Acetate	ND	50	1	ug/kg	
1-Dichloroethene	20	5.U 5	•	-	ug/kg	Vinyl Chloride	ND	5.0	1	ug/kg	
1,2-Dichloroethene	ND	5.0	1 1		ug/kg	p/m-Xylene	ND	5.0	1	ug/kg	
1.2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1	ug/kg	
2-Dichloropropane	ND	5.0 5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ŇD	5.0	1	ug/xg	
			٦		ug/kg				a shafi a		
unogates:	<u>REC (%)</u>	Control Limits		Qual		Sumogates:	<u>REC (%)</u>	<u>Control</u> Limits	Qual		
bromofluoromethane	111	80-120				Toluene-d8	100	81+117			
4-Bromofluorobenzene	97	74-121					100	Q1~117			

RL - Reporting Limit , DF - Dilution Factor ,

or , Qual - Qualifiers

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aboratories, Inc.

Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received: Work Order No: Preparation: Method:

12/05/01 01-12-0180 N/A EPA 8260B

Project: BE:A System

Page 5 of 7

Client Sample Number:				Sampl	le .	Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bate	th ID:
TEMP#1@50			01	12-018	i0-10	12/04/01 Solid	N/A	12/06/01	120501	BS
Parameter	Result	RL	DF	<u>Qual</u>	<u>Units</u>	Parameter	Result	RL	DF Qual	<u>Units</u>
Acetone	ND	50 ·	1		ug/kg	1,3-Dichloropropane	ND	5.0	1	ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1	ug/kg
Bromobenzene	ND	5.0	1	•	ug/kg	1.1-Dictiloropropene	ND	5.0	1	ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1.3-Dichloropropene	ND .	5.0	1	ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1	ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1	Ug/kg
3romomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	.1	ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropyibenzene	ND	5.0	1	ug/kg
1-Butylbenzene	ND	5.0	1		ug/kg	p-lsopropyltoluene	ND	5.0	1	ug/kg
sec-Bulylbenzerie	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1	ug/kg
ert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1	ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1	ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1	ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1	ug/kg
Chloroethane	ND	5.0	1		ug/kg	1.1.1.2-Tetrachloroethane	ND	5.0	1	ug/kg
Chloroform	ND	5.0	1		ug/kg	1.1.2.2-Tetrachtoroethane	ND	5.0	1	ug/kg
Chloromethane	ND	5.0	1	-	ug/kg	Tetrachloroethene	ND	5.0	1	ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Тојџепе	ND	5.0	1	ug/kg
I-Chiorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1	uġ/kg
Dibromochloromethane	ND	5.0	1	÷	ug/kg	1.2.4-Trichlorobenzene	ND	5.0	1	ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1	ug/kg
.2-Dibromoathane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1 ·	ug/kg
Dibromomethane	ND	5,0	1		ug/kg	Trichloroethene	38	5	1	ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	NÐ	50	1	ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5,0	1	ug/kg
4-Dichlorobenzena	ND	5.0	.1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1	ug/kg
Dichlorodifluoromethane	ND	5.0	. 1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	- 1	ug/kg
,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1	ug/kg
2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	NĎ	5.0	1	ug/kg
,1-Dichloroethene	90	5	1		ug/kg	p/m-Xylene	ND	5.0	1	ug/kg
-1,2-Dichloroethene	ND C	5.0	. 1		ug/kg	o-Xylene	ND	5.0	1	ug/kg
-1,2-Dichloroethene	ND	5.0	່ 1	•	ug/kg	Methyi-t-Butyl Ether (MTBE)	ND	5.0	1	ug/kg
.2-Dichloropropane	ND	5.0	1		ug/kg					
Surrogates:	REC (%)	Control Limits		Quat		Sumogates:	<u>REC (%)</u>	Control	Quat	۰.
Dibromofluoromethane	109	80-120				Toluena-d6	102	81-117		
4-Bromofluorobenzene	96	74-121								

RL - Reporting Limit

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DF - Dilution Factor Qual - Qualifiers .

Brown and Caldwell Date Received: 16735 Von Karman Avenue, Suite 200 Work Order No: 0 Irvine, CA 90606-4953 Preparation: Method: 0 Project: BEA System Client Sample Number: Lab Sample Number: Date Dat	Lalscience Environme Laborato			ļ	NAL	TICAL REPORT				
16735 Von Karman Avenue, Suite 200 Work Order No: 0 Irvine, CA 90606-4953 Preparation: Method: Cient Sample Number: Ei Project: BEA System Ei Date Collected: Matrix Pate Date Collected: Matrix Pate Date Collected: Matrix Pate Date Collected: Matrix 12088:<				· • • • • •						
Irvine, CA 90606-4953 Preparation: Method: El Project: BEA System Edb Sample Number: Date Collected: Date Method: Date Preparet: Date Anayzed: Collected: Method: Date Preparet: Date Pr	••• ·									2/05/01
Method: El Project: BEA System Client Sample Number: Date Date Analyzed: Oct Client Sample Number: Lab Sample Date Mathix: Preparet: Analyzed: OC Method Blank	16735 Von Karman A	venue, S	Suite 200			Work Order No:			01-1	2-0180
Method: El Project: BEA System Client Sample Number: Date Date Analyzed: OC Client Sample Number: Lab Sample Date Matrix Prepared: Analyzed: OC Method Blank	Irvine, CA 90606-4953	3				Preparation:				N/A
Project: BEA System Client Sample Number: Lab Sample Number: Date Collected: Matrix Date Prepared: Date Analyzed: Oct OC Method Blank No Solid MA Solid MA 120501 120 Parameter Result RL DE Qual Units Parameter Result RL DE Qual Units Parameter Result EL DE Qual Units Parameter Result RL DE Qual Units Parameter Result EL DE Qual Units Parameter ND 50 1 ug/kg 1,3-Dichloropropane ND 5.0 1 Bercanetare ND 5.0 1 ug/kg c-1,3-Dichloropropene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg 2-Horamone ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg 2-Boramone ND 5.0 1 Bromo					÷	•			FPA	8260B
Client Sample Number: Lab Sample Number: Date Collecte: Date Matrice Date Preparet: Date Analyzet: Date Collecte: Date Collecte: Date Analyzet: Date Collecte: Date Analyzet: Date Collecte: Date Analyzet: Date Collecte: Date Collecter: Date Collecter: Date Collecter: Date Collecter: Date Collecter: Date Collecter: Date Collecter: <thdate Collecter: <thdate Collecter: <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>OLOOD</th></th<></thdate </thdate 										OLOOD
Number: Collected: Matrix: Prepared: Analyzec: OC Method Blank 009-10:005-2242 N/A 1205/01 120 Parameter Result RL DE Qual Units Parameter Romachioren ND 5.0 1 Barcene ND 5.0 1 ug/kg 1.3-Dichloropropene ND 5.0 1 Bromochiorm ND 5.0 1 ug/kg 2-Hoxanone ND 5.0 1 Bromochiorm ND 5.0 1 ug/kg 2-Hoxanone ND 5.0 1 Bromochiorm ND 5.0 1 u	Project: BEA System	l -				· ·		• •	Pag	e 6 of 7
Parameter Result RL DF Qual Units Parameter Result RL DE Qual Units Parameter Result RL DE Qual Units Parameter ND 5.0 1 Benzame ND 5.0 1 ug/kg 1,3-Dichloropropane ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg c-1,3-Dichloropropane ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg c-1,3-Dichloropropane ND 5.0 1 Bromomethane ND 5.0 1 ug/kg 2-Hoxanone ND 5.0 1 Patuanone ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 Patuanone ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 Patuanone ND 5.0 1 ug/kg 4-Methyle-Pentanone ND	Client Sample Number:						-		QC Bat	ch ID:
Acetons ND 50 1 ug/kg 1,3-Dichloropropane ND 5.0 1 Berzene ND 5.0 1 ug/kg 2,2-Dichloropropane ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg 1,1-Dichloropropane ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg t-1,3-Dichloropropane ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg Ethytbenzene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg 2-Heythenzene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg Heythenzene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg Heythylenzene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg Heythylenzene ND 5.0 <td>Method Blank</td> <td></td> <td>×:*:)</td> <td>.099-10-0</td> <td>05-2,242</td> <td>N/A Solid</td> <td>NA</td> <td>12/05/01</td> <td>120501</td> <td>AS</td>	Method Blank		×:*:)	.099-10-0	05-2,242	N/A Solid	NA	12/05/01	120501	AS
Acetone ND 50 1 ug/kg 1,3-Dichloropropane ND 5.0 1 Berizene ND 5.0 1 ug/kg 2,2-Dichloropropane ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg 1,1-Dichloropropene ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg 1,3-Dichloropropene ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg Ethylbenzene ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg 2-Heykanone ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg Heykanone ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg Heykanone ND 5.0 1 SeeDatylbenzene ND 5.0 1 ug/kg Heykylbene Chlorlde ND 5.0 1	Parameter	Result	RL	DF Qua	l Units	Parameter	Result	RL	DE Qual	Units
Benzene ND 5.0 1 ug/kg 2.2-Dichloropropane ND 5.0 1 Bromodichoromethane ND 5.0 1 ug/kg 1.1-Dichloropropane ND 5.0 1 Bromodichoromethane ND 5.0 1 ug/kg e-1.3-Dichloropropane ND 5.0 1 Bromodichoromethane ND 5.0 1 ug/kg Ethyleptzene ND 5.0 1 Bromodichoromethane ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 Bromodichoromethane ND 5.0 1 ug/kg 2-Hoxanone ND 5.0 1 SecButylbenzene ND 5.0 1 ug/kg Methylane Chloidde ND 5.0 1 Carbon Disuffide ND 5.0 1 ug/kg Naphthalene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,1,2-Tetrachloroethane ND 5.0										ug/kg
Bromobenzens ND 5.0 1 ug/kg 1.1-Dichloropropene ND 5.0 1 Bromochloromethane ND 5.0 1 ug/kg -1.3-Dichloropropene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg 1.1-Dichloropropene ND 5.0 1 Bromomethane ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 2-Butanone ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 actorn Disulfide ND 5.0 1 ug/kg A-Methyl-2-Pentanone ND 5.0 1 Carbon Disulfide ND 5.0 1 ug/kg Styrene ND 5.0 1 Chlorophrane ND 5.0 1 ug/kg Styrene ND 5.0 1 Chlorophrane ND 5.0 1 ug/kg 1.1,2-2-Tetrachlorophrane ND 5.0 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>• ·</td> <td></td> <td>-</td> <td>ug/kg</td>							• ·		-	ug/kg
Bromochloromethane ND 5.0 1 ug/kg c-1,3-Dichloropropene ND 5.0 1 Bromodichloromethane ND 5.0 1 ug/kg t-1,3-Dichloropropene ND 5.0 1 Bromodirm ND 5.0 1 ug/kg t-1,3-Dichloropropene ND 5.0 1 Bromodirm ND 5.0 1 ug/kg t-Birylenzene ND 5.0 1 Bromodiribenzene ND 5.0 1 ug/kg t-Birylenzene ND 5.0 1 Bromodiribenzene ND 5.0 1 ug/kg t-Proproptylenzene ND 5.0 1 Bromodiribenzene ND 5.0 1 ug/kg t-Proproptylenzene ND 5.0 1 Carbon Tetrachloride ND 5.0 1 ug/kg t-Proptylenzene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg t-trachoroethane ND 5.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ug/kg</td>										ug/kg
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Shomoform ND 5.0 1 ug/kg Ethylbenzene ND 5.0 1 Aromomethane ND 5.0 1 ug/kg 2-Hexanone ND 5.0 1 2-Butanone ND 5.0 1 ug/kg jesoropylbenzene ND 5.0 1 2-Butghone ND 5.0 1 ug/kg jesoropylbuene ND 5.0 1 aed-Butylbenzene ND 5.0 1 ug/kg A-Methyl-2-Pentanone ND 5.0 1 aetar-Butylbenzene ND 5.0 1 ug/kg A-Methyl-2-Pentanone ND 5.0 1 cathon Disulfide ND 5.0 1 ug/kg Naphthalene ND 5.0 1 Chioroform ND 5.0 1 ug/kg Styrene ND 5.0 1 Chiorobenzene ND 5.0 1 ug/kg Tetachlorobenzene ND 5.0 1	• • • • • • • • • •			-	+ +			7	-	ug/kg
Aromomethane ND 5.0 1 ug/kg 2.Hexanone ND 50 1 2.Butanone ND 50 1 ug/kg Isopropylpenzene ND 5.0 1 2.Butanone ND 5.0 1 ug/kg Pisopropylpenzene ND 5.0 1 are-Butylbenzene ND 5.0 1 ug/kg 4Methyl-2-Pentanone ND 50 1 carbon Disuffide ND 5.0 1 ug/kg Aphthalene ND 5.0 1 Carbon Tetrachloride ND 5.0 1 ug/kg Styrene ND 5.0 1 Chiorobenzene ND 5.0 1 ug/kg 1,1,2,2-Tetrachloroethane ND 5.0 1 Chiorobenzene ND 5.0 1 ug/kg 1,2,2-Tetrachloroethane ND 5.0 1 Chiorobuene ND 5.0 1 ug/kg 1,2,2-Tetrachloroethane ND 5.0 1		_								ug/kg
22-Butanone ND 50 1 ug/kg Isopropylbenzene ND 5.0 1 n-Butylbenzene ND 5.0 1 ug/kg p-Isopropylbenzene ND 5.0 1 seo-Butylbenzene ND 5.0 1 ug/kg Methylene Chloride ND 50 1 tart-Butylbenzene ND 5.0 1 ug/kg Methylene Chloride ND 50 1 carbon Disulfid ND 5.0 1 ug/kg Naphthalene ND 5.0 1 Carbon Tetrachloride ND 5.0 1 ug/kg Styrene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,2,2-Tetrachloroethane ND 5.0 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td>ug/kg</td>						•			•	ug/kg
h-Butylbenzene ND 5.0 1 ug/kg p-tsopropylotuene ND 5.0 1 seo-Butylbenzene ND 5.0 1 ug/kg Methylene Chloride ND 50 1 bart-Butylbenzene ND 5.0 1 ug/kg 4-Methylene Chloride ND 50 1 carbon Disuffide ND 5.0 1 ug/kg n-Propylbenzene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,1,2-Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chlorotoluene ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Jobromochloromethane ND 5.0 1 ug/kg 1,1,1-Trichloroebnzene ND 5.0 </td <td></td> <td>. –</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ug/kg</td>		. –								ug/kg
Sec-Butylbenzene ND 5.0 1 ug/kg Methylene Chloride ND 5.0 1 tart-Butylbenzene ND 5.0 1 ug/kg 4-Methyl-2-Pentanone ND 5.0 1 Carbon Disulfide ND 5.0 1 ug/kg n-Propylbenzene ND 5.0 1 Carbon Tetrachloride ND 5.0 1 ug/kg n-Propylbenzene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,2,2-Tetrachloroethane ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,2,2-Tetrachloroethane ND 5.0 1 Chlorobrethane ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chlorobrethane ND 5.0 1 ug/kg 1,2,2-Ticthoroethane ND 5.0 1 Chlorobrotoluene ND 5.0 1 ug/kg 1,1,2-Ticthorobenzene ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>ug/kg</td>								-		ug/kg
tart-Butylbenzene ND 5.0 1 ug/kg 4-Methyl-2-Pentanone ND 50 1 Carbon Disutifide ND 50 1 ug/kg Naphthalene ND 50 1 Carbon Tetrachloride ND 5.0 1 ug/kg Naphthalene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg Styrene ND 5.0 1 Chloroform ND 5.0 1 ug/kg 1,1,2-Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chlorotorm ND 5.0 1 ug/kg Tolene ND 5.0 1 2-Chlorotoluene ND 5.0 1 ug/kg 1,2,2-Tricthorothane ND 5.0 1 1,2-Dibromo-S-Chloropropane ND 5.0 1 ug/kg 1,1,1,2-Tricthorothane ND 5.0 1	•								1	ug/kg
Carbon Disulfide ND 50 1 ug/kg Naphthalene ND 50 1 Carbon Tetrachloride ND 5.0 1 ug/kg Naphthalene ND 5.0 1 Carbon Tetrachloride ND 5.0 1 ug/kg Styrene ND 5.0 1 Chloroform ND 5.0 1 ug/kg Styrene ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Chloromethane ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Carbon Disomochloromethane ND 5.0 1 ug/kg 1,2,3-Trichlorobenzene ND 5.0 1 Dibromosettune ND 5.0 1 ug/kg 1,1,1-Trichlorobenzene ND 5.0 1	-		+			· · ·			1	ug/kg
Gaton Tetrachloride ND 5.0 1 ug/kg n-Propylbenzene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg Styrene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg Styrene ND 5.0 1 Chlorobenzene ND 5.0 1 ug/kg 1,1,1,2-Tetrachloroethane ND 5.0 1 Chlorobluene ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 2-Chlorobluene ND 5.0 1 ug/kg 1,2,3-Trichkorobenzene ND 10 10 2-Chlorobluene ND 5.0 1 ug/kg 1,2,4-Trichkorobenzene ND 5.0 1 1,2-Dibromo-3-Chloropropane ND 5.0 1 ug/kg 1,1,1-Trichkorobenzene ND 5.0 1 1,2-Dibromo-sthane ND 5.0 1 ug/kg Trichiorobenzene ND 5.0<	•			•		-				ug/kg
Chlorobenzene ND 5.0 1 ug/kg Styrene ND 5.0 1 Chloroethane ND 5.0 1 ug/kg 1,1,2-Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg 1,1,2-Tetrachloroethane ND 5.0 1 Chloromethane ND 5.0 1 ug/kg Tetrachloroetherne ND 5.0 1 2-Chlorobluene ND 5.0 1 ug/kg 1,2,3-Trichkorobenzene ND 5.0 1 2-Chlorobluene ND 5.0 1 ug/kg 1,2,4-Trichkorobenzene ND 5.0 1 1,2-Dibromo-3-Chloropropane ND 5.0 1 ug/kg 1,1,1-Trichloroethane ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg Trichloroethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloroethane ND								5.0	1	ug/kg
Chloroethane ND 5.0 1 ug/kg 1,1,1,2-Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg 1.1,2,2-Tetrachloroethane ND 5.0 1 Chloroform ND 5.0 1 ug/kg Tetrachloroethane ND 5.0 1 Z-Chlorobulene ND 5.0 1 ug/kg Toluene ND 5.0 1 Z-Chlorobulene ND 5.0 1 ug/kg Toluene ND 5.0 1 Z-Chlorobulene ND 5.0 1 ug/kg 1,2,3-Trichlorobenzene ND 5.0 1 Z-Chlorobulene ND 5.0 1 ug/kg 1,2,4-Trichlorobenzene ND 5.0 1 Dibromo-St-Chloropropane ND 5.0 1 ug/kg 1,1,2-Trichloroethane ND 5.0 1 1,2-Dibromo-st-Chloropropane ND 5.0 1 ug/kg Trichlorofuroethane ND	Chlorobenzene	-						5.0	1	ug/kg
Chloroform ND 5.0 1 ug/kg 1.1.2,2-Tetrachlorosthane ND 5.0 1 Chloromethane ND 5.0 1 ug/kg Tetrachlorosthane ND 5.0 1 2-Chlorotoluene ND 5.0 1 ug/kg Tetrachlorosthane ND 5.0 1 2-Chlorotoluene ND 5.0 1 ug/kg Tetrachlorosthane ND 5.0 1 Dibromochloromethane ND 5.0 1 ug/kg 1,2,4-Trichlorobenzene ND 5.0 1 1,2-Dibromo-3-Chloropropane ND 5.0 1 ug/kg 1,1,1-Trichlorobtanzene ND 5.0 1 1,2-Dibromo-strane ND 5.0 1 ug/kg Trichlorobtanzene ND 5.0 1 1,2-Dibromo-strane ND 5.0 1 ug/kg Trichloropethane ND 5.0 1 1,2-Dibromo-strane ND 5.0 1 ug/kg 1,2,3-Trichloropopane						-		5.0	1	ug/kg
Chloromethane ND 5.0 1 ug/kg Tetrachloroetherie ND 5.0 1 2-Chlorotoluene ND 5.0 1 ug/kg Toluene ND 5.0 1 2-Chlorotoluene ND 5.0 1 ug/kg 1,2,3-Trichlorobenzene ND 10 1 Dibromochloromethane ND 5.0 1 ug/kg 1,2,4-Trichlorobenzene ND 5.0 1 1,2-Dibromo-3-(Chloropropane ND 5.0 1 ug/kg 1,1,1-Trichloroethane ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg 1,1,2-Trichloroethane ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg Trichloroethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg Trichloroffuoromethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane	Chloroform	ND		1			ND	5.0	1	ug/kg
Z-Chlorotoluene ND 5.0 1 ug/kg Toluene ND 5.0 1 4-Chlorotoluene ND 5.0 1 ug/kg 1,2,3-Trichlorobenzene ND 10 1 Dibromochloromethane ND 5.0 1 ug/kg 1,2,4-Trichlorobenzene ND 5.0 1 1,2-Dibromo-3-(Chloropropane ND 5.0 1 ug/kg 1,1,1-Trichlorobenzene ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg 1,1,2-Trichlorobenzene ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg Trichlorobenzene ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloroptopane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloroptopane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloro	Chloromethane	ND	5.0	1		· · ·		5.0	1	ug/kg
4-Chlorotoluane ND 5.0 1 ug/kg 1,2,3-Trichlorobenzene ND 10 1 Dibromochloromethane ND 5.0 1 ug/kg 1,2,4-Trichlorobenzene ND 5.0 1 1,2-Dibromo-3-(Chloropropane ND 10 1 ug/kg 1,1,1-Trichlorobenzene ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg 1,1,2-Trichlorobethane ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg Trichlorobethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg Trichlorobethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg Trichloropropane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane ND 5.0 1 1,4-Dichlorobenzene ND 5.0 1 ug/kg 1,3,5-Tri	2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	ug/kg
1,2-Dibromo-3-Chloropropane ND 10 1 ug/kg 1,1,1-Trichloroethane ND 5.0 1 1,2-Dibromoethane ND 5.0 1 ug/kg 1,1,2-Trichloroethane ND 5.0 1 Dibromoethane ND 5.0 1 ug/kg Trichloroethane ND 5.0 1 Dibromoethane ND 5.0 1 ug/kg Trichloroethane ND 5.0 1 1,2-Dichlorobenzene ND 5.0 1 ug/kg Trichloropropane ND 5.0 1 1,3-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane ND 5.0 1 1,4-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trimethylbenzene ND 5.0 1 1,4-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetata ND 5.0 1 1,1-Dichloroethane ND 5.0 1 ug/kg vinyl Chloride ND 5.0 1 1,1-Dichloroethene ND 5.0 1 </td <td>L-Chlorotoluene</td> <td></td> <td></td> <td>1 :</td> <td></td> <td></td> <td></td> <td>10</td> <td>1</td> <td>ug/kg</td>	L-Chlorotoluene			1 :				10	1	ug/kg
1,2-DibromoethaneND5.01ug/kg1,1,2-TrichtoroethaneND5.01DibromoethaneND5.01ug/kgTrichtoroethaneND5.011,2-DichtorobenzeneND5.01ug/kgTrichtoroftuoromethaneND5011,2-DichtorobenzeneND5.01ug/kgTrichtoroftuoromethaneND5011,4-DichtorobenzeneND5.01ug/kg1,2,3-TrichtoropropaneND5.011,4-DichtorobenzeneND5.01ug/kg1,2,4-TrimethylbenzeneND5.011,4-DichtorobenzeneND5.01ug/kg1,3,5-TrimethylbenzeneND5.011,4-DichtoroethaneND5.01ug/kgVinyl AcetateND5.011,1-DichtoroethaneND5.01ug/kgVinyl ChlorideND5.011,1-DichtoroethaneND5.01ug/kgp/m-XyleneND5.011,1-DichtoroetheneND5.01ug/kgo-XyleneND5.011,1-DichtoroetheneND5.01ug/kgo-XyleneND5.011,2-DichtoroetheneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011,2-DichtoropropaneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011,2-DichtoropropaneN	Dibromochloromethane	ND	5.0	1	ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1	ug/kg
DibromomethaneND5.01ug/kgTrichloroetheneND5.011,2-DichlorobenzeneND5.01ug/kgTrichlorofluoromethaneND5011,3-DichlorobenzeneND5.01ug/kg1,2,3-TrichloropropaneND5.011,4-DichlorobenzeneND5.01ug/kg1,2,3-TrichloropropaneND5.011,4-DichlorobenzeneND5.01ug/kg1,2,4-TrimethylbenzeneND5.011,4-DichloroethaneND5.01ug/kg1,3,5-TrimethylbenzeneND5.011,1-DichloroethaneND5.01ug/kgVinyl AcetateND5.011,1-DichloroethaneND5.01ug/kgVinyl ChlorideND5.011,1-DichloroethaneND5.01ug/kgvinyl ChlorideND5.011,1-DichloroethaneND5.01ug/kgo-XyleneND5.011,1-DichloroetheneND5.01ug/kgo-XyleneND5.01-1,2-DichloroetheneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011,2-DichloroetheneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011,2-DichloropropaneND5.01ug/kgSurrogates:REC (%)ControlCualSurrogates:REC (%) </td <td>1,2-Dibromo-3-Chloropropane</td> <td>ND</td> <td>10</td> <td>.1</td> <td>ug/kg</td> <td></td> <td>ND</td> <td>5.0</td> <td>1</td> <td>ug/kg</td>	1,2-Dibromo-3-Chloropropane	ND	10	.1	ug/kg		ND	5.0	1	ug/kg
1.2-DichlorobenzeneND5.01ug/kgTrichlorofluoromethaneND5011.3-DichlorobenzeneND5.01ug/kg1,2,3-TrichloropropaneND5.011.4-DichlorobenzeneND5.01ug/kg1,2,3-TrichloropropaneND5.011.4-DichlorobenzeneND5.01ug/kg1,2,4-TrimethylbenzeneND5.011.4-DichlorobenzeneND5.01ug/kg1,3,5-TrimethylbenzeneND5.011.1-DichloroethaneND5.01ug/kgVinyl AcetateND5.011.1-DichloroethaneND5.01ug/kgVinyl ChlorideND5.011.1-DichloroethaneND5.01ug/kgp/m-XyleneND5.011.1-DichloroetheneND5.01ug/kgo-XyleneND5.011.1-DichloroetheneND5.01ug/kgo-XyleneND5.011.1-2-DichloroetheneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011.2-DichloroetheneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011.2-DichloropropaneND5.01ug/kgMethyl-t-Butyl Ether (MTBE)ND5.011.2-DichloropropaneND5.01ug/kgSurrogates:REC (%)ControlControlCual <t< td=""><td>1,2-Dibromoethane</td><td>ND</td><td>5.0</td><td>1</td><td>ug/kg</td><td>1,1,2-Trichloroethane</td><td>ND</td><td>5.0</td><td>1</td><td>ug/kg</td></t<>	1,2-Dibromoethane	ND	5.0	1	ug/kg	1,1,2-Trichloroethane	ND	5.0	1	ug/kg
1.3-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane ND 5.0 1 1.4-Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane ND 5.0 1 Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trichloropropane ND 5.0 1 Dichlorobenzene ND 5.0 1 ug/kg 1,2,3-Trimethylbenzene ND 5.0 1 Dichlorodifluoromathane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I,1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I,1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I,1-Dichloroethane ND 5.0 1 ug/kg p/m-Xylene ND 5.0 1 I,1-Dichloroethene ND 5.0 1 ug/kg o-Xylene ND 5.0 1 -1,2-Dichloroethene ND 5.0 1 <t< td=""><td>Dibromomethane</td><td>ND</td><td>5.0</td><td>1</td><td>ug/kg</td><td>Trichioroethene</td><td>ND.</td><td>5.0</td><td>1</td><td>ug/kg</td></t<>	Dibromomethane	ND	5.0	1	ug/kg	Trichioroethene	ND.	5.0	1	ug/kg
I.4-Dichlorobenzene ND 5.0 I ug/kg 1.2.4-Trimethylbenzene ND 5.0 1 Dichlorodifluoromethane ND 5.0 1 ug/kg 1.3.5-Trimethylbenzene ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg Vinyl Chloride ND 5.0 1 I.1-Dichloroethene ND 5.0 1 ug/kg o-Xylene ND 5.0 1 -1,2-Dichloroethene ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 I.2-Dichloropropane ND 5.0 1	1,2-Dichlorobenzene	ND	5.0	1 -	ug/kg	Trichlorofluoromethane	ND	50	`1	ug/kg
Dichlorodifiuoromethane ND 5.0 1 ug/kg 1,3,5-Trimethylbenzene ND 5.0 1 1,1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 50 1 1,2-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 50 1 1,1-Dichloroethane ND 5.0 1 ug/kg Vinyl Chloride ND 5.0 1 1,1-Dichloroethane ND 5.0 1 ug/kg p/m-Xyiene ND 5.0 1 1,1-Dichloroethane ND 5.0 1 ug/kg o-Xyiene ND 5.0 1 >1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 -1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 1,2-Dichloropropane ND 5.0 1 ug/kg Surrogates: REC (%)	1,3-Dichlorobenzene	ND	5.0	1	ug/kg	1,2,3-Trichloropropane	ND			ug/kg
It,1-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 50 1 It,2-Dichloroethane ND 5.0 1 ug/kg Vinyl Acetate ND 50 1 It,2-Dichloroethane ND 5.0 1 ug/kg Vinyl Chloride ND 5.0 1 It,1-Dichloroethane ND 5.0 1 ug/kg p/m-Xylene ND 5.0 1 >-1,2-Dichloroethane ND 5.0 1 ug/kg o-Xylene ND 5.0 1 -1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 -1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 1,2-Dichloropropane ND 5.0 1 ug/kg Surrogates: REC (%) Control Qual Surrogates: REC (%) Control Qual Surrogates: Surrogates: REC (%)		ND	5.0	1		1.2.4-Trimathylbanzane	ND			ug/kg
I.2-Dichloroethane ND 5.0 1 ug/kg Vinyl Chloride ND 5.0 1 I.1-Dichloroethane ND 5.0 1 ug/kg p/m-Xylene ND 5.0 1 >-1,2-Dichloroethane ND 5.0 1 ug/kg o-Xylane ND 5.0 1 -1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 -1,2-Dichloroethane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 -1,2-Dichloropropane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 -2.Dichloropropane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 Surrogates: REC (%) Control Qual Surrogates: REC (%) Control Surrogates: REC (%) Control Surrogates: REC (%) Control Surrogates: <t< td=""><td></td><td></td><td></td><td>1</td><td>ug/kg</td><td>1,3,5-Trimethylbenzene</td><td></td><td></td><td></td><td>ug/kg</td></t<>				1	ug/kg	1,3,5-Trimethylbenzene				ug/kg
I.1-Dichloroethene ND 5.0 1 ug/kg p/m-Xylene ND 5.0 1 >-1,2-Dichloroethene ND 5.0 1 ug/kg o-Xylene ND 5.0 1 -1,2-Dichloroethene ND 5.0 1 ug/kg o-Xylene ND 5.0 1 -1,2-Dichloroethene ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 1,2-Dichloropropane ND 5.0 1 ug/kg Ether (MTBE) ND 5.0 1 Surrogates: REC (%) Control Qual Surrogates: Surrogates: Surroga	•		5.0	1	ug/kg	•				ug/kg
x-1,2-Dichloroethene ND 5.0 1 ug/kg o-Xylene ND 5.0 1 x-1,2-Dichloroethene ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 1,2-Dichloropropane ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 Surrogates: REC (%) Control Qual Surrogates: REC (%) Control Qual				1		-				ug/kg
-1,2-Dichloroethene ND 5.0 1 ug/kg Methyl-t-Butyl Ether (MTBE) ND 5.0 1 1,2-Dichloropropane ND 5.0 1 ug/kg Surrogates: <u>REC (%) Control Qual Surrogates:</u> <u>REC (%) Control Q</u>				1						ug/kg
1,2-Dichloropropane ND 5.0 1 ug/kg Surrogates: <u>REC (%) Control Qual Surrogates:</u> <u>REC (%) Control Q</u> ual	-					-				ug/kg
Surrogates: REC (%) Control Qual Surrogates: REC (%) Control Q						Methyl-t-Butyl Ether (MTBE)) ND	5.0	1	ug/kg
			(1) (1)			Surrogates:	<u>REC (%)</u>		Qual	
			Limits					<u>Limita</u>		
Dibromofluoromethane 99 80-120 Toluene-da 100 81-117	Dibromofluoromethane	99	80-120			Toluena-da	100	81-117		

RL - Reporting Limit , DF - Dilution Factor

DF - Dilution Factor , Qual - Qualifiers

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Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received: Work Order No: Preparation: Method:

12/05/01 01-12-0180 N/A EPA 8260B

Project: BEA System

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Client Sample Number:	* <i>i</i>		Lab Sa Numt		Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	:h ID:
Method Blank			099-1	0-005-2,244	N/A Solid	N/Á	12/06/01	120501	B8
Parameter	Result	<u>RL</u>		<u>ual Units</u>	Parameter	Result	RL	DF Qual	<u>Units</u>
Acetone	ND	50	1	ug/kg	1,3-Dichloropropane	ND	5.0	1	ug/kg
Benzene	ND	5.0	1	ug/kg	2,2-Dichloropropane	ND	5.0	_1	uġ/kg
Bromobenzene	ND	5.0	1	ug/kg	1.1-Dichloropropene	ND	5.0	1	ug/kg
Bromochloromethane	ND	5.0	1	ug/kg	c-1,3-Dichloropropene	ND	5.0	1	ug/kg
Bromodichioromethane	ND	5.0	1	ug/kg	t-1,3-Dichloropropene	ND	5.0	1	ug/kg
Bromoform	ND	5.0	1	ug/kg	Ethylbenzene	ND	5,0	1	ug/kg
Bromomethane	ND	5.0	1	ug/kg	2-Hexanone	ND	50	1	ug/kg
2-Butanone	ND	⁵⁰	1	ug/kg	Isopropylbenzene	ND	5.0	1	ug/kg
n-Butyibenzene	ND	5.0	1	ug/kg	p-isopropyltoluene	NO	5.0	1	ug/kg
sec-Butylbenzene	ND	5.0	1	ug/kg	Methylene Chloride	ND	50	1	ug/kg
ert-Butyibenzene	ND	5.0	1	ug/kg	4-Methyl-2-Pentanone	ND	50	1	ug/kg
Carbon Disuifide	ND	50	1	ug/kg	Naphthalene	ND	50	1	ug/kg
Carbon Tetrachloride	ND	5.0	1	vg/kg	n-Propylbenzene	ND	5.0	1	ug/kg
Chlorobertzene	ND	5.0	1	ug/kg	Styrene	ND	5.0	1	ug/kg
Chloroethane	ND	5.0	1	ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1	ug/kg
Chloroform	ND	5.0	1	ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1	ug/kg
Chloromethane	ND	5.0	1	ug/kg	Tetrachloroethene	ND	5.0	1	ug/kg
2-Chiorotoluane	ND	5.0	1	ug/kg	Toluenie	ND	5.0	1	ug/kg
f-Chlorotoluene	ND	5.0	1	ug/kg	1.2.3-Trichlorobenzene	ND	10	1	ug/kg
Dibromochioromethane	ND	5.0	1	ug/kg	1.2.4-Trichlorobenzene	ND	5.0	1 -	ug/kg
,2-Dibromo-3-Chloropropane	ND	10	1	ug/kg	1.1.1-Trichloroethane	ND	5.0	1	ug/kg
.2-Dibromoethane	ND	5.0	1	ug/kg	1,1,2-Trichlorosthane	ND	5.0	1	ug/kg
Olbromomethane	ND	5.0	1	ug/kg	Trichloroethene	ND	5.0	1	ug/kg
1.2-Dichloroben::ene	ND	5.0	1	ug/kg	Trichlorofluoromethane	ND	50	1	ug/kg
.3-Dichlorobenzene	ND	5.0	1	ug/kg	1,2,3-Trichloropropane	ND	5.0	1	ug/kg
.4-Dichlorobenzene	ND	5.0	1	ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1	ug/kg
Dichlorodifluoromethane	ND.	5.0	1	ug/kg	1,3,5-Trimethylbenzene	ND	5.0	- 1	ug/kg
1.1-Dichloroethane	ND	5.0	1	ug/kg	Vinyi Acetate	ND	50	1	ug/kg
.2-Dichloroethane	ND	5.0	1	ug/kg	Vinyl Chloride	ND	5.0	1	ug/kg
1-Dichloroethene	ND	5.0	1	ug/kg	p/m-Xylene	ND	5.0	1	ug/kg
-1.2-Dichloroethene	ND	5.0	1	ug/kg	o-Xylene	NO	5.0	1	ug/kg
-1,2-Dichloroethene	ND	5.0	1	ug/kg	Methyl-t-Butyl Ether (MT8E)	ND	5.0	1	ug/kg
,2-Dichloropropane	ND	5.0	1	ug/kg				-	~ ~
Surrogates:	REC (%)	<u>Control</u> Limits		ug/kg jual	Surrogates:	REC (%)	<u>Control</u> Limite	Qual	
Dibromofluoromethane	101	80-120			Toluene-d8	101	81-117		
1.4-Bromofluorocenzene	99	74-121							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received:	
Work Order No:	
Preparation:	
Method:	

12/05/01 01-12-0180 EPA 5030B EPA 8260B

Project: BEA System

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Client Sample Number:				Sampl mber:	8	Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Bat	th ID:
TEMP#1			01-	12-018	0-14	12/04/01 Aqueous	N/A	12/05/01	120501	AW
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter	Result	RL	DE Qual	<u>Units</u>
Acetone	ND	10	1		ug/L	1,3-Dichloropropane	ND	1.0	1	ug/L
Benzene	ND	0.50	1		ug/L	2,2-Dichloropropane	ND	1.0	1	ug/L
Bromobenzene	ND	1.0	1		ug/L	1,1-Dichloropropene	ND	1.0	1	ug/L
Bromochloromethane	ND	1.0	1		ug/L	c-1,3-Dichloropropene	ND	0.50	1	ug/L
Bromodichloroniethane	ND	1.0	1		ug/L	t-1,3-Dichloropropene	ND	0.50	1 .	ug/L
Bromoform	ND	1.0	1		ug/L	Ethylbenzene	ND	1.0	1	ug/L
Bromomethane	ND	1.0	1		ug/L	2-Hexanone	ND	10	1	ug/L
2-Butanone	ND	10	1		ug/L	Isopropylbenzene	ND	1.0	1	ug/L
n-Butylbenzene	ND	1.0	1		ug/L	p-Isopropyltoluene	ND	1.0	1	ug/L
sec-Butylbenzene	ND	1.0	1		ug/L	Methylene Chloride	ND	10	1	ug/L
tert-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pentanone	ND	10	1	ug/L
Carbon Disulfide	ND	10	1		ug/L	Naphthalene	NÐ	10	1	ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	n-Propylbenzene	ND	1.0	1	ug/L
Chlorobenzene	ND	1.0	1		ug/L	Styrene	ND	1.0	1	ug/L
Chloroethane	ND	1.0	1		υg/L	1,1,1,2-Tetrachloroethane	ND	1.0	1	ug/L
Chioroform	6.2	1.0	1		ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1	ug/L
Chloromethane	ND	1.0	1		ug/L	Tetrachlomethene	5.8	1.0	1	ug/L
2-Chlorotoluene	ND	1.0	1		սց, է	Toluene	ND	1.0	· 1	ug/L
-Chlorobluene	ND	1.0	1		ug/L	1,2,3-Trichlorobenzene	ND	1.0	1	ug/L
Dibromochloromethane	ND	1.0	1		ug/L	1,2,4-Trichlorobenzene	ND	1.0	1	ug/L
,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	1,1,1-Trichloroethane	4.5	1.0	1	ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	1.1.2-Trichloroethane	16	1.0	1	ug/L
Dibromomethane	ND	1.0	1		ug/L	Trichloroethene	260	5	5 D	ug/L
1,2-Dichlorobenzene	ND	1.0	1		սց/Լ	Trichlorofluoromethane	ND	10	1	ug/L
i 3-Dichlorobenzene	ND	1.0	1		ug/L	1,2,3-Trichloropropane	ND	5.0	10	ug/L
4-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethylbenzene	ND	1.0	1	ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	1,3.5-Trimethylbenzene	ND	1.0	1	սց/Լ
.1-Dichloroethane	11	1	1		սց/Լ	Vinyl Acetate	ND	10	1	ug/L
.2-Dichloroethane	10	0.50	1		ug/∟ ug/L	Vinyi Chloride	ND ND	10 0.50	1	-
1-Dichloroethene	370	5	5	Ð	ug/L	p/m-Xylene	ND	1.0	1	ug/L
-1.2-Dichloroethene	ND	5 1.0	5 1	Ų	ug/L	p/m-Xylene o-Xylene	ND	1.0	1	ug/L
-1,2-Dichloroethene	ND	1.0	1			-		1.0	1	ug/L
2-Dictiloropropane	28	1.0	1		ug/L	Methyl-t-Butyl Ether (MTBE)	ND	. 1.0	I	ug/L
• •			1		ug/L			·		
Surrogates:	<u>REC (%)</u>	<u>Control</u>		Qual		Surrogates:	<u>REC (%)</u>	<u>Control</u>	Qual	
Dibromofluoromethane	00	<u>Limits</u>				T 1		Limits		
	93	86-118				Toluene-d8	103	88 -110		1
4-Bromofluorobenzene	94	86-115							-	

RL - Reporting Limit

DF - Dilution Factor Qual - Qualifiers

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Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

ANALYTICAL REPORT

Date Received:

Work Order No:

Preparation:

Method:

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12/05/01

01-12-0180

EPA 5030B

EPA 8260B

Project: BEA System

Client Sample Number:		Lab Sample Number:			Date Collected: Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:		
TEMP#3			01-1	2-018	0-27	12/05/01 Aqueous	NA	12/05/01	120501AW	
Parameter	Result	<u>RL</u>	DF	Qual	Units	Parameter	Result	RL	DF Qual Units	2
Acetone	ND	10	1		ug/L	1,3-Dichloropropane	ND	1.0	1 ug/l	-
Benzene	ND	0.50	1		ug/L	2,2-Dichloropropane	ND	1.0	1 ug/L	-
Bromobenzene	ND	1.0	1		ug/L	1,1-Dichloropropene	ND	1.0	1 ug/l	•
Bromochloromethane	ND	1.0	1	1	ug/L	c-1,3-Dichloropropene	ND	0.50	1 ug/t	-
Bromodichloromethane	ND	1.0	1		ug/L	t-1,3-Dichloropropene	ND	0.50	1 ug/L	- '
Bromoform	ND	1.0	1		ug/L	Ethylbenzene	ND	. 1.0	1 ug/L	_
Bromomethane	ND	. 1.0	1		ug/L	2-Hexanone	ND	10	1 ug/L	_ `
2-Butanone	ND ,	10	1		ug/L	sopropylbenzene	ND	1.0	1 ug/L	. .
n-Butylbenzene	ND	1.0	1		ug/L	p-Isopropyitoluene	ND	1.0	1 ug/L	
sec-Butylbenzene	NÐ	1.0	1		ug/L	Methylene Chloride	ND	10	1 ug/L	
ert-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pentanone	ND	10	1 ug/L	-
Carbon Disuifida	ND	10	1		ug/L	Naphthalene	ND .	10	1 ug/L	-
Carbon Tetrachioride	ND	0.50	์ 1		ug/L	n-Propylbenzene	ND	1.0	_1 ug/L	
Chlorobenzene	ND	1.0	1		ug/L	Styrene	NĎ	1.0	1 ug/L	•
hloroethane	ND	1.0	1		ปฏ/∟	1,1,1,2-Tetrachioroethane	ND	1.0	1 ug/L	
hloroform	ND	1.0	1		ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1 ug/L	
hloromethane	ND	1.0	1		ug/L	Tetrachloroethene	ND	.1.0	1 ug/L	
-Chlorotoluene	ND	1.0	1		ug/L	Toluene	ND	1.0	1 ug/L	
-Chlorotoluene	ND	1.0	1		ug/L	1,2,3-Trichlorobenzene	ND	1.0	1 ug/L	-
bromochloromethane	ND	1.0	1		ug/L	1,2,4-Trichlorobenzene	ND	1.0	1 ug/L	-
,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	1,1,1-Trichloroethane	ND	1.0	1 ug/L	-
,2-Dibromoethane	ND	1.0	1		ug/L	1,1,2-Trichloroethane	ND	1.0	1 ug/L	_
Dibromomethane	NÐ	- 1,0	1		υ 0/ L	Trichloroethene	ND	1.0	1 ug/l.	
.2-Dichlorobenzene	ND	1.0	. 1		ug/L	Trichlorofluoromethane	ND	10	1 ug/L	-
,3-Dichlorobenzene	ND	1.0	1		ug/L	1,2,3-Trichloropropane	ND	5.0	1 ug/L	
.4-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethylbenzene	ND	.1.0	1 ug/L	
ichlorodifluoromethane	ND	1.0	1		ug/L	1.3.5-Trimethylbenzene	ND	1.0	1 ug/L	
,1-Dichloroethane	ND 🦷	1.0	1		ug/L	Vinyl Acetate	ND	10	1 ug/L	
,2-Dichloroeth:sne	ND	0.50	1		ug/L	Vinyi Chiorida	ND	0.50	1 ug/L	
,1-Dichloroethane	4.0	1.0	1		ug/L	p/m-Xylene	ND	1.0	1 ug/L	
-1,2-Dichloroethene	ND	1.0	. 1		ug/L	o-Xyiene	ND	1.0	1 ug/L	
1,2-Dichloroethene	ND	1.0	1		ug/L	Methyl-t-Butyl Ether (MTBE)	ND	1.0	1 ug/L	
,2-Dichloropropane	ND	1.0	1		ug/L	- • •			· •	
Surrogates:	REC (%)	<u>Control</u> Limits		Qual		Surrogates:	<u>REC (%)</u>	Control Limits	Qual	
Dibromofluoromethane	94	86-118				Toluene-d8	103	88-110		
4-Bromofluorobenzene	95	86-115								

RL - Reporting Limit . DF - Dilution Factor , Qual - Qualifiers

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ANALYTICAL REPORT

12/05/01 Date Received: Work Order No: 01-12-0180 EPA 5030B Preparation: Method: EPA 8260B

Project: BEA System

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Client Sample Number:				Sample mber:	e	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Bal	ch ID;
TEMP #2			01-	12-018	0-41	12/05/01	Aqueous	NA	12/06/01	12050	BW.
Parameter	Result	RL	DE	<u>Qual</u>	Units	Parameter		<u>Result</u>	BL	DF Qual	<u>Units</u>
Acetone	ND	10	1		ug/L	1,3-Dichloropro	pane	ND	1.0	1 1	ug/L
Benzene	ND	0.50	1		ug/L	2,2-Dichloropro	pane	ND	1.0	1	ug/L
Bromobenzene	ND	1.0	1		ug/L	1,1-Dichloropro	pene	ND	1.0	_1	ug/L
Bromochloromethane	ND	1.0	1		ug/L	c-1,3-Dichlorop	ropene	ND	0.50	1	ug/L
Bromodichloromethane	ND	1.0	1		ug/L	t-1,3-Dichlorop	ropene	NÐ	0.50	1	ug/L
Bromotorm	ND	1.0	1		ug/L	Ethyldenzene		ND	1.0	1.	ug/L
Bromomethane	ND	1.0	1		ug/L	2-Hexanone	· · · ·	ND	10	1	ug/L
2-Butanone	NÐ	10	1		ug/L	isopropyibenze	no	ND	1.0	1	ug/L
n-Butylbenzene	ND	1.0	1		ug/L	p-isopropyltoiu	ene	ND	1.0	1	ug/L
sec-Butylbenzene	ND	1.0	f	,	ug/L	Methylene Chk	oride	ND	10	1	ug/L
ert-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Per	tanone	ND	10	1	ug/L
Carbon Disulfide	ND	10	1.		ug/L	Naphthalene		ND	10	1	ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	n-Propylbenzer	ne	ND	1.0	1	ug/L
Chlorobenzene	ND	1.0	1		ug/L	Styrene		ND	1.0	1	ug/L
Chloroethane	ND	1.0	- 1		ug/L	1,1,1,2-Tetract	loroethane	ND	1.0	1	ug/L
Chioroform	ND	1.0	1		ug/L .	1,1,2,2-Tetract	loroethane	ND	1.0	,1	ug/L
Chloromethane	ND	1.0	1		ug/L	Tetrachloroeth	ene	ND	1.0	. 1	ug/L
2-Chlorotoluene	ND	1.0	1		ug/L	Toluene		ND	1.0	1	ug/L
4-Chlorotoluene	ND	1.0	1.		ug/L J	1,2,3-Trichloro	benzene	NĎ	1.0	1	ug/t,
Dibromochloromethane	ND	1.0	1		ug/L	1,2,4-Trichloro	benzene	ND	1.0	1.	ug/L
1,2-Dibromo-3-Chioropropane	ND	5.0	1		ug/L	1,1,1-Trichloro	ethane	ND	1.0	1	ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	1,1,2-Trichloro	ethane	ND	1.0	1	ug/L
Dibromomethane	ND	1.0	1		ug/L	Trichloroethen	9	3.0	1.0	1 1	ug/L
1,2-Dichlorobenzene	ND	1.0	5 4		ug/L	Trichlorofluoro	methane	ND	10	1	ug/L
1,3-Dichlorobenzene	NÐ	1.0	1		ug/L	1,2,3-Trichloro	ргорале	ND	5.0	1	ug/L
,4-Dichlorobenzene	ND	· 1.0	1		ug/∟	1.2,4-Trimeiny	lbenzene	ND	1.0	1	ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	1,3,5-Trimethy	lbenzene	ND	1.0	1	ug/L
1,1-Dichloroethane	ND	1.0	.1	2	ug/L	Vinyl Acetate		ND	10	1	ug/L
1,2-Dichloroethane	ND	0.50	. 1		ug/L	Vinyi Chloride		ND	0.50	1 :	ug/L
1,1-Dichloroeth-me	28	1	1		ug/L			ND	1.0	1	ug/L
-1,2-Dichloroethene	ND	1.0	1		ug/L	o-Xylene		ND	1.0	1	ug/L
-1,2-Dichloroethene	ND	1.0	1		ug/L	Methyl-t-Butyl	Ether (MTBE)	ND .	1.0	1	ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L ·	2 ^m				4.1	
Surrogates:	REC (%)	Control Limits	· .	Qual	-	Sunogates:		<u>REC (%)</u>	<u>Control</u> Limits	Qua	<u>I</u>
Dibromofluoromethane	94.	86-118				Toluene-d8		102	88-110	1. T	
1,4-Bromofluorobenzene	96	86-115				(wiwe(]#"VI#					
	~~	40-110			1						

RL - Reporting Limit .

DF - Dilution Factor Qual - Qualifiers

WWM.

ANALYTICAL REPORT ANALYTICAL REPORT Erown and Caldwell Date Received: 12/05/0 Erown and Caldwell Date Received: Preparation: EPA 5032 Project: BEA System Date Collected: Matrix Preparation: Preparation: Preparation: Page 4 of Result BL DE Quill Units Date Received: Date Received: Date Received: Collected: Matrix Preparation: Date Received: Date Received: Collected: Matrix Preparation: Date Received: Date			·								
Laboratories, Inc. Grown and Caldwell Date Received: 12/05/c 16735 Von Karman Avenue, Suite 200 Preparation: EPA 8260 prine, CA 90606-4953 Work Order No: 01-12-016 Project: BEA System Preparation: EPA 8260 Project: BEA System Date Date Workord Method: EPA 8260 Project: BEA System Date Date Method: EPA 8260 Collaction Mark State Number: Collaction Mark 202050* Method: State State State Mark 202050* 202050* Method: State Collaction Mark 202050* State			· · ·		AN/	ALY	TICAL REPORT				
Inorwa and Caldwell Date Received: 12/05/c 6735 Von Karman Avenue, Suite 200 Work Order No: 01-12-016 vine, CA 90606-4953 Preparation: EPA 5033 roject: BEA System Preparation: EPA 8260 roject: BEA System Date Date Date werboa Bank; Collected: Mark: Preparation: EPA 8260 werboa Bank; Eab Sample Date Date Date Collected: Mark: Preparation: EPA 8260 werboa Bank; Eab Sample Date Date Collected: Mark: Preparation: EPA 8260 werboa Bank; Eab Sample Date Date Collected: Mark: Agaidate Adat Adat <th></th> <th>ntal</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		ntal									
Nominal Constant Suite 200 Nonine, CA 90606-4953 Other 1-2-016 Project: BEA System Preparation: EPA 5032 Project: BEA System Preparation: EPA 5032 Refined Sample Number: Lab Sample Date Date Number: Lab Sample Date Date Date Analyzet: Collected: Mark: Preparat: Analyzet: CC Balch ID: Assemation: Preparation: Lab Sample Date Date Collected: Mark: 200001 TableAction: Assemation: RL DE Quail Units Preparatic: CC Balch ID: Assemation: ND 1.0 1 UgL 2.2.2.Dichtorpropane ND 1.0 1 UgL Inconcolutionmethane ND 1.0 1 UgL 1.3.Dichtorpropane ND 1.0 1 UgL Inconcolutionmethane ND 1.0 1 UgL C.3.Dichtorpropane ND 1.0 1 UgL C.3.Dichtorpropane	aborato	ries, Ind	c.								
Disconstruction Construction Construction Construction EPA 5030 Project: BEA System Preparation: P	rown and Caldwell						Date Received:			1	2/05/01
Preparation: Preparation: EPA 5032 Project: BEA System Page 4 of Vitent Sample Number: Lab Sample Number: Collected: Number: Number: Collected: Number: Conditionspropene		enue. Su	ite 200				Work Order No:			01-1	2-0180
Mile, Chrosodovisod Method: EPA 8260 Project: BEA System Method: Telab Sample Number: Lab Sample Number: Date Date <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td>Prenaration:</td><td></td><td></td><td>EPA</td><td>5030</td></t<>		-					Prenaration:			EPA	5030
Light Sample Number: Lab Sample Number: Date Date Collected: Date Matrix: Date Prepared: Date Analyzed: CC Batch ID: Collected: Methods, Elank: 988/942(083:999 MVA Aquidate Aquidate Aquidate Aquidate Aquidate Aquidate Aquidate Aquidate Aquid	Mile, CA 90000-4900			·							
Lipet: Lab Sample Number: Date Collected: Date Matrix: Date Prepared: Date Analyzed: CC Batch ID: Collected: Bedrodd,Btank Stelled,Btank Stelled,B									,	_	
Number: Collected: Matrix Prepared: Analyzed: CC Batch ID: Method Blank; Obstact Gross pres Note Aquestas (NAL) Collected: Matrix Prepared: Analyzed: CC Batch ID: Method Blank; Basult BL DE Quel Units Parameter Result BL DE Quel Units Valore ND 10 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L Ioromothomethane ND 1.0 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L ioromotom ND 1.0 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L ioromotom ND 1.0 1 ug/L 2-Herstanone ND 1.0 1 ug/L ioromotom ND 1.0 1 ug/L 2-Herstanone ND 1.0 1 ug/L 2-Herstanone ND	Project: BEA System	استانیویوروی		-						Pag	98 4 of 5
Parameter Result RL DE Qual Units Parameter Result RL DE Qual Units ceatone ND 10 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L ferzene ND 1.0 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L tromochloromethane ND 1.0 1 ug/L 1,3-Dichloropropane ND 1.0 1 ug/L tromochloromethane ND 1.0 1 ug/L Ethythanzane ND 1.0 1 ug/L Butanone ND 1.0 1 ug/L Ethythanzane ND 1.0 1 ug/L Butanone ND 1.0 1 ug/L Ethythanzane ND 1.0 1 ug/L Butanone ND 1.0 1 ug/L Ethythanzane ND 1.0 1 ug/L Butanone	Client Sample Number:									QC Bat	ch ID:
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Paragane ND 0.50 1 ug/L 2,2-Dichloropropane ND 1.0 1 ug/L itromobarzene ND 1.0 1 ug/L 1,1-Dechloropropane ND 1.0 1 ug/L itromoch/correnthane ND 1.0 1 ug/L c-1,3-Dichloropropane ND 0.50 1 ug/L itromoch/correnthane ND 1.0 1 ug/L Etrythanzane ND 1.0 1 ug/L Samonethane ND 1.0 1 ug/L Etrythanzane ND 1.0 1 ug/L Semonethane ND 1.0 1 ug/L 2-Hexanone ND 1.0 1 ug/L Semonethane ND 1.0 1 ug/L Heathylene Choide ND 1.0 1 ug/L carbon Teirschiordize ND 1.0 1 ug/L 1.1/1.2-Terachoroethane ND 1.0 1 ug/L 1.1/1.2-Terachyloroethane <		ND	10	1	u	g/L	1,3-Dichloropropane	ND	1.0	1	-
itemobenzene ND 1.0 1 ug/L 1.1-Olchieropropene ND 1.0 1 ug/L itermodichieromethane ND 1.0 1 ug/L c1.3-Dichieropropene ND 0.50 1 ug/L itermodichieromethane ND 1.0 1 ug/L Etrythenzane ND 1.0 1 ug/L itermodichieromethane ND 1.0 1 ug/L Etrythenzane ND 1.0 1 ug/L itermodichieromethane ND 1.0 1 ug/L Escpropythetzene ND 1.0 1 ug/L itermodichieromethane ND 1.0 1 ug/L Escpropythetzene ND 1.0 1 ug/L itermodichieromethane ND 1.0 1 ug/L 4-Methyl-2-Pentanone ND 1.0 1 ug/L iterabutylenzzene ND 1.0 1 ug/L 1.1,22-Terestanore ND 1.0 1 ug/L		ND	0.50	1		- 1				-	-
Normodichioromethane ND 1.0 1 ug/L t-1,3-Dichloropropene ND 0.50 1 ug/L bromodichioromethane ND 1.0 1 ug/L Ethytkenzene ND 1.0 1 ug/L bromodichioromethane ND 1.0 1 ug/L 2-Hexanone ND 1.0 1 ug/L Bulanone ND 1.0 1 ug/L 2-Hexanone ND 1.0 1 ug/L eeButytbenzene ND 1.0 1 ug/L Hethytene Chloride ND 1.0 1 ug/L acteon Disulfide ND 1.0 1 ug/L Naphthalene ND 1.0 1 ug/L Alkoroberzene ND 1.0 1 ug/L Styrene ND 1.0 1 ug/L Chlorototune ND 1.0 1 ug/L Tolueroe ND 1.0 1 ug/L Chlorototune ND	romobenzene	ND	1.0	1							-
NON-NOLINGULATION ND 1.0 1 ug/L 1.0	romochloromethane	ND	1.0	1	ų	g/L	c-1,3-Dichloropropene				
Non-North ND	romodichloromethane	ND	1.0	1	U.	g/L	t-1,3-Dichloropropene	ND			
Non-instruction ND 100 100 <th1< td=""><td>romoform</td><td>ND</td><td>1.0</td><td>1</td><td>U)</td><td>g/L</td><td>Ethytbenzene</td><td></td><td></td><td>•</td><td>-</td></th1<>	romoform	ND	1.0	1	U)	g/L	Ethytbenzene			•	-
Busines ND 1.0 1 ug/L p-isopropytoleure ND 1.0 1 ug/L ac-Butylberzene ND 1.0 1 ug/L Methylene Chorde ND 10 1 ug/L arbon Disulfide ND 10 1 ug/L 4-Methyl-2-Pentanone ND 10 1 ug/L arbon Disulfide ND 10 1 ug/L 1,1,1,2-Tetrachloroethane ND 1.0 1 ug/L hlorobenzane ND 1.0 1 ug/L 1,1,1,2-Tetrachloroethane ND 1.0 1 ug/L hlorobenzane ND 1.0 1 ug/L 1,1,1,2-Tetrachloroethane ND 1.0 1 ug/L hlorobenzane ND 1.0 1 ug/L Tetrachloroethane ND 1.0 1 ug/L chlorobuene ND 1.0 1 ug/L 1,2,3-Trichlorobenzene ND 1.0 1 ug/L 2-Dibromo	romomethane	ND	1.0	1	, ui	g/L	2-Hexanone			•	-
Description No 1.0 1 ug/L Methylen Chloride ND 10 1 ug/L arbon Disulfide ND 1.0 1 ug/L 4.Methyl-2.Pentanone ND 10 1 ug/L arbon Disulfide ND 0.50 1 ug/L -Propybenzene ND 1.0 1 ug/L arbon Tetrachloride ND 1.0 1 ug/L -Propybenzene ND 1.0 1 ug/L hloroberzene ND 1.0 1 ug/L 1,1,1,2-Tetrachloroethane ND 1.0 1 ug/L hloroberm ND 1.0 1 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 1 ug/L Chlorobtuene ND 1.0 1 ug/L 1,2,3-Trichloroethane ND 1.0 1 ug/L 2-Dibromo-S-Chloropropane ND 1.0 1 ug/L 1,1,2-Trichloroethane ND 1.0 1 ug/L <td< td=""><td>Butanone</td><td>ND</td><td>10</td><td>. 1</td><td>, U</td><td>g/L </td><td>Isopropylbenzene</td><td>ND</td><td></td><td>-</td><td>-</td></td<>	Butanone	ND	10	. 1	, U	g/L	Isopropylbenzene	ND		-	-
Burgen Disulfide ND 1.0 1 ug/L National matrix ND 10 1 ug/L arbon Disulfide ND 10 1 ug/L Naphthalene ND 10 1 ug/L arbon Disulfide ND 0.50 1 ug/L n-Propylbenzene ND 1.0 1 ug/L hlorobenzene ND 1.0 1 ug/L 1,1,1,2-Tetrachlorosthane ND 1.0 1 ug/L hlorobenzene ND 1.0 1 ug/L 1,1,1,2-Tetrachlorosthane ND 1.0 1 ug/L hlorothane ND 1.0 1 ug/L 1,1,2,2-Tetrachlorosthane ND 1.0 1 ug/L Chlorobuene ND 1.0 1 ug/L 1,2,3-Trichlorosthane ND 1.0 1 ug/L 2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,2-Trichlorosthane ND 1.0 1 ug/L <td< td=""><td>Butyibenzene</td><td>ND</td><td>1.0</td><td>1</td><td>U)</td><td>g/L </td><td>p-isopropyitoluene</td><td>ND</td><td></td><td></td><td>-</td></td<>	Butyibenzene	ND	1.0	1	U)	g/L	p-isopropyitoluene	ND			-
Aber Discussion ND 10 1 ug/L Naphthalane ND 10 1 ug/L arbon Tetrachioride ND 1.0 1 ug/L n-Propybenzene ND 1.0 1 ug/L hlorobenzene ND 1.0 1 ug/L Styrene ND 1.0 1 ug/L hlorobenzene ND 1.0 1 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 1 ug/L hlorober ND 1.0 1 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 1 ug/L hlorober ND 1.0 1 ug/L Tetrachloroethane ND 1.0 1 ug/L Chlorobuene ND 1.0 1 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 1 ug/L 2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,2-Trichloroethane ND 1.0 1 ug/L 1,1,2-Trichloroethane <t< td=""><td>ec-Butylbenzene</td><td>ND</td><td>1.0</td><td>1</td><td>U</td><td>g/L </td><td>Methylene Chloride</td><td></td><td></td><td></td><td>-</td></t<>	ec-Butylbenzene	ND	1.0	1	U	g/L	Methylene Chloride				-
Non-District ND	art-Butylbenzene	ND	1.0	1	Ű	g/L	4-Methyl-2-Pentanone	ND		•	
Alborit Indication	arbon Disulfide	ND	10	1	U	g/L	Naphthalene			•	
Indication Indication <thindication< th=""> Indication Indicati</thindication<>	arbon Tetrachloride	ND	0.50	1	U)	g/L	n-Propyibenzene				-
Information ND 1.0 1 ug/L 1.11.1.2-Tetrachloroethane ND 1.0 1 ug/L hloroform ND 1.0 1 ug/L 1.1.2.2-Tetrachloroethane ND 1.0 1 ug/L chlorototiuene ND 1.0 1 ug/L Tetrachloroethane ND 1.0 1 ug/L -Chlorototuene ND 1.0 1 ug/L 1.2.3-Trichloroethane ND 1.0 1 ug/L -Chlorototuene ND 1.0 1 ug/L 1.2.4-Trichloroethane ND 1.0 1 ug/L 2-Dibromo-3-Chloropropane ND 5.0 1 ug/L 1.1.2-Trichloroethane ND 1.0 1 ug/L 2-Dibromo-sthane ND 1.0 1 ug/L 1.1.2-Trichloroethane ND 1.0 1 ug/L 2-Dichlorobenzene ND 1.0 1 ug/L 1.2.3-Trichloropropane ND 1.0 1 ug/L <td>hlorobenzene</td> <td>ND</td> <td>1.0</td> <td>1</td> <td>U</td> <td>g/L</td> <td>Styrene</td> <td></td> <td>-</td> <td></td> <td>-</td>	hlorobenzene	ND	1.0	1	U	g/L	Styrene		-		-
Information ND 1.0 1 ug/L Tetrachloresthere ND 1.0 1 ug/L Chlorototuene ND 1.0 1 ug/L Tetrachloresthere ND 1.0 1 ug/L -Chlorototuene ND 1.0 1 ug/L Tetrachloresthere ND 1.0 1 ug/L -Chlorototuene ND 1.0 1 ug/L 1,2,3-Trichlorobenzene ND 1.0 1 ug/L _2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,1-Trichlorobenzene ND 1.0 1 ug/L _2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,2-Trichlorobenzene ND 1.0 1 ug/L _2-Dichlorobenzene ND 1.0 1 ug/L Trichlorofluoromethane ND 1.0 1 ug/L _2-Dichlorobenzene ND 1.0 1 ug/L 1,2,4-Trimethylbenzene ND 1.0 1 ug/L	hloroethane	ND	1.0	1	U	g/L			-		-
Antoinabilities ND 1.0 1 ug/L Tockerse ND 1.0 1 ug/L -Chlorobiuene ND 1.0 1 ug/L 1,2,3-Trichlorobenzene ND 1.0 1 ug/L ibromochloromethane ND 1.0 1 ug/L 1,2,3-Trichlorobenzene ND 1.0 1 ug/L ,2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,1-Trichlorobenzene ND 1.0 1 ug/L ,2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,1-Trichlorobenzene ND 1.0 1 ug/L ,2-Dibromo-3-Chloropropane ND 1.0 1 ug/L 1,1,2-Trichlorobenzene ND 1.0 1 ug/L ,2-Dichlorobenzene ND 1.0 1 ug/L Trichlorobenzene ND 1.0 1 ug/L ,4-Dichtorobenzene ND 1.0 1 ug/L 1,3,5-Trimethylbenzene ND 1.0 1	hloroform	ND	1.0	.1	υ	g/L	····				
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Child build ND 1.0 1 Ug/L 1.2, 4-Trichkorobenzene ND 1.0 1 Ug/L 1.1, 1-Trichkorobenzene ND 1.0 1 Ug/L 1.1, 2-Trichkorobenzene ND 1.0 1 Ug/L 1.2, 3-Trichkorobenzene ND 1.0 1 Ug/L 1.2, 3-Trichkorobenzene ND 1.0 1 Ug/L 1.2, 3-Trichkorobenzene ND 1.0 <td>-Chlorotoluene</td> <td></td> <td>1.0</td> <td>1</td> <td>u</td> <td>g/L</td> <td></td> <td></td> <td></td> <td>•</td> <td>-</td>	-Chlorotoluene		1.0	1	u	g/L				•	-
2-Dibromo-3-Chloropropane ND 5.0 1 ug/L 1,1,1-Trichloroethane ND 1.0 1 ug/L 2-Dibromo-shane ND 1.0 1 ug/L 1,1,2-Trichloroethane ND 1.0 1 ug/L 2-Dibromo-shane ND 1.0 1 ug/L 1,1,2-Trichloroethane ND 1.0 1 ug/L 2-Dichlorobenzene ND 1.0 1 ug/L Trichloroethane ND 1.0 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloroethane ND 1.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloroethane ND 1.0 1 ug/L 1,1-Dichlorobenzene ND 1.0 1 ug/L 1,3,5-Trimethylbenzene ND 1.0 1 ug/L 1,1-Dichloroethane ND 1.0 1 ug/L Vinyl Acstate ND 1.0 1 ug/L 1,2-Dichloroethene ND 1.0 1 ug/L p/m-Xylene	-Chlorotoluens	ND	1.0	1	U	g/L	1,2,3-Trichlorobenzene	ND		1	
2-Dibromoethane ND 1.0 1 ug/L 1,1,2-Trichloroethane ND 1.0 1 ug/L ibromomethane ND 1.0 1 ug/L Trichloroethane ND 1.0 1 ug/L 2-Dichlorobenzene ND 1.0 1 ug/L Trichloroethane ND 1.0 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L Trichloroethane ND 1.0 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloroethane ND 1.0 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L 1,2,4-Trimethylbenzene ND 1.0 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L 1,3,5-Trimethylbenzene ND 1.0 1 ug/L 1-Dichloroethane ND 1.0 1 ug/L Vinyl Acatata ND 1.0 1 ug/L 1-Dichloroethene ND 1.0 1 ug/L p/m-Xylene ND	ibromochloromethane	ND		1	ម	¢/L				1	
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A-Dichlorobenzene ND 1.0 1 ug/L Trichlorofluoromethane ND 10 1 ug/L 3-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloropropane ND 5.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloropropane ND 5.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,4-Trimethylbenzene ND 1.0 1 ug/L 1,1,2,4-Trimethylbenzene ND 1.0 1 ug/L 1,3,5-Trimethylbenzene ND 1.0 1 ug/L 1,1-Dichloroethane ND 1.0 1 ug/L Vinyl Acstate ND 10 1 ug/L 1,2-Dichloroethane ND 1.0 1 ug/L Vinyl Acstate ND 0.50 1 ug/L 1,2-Dichloroethane ND 1.0 1 ug/L p/m-Xylene ND 1.0 1 ug/L 1,2-Dichloroethene ND 1.0 1 ug/L o-Xylene	,2-Dibromoethane						· · · ·			-	-
3-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloropropane ND 5.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,3-Trichloropropane ND 1.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,4-Trimethylbenzene ND 1.0 1 ug/L 4-Dichlorobenzene ND 1.0 1 ug/L 1,2,4-Trimethylbenzene ND 1.0 1 ug/L 4-Dichlorobethane ND 1.0 1 ug/L 1,3,5-Trimethylbenzene ND 1.0 1 ug/L 1-Dichloroethane ND 1.0 1 ug/L Vinyl Acstate ND 10 1 ug/L 2-Dichloroethane ND 1.0 1 ug/L p/m-Xylene ND 1.0 1 ug/L 1,2-Dichloroethene ND 1.0 1 ug/L o-Xylene ND 1.0 1 ug/L 1,2-Dichloroethene ND 1.0 1 ug/L o-Xylene ND <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
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Environmental	
Laboratories,	Inc

Brown and Caldwell 16735 Von Karman Avenue, Suite 200 Irvine, CA 90606-4953

Date Received:
Work Order No:
Preparation:
Method:

12/05/01 01-12-0180 EPA 5030B EPA 8260B

Project: BEA System

Page 5 of 5

Acetone ND 10 1 ug/L 1,3-Dichloropropane ND 1.0 Berzane ND 0.50 1 ug/L 2,2-Dichloropropane ND 1.0 Bromochloromethane ND 1.0 1 ug/L 1,1-Dichloropropane ND 1.0 Bromochloromethane ND 1.0 1 ug/L c-1.3-Dichloropropane ND 0.50 Bromochloromethane ND 1.0 1 ug/L c-1.3-Dichloropropane ND 0.50 Bromoreftime ND 1.0 1 ug/L c-1.3-Dichloropropane ND 1.0 Semometriane ND 1.0 1 ug/L 2-Hexanone ND 1.0 Semomotriane ND 1.0 1 ug/L Heethyleazone ND 1.0 See-Burylberzene ND 1.0 1 ug/L Methyla-Penianone ND 10 Carton Tetrachloride ND 1.0 1 ug/L Naphthalene	QC Batch ID:
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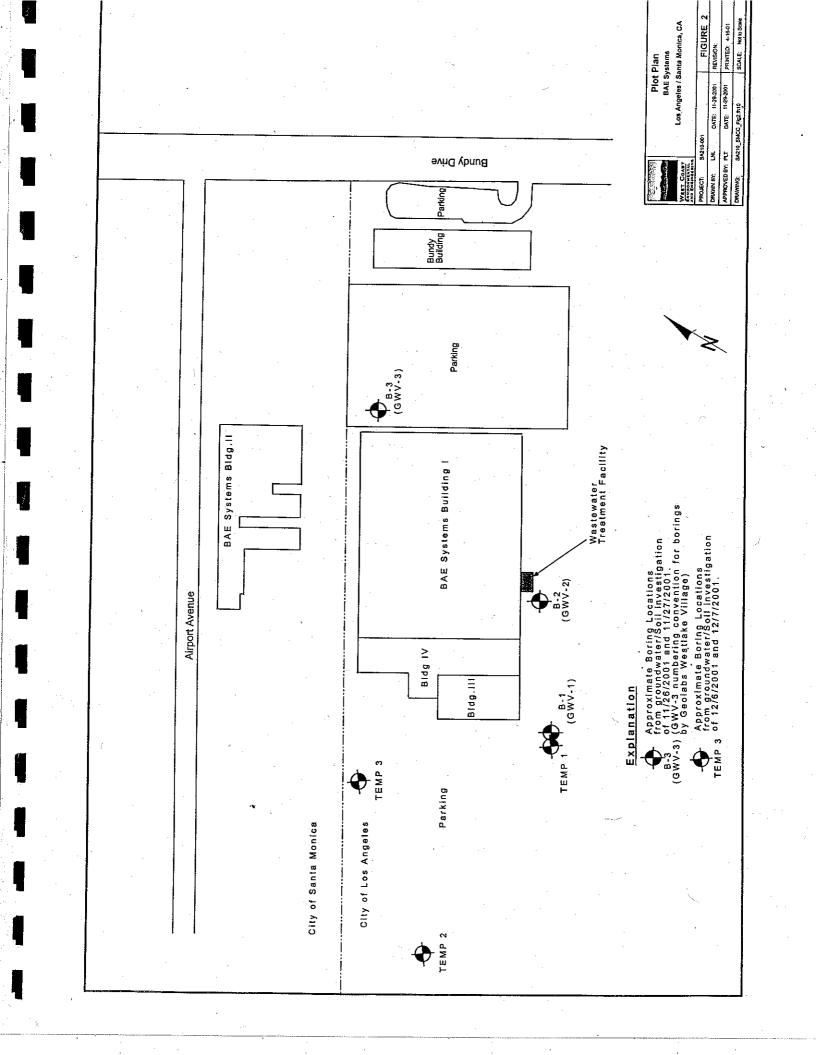
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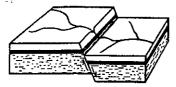
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GEOLABS-WESTLAKE VILLAGE

Foundation and Soils Engineering, Geology

a dba of R & R Services Corporation

Santa Monica College

1900 Pico Boulevard

31119 Via Colinas, Suite 502 • Westlake Village, CA 91362 Voice: (818) 889-2562 (805) 495-2197 Fax: (818) 889-2995 (805) 379-2603

LEE PAUL AUG 2 0 2003 INSPECTION August 19, 2003 W.O. 8266-Bundy

Attention: Mr. Lee Paul

Santa Monica, California 90405

SUBJECT: Supplemental Geotechnical Investigation, Proposed Driveway and Retaining Walls, 3171 S. Bundy Drive, Los Angeles, California

Reference: Geolabs-Westlake Village, July 29, 2003; Geotechnical Investigation of Proposed Driveway and Retaining Walls, 3171 S. Bundy Drive, Los Angeles, California

Mr. Paul,

In accordance with your request, we are presenting this supplemental report to provide additional data obtained during excavation of test pits performed on August 18, 2003 at the site. Recommendations provided in the referenced report remain applicable unless superceded herein.

The scope of work for this project included logging of seven exploratory test pits excavated with a backhoe, review of previous work pertinent to our purpose and readily available to our office, soil engineering analysis of assembled data, and preparation of this report. Field data and the approximate locations of exploratory excavations are shown on the enclosed geologic map (Plate 1). Descriptions of the materials encountered are described on the enclosed logs (TP1-TP7). Cross sections have been revised and included as Plates 4.1 and 4.2.

EARTH MATERIALS

Terrace Deposits at the site consist primarily of fine sand with trace silt, in a dense and moist condition. However, the upper 18 to 24-inches of the Terrace Deposits are typically weathered

(slightly moist, porous, and containing roots and rootlets).

Throughout the area investigated, Terrace Deposits are mantled by a variable thickness of fill. These fill soils do not appear to be derived from Terrace Deposits at the site. Generally, they consist of silty to clayey sand in a loose to medium dense and dry to moist condition. The fill typically contains roots and/or rootlets.

The maximum thickness of fill observed in the test pits was approximately 5 feet in test pit TP3. Along the proposed retaining wall alignment fill and weathered Terrace Deposit was on the order of 2 to 3 ¹/₂ feet and 2 to 4 feet, respectively (total removals approximately 4 to 6 feet).

UTILITY LINES OBSERVED

The following discussion is to aid the contractor during construction but in no way should be construed as fact or exact locations of existing utility lines. A number of utility lines, both active and abandoned, were observed in recent test pits.

Test pit TP3 was initially excavated approximately 3 feet west of its location depicted on the enclosed geologic map. However, at approximately 3 feet below existing grade a french drain was encountered. It consisted of a 6-inch perforated drain with rock surrounding the pipe. It appeared to be directed south-southeast from the corner of the existing building.

A number of utility lines were observed during excavation of test pit TP4. Three small air hoses (approximately ¼-inch diameter) were observed at approximately 6-inches below existing grade. A 1 to 2-inch plastic pipe was observed at approximately 1 foot below existing grade. Both the air hose lines and the plastic pipe were running roughly parallel to the side of the existing building. An above ground metal water line was also observed at this location.

Test pit TP5 encountered a 2 1/2 inch metal pipe (gas line?) at approximately 2 1/2 feet below

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existing grade. In addition, a 4 to 6-inch pipe (storm drain?) was observed at approximately 4 feet below existing grade. Both lines are running south-southeast from the existing building.

3

An 8 to 10-inch metal pipe (water line?) was observed in test pit TP6. It was observed at approximately 4 feet below existing grade, roughly parallel to the property line, approximately three feet north of the existing power pole.

<u>GRADING</u>

Removals

All existing fill and weathered Terrace Deposits are not suitable for support of proposed retaining wall, fill, or pavement. Both should be removed to competent Terrace Deposits prior to placing fill or being used for structural support. We anticipate removals in the area of the proposed improvements to be on the order of 4 to 6 feet below existing grade.

Temporary Slopes

Analyses of temporary slope configurations performed during our previous investigation anticipate existing fill soils to be in a medium dense and moist condition. However, recent test pit excavations exposed fill in a loose to medium dense and dry to moist condition. As a result, we recommend temporary slopes be laid back to gradients commensurate with field conditions encountered and OSHA regulations.

Fill Materials

A number of large trees currently exist in the area of the proposed driveway and retaining walls. During construction fill materials will need to be screened of organic debris.

From a geotechnical perspective, asphalt removed from the area to be graded can be incorporated into the fill. However, the asphalt should be reduced to clasts on the order of one-inch

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or less in maximum dimension and thoroughly mixed into the fill. Care should be taken to ensure large and/or nested clasts of asphalt are not incorporated into the fill.

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CLOSURE

This geotechnical report has been prepared in accordance with generally accepted engineering practices at this time and location. No other warranties, either express or implied, are made as to the professional advice provided under the terms of our agreement and included in this report.

Thank you for this opportunity to be of service. Please do not hesitate to call if you have any

questions regarding this report.

Respectfully submitted, GEOLABS-WESTLAKE VI STEPHEN D. DIE No. 35444 No. 2246 Exp. 09/30/03 CERTIFIED Steve Diem ENGINEERING C.E.G. 2246 GEOLOGIST EOF CALIF Exo. 07/31/04 R.C.E. 35444 FRED Enclosures: Geologic Map Plate 1 Cross Sections Plates 4.1 and 4.2 RONALD Z. SHMERLING NO. 1047 Test Pit Logs Plates TP1-TP7 CERTIFIED ENGINEERING GEOLOGIST XC: (4) Addressee (1) Incledon Kirk Engineers CAL

(1) G.B. Cooke

	Comments	
Client: Santa Monica College	Ity CLAY, medium dense, slightly moist to concrete, rusted metal pipes). st, porous (frequent, up to 1mm).	PLATE TP1
y: SD Date Excavated: 8/18/03	Description Fill: Brown to olive brown silty fine grained SAND with trace clasts of gray to dark gray silty CLAY, medium dense, slightly moist to moist, occastional roots (typicality 1/8"-1/4"), poorty mixed, trace clasts of debris (asphalt, concrete, rusted metal pipes). Terrace Deposits: Orangish brown fine grained SAND with trace silt, medium dense, moist, porous (frequent, up to 1mm). Orangish brown fine grianed SAND with trace silt, medium dense, moist, porous (frequent, up to 1mm).	GEOLABS-WESTLAKE VILLAGE W.O. 8266-Bundy
LOG OF EXCAVATION Trench No. TP1		Scale 1" = 5' GE

		Comments	<u></u>		<u></u>		 							
t: Santa Monica College		dense, slightly moist to moist, debris (asphalt, plastic), trace roots (1/4"-1/2").	and rootlets.	Orangish brown to brown fine grained SAND with trace silt, dense, moist, porous (occasional to frequent, up to 1mm diameter).					· ·		<u></u>			PLATE TP2
8/18/03 Client:		to moist, debris (asph	oist, occasional roots	tt, porous (occasional									 	dy
Date Excavated:		m dense, slightly moist l	edium dense, slightly mo	h trace silt, dense, mois	t, dense, moist.				AC	· · ·)		E W.O. 8266-Bundy
: SD	Description	<u>Fill</u> : Olive and brown silty SAND, loose to medium	Terrace Deposits: Brown fine grained SAND, medium dense, slightly moist, occasional roots and rootlets.	rrown fine grained SAND wit	Orangish brown fine grained SAND with trace silt,									GEULABS-WESTLAKE VILLAGE
	Des	Fill: Olive and brown	Terrace Deposits: Bi	Orangish brown to b	Orangish brown fine	`								
K I	Depth (ft)	0-2	2-4	4-6	6 - 7.2		 -	Graphic Loo	-					 ·

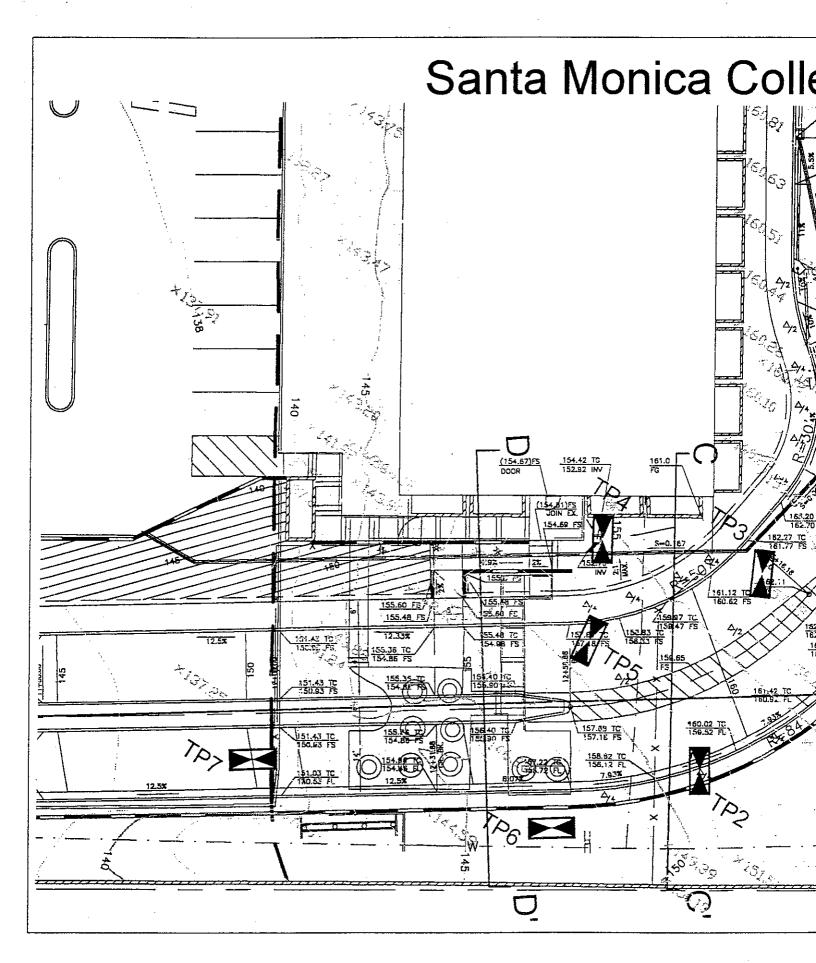
		Comments		<u>-</u>	 						
Santa Monica College		<u>Fill</u> : Olive clayey SAND, medium dense, slightly moist to moist, abundant rootlets and roots in upper 3', french drain at 3'.									PLATE TP3
Client: Sar		d roots in uppe	loist.								
8/18/03		ndant rootlets an	m dense, very m				K		<u>.</u>		8266-Bundy
Logged By: SD Date Excavated:		y moist to moist, abur	<u>Terrace Deposits</u> : Grayish brown fine grained SAND with silt, medium dense, very moist.								W.O.
iy: SD		dium dense, slighti	orown fine grained (2		.)			GEOLABS-WESTLAKE VILLAGE
Logged B	Description	yey SAND, me	<u>osits</u> : Grayish I								GEOLABS-
AVATION TP3		Fill: Olive cla	Terrace Dep(
LOG OF EXCAVATION Trench No. TP3	Depth (ft)	0 - 5	5 - 8			Graphic Log					scale 1" = 5'

Depth (it) Tr4	Logged by: SU Description	Date Excavated:	8/18/03	Client: Sa	Client: Santa Monica College	College	- Characteric
0 - 2 Block wall.							Comments
2 - 3.5 Footing (steps ur	Footing (steps under block wall (toward building) about 1").	ng) about 1").					
3.5 - 3.7 Terrace Deposit:							
0 - 1.3 Fill: Brown silty S	Fill: Brown silty SAND, loose, moist, abundant roots	roots (up to 12") and	(up to 12") and rootlets, frequent utility lines (water, sprinkler, air hoses).	utility lines (w	/ater, sprink	ler, air hoses).	SIDE WALL
1.3 - 3.7 Terrace Deposit:	<u>Terrace Deposit</u> : Brown fine grained SAND with trace silt, dense, moist, upper 1.3' is porous (occasional to frequent, up to 1mm).	th trace silt, dense, m	oist, upper 1.3' is p	orous (occa:	sional to fre	quent, up to 1mm).	
Graphic Log			E E E				
		(FOOTING	F;				
1 11							
scale 1"=2' ((GEOLABS-WESTLAKE VILLAGE	.0.W	8266-Bundy	Ъ —	PLATE	TP4	

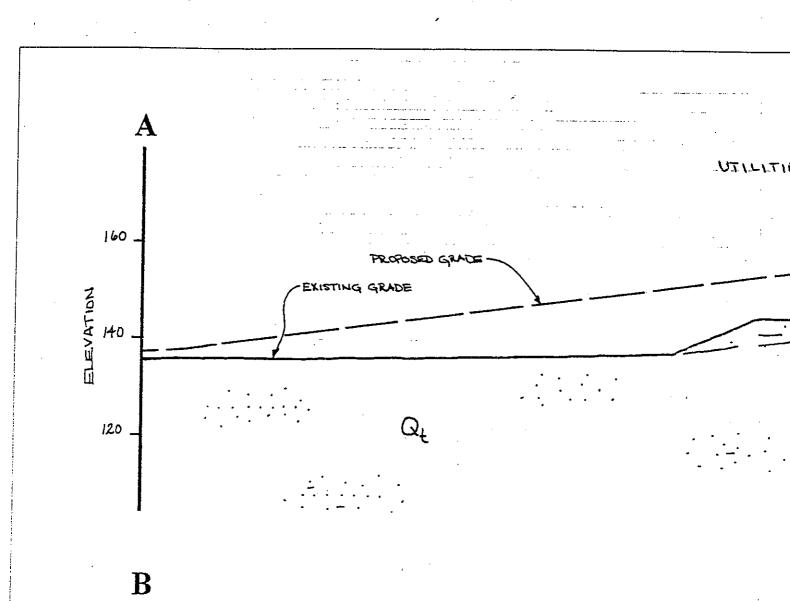
P		Comments				
Client: Santa Monica College		4" diameter).			GAS (?) LINE (2% METAL) (2% TAL)	
Logged By: SD Date Excavated: 8/18/03	Description	<u>Fill</u> : Orangish brown silty SAND, loose to medium dense, moist, abundant roots (up to 4 ⁿ diameter).	Orangish brown silty SAND, medium dense, moist, interbedded with store bought sand.	Terrace Deposits: Bottom probes less than 1", dense.	GEOLABS-WESTLAKE VILLAGE W.O. 8266-Bundv	
LOG OF EXCAVATION Trench No. TP5	Depth (ft)	0 - 2.5 <u>Fill</u> : Orangish I	2.5 - 4 Orangish brow	@ 4' Terrace Depos	scale 1" = 2'	

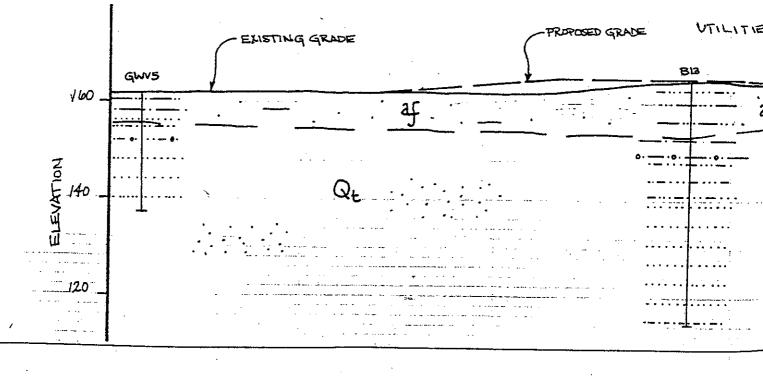
		Comments			 			
nt: Santa Monica College			loose to medium dense,					PLATE TP6
VATION Logged By: SD Date Excavated: 8/18/03 Client: TP6	Description	Fill: Brown silty SAND, loose, dry, abundant roots and rootlets (typically 1/4"-1/2").	<u>Weathered Terrace Deposit</u> : Brown (grading to orangish brown) fine grained SAND with silt, loose to medium dense, slightly moist, porous (frequent to 2mm diameter), rootlets.	<u>Terrace Deposits</u> : Orangish brown fine grained SAND with trace silt, dense, moist.	· ·			1 GEORGE ALLAGE VILLAGE W.O. 8266-Bundy
A	Depth (ft)	0-2	2 - 4	4 - 6	 		scale 1" = 5'	

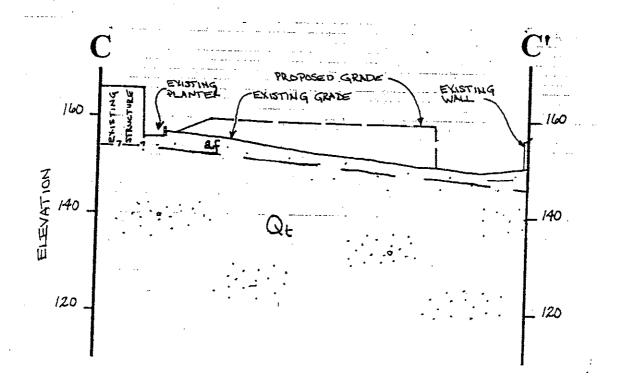
	Comments					<u>.</u>				
Santa Monica College					D with silt, dense, slightly moist to moist, upper 1.5 feet is porous					PLATE TP7
Client:).		ily moist to moist, up					
Date Excavated: 8/18/03			roots (up to 3" diameter).	ootlets.	with silt, dense, slight		Leat	Ac / / / .		W.O. 8266-Bundy
			SAND, loose, dry, roo	nse, slightly moist, ro	fine grained SAND v					TLAKE VILLAGE
Logged By: SD	Description		Approximately 4" of yellow brown SAND, loose, dry,	Fill: Brown sitty SAND, medium dense, slightly moist, rootlets.	Terrace Deposits: Orangish brown fine grained SAN (occasionally up to 1mm).					GEOLABS-WESTLAKE VILLAGE
AVATION TP7		4" AC.	Approximately .	Fill: Brown silty	Terrace Deposits: Orangis (occasionally up to 1mm).					= 2 *
LOG OF EXCAVATION Trench No. TP7	Depth (ft)	0 - 0.3	0.3 - 0.6	0.6 - 1.1	1.1 - 3.2			Graphic Log		scale $1^{"} = 2^{"}$

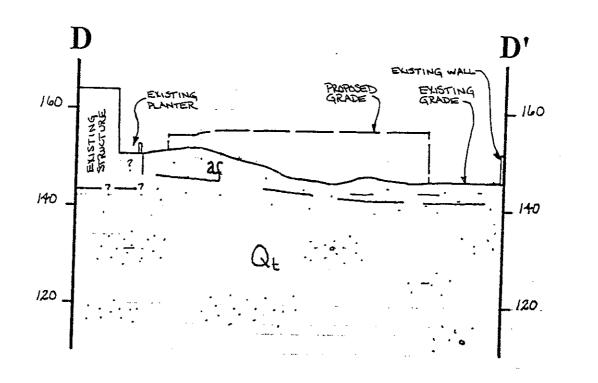


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Geolabs - Westlake Village Geology and soil Engineering Date 7 29 03 Scale 1"=20' N.O. 8266-Bundy

Bulk Sampling for Asbestos, Lead

East Building (2 Story)

3171 S. Bundy Drive Santa Monica, California

December 2003

Prepared for Santa Monica College by

Ellis Environmental Management, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275

December 11, 2003 Project 03-492 REC 1 7 2003

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Terms of Use

Ellis Environmental Management, Inc has prepared this report for the exclusive use of Santa Monica College. Ellis will distribute any information regarding this assessment and report only upon the request of the client. This report is based upon data and information obtained during the site visits performed by Ellis personnel for the property identified herein within the time frames allowed. It is based solely upon the condition of the property on the date of such inspection, supplemented by information and data obtained by Ellis and described herein. Information presented is based on professional interpretation of data available as of the month prior to the date of report. Physical testing of subsurface soils or structures was not performed as part of this assessment. No opinion or warranty is made regarding the existence or location of underground structures or potential contaminants, whether stored or released. In evaluating the property, Ellis has relied in good faith upon representations and information furnished by individuals and agencies noted in the report with respect to operations and existing property conditions, and the historic uses of the property to the extent that they have not been contradicted by data obtained from other sources. Use of this report indicates acceptance and agreement that Ellis will incur no responsibility or liability for any loss, injury, claim or damage arising directly or indirectly from any use or reliance on this report, regardless of whether claimed loss, injury, claim or damage was caused by the deficiency, misstatements, omissions, misinterpretations, or fraudulent acts of persons interviewed. Ellis has performed this work, made findings, and proposed recommendations described in this report in accordance with generally accepted environmental science practices for asbestos and lead-paint surveys in effect at the time the work was performed and within the 5-business-day time frame required. Additional information received following issuance of the report may alter initial findings and recommendations. This warranty stands in lieu of all other warranties, expressed or implied. While this report can be used as a guide, it must be understood that it is neither a rejection nor an endorsement of the property, or of the means or methods used in the treatment, storage or disposal of potentially hazardous materials. Changing circumstances in the environment and in the use of the property can alter the conclusions and information contained in the report.

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Appendix B -	Results Summary – Lead
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Drawings

Sample Locations, Material Summary

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East Building 3171 S. Bundy Drive, Santa Monica

A. <u>Executive Summary</u>

In November of 2003, Ellis was retained by Santa Monica College to conduct an inspection for possible asbestos-containing materials (ACM) and lead-based paint (LBP) at the subject property.

Asbestos has been widely used in the construction of public and commercial buildings since the 1930's. Insulation and fireproofing in more than 750,000 buildings in this country contain some quantity of asbestos. Asbestos building materials and lead based paint are common in buildings constructed prior to 1980. In their normal state, these materials are unlikely to release airborne dust. When broken up or disturbed improperly, however, asbestos fibers or lead dust may become airborne. Inhalation exposure to high levels of asbestos and ingestion of lead paint are associated with an increased incidence of cancer, respiratory disease and organ damage. Any activity that could disturb asbestos materials or lead paint should be undertaken with care and in accordance with applicable law.

At the subject site, asbestos was detected in flooring and flooring mastic, roof penetration mastic, and window putty. Asbestos may also be assumed present but hidden in pipe insulation (inside restroom walls) and in exterior fire door insulation. No damaged paint was identified; lead paint is assumed present beneath fireproofing on "red iron" metal beams.

At the time of inspection, identified or assumed asbestos materials exhibited little or no damage. Removal of asbestos materials in good condition is not required or recommended unless they will be impacted during renovation/demolition activities.

Prior to renovation or demolition, stabilization of peeling and flaking paint is recommended. Remaining materials may be profiled for lead content prior to disposal.

Until they must be removed prior to renovation/demolition, all listed materials may be effectively managed under an asbestos and lead operations and maintenance program.

Personnel working in any building constructed prior to 1980 should be aware that demolition of walls and ceilings might expose (and could damage) hidden asbestos pipe insulation. When exposed, such materials should be isolated from further access until a licensed abatement contractor can remove them.

B. Methodology

Ellis' inspection included the assessment of both 'friable' and 'non-friable' materials. A 'friable' asbestos material is one which may be broken or pulverized using normal hand pressure, thereby releasing airborne dust.

The inspection was performed by:

Scott Stiles Kathy Cummins Barry Smith

Each of the above Ellis employees are trained and accredited by the EPA to conduct asbestos inspections. The inspection was performed under the direction of Duane E. Behrens, an EPA-registered, Cal-OSHA certified building inspector and asbestos consultant employed by Ellis. Field sampling and assessment were conducted according to 40 CFR Part 763 AHERA (Final Rule). During the inspection, each inspector performed the following tasks:

- 1. A visual determination of suspect asbestos materials and damaged paint.
- 2. A physical assessment to determine the condition of suspect materials.
- 3. Sampling and analysis of observed suspect materials.

Collected bulk samples were analyzed for asbestos at Scientific Laboratories in Carson, California; using the polarized light microscopy (PLM) methods described in 40 CFR 763, Subpart F, Appendix A (AHERA). Results are provided in percent asbestos by measured area and are included as an attachment to this report.

Collected paint samples were analyzed for lead using EPA Method 3050/7420. Scientific Laboratories are accredited under NVLAP, California ELAP (#2322) and AIHA (Lab No. 100530).

C. Building/Site Description

The following buildings were inspected:

Building Name		<u>Area (s.f.)</u>
East Building	Lobby	850
_	Floor 1	13,620
	Floor 2	13,620
	Roof	14,500
Total Area		42,590

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Page 2

The East Building is a two-story building located at 3171 S. Bundy. Refer to the enclosed drawings inside the back cover. Construction dates are not known. although age of the building is estimated to be in excess of 30 years. The building is currently vacant. Exterior walls are cinder block. Interior walls are drywall on wood or metal studs. Although currently vacant, past use appears to have been administrative and research and development efforts. The building contains numerous offices and open cubicals. The roof is comprised of built up bitumen felts on a wood and concrete.

D. Inaccessible Areas

Access was provided to all general areas of the site. However, not all walls, ceilings and carpet were demolished in order to gain complete visual access. Additional materials (i.e. piping insulation, fire door insulation, asbestos-cement pipes or panels) may be exposed during renovation, and should be sampled and analyzed for asbestos prior to further disturbance.

E. <u>Results</u>

Friable Asbestos Containing Materials

A "friable" asbestos material is one that, if disturbed improperly, could be broken up using normal hand pressure, thereby releasing airborne dust. Removal of a friable asbestos material is considered as Class I asbestos work under revised federal OSHA requirements (29CFR 1926.1101). The following friable asbestos materials were identified:

- 1. Sprayed-on acoustic ceiling approximately 2,000 square feet.
- 2. Pipe elbow and hangar insulation ("TSI") approximately 36 each. Located in the basement mechanical room and the roof-top mechanical room, elbows, joints and hangars.
- 3. Interior plaster on cinder block walls (perimeter walls) approximately 10,470 s.f.

Non-Friable Asbestos Containing Materials

A "non-friable" asbestos material is one that cannot easily be broken up using normal hand pressure. Identified non-friable asbestos materials include:

- 1. Flooring and mastic throughout approximately 6,000 s.f. In some areas, multiple layers of flooring are present. In other areas, only the asbestos-containing black mastic remains. Visible material (tile not hidden under carpet) was found to be in generally good condition.
- 2. Mastic under carpet throughout approximately 20,000 s.f.
- 3. Wallboard and joint compound throughout approximately 78,900 s.f. Non-friable in its current condition, this material may be made friable by demolition.
- 4. Roof penetration mastic, noted at all roof penetrations and around HVAC pedestals (approximately 35). No asbestos was detected in the main roofing field.
- 5. Duct joint tape approximately 15 joints. Located in the basement mechanical roor

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roof top mechanical room.

Removal of non-friable asbestos materials is considered Class II asbestos work under revised federal OSHA requirements (29CFR 1926.1101).

Non-Asbestos Materials

No asbestos was identified in samples collected from:

- 1. 2'x 2' ceiling tiles, 2' x 4' ceiling tiles, 12" ceiling tile and mastic.
- 2. Duct tape on ducts above ceiling (2^{nd} floor) .
- 3. Lightweight concrete vault door.
- 4. Duct wrap mechanical room, basement
- 5. Plaster mechanical room basement walls.
- 6. Baseboard mastic.
- 7. Main roofing felts.

Lead-Based Paint

All samples were collected under the direction of Duane E. Behrens, DOHS Lead Cert. No. 17914.

Physical samples were collected from all types of unique and accessible exterior and interior wall paint. All samples were analyzed for lead content at Scientific Laboratories in Carson, California, using EPA Method 7420¹.

Quality control included standard chain-of-custody procedures and analysis of one method blank. No anomalies were noted.

Refer to the laboratory analysis report (attached). California Title 8, section 1532.1 references 0.06% lead dry weight as the concentration above which paint may constitute a health hazard if disturbed improperly.

Identified Lead-Based Paint

Lead in excess of 0.06% by weight was identified in the following paints:

• None.

^I Method SW846-3050-7420.

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F. <u>Conclusions</u>

Removal of any material containing asbestos in an amount greater than one percent is regulated under EPA-SCAQMD Rule 1403, 29 CFR 1926.1101 (federal OSHA) and other state and local guidelines².

Identified asbestos materials were found to be in generally good condition at the time of inspection. No immediate corrective action is required or recommended unless the materials will be impacted by renovation/demolition activities.

Until they are removed, all asbestos materials should be included in an operations and maintenance program designed to (a) periodically assess the condition of each ACM and (b) train employees on appropriate response actions when damaged materials are encountered.

This report is not an endorsement or rejection of the means or methods used in the handling of potentially hazardous materials. Ellis Environmental Management, Inc., provides Phase I environmental site assessments (ESA's), monitoring for indoor contaminants (IAQ studies), testing for and administration of the removal of potentially hazardous building materials. Licensed to practice in the state of California, employees conducting asbestos surveys are certified by Cal-OSHA pursuant to regulations required by subdivision (b) of Section 9021.5 of the Labor Code, and have taken and passed an EPA-approved Building Inspector course.

G. Signatory

Respectfully Submitted,

Duane E. Behrens President, REA Cal-OSHA Cert. 92-0226 DOSH Cert. I- 7914

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Page 5

² Although the standard is currently under review, the Division of Occupational Safety and Health is also required to enforce CCR Section 1529 for construction materials which may contain greater than 0.1 percent asbestos, since they are technically considered as a "listed carcinogen" under Sections 9030 and 9031 of the California Labor Code.

Appendix A

Results Summary Asbestos

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SAMPLE NO.	MATERIAL	MATERIAL LOCATION	ASBESTOS	EST QTY	
IDENTIFIED ASBESTOS MATERIALS	STOS MATERIALS				
2421	TSI	roof mechanical room, pipe elbows, hangars	3%	10	o G
2414, 2415, 2416, 2417, 2418	TSI, elbows, joints and hangars	mechanical room, basement	5%	26	a 6
2410	duct joint tape	mechanical room, basement	40%	15	joints
2422, 2423, 2424, 2425, 2430, 2431, 2435	penetration mastic	main roof	4%	40	a B
2432, 2433, 2434	plaster, exterior	mechanical building on roof	1%	1800	s.f.
2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2335, 2336, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382	flooring and mastic	1st and 2nd floors	%2	6,000	j.
2335, 2373, 2389, 2390, 2391, 2392, 2393	mastic (only)	1st & 2nd floor, under carpets	2%	25,000	s.f.
2352, 2353, 2354, 2355, 2356, 2357, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407,	sprayed-on ceilings	1st & 2nd floor, rooms: 104, 108, 110, 124, 125, 126, 127, 161, 243, 252, 254	20%	2,000	s.f.
2330, 2331, 2333, 2339, 2340, 2341, 2342, 2358, 2359, 2360, 2361, 2362, 2363, 2364	plaster	1st& 2nd floor, perimiter walls	3%	10,470	s.f.
2318, 2338, 2343, 2344, 2345, 2346, 2365, 2366, 2367, 2368, 2369, 2370, 2371	wallboard system	1st & 2nd floor	2%	78,900	s.f.

<u>Table 1</u> Results Summary - Asbestos EAST BUILDING 3171 S. Bundy, Santa Monica

SHEET 1 OF 2 Project No: 03-492 12/8/03

> **EINTS** (310) 544 1837

SAMPLE NO.	MATERIAL	MATERIAL LOCATION	ASBESTOS	EST QTY	UNIT
NON-ASBESTO	<u>OS MATERIALS</u>				
2426, 2427, 2428	roof core	main roof			
2429	roofing material	main roof			
2411, 2412, 2413	plaster	mechanical room, basement			
2419, 2420	duct wrap	mechanical room, basement			
2319, 2334, 2337, 2383, 2384, 2385, 2386, 2387, 2388	mastic, baseboard	2nd floor			
2386	baseboard, gray	corridors			
2347, 2394, 2395, 2396, 2397,		2nd floor			
2348, 2408, 2409	2x4 ceiling tile	2nd floor			
2349, 2350	& mastic	2nd floor,			1
2351		above ceiling, 2nd floor			
2372	lt. wt. cement	vault door, 1st floor	-		T
	Tahla 1]

SHEET 2 OF 2 Project No: 03-492 12/8/03

<u>Table 1</u> Results Summary - Asbestos EAST BUILDING 3171 S. Bundy, Santa Monica

> **EXITS** (310) 544 1837

Appendix B

Results Summary Lead

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REFERENCE	MATERIAL	MATERIAL LOCATION	SAMPLED AT	% LEAD
		IDENTIFIED LEAD-BASED PAINTS		
	none identifie	×d		
		NON-LEAD-BASED PAINTS	1	
83	white exterior paint	mechanical room, roof	west wall mech. rm., roof	
85	white exterior paint	exterior concrete and block	south concrete columns	
86	white exterior paint	exterior concrete and block	north block planters	

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RESULTS SUMMARY - LEAD EAST BUILDING 3171 S. Bundy, Santa Monica SHEET 1 OF 1 03-492 011/23/03 Appendix C

Removal Cost Estimates



ITEM	MATERIAL	στλ	UNIT	<u>RATE</u> (DEMOLITION)	RATE	DEMOLITION TOTALS	<u>RENOVATION</u> TOTALS*
~	pipe elbows and joints, roof mech	9	g	\$ 40.00	\$ 60.00		\$ 600.00
2	pipe elbows and joints, bsmt mech	26	g	\$ 40.00	\$ 60.00	\$ 1,040.00	\$ 1,560.00
e	duct joint tape, bsmt mech room	20	ea	\$ 40.00	\$ 60.00	\$ 800.00	\$ 1,200.00
4	roof penetration mastic	40	ea	\$ 35.00	\$ 50.00	\$ 1,400.00	\$ 2,000.00
Q	exterior plaster, roof mech room	1800	s.f.	\$ 8.00	\$ 12.00	\$ 14,400.00	\$ 21,600.00
9	flooring and mastic, both floors	6,000	s.f.	\$ 1.70	\$ 3.50	\$ 10,200.00	\$ 21,000.00
2	mastic under carpet, both floors	25,000	s.f.	\$ 1.20	\$ 3.00	\$ 30,000.00	\$ 75,000.00
ω	sprayed on acoustic ceiling, Fl. 2	2,000	s.f.	\$ 3.00	\$ 7.00	\$ 6.000.00	\$ 14 000 00
o	interior plaster - perimeter walls - both floors	10,470	s.f.	\$ 1.50	\$ 2.50		
10	wallboard systems, interior walls - both floors	78,900	s.f.			78.900.00	•
			•			┨────┤	\$ 360,385.00

ABATEMENT COST ESTIMATE EAST BUILDING

*Assumes abatement of small areas (<10,000 s.f.) in an occupied building, protection of existing HVAC, etc.

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Appendix D

Laboratory Reports Asbestos

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	SCIENTIFIC	LABORATORIES ALIFORNIA, INC.
SCILAB		MAIN STREET + SUITE 308
	TEL: (310) 834	CARSON, CA 90745 I-4868 • FAX: (310) 834-4772
	PLM Bulk Asbestos Repo	
Ellis Environmental Man Inc. Attn: Duane Behrens	Date Examined 12/05/2003	Page 1 of 4
430 Silver Spur Road Suite 201	RE: 03-492; SMCC; 3171 Bu	undy, SM/2-Story Bldg., Hoor
Rancho Palos Verdes, C		esent Total % Asbesto
Client No. / HGA 2421 Locatio	Lab No. Asbestos Pro 903121079-01 Yes n: TSI, Elbow Mtl, W. Mech Rm. Roof	
Asbestos Type	n: Grey, Homogeneous, Bulk Material s: Chrysotile 3. % al: Non-fibrous 97. %	
2422 Locatio	903121079-02 No v n: Pen Mastic, S Roof at Vent Pipe, Roof	NAD
Asbestos Type	n: Silver/Black, Heterogeneous, Bulk Material es: al: Fibrous glass 10. %, Non-fibrous 90. %	
2423	903121079-03 Yes on: Pen Mast, S Roof at Vent Pipe, Roof	√ <1.%⁄/
Ashestos Typ	on: Silver/Black, Heterogeneous, Bulk Material es: Chrysotile Trace lal: Fibrous glass 10. %, Non-fibrous 90. %	
Other Mater		
Other Mater	903121079-04 Yes	< 1.%
Other Mater 2424 Location Description	903121079-04 Yes on: Pen Mast, N Roof at Vent Pipe, Roof on: Grey/Black, Heterogeneous, Bulk Material es: Chrysotile Trace	< 1.%
Other Mater 2424 Location Description Asbestos Typ Other Mater 2425	903121079-04 Yes on: Pen Mast, N Roof at Vent Pipe, Roof on: Grey/Black, Heterogeneous, Bulk Material	

			SCIENTIFIC LABOR	
~ ~ .	1		OF CALIFOR	NIA, INC.
SCI	LAB		24416 SOUTH MAIN STRE CAI	EET • SUITE 308 RSON, CA 90745
-			TEL: (310) 834-4868 • FAX	
	:			
		PLM Bulk Asb	estos Report	
Ellis Env	ironmental Ma	nagement, Date Receiv		
Inc.		Date Exami	ned 12/05/2003 P.O. #	
• ••• ••	ane Behrens			2 of 4
430 Silve Suite 201	er Spur Road	RE: 03-492;	SMCC; 3171 Bundy, SM/	2-Story Diug., noor
	Palos:Verdes,	CA 90275		
Client No	o. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2426	÷	903121079-06	No	NAD
•	Locatio	n: Roof Core, S Roof		
	Description	on: Silver/Black, Heterogeneous,	Bulk Material	
	Asbestos Tvp	es:		
·	Other Mater	al: Cellulose 20. %, Fibrous g		
2427	•	903121079-07	No 🗸	NAD
2427	Locati	903121079-07 on: Roof Core, Central E Roof	Νο	NAD
2427		on: Roof Core, Central E Roof		NAD
2427	Descripti Asbestos Tvo	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es:	, Bulk Material	•
2427	Descripti Asbestos Tvo	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous,	, Bulk Material	•
	Descripti Asbestos Tvo	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: ial: Cellulose 40. %, Fibrous g	, Bulk Material	•
	Descripti Asbestos Typ Other Mater	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lal: Cellulose 40. %, Fibrous g 903121079-08	, Buik Material lass 10. %, Non-fibrous 50. %	, j
	Descripti Asbestos Typ Other Mater Locati	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellutose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof	, Bulk Material lass 10. %, Non-fibrous 50. % No	, j
	Descripti Asbestos Typ Other Mater Locati Descripti	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lal: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous,	, Bulk Material lass 10. %, Non-fibrous 50. % No	, j
	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lal: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous,	, Bulk Material lass 10. %, Non-fibrous 50. % No	NAD
2428	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, es: fat: Cellulose 40. %, Fibrous g	, Bulk Material No No Bulk Material Jass 10. %, Non-fibrous 50. 9	S NAD
	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mate	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: iat: Cellutose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: fat: Cellutose 40. %, Fibrous g 903121079-09	, Bulk Material lass 10. %, Non-fibrous 50. % No	NAD
2428	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mate	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, es: fat: Cellulose 40. %, Fibrous g	, Bulk Material No No Bulk Material Jass 10. %, Non-fibrous 50. 9	S NAD
2428	Description Asbestos Typ Other Mater Locati Description Asbestos Typ Other Mater Locati	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: tal: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous	, Bulk Material Mass 10. %, Non-fibrous 50. % No Bulk Material Mass 10. %, Non-fibrous 50. 9 No	S NAD
2428	Description Asbestos Typ Other Mater Locati Description Asbestos Typ Other Mater Locati Description	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: tal: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous res:	, Buik Material Mass 10. %, Non-fibrous 50. % No Buik Material Mass 10. %, Non-fibrous 50. % No	S NAD
2428	Description Asbestos Typ Other Mater Locati Description Asbestos Typ Other Mater Locati Description	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: tal: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous	, Bulk Material No No Bulk Material Mass 10. %, Non-fibrous 50. % No No Sulk Material fibrous 75. %	6 NAD
2428	Descripti Asbestos Typ Other Mater Locati Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, es: ial: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous es: rial: Fibrous glass 25. %, Non- 903121079-10	, Bulk Material No No No Bulk Material No √ No √ No √ No √ No √	S NAD
2428 2429	Descripti Asbestos Typ Other Mater Locati Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lal: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: tal: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous es: rial: Fibrous glass 25. %, Non-	, Bulk Material No No No Bulk Material No √ No √ No √ No √ No √	6 NAD
2428 2429	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater Locati Asbestos Typ Other Mater	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lal: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, res: fal: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous res: rial: Fibrous glass 25. %, Non- 903121079-10 on: Pen Mastic at Pedestal, S Ca	, Buik Material No No Buik Material No No No No No No Buik Material fibrous 75. % No	6 NAD
2428 2429	Description Asbestos Typ Other Mater Locati Description Asbestos Typ Other Mater Locati Asbestos Typ Other Mater Locati Asbestos Typ	on: Roof Core, Central E Roof on: Silver/Black, Heterogeneous, es: lat: Cellulose 40. %, Fibrous g 903121079-08 on: Roof Core, N Roof on: Grey/Black, Heterogeneous, es: fat: Cellulose 40. %, Fibrous g 903121079-09 on: Roof Material, Central Roof on: Silver/Black, Heterogeneous es: fiat: Fibrous glass 25. %, Non- 903121079-10 fon: Pen Mastic at Pedestal, S Co ion: Grey/Black, Heterogeneous,	, Buik Material Mass 10. %, Non-fibrous 50. % No Buik Material Mass 10. %, Non-fibrous 50. % No No No No No No Buik Material fibrous 75. % No No No No No No No No	NAD

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	SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.
SCILAB	24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745
The second s	TEL: (310) 834-4868 • FAX; (310) 834-4772
	PLM Bulk Asbestos Report
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Sulte 201 Rancho Palos Verdes	Date Examined 12/05/2003 P.O. # 00 102 Page 3 of 4 RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof CA 90275
Client No. / HGA	Lab No. Asbestos Present Total % Asbestos
2431	903121079-11 Yes / 3 %
Asbestos Ty Other Mate 2432 Loca Descrip Asbestos Ty	tion: Grey/Black, Heterogeneous, Bulk Material pes: Chrysotile 3. % rial: Non-fibrous 97. % 903121079-12 No NAD tion: Plaster, S Wall Ext (Mech Room), Roof tion: Grey, Homogeneous, Cementitious, Bulk Material rpes: erial: Non-fibrous 100. %
2433	903121079-13 Yes < 1.% tion: Plaster, Roof Exter Mech Rm, North Wall, Roof
Asbestos T	tion: Grey, Homogeneous, Cementitious, Bulk Material pes: Chrysotile Trace erial: Non-tibrous 100. %
2434 Loca	903121079-14 No NAD Nation: Plaster, Ext Mech Rm, W Wall Roof
Asbestos T	ofion: Grey, Homogeneous, Cementitious, Bulk Material ypes: terial: Non-fibrous 100. %
-	903121079-15 Yes 4 % ation: Mastic (White) at Lg. HvAC Pedestal, West Central Roof
Asbestos 1	ption: White/Black, Heterogeneous, Bulk Material ypes: Chrysotile 4. % terial: Fibrous glass 16. %, Non-fibrous 80. %

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	SCIENTIFIC LABORATORIES
	OF CALIFORNIA, INC.
SCILAB	24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745
	TEL: (310) 834-4868 • FAX: (310) 834-4772
:	:
	PLM Bulk Asbestos Report
Ellis Environmental Mana	gement, Date Received 12/03/2003 SciLab Job No. 903121079
Inc.	Date Examined 12/05/2003 P.O. # 03-492
Attn: Duane Behrens	Page 4 of 4
430 Silver Spur Road	RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof
Rancho Palos: Verdes, C/	A 90275
Reporting Notes:	
Pt Ct = 0.1%; NA = not analyz 600/M4-82-020 per 40 CFP 7 reliable in detecting asbestos currently the only method that non-asbestos-containing in N	vsky $12^{-5.3}$; Date Analyzed: $12^{-5.3}$; between Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 zea; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA r63 (NVLAP Lab #200346-0, CA ELAP Lab #2322); Note: PLM is not consistently in floor coverings and similar non-friable organically bound materials. TEM is t can be used to determine if this material can be considered or treated as lew York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). Is and Technology Accreditation requirements mandate that this report must not be not the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By:	
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Prval --DAMAGE Date 12/3/07 Proj. No. D3-492 Inspector Initials QNTY. UNIT FRIABLE Ś Sheet STANK K MATERIAL LOCATION ĥ Client: SML d G Project: ____ Ś No E E at-Vivot ape N. Central Roy at pedistal, S. Central ETIDON WHL, W. METh. R.M. at Ventores S. Walk, ext. (mech Ruen N, Rout at Yent are S. Ront at vent of ca 903121079 SAMPLE LOCATION the Central Road S. Ray at ventore Rent ł Central'E oa X 8 2 $\overline{\mathcal{Q}}$ Ż BILLS Environmental Managment, Inc. Roofing moteria FIELD SAMPLING INVENTORY MATERIAL Rancho Palos Verdes, CA 90275 430 Silver Spur Road, Suite 201 Pen. Mastic Pen. Marst Mast Ren Mast Pen. Mast. Koul Oore Core - Con Pen. Mashic Physica Per. r Se Se たって <u>V</u> (310) 544 1837 SAMPLE # 2429 2430 [2432 2426 2428 2427 2431 2425 2424 2423 2422 2421

12/02/5003

14:27

FIELD S/	FIELD SAMPLING INVENTORY ROOF (2 Story Bidg)	903121079	Client: SWLC Project: 217-1 BUNDU, SM, 2 Story DId. Roof Proj. No. 02-492	1044, SM, 254	1, 2 Str 2-492	
SAMPLE #		SAMPLE LOCATION		CANTY, UNUT	FRIABLE	DAMAGE
2433	Placen	exter. Mech. Run. North Wall Ext. Mech Run W. Wall	Ker			
2435	Monstic (white)	let la. HVAC Peckeotal Runp	Kent			
		-				
		·				
BILLS 430 Silve Rancho P	EMMA Environmental Managment, Inc. 430 Silver Spur Road, Sulte 201 Rancho Palos Verdes, CA 90276				Date 12/3/07 Inspector Mittals	Cara
(310) 544 1837	1837			ळ	Sheed 🔔 of	d

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903121079 Kothu Cummins sheet tot	Tests Required	Asherbo					•	Date Date	-	
9 () Sampler:	Tes	plim - Ash		•				LBV.		·
t luc.	Solid	X.					Standard	Lechved By		
s ORD	AIr						Sta .			
REC(H20						 5 daye	5		• •
 Aironmental Managemei Bilver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275 (310) 544-1837 (tal) (310) 544-1837 (tal) (310) 544-2167 (fmc) (310) 544-2167 (fmc) 	Time				- 		9	 		
CUS: CUS: CUS:	<u> </u>	Ø	$\frac{1}{1}$			 ┼╌┨	 8	0		· · ·
NVITO 430 St Rand Rand	Date	6.6					6.3 days			
49 3 Ellis Environmental Management, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Varies, CA 90275 (310) 544-1837 (a) (310) 544-1837 (a) (310) 544-2167 (fm) (2) CHAIN OF CUSTODY RECORD	Description	2 Der attachuer	þ				same day24 hrs	VAHM (MMMM	- 0	
Project No.: 03 - 49 2 client: SMAA Location: 2121 121400	Sample Number	2421 to 2435					Lurnaroung:	10-18 03		

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		'IFIC LABORA OF CALIFORN	
SCILAB	24416	SOUTH MAIN STREET	• SUITE 308 DN, CA 90745
	PLM Bulk Asbestos R	eport	
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes,	Date Examined 12/04/2 RE: 03-492; SMCC; 31	2003 P.O.# 03 Page 1	3-492 of ¹⁴
Client No. / HGA	Lab No. Asbesto	os Present	Total % Asbesto
Descript Asbestos Typ	ion: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi ion: White/Brown, Heterogeneous, Drywall	No	NAD
	1		
Descript Asbestos Typ	on: White, Heterogeneous, Joint Compound	No 🖌	NAD
Locat Descripti Asbestos Typ Other Mate 2318 Locati Descripti	on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: White, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-01.3 on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: Cream, Heterogeneous, Joint Compound	ices No	NAD
Locati Descripti Asbestos Typ Other Mate 2318 Locati Descripti Asbestos Typ	on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: White, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-01.3 on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: Cream, Heterogeneous, Joint Compound	ices No	
Locati Descripti Asbestos Typ Other Mate 2318 Locati Descripti Asbestos Typ Other Mate 2319	on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: White, Heterogeneous, Joint Compound os: rial: Non-fibrous 100. % 903121077-01.3 on: Drywall/JC, Rm. 252 (SW Cmr), 2nd Flr Offi on: Cream, Heterogeneous, Joint Compound os: rial: Non-fibrous 100. %	ices No ces No ~	
Locati Descripti Asbestos Typ Other Mate 2318 Locati Asbestos Typ Other Mate 2319 Locati Descripti Asbestos Typ	on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: White, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-01.3 on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: Cream, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-02L1 on: Baseboard Mastic, Rm. 247 (SE Crnr), 2nd on: Brown, Heterogeneous, Mastic	ices No ces No ~	NAD
Locati Descripti Asbestos Typ Other Mate 2318 Locati Asbestos Typ Other Mate 2319 Locati Asbestos Typ Other Mate 2319	on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: White, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-01.3 on: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offi on: Cream, Heterogeneous, Joint Compound es: rial: Non-fibrous 100. % 903121077-02L1 on: Baseboard Mastic, Rm. 247 (SE Crnr), 2nd on: Brown, Heterogeneous, Mastic es: rial: Fibrous Talc 3. %, Non-fibrous 97. %	No No Flr Offices	NAD

		SCIENTIFIC LABO	DRATORIES DRNIA, INC.
SCILAB		24416 SOUTH MAIN ST	
			ARSON, CA 90745
	PLM Bulk Asb	estos Report	
;			
Ellis Environmental M Inc.		ed 12/03/2003 SciLat ed 12/04/2003 P.O.#	03-492
Attn: Duane Behrens 430 Silver Spur Road Suite 201	RE: 03-492;	Page SMCC; 3171 Bundy, SN	
Rancho Palos Verdes	, CA 90275		
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2320	903121077-03L1 ion: Tan Linoleum (Aggregate), Me	No ~ n's RR (Rm. 214), 2nd Flr RR	NAD 's
Descript Asbestos Typ	ion: Beige, Heterogeneous, Linoleu	m	
2320	903121077-03L2	No /	NAD
Locati	on: Tan Linoleum (Aggregate), Me	n's RR (Rm. 214), 2nd Fir RR	ŝ
Asbestos Typ	on: Yellow, Heterogeneous, Mastic es: fal: Cellulose 5. %, Non-fibrous		
2321	903121077-04L1	No 🗸	NAD
Locati	on: Brn FT & Mastic, N. Corridor Ac	dj. to Men's RR, 2nd Flr.	•
Asbestos Typ		ĩle	
Other Mater	ial: Non-fibrous 100. %		
2321 	903121077-04L2 on: Bm FT & Mastic, N. Corridor Ac	Yes ✓ Ij. to Men's RR, 2nd Fir.	3 %
	on: Black/Yellow, Heterogeneous, I es: Chorsofile, 3, %	Mastic	
Asbestos Typ	ial: Non-fibrous 97. %		
Asbestos Typ Öther Mater 2322	ial: Non-fibrous 97. % 903121077-05L1	No /	NAD
Asbestos Typ Öther Mater 2322 Locatio	ial: Non-fibrous 97. % 903121077-05L1 on: Brn FT, Under Carpet East Com on: Yellow. Heterogeneous, Mastic	idor (Adj. Rm. 249), 2nd Flr	NAD

0.0			SCIENTIFIC OF C	LABORA) ALIFORNI	
30	LAB		24416 SOUTH	MAIN STREET .	SUITE 308
No.	Sector of Contract		TEL: (310) 834	CARSON 4868 • FAX: (310	I, CA 90745)) 834-4772
					.,
	•	PLM Bulk Asb	estos Repo	rt	
	vironmental M		ed 12/03/2003		
Inc. Affer Di	uane Behrens	Date Exami	ned 12/04/2003		
	ver Spur Road	RE: 03-492	SMCC; 3171 But		of 14 ony 2nd Floor
Suite 20	D1	NE , 00-702,		10y, 01472-0t	ory, 2nd 1 100r
Rancho	Palos Verdes	, CA 90275			
Client N	lo. / HGA	Lab No.	Asbestos Pre	sent 1	Total % Asbesto
2322		903121077-05L2	No ,		NAD
	Locat	on: Bm FT, Under Carpet East Co	orridor (Adj. Rm. 249),	2nd Fir	
	Descript	ion: Brown, Heterogeneous, Floor	Tilo		
	Asbestos Ty		l IIÊ		
· · · · · · · · · · · · · · · · · · ·	Other Mate	riak Non-fibrous 100. %			
				1.000	
2322		903121077-051 3	Ves		7 %
2322	Locat	903121077-05L3 on: Brn FT, Under Carpet East Co		2nd Flr	7 %
2322	Descript Asbestos Tyj		orridor (Adj. Rm. 249), c		7 %
	Descript Asbestos Tyj	on: Bm FT, Under Carpet East Co on: Black, Heterogeneous, Mastic ses: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous	orridor (Adj. Rm. 249), ; ; 90. %	2nd Fir	
2322 2323	Descript Asbestos Tyj Other Mate	on: Bm FT, Under Carpet East Co on: Black, Heterogeneous, Mastic ses: Chrysotile 7. %	orridor (Adj. Rm. 249), : : 90. % Yes /	2nd Fir	7 %
	Descript Asbestos Tyj Other Mate Locat Descript Asbestos Tyj	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic ses: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1	orridor (Adj. Rm. 249), 90. % Yes /), 2nd Fir	2nd Fir	
2323	Descript Asbestos Tyj Other Mate Locat Descript Asbestos Tyj	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic es: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri pes: Chrysotile 3. % rial: Non-fibrous 97. %	orridor (Adj. Rm. 249), 90. % Yes /), 2nd Fir	2nd Fir	3 %
	Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ Other Mate	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastin bes: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri bes: Chrysotile 3. % rial: Non-fibrous 97. % 903121077-06L2	orridor (Adj. Rm. 249), 90. % Yes), 2nd Fir le Yes	2nd Fir	
2323	Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic es: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri pes: Chrysotile 3. % rial: Non-fibrous 97. %	orridor (Adj. Rm. 249), 90. % 90. % Yes), 2nd Fir le Yes), 2nd Fir	2nd Fir	3 %
2323	Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic bes: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri bes: Chrysotile 3. % rial: Non-fibrous 97. % 903121077-06L2 ion: Tan 9" FT, Util. Rm. (Rm. 249 on; Black, Heterogeneous, Mastic bes: Chrysotile 4. % rial: Non-fibrous 96. %	orridor (Adj. Rm. 249), 90. % 90. % Yes), 2nd Fir le Yes), 2nd Fir	2nd Fir	3 %
2323	Descript Asbestos Typ Other Mate Locat Descript Asbestos Typ Other Mate Descript Asbestos Typ Other Mate	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic ses: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri ses: Chrysotile 3. % rial: Non-fibrous 97. % 903121077-06L2 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Black, Heterogeneous, Mastic ses: Chrysotile 4. %	orridor (Adj. Rm. 249), 90. % 90. % Yes /), 2nd Fir ie), 2nd Fir Yes /	2nd Flr	3 %
2323	Descript Asbestos Tyr Other Mate Locat Descript Asbestos Tyr Other Mate Locat Asbestos Tyr Other Mate Locat	ion: Bm FT, Under Carpet East Co ion: Black, Heterogeneous, Mastic pes: Chrysotile 7. % rial: Cellulose 3. %, Non-fibrous 903121077-06L1 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Tan, Heterogeneous, Floor Tri pes: Chrysotile 3. % rial: Non-fibrous 97. % 903121077-06L2 ion: Tan 9" FT, Util. Rm. (Rm. 249 ion: Black, Heterogeneous, Mastic pes: Chrysotile 4. % rial: Non-fibrous 96. %	orridor (Adj. Rm. 249), 90. % Yes), 2nd Fir ie Yes), 2nd Fir ie Yes m. 226 (Telephone Clo	2nd Flr	3 %

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	₩, 4 1; Junt			24416 SOUTH		EET • SUITE 3 RSON, CA 907	
				TEL: (310) 834		X: (310) 834-47	
		PLM Bu	lk Asbest	tos Repo	ort		
Ellis Environ	nmental Ma	•	ate Received				3121077
Inc. Attn: Duane	Bebrens	Da	ate Examined	12/04/2003		· ·	,
430 Silver S		RI	E: 03-492; SM	CC: 3171 Br	~	4 of 14 /2-Story 2n	
Suite 201 Rancho Palo	os Verdes,		. ,,,	,			
Client No. / I	HGA	Lab No.		Asbestos Pre	esent	Total %	Asbest
2325		90312107 on: Blk Mastic Under		No /			AD
			_				
	sbestos Typ	on: Black, Heteroger es: ial: Cellulose 5. %,		%			
2326		90312107	7-09	No /		N	AD
• •	• • • • • •	ma Olic Manakia Mandana	Connet I - Cont				
	Locatio	DIT: DIK MASUC UNDER	Carper, Lg. Conr.	Rm. (Rm. 230),	2nd Fir Ce	entral	
3			• • •		2nd Fir Ce	entral	
•	Description Destos Type	on: Yellow/Black, Hel es:	erogeneous, Mas	tic	2nd Fir Ce	entral	
į	Description Destos Type	on: Yellow/Black, Hel es: al: Cellulose 5. %,	erogeneous, Mas Non-fibrous 95.	tic	2nd Fir Ce		AD
•	Description bestos Type Other Materi	on: Yellow/Black, Hel es:	erogeneous, Mas Non-fibrous 95. 7-10L1	tic % No -	2nd Fir Ce		AD
į	Description bestos Type Other Materi Location	on: Yellow/Black, Hel es: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co	Non-fibrous 95. 7-10L1 prridor Adj to Rm.	tic % No -	2nd Fir Ce		AD
2327 As	Description bestos Type Other Materi Location Description bestos Type	on: Yellow/Black, Hel al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s:	Non-fibrous 95. 7-10L1 prridor Adj to Rm. cous, Floor Tile	tic % No -	2nd Fir Ce		AD
2327 As	Description bestos Type Other Materi Location Description bestos Type	on: Yellow/Black, Hel es: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene	Non-fibrous 95. 7-10L1 prridor Adj to Rm. cous, Floor Tile	tic % No -	2nd Fir Ce		AD
2327 As	Description bestos Type Other Materi Location Description bestos Type Other Materi	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077	Verogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. wous, Floor Tile %	tic % 251, 2nd Flr No	2nd Fir Ce	N	AD AD
2327 As	Description bestos Type Other Materi Location Description bestos Type Other Materi Location	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co en: Grey, Heterogene s: al: Non-fibrous 100. 903121077 on: Gry 12" FT, E. Co	Verogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. wous, Floor Tile % 7-10L2 prridor Adj to Rm.	tic % 251, 2nd Flr No 251, 2nd Flr	2nd Fir Ce	N	
2327 As 2327	Description bestos Type Other Materi Location Description bestos Type Other Materi Location	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077 n: Gry 12" FT, E. Co n: Clear/Yellow, Heterogene	Verogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. wous, Floor Tile % 7-10L2 prridor Adj to Rm.	tic % 251, 2nd Flr No 251, 2nd Flr	2nd Fir Ce	N	
2327 As 2327 As	Description bestos Type Other Materi Location Description Description Description Description Description	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077 n: Gry 12" FT, E. Co n: Clear/Yellow, Heterogene	Verogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. cous, Floor Tile % 7-10L2 prridor Adj to Rm. erogeneous, Mast	tic % 251, 2nd Flr No 251, 2nd Flr ic	2nd Fir Ce	N	
2327 As 2327	Description bestos Type Other Materi Location Description Description Description Description Description	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077 n: Gry 12" FT, E. Co n: Clear/Yellow, Hetes: al: Cellulose 7. %,	erogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. cous, Floor Tile % 7-10L2 prridor Adj to Rm. erogeneous, Mast Non-fibrous 93. 1	tic % 251, 2nd Flr No 251, 2nd Flr ic	2nd Fir Ce	N	AD
2327 As 2327 As	Description bestos Type Other Materi Location Description Description Description Description Destos Type Other Materia	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077 n: Gry 12" FT, E. Co n: Clear/Yellow, Hetes:	Aerogeneous, Mas Non-fibrous 95. 7-10L1 prridor Adj to Rm. eous, Floor Tile % 7-10L2 prridor Adj to Rm. erogeneous, Mast Non-fibrous 93. 1 7-11L1	tic % No ~ 251, 2nd Flr 251, 2nd Flr ic % No ~	-	N	
2327 As 2327	Description bestos Type Other Materi Location Description Description Description Description Description Description Description Description Description Description Description Description Description	on: Yellow/Black, Hel es: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene es: al: Non-fibrous 100. 903121077 on: Gry 12" FT, E. Co n: Clear/Yellow, Hete s: al: Cellulose 7. %, 903121077 n: Linoleum (Tan Ag	Aerogeneous, Mas Non-fibrous 95. 7-10L1 Dirridor Adj to Rm. Ecous, Floor Tile % 7-10L2 Dirridor Adj to Rm. Erogeneous, Mast Non-fibrous 93. 7-11L1 gregate), Women	tic % No ~ 251, 2nd Flr 251, 2nd Flr ic % No ~	-	N	AD
2327 As 2327 As 2328 Asl	Description bestos Type Other Materi Location Description bestos Type Other Materi Location Description bestos Type Other Materia	on: Yellow/Black, Heles: al: Cellulose 5. %, 903121077 on: Gry 12" FT, E. Co on: Grey, Heterogene s: al: Non-fibrous 100. 903121077 n: Gry 12" FT, E. Co n: Clear/Yellow, Hete s: al: Cellulose 7. %, 903121077 n: Linoleum (Tan Ag n: Tan, Heterogeneo	Aerogeneous, Mas Non-fibrous 95. 7-10L1 Duridor Adj to Rm. 2000, Floor Tile % 7-10L2 Duridor Adj to Rm. 2-10L2 Duridor Adj to Rm. 2-11L1 Duridor Adj to Rm. 2-11L1 Duridor Adj to Rm. 2-11L1	tic % 251, 2nd Flr 251, 2nd Flr 251, 2nd Flr ic % No 's Lounge Rm. 2	240, 2nd Fli	N N r RR's	AD

SCILAB	OF CALIFORNIA, INC.
	24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772
:	PLM Bulk Asbestos Report
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes, 6	Date Examined 12/04/2003 P.O. # 03-492 Page 5 of 14 RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor
Client No. / HGA 2328	Lab No.Asbestos PresentTotal % Asbestos903121077-11L2NoNAD
Descriptio Asbestos Type	n: Linoleum (Tan Aggregate), Women's Lounge Rm. 240, 2nd Flr RR's n: Off-White, Heterogeneous, Mastic ne: al: Cellulose 3. %, Non-fibrous 97, %
2329 Location	903121077-12L1 No V NAD n: Basebd Mastic, Storage Off. Women's Lounge Rm. 240, 2nd Fir RR's South
Asbestos Type:	n: Brown, Heterogeneous, Mastic s: Il: Fibrous Talc 3. %, Non-fibrous 97. %
2329	903121077-12.2 Yes 4 % n: Basebd Mastic, Storage Off. Women's Lounge Rm. 240, 2nd Fir RR's South
Description Asbestos Types	n: White, Heterogeneous, Plaster/Skim Coat s: Chrysotile 4. % I: Non-fibrous 96. %
2330 Location	903121077-13 No V NAD : Plaster, Corner of Wall Near Rm. 226, N. Central Area, 2nd Fir
Asbestos Types	: White, Heterogeneous, Plaster : : Non-fibrous 100. %
2331	903121077-14.1 No NAD : Plaster, E. Wall Rm. 201, E. Central Ofcs, 2nd Fir
Location	

0.0.1	SCIENTIFIC LABORA OF CALIFORN	
SCILAB	24416 SOUTH MAIN STREET	
	TEL: (310) 834-4868 • FAX: (31	N, CA 90745 10) 834-4772
	PLM Bulk Asbestos Report	
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Sulte 201 Rancho Palos Verdes,	Date Examined 12/04/2003 P.O. # 03 Page 6 RE: 03-492; SMCC; 3171 Bundy, SM/2-S	-492 of 14
Client No. / HGA 2331 Locati	Lab No.Asbestos Present903121077-14.2Noon: Plaster, E. Wall Rm. 201, E. Central Ofcs, 2nd Fir	Total % Asbeston NAD
Asbestos Typ	on: White, Høterogeneous, Skim Coat es: ial: Non-fibrous 100. %	
Descripti Asbestos Typ	903121077-15 No on: Joint Comp, Support Column Adj. Area 206, 2nd Flr N. Area on: White, Heterogeneous, Joint Compound es: lal: Non-fibrous 100. %	NAD
Descriptio Asbestos Typ	903121077-16.1 No on: Plaster, N. Wall Rm. 213, NE Offices, 2nd Flr on: Beige, Heterogeneous, Cementitious, Plaster es: ial: Non-fibrous 100. %	NAD
Descriptio Asbestos Typ	903121077-16.2 Yes on: Plaster, N. Wall Rm. 213, NE Offices, 2nd Flr on: White, Heterogeneous, Skim Coat es: Chrysotile 3. %	3 %
2334	903121077-17 No 903121077-17 No on: Baseboard Mastic, Corner Wall Near Rm. 226, 2nd Fir Central Are	NAD

E O I L A D			LABORATORIES LIFORNIA, INC.
SCILAB		24416 SOUTH M	IAIN STREET • SUITE 308
	· ·	TEL: (310) 834-4	CARSON, CA 90745 868 • FAX: (310) 834-4772
	PLM Bulk Asb	estos Repor	t
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes,	Date Examin RE: 03-492;	ed 12/04/2003 F	SciLab Job No. 90312107 P.O. # 03-492 Page 7 of 14 dy, SM/2-Story, 2nd Floor
Client No. / HGA	Lab No.	Asbestos Pres	ent Total % Asbes
2335	903121077-18L1	No 🗸	NAD
Locati	on: Flooring & Blk Mastic Under C	arpet, Rm. 239 SW Off	fices, 2nd Fir, SW Area
Asbestos Typ	on: Yellow, Heterogeneous, Masti es: ial: Non-fibrous 100. %		
2335	903121077-18L2	No \checkmark	NAD
	903121077-18L2 on: Flooring & Bik Mastic Under Ca		• • •
Locati Descripti Asbestos Typ	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ti	arpet, Rm. 239 SW Off	• • •
Locati Descripti Asbestos Typ Other Mater	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. %	arpet, Rm. 239 SW Off	ices, 2nd Flr, SW Area
Locati Descripti Asbestos Typ Other Mater 2335	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. % 903121077-18L3	arpet, Rm. 239 SW Off le Yes V	fices, 2nd Flr, SW Area 4 %
Locati Descripti Asbestos Typ Other Mater 2335 Locati Descripti Asbestos Typ	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. %	arpet, Rm. 239 SW Off le Yes V	fices, 2nd Flr, SW Area 4 %
Locati Descripti Asbestos Typ Other Mater 2335 Locati Descripti Asbestos Typ Other Mater	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. % 903121077-18L3 on: Flooring & Bik Mastic Under Ca on: Black, Heterogeneous, Mastic es: Chrysotile 4. % ial: Non-fibrous 96. %	arpet, Rm. 239 SW Off le Yes V arpet, Rm. 239 SW Off	ices, 2nd Flr, SW Area 4 % ices, 2nd Flr, SW Area
Locati Descripti Asbestos Typ Other Mater 2335 Locati Descripti Asbestos Typ Other Mater 2336	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. % 903121077-18L3 on: Flooring & Bik Mastic Under Ca on: Black, Heterogeneous, Mastic es: Chrysotile 4. %	arpet, Rm. 239 SW Off le Yes V arpet, Rm. 239 SW Off <i>No</i> V	fices, 2nd Flr, SW Area 4 %
Locati Descripti Asbestos Typ Other Mater 2335 Locati Asbestos Typ Other Mater 2336 Locati Descripti Asbestos Typ	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. % 903121077-18L3 on: Flooring & Bik Mastic Under Ca on: Black, Heterogeneous, Mastic es: Chrysotile 4. % ial: Non-fibrous 96. % 903121077-19L1 on: Wht FT, Rm. 238 West (S) Ofcon: Yellow, Heterogeneous, Mastic	arpet, Rm. 239 SW Off le Yes arpet, Rm. 239 SW Off No s, 2nd Fir, SW Ofc	ices, 2nd Flr, SW Area 4 % ices, 2nd Flr, SW Area
Locati Descripti Asbestos Typ Other Mater 2335 Locati Asbestos Typ Other Mater 2336 Locati Descripti Asbestos Typ Other Mater	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: ial: Non-fibrous 100. % 903121077-18L3 on: Flooring & Bik Mastic Under Ca on: Black, Heterogeneous, Mastic es: Chrysotile 4. % ial: Non-fibrous 96. % 903121077-19L1 on: Wht FT, Rm. 238 West (S) Ofcon: Yellow, Heterogeneous, Mastic es: ial: Non-fibrous 100. %	arpet, Rm. 239 SW Off le Yes arpet, Rm. 239 SW Off No s, 2nd Fir, SW Ofc	ices, 2nd Flr, SW Area 4 % ices, 2nd Flr, SW Area NAD
Locati Descripti Asbestos Typ Other Mater 2335 Locati Asbestos Typ Other Mater 2336 Locati Descripti Asbestos Typ Other Mater 2336	on: Flooring & Bik Mastic Under Ca on: Grey, Heterogeneous, Floor Ta es: fal: Non-fibrous 100. % 903121077-18L3 on: Flooring & Bik Mastic Under Ca on: Black, Heterogeneous, Mastic es: Chrysotile 4. % fal: Non-fibrous 96. % 903121077-19L1 on: Wht FT, Rm. 238 West (S) Ofcon: Yellow, Heterogeneous, Mastic es:	arpet, Rm. 239 SW Off le Yes V arpet, Rm. 239 SW Off No V s, 2nd Flr, SW Ofc	ices, 2nd Flr, SW Area 4 % ices, 2nd Flr, SW Area NAD

		:	SCIENTIFIC LABORA OF CALIFORM	
S C I	LAB		24416 SOUTH MAIN STREE	T • SUITE 308 ON, CA 90745
	2 2 2 2	PLM Bulk Asbe	stos Report	
Inc. Attn: Dua 430 Silve Suite 20	rironmental M ane Behrens er Spur Road 1 Palos Verdes	Date Examine RE: 03-492; S	d 12/03/2003 SciLab Jo d 12/04/2003 P.O.# 0 Page 8 SMCC; 3171 Bundy, SM/2-	3-492 of 14
Client No 2336		Lab No. 903121077-19L3 ion: Wht FT, Rm. 238 West (S) Ofcs	Asbestos Present Yes ✓ s, 2nd Flr, SW Ofc	Total % Asbest 4 %
	Asbestos Ty	ion: Black, Heterogeneous, Mastic es: Chrysotile 4. % rial: Non-fibrous 96. %		
,2337	Descript	903121077-20 ion: Mastic (3 Layers) BB, Rm. 217 (ion: Brown, Heterogeneous, Bulk Ma es: rial: Fibrous Talc 3. %, Non-fibrou	aterial	NAD ofcs
2338	Locat	903121077-21.1 Ion: Drywall/JC, East Corridor Across	No / s From Rm. 252, 2nd Fir, SE Co	NAD
	Asbestos Ty	ion: White/Brown, Heterogeneous, E bes: rial: Cellulose 10. %, Non-fibrous		
2338	Locat	903121077-21.2 ion: Drywall/JC, East Corridor Acros	No s From Rm. 252, 2nd Fir, SE Co	NAD
	Asbestos Ty	ion: Beige, Heterogeneous, Joint Co pes: rial: Non-fibrous 100. %	mpound	
2339	Locat	903121077-22.1 ion: Plaster, S. Wall Rm. 243, 2nd Fl	No / Ir, S. Ofcs	NAD
		ion: Grey, Heterogeneous, Cementil		

	SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.		
SCILAB	24410 SOUTH MAIN STREET - SUITE SOU		
	CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772		
	PLM Bulk Asbestos Report		
Ellis Environmental I Inc. Attn: Duane Behrens 430 Silver Spur Roa Suite 201 Rancho Palos Verde	Date Examined 12/04/2003 P.O. # 03-492 Page 9 of 14 d RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor		
Client No. / HGA 2339	Lab No.Asbestos PresentTotal % Asbestos903121077-22.2No √NADation: Plaster, S. Wall Rm. 243, 2nd Fir, S. Ofcs		
Descri Asbestos 1	ption: White, Heterogeneous, Skim Coat ypes: terial: Non-fibrous 100. %		
Descri Asbestos 1	903121077-23.1 No NAD ation: Plaster, W. Wall Rm. 242B, 2nd Fir, SW Ofcs ption: Grey, Heterogeneous, Cementitious, Plaster ypes: terial: Non-fibrous 100. %		
Descri Asbestos 1	903121077-23.2 No V NAD ation: Plaster, W. Wall Rm. 242B, 2nd Flr, SW Ofcs ption: White, Heterogeneous, Skim Coat ypes: terlal: Non-fibrous 100. %		
2341 Loc	903121077-24.1 No / NAD ation: Plaster, W. Wall, Rm. 228, 2nd Fir, West Ofcs.		
Asbestos T	ption: Grey, Heterogeneous, Cementitious, Plaster ypes: terial: Non-fibrous 100. %		
Descri Asbestos 1	903121077-24.2 Yes 3 % ation: Plaster, W. Wali, Rm. 228, 2nd Fir, West Ofcs. ption: White, Heterogeneous, Skim Coat Types: Chrysotile 3. % tterial: Non-fibrous 97. %		

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SCI	LAB				MAIN STREET	
	f				CARSO	N, CA 907 4 5
A CONTRACTOR OF THE OWNER OF THE				TEL: (310) 834	I-4868 • FAX: (31	0) 834-4772
	• •	PLM	Bulk Asbes	tos Repo	ort	
Inc. Attn: Dua 430 Silve	ronmental Ma ine Behrens r Spur Road	inagement,	Date Received Date Examined RE: 03-492; SM	12/04/2003	P.O. # 03- Page 10	of 14
Suite 201 Rancho F	Palos Verdes,	CA 90275				
Client No		Lab	No	Asbestos Pre	sent	Total % Asbest
	5. 5.	1		No (/	NAD
2342	Locati		21077-25.1 Nail, Rm. 254, 2nd Flr,	-	r	
	Descripti Asbestos Typ	on: Grey, Heter	ogeneous, Cementitio			
2342	Locati		21077-25.2 Wall, Rm. 254, 2nd Fir	Yes , E. Ofcs.	\checkmark	2 %
	Asbestos Typ	on: White, Hete es: Chrysotile : ial: Non-fibrous		t	<u></u>	
		90312	21077-26	No. 🕔	/	NAD
2343				Adi Pm 227.2h	d Fir. NW Area	
2343	Locati	on: JC, S. Wall	Open Area Near 224,			
2343	÷.					
2343	Descripti	on: Off-White, I	Open Area Near 224, Heterogeneous, Joint (
2343	Descripti Asbestos Typ	on: Off-White, I	Heterogeneous, Joint (
	Descripti Asbestos Typ	on: Off-White, I les: tial: Non-fibrous	Heterogeneous, Joint (NAD
2343 2344	Descripti Asbestos Typ Other Mater	on: Off-White, I es: ial: Non-fibrous 90312	Heterogeneous, Joint (3 100. %	Compound No t		NAD
	Descripti Asbestos Typ Other Mater Locati	on: Off-White, I tes: tial: Non-fibrous 90312 on: JC, Int. Rm.	Heterogeneous, Joint (100. % 21077-27	Compound No to Difes, 2nd Fir.		NAD
	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ	on: Off-White, I res: 90312 on: JC, Int. Rm. on: Off-White, I res:	Heterogeneous, Joint (100. % 21077-27 . 212, West Wall, NE (Heterogeneous, Joint (Compound No to Difes, 2nd Fir.		NAD
	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ	on: Off-White, I res: 90312 on: JC, Int. Rm. on: Off-White, I	Heterogeneous, Joint (100. % 21077-27 . 212, West Wall, NE (Heterogeneous, Joint (Compound No Difes, 2nd Fir. Compound		
	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater	on: Off-White, I es: 90312 on: JC, Int. Rm. on: Off-White, I es: fial: Non-fibrous 90312	Heterogeneous, Joint (100. % 21077-27 212, West Wall, NE (Heterogeneous, Joint (100. % 21077-28	Compound No C Difes, 2nd Fir. Compound No . v		NAD
2344	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater	on: Off-White, I es: 90312 on: JC, Int. Rm. on: Off-White, I es: fial: Non-fibrous 90312	Heterogeneous, Joint (100. % 21077-27 . 212, West Wall, NE (Heterogeneous, Joint (5 100. %	Compound No C Difes, 2nd Fir. Compound No . v		
2344	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater Locati	on: Off-White, I es: 90312 on: JC, Int. Rm. on: Off-White, I es: rial: Non-fibrous 90312 on: JC, Int. Rm	Heterogeneous, Joint (100. % 21077-27 . 212, West Wall, NE (Heterogeneous, Joint (100. % 21077-28 . 217, S. Wall, NW Of	Compound No a Dics, 2nd Fir. Compound No . v cs., 2nd Fir.		
2344	Descripti Asbestos Typ Other Mater Locati Descripti Asbestos Typ Other Mater Locati	on: Off-White, I es: 90312 on: JC, Int. Rm. on: Off-White, I es: rial: Non-fibrous 90312 on: JC, Int. Rm on: Off-White, I	Heterogeneous, Joint (100. % 21077-27 212, West Wall, NE (Heterogeneous, Joint (100. % 21077-28	Compound No a Dics, 2nd Fir. Compound No . v cs., 2nd Fir.		

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- AND CONTRACT,	SCIENTIFIC LABORA OF CALIFORN	
SCILAB	24416 SOUTH MAIN STREET	-
A CONTRACT OF A	CARSC TEL: (310) 834-4868 • FAX: (3	N, CA 90745 10) 834-4772
	PLM Bulk Asbestos Report	
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes.	Date Examined 12/04/2003 P.O. # 03 Page 11 RE: 03-492; SMCC; 3171 Bundy, SM/2-S	-492 of 14
Client No. / HGA	Lab No. Asbestos Present	Total % Asbestos
2346	903121077-29 No	NAD
Locati	on: JC, Int. Rm. 243, S. Ofcs., 2nd Fir.	
Asbestos Typ	on: Off-White, Heterogeneous, Joint Compound es: lai: Non-fibrous 100. %	
2347 Locati	903121077-30 No \checkmark on: 2'x2' CT, Int. Rm. 242B, 2nd Fir., SW Ofcs.	NAD
Asbestos Typ	on; Beige/White, Heterogeneous, Ceiling Tile es: ial: Cellulose 45. %, Fibrous glass 10. %, Non-fibrous 45. %	
2348	903121077-31 No 🗸	NAD
•	on: 2'x4' CT, N. Open Area (220), N. Area, 2nd Flr.	
Asbestos Typ	on: Beige/White, Heterogeneous, Ceiling Tile es: fal: Cellulose 45. %, Fibrous glass 10. %, Non-fibrous 45. %	
	/	NAD
2349 · Locati	903121077-32L1 No / on: 12" CT & Mastic, W. Corridor, Adj. to Rm. 228, 2nd Fir., S. Half	NAD
Descripti Asbestos Typ	on: Beige/White, Heterogeneous, Ceiling Tile	
2349 Locati	903121077-32L2 No on: 12" CT & Mastic, W. Corridor, Adj. to Rm. 228, 2nd Flr., S. Half	NAD
Asbestos Typ	on: Brown, Heterogeneous, Mastic es: ial: Non-fibrous 100. %	

	SCIENTIFIC LABORATOR OF CALIFORNIA,	
SCILAB	24416 SOUTH MAIN STREET - SUIT	
A CONTRACTOR OF THE OWNER	CARSON, CA TEL: -(310) 834-4868 • FAX: (310) 83	
:		
: * *	PLM Bulk Asbestos Report	
Ellis Environmental M Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verde	Date Examined 12/04/2003 P.O. # 03-492 Page 12 of RE: 03-492; SMCC; 3171 Bundy, SM/2-Story,	14
Client No. / HGA		al % Asbestos
2350	903121077-33L1 No /	NAD
Loca	ation: 12" CT & Mastic, W. Corridor, Adj. to Rm. 236, 2nd Elr., S. Half	
Asbestos T	otion: Brown/White, Homogeneous, Ceiling Tile ypes: teriat: Cellulose 99. %, Non-fibrous 1. %	
Descri Asbestos T	903121077-33L2 No / ation: 12" CT & Mastic, W. Corridor, Adj. to Rm. 236, 2nd Fir., S. Half otion: Brown, Heterogeneous, Mastic ypes: terial: Non-fibrous 100. %	NAD
2351	903121077-34 No 🗸	NAD
Loca	ation: Tape, Rm. 229 Above Cell., 2nd Flr, W. Central Area Above Ceiling	
Asbestos T	otion: Off-White, Heterogeneous, Bulk Material ypes: terial: Cellulose 99. %, Non-fibrous 1. %	
2352	903121077-35 Yes v ation: Sprayed-On Ceiling, Rm. 243 Center, S. Office	20 %
Asbestos T	otion: Beige/Brown, Heterogeneous, Bulk Material ypes: Chrysotile 20. % ierial: Non-fibrous 80. %	
2353 Loc	903121077-36 Yes / ation: Spray On Ceil., Rm. 243 Near Door, S. Office	20 %
Asbestos T	otion: Beige/Brown, Heterogeneous, Bulk Material ypes: Chrysotile 20. % terial: Non-fibrous 80. %	an second and the se

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80	ILAB			LABORATO) ALIFORNIA,	
90			24416 SOUTH	MAIN STREET . SUI	
			TEL: (310) 834	CARSON, CA 4868 • FAX: (310) 83	
		PLM Bulk	Asbestos Repo	ort	
Ellis Env Inc.	vironmental Ma	•	eceived 12/03/2003 xamined 12/04/2003		
	iane Behrens			Page 13 of	
Suite 20	· · ·		-492; SMCC; 3171 Bu	ndy, SM/2-Story,	2nd Floor
	Palos Verdes, o. / HGA	•			
2354	0. / NGA	Lab No.	Asbestos Pre Yes √	sent Tota	Il % Asbesto
2004	Locatio	903121077-37 on: Spray On Ceil., Rm, 25	2 By Window, @nd Fir, E. O	fes Adi to Lobby	20 %
2355		903121077-38	Yes		20 %
	Descriptio Asbestos Type	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20, %	2 By Door, 2nd Fir. E. Ofcs.,		20 %
2356	Descriptio Asbestos Type Other Materi	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20. % al: Non-fibrous 80. % 903121077-39	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes	Adj. to Lobby	20 % 20 %
	Descriptio Asbestos Type Other Materia Locatio Descriptio Asbestos Type	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20. % al: Non-fibrous 80. % 903121077-39	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes 4 By Window, 2nd Fir., E. Of	Adj. to Lobby	
	Descriptio Asbestos Type Other Materia Locatio Descriptio Asbestos Type Other Materia	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20, % al: Non-fibrous 80, % 903121077-39 n: Spray On Ceil., Rm. 254 n: Beige/Brown, Heteroge s: Chrysotile 20, % J: Non-fibrous 80, % 903121077-40	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes 4 By Window, 2nd Fir., E. Of neous, Bulk Material Yes ✓	Adj. to Lobby	
2356	Descriptio Asbestos Type Other Materia Location Description Asbestos Type Other Materia Location Description Asbestos Type	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20, % al: Non-fibrous 80, % 903121077-39 n: Spray On Ceil., Rm. 254 n: Beige/Brown, Heteroge s: Chrysotile 20, % J: Non-fibrous 80, % 903121077-40	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes 4 By Window, 2nd Fir., E. Of neous, Bulk Material Yes ✓ by Door, 2nd Fir., E. Ofcs.,	Adj. to Lobby	20 %
2356	Descriptio Asbestos Type Other Materia Location Description Asbestos Type Other Materia Location Description Asbestos Type	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20, % al: Non-fibrous 80, % 903121077-39 n: Spray On Ceil., Rm. 254 n: Beige/Brown, Heteroge s: Chrysotile 20, % 903121077-40 n: Spray on Ceil., Rm. 254 p: Beige/Brown, Heterogen s: Chrysotile 20, %	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes 4 By Window, 2nd Fir., E. Of neous, Bulk Material Yes ✓ by Door, 2nd Fir., E. Ofcs.,	Adj. to Lobby	20 %
2356	Descriptio Asbestos Type Other Materia Location Description Asbestos Type Other Materia Location Description Asbestos Type	n: Spray On Ceil., Rm. 25 n: Beige/Brown, Heteroge s: Chrysotile 20, % al: Non-fibrous 80, % 903121077-39 n: Spray On Ceil., Rm. 254 n: Beige/Brown, Heteroge s: Chrysotile 20, % 903121077-40 n: Spray on Ceil., Rm. 254 p: Beige/Brown, Heterogen s: Chrysotile 20, %	2 By Door, 2nd Fir. E. Ofcs., neous, Bulk Material Yes 4 By Window, 2nd Fir., E. Of neous, Bulk Material Yes ✓ by Door, 2nd Fir., E. Ofcs.,	Adj. to Lobby	20 %

	SCIENTIFIC LABORATORIES
Collan	OF CALIFORNIA, INC.
SCILAB	24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745
	TEL: (310) 834-4868 • FAX: (310) 834-4772
· · · · · · · · · · · · · · · · · · ·	
	PLM Bulk Asbestos Report
Ellis Environmental Ma	
inc.	Date Examined 12/04/2003 P.O. # 03-492
Attn: Duane Behrens	Page 14 of 14
430 Silver Spur Road Suite 201	RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor
Rancho Palos Verdes,	CA 90275
Reporting Notes:	
Analyzed by: Melissa A. E *NAD/NSD = no asbestos	detected: Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000
600/M4-82-020 per 40 CF	alyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA R 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently
reliable in detecting asbea	tos in floor coverings and similar non-friable organically bound materials. TEM is
. non-asbestos-containing	that can be used to determine if this material can be considered or treated as n New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94).
National Institute of Stand	ards and Technology Accreditation requirements mandate that this report must not be without the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By:	
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903121077 9045 stites Sampler: Kathy Cummins sheet_L of 1	Tests Required	Pum -aspestos					VIGUS 15:16	
it, Inc.	Solid	× .			Standard		ogived By	
00 275 CORD	Å Ľ							
Mana, Mana,	H20				6 days		5	
Spur Roal Spur Roal blos Verti 544-218 5544-216 USTOL	Time					•		
Environmental Management, inc. 430 Sliver Spur Road, Suite 201 Randho Palos Vertes, CA 90275 (310) 544-1837 (tal) (310) 544-2167 (fac) (310) 544-2167 (fac) (al) OF CUSTODY RECORD	Date	2012/21			∆3 days		l	
		2010 to 2357 dec attached			Turnaround: same day 2004 hrs.	Data	HD2105 A ANN AMMANA	

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March DAMAGE Proj. No. (33 - 492 Date 22 CNTY. UNT FRIABLE ദ് Sheet ____ and the sweet of the 2nd Ar. nurther 2nd Hr. Offices MATERIAL LOCATION Park meshic under Carpet to Conf. Cur (Rm. 230) and Ar. Central 2nd flv. RRS 2nd flr. offices Project UT Vinoleum (Tan aggreed) Womens Lounge Em240 Rmd Ar. R.Rs. N. Convidor adj. to Mensky 2nd Ar. 2nd Ar 2MHV. 2nd Ar "Ryn 249) 22 E. Conider aline (SE CRNR) Pare masticunar wood fit RIN 22 LO (Folconon Wood) RM 252 (SW CRNR) 1441. Run (em. 249) 1077 Tan lindeum (even will mens RR (Rm 214) SAMPLE LOCATION KIOMER BUE MUSH C WIDDL Carold Rdl. RM 242 lindercarpet ļ 90312 Etec Wa Storage Buelowni Mashic HON FT + Mashic BILLA Environmental Managment, Inc. FIELD SAMPLING INVENTORY MATERIAL P Rancho Palos Verdes, CA 90275 130 Silver Spur Road, Sulte 201 Tan q" FT. 0 N 1/ 1/ BAN F T HIM NAC 444 (310) 544 1837 SAMPLE # 2326 2325 2329 2324 2323 2322 2319 2328 2318 2320 2321 2327

 C007/C0/71

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FIELD SAMPLING INVENTORY		Client: SIMCC	
	903121077	Project: 2171 Pauruly, 2-Strung SM 03-492	UNUN, 2-String
SAMPLE# MATERIA			
2330 PUSTER + #	Annous of Aur A	CNTY.	UNIT FRIABLE DAMAGE
[2331 [Plochu +	T WI W PYNUM REAN UM ZUP N. PENTRA UNER (2M A)	N. Central area (2mth)	
2332 r) nint nnn 0	PURPACE C. AN. SU	K. Lentral Otrs. (2mg. A)	
2333 D/1124 P.	LOIMIII (and 2de)	2010 HOUY N. anea	
(2334 Principulation 12334	KM 213	N.E OFTZ ES (2M An)	
2335 DIMMON A DR. MASHT WAREN	alt near Emite	(2mt Ar) Central area	
[2336]IN LAT TA	I KM 234 5-W OFFICES-	2nd Ar SW and	
	RIM 2392 WESH (5) oftes.	End Ar. SW offer	
		2nd Ar. NW OFCO.	
	East corriduce the 252 2nd Ar. SE conidor	2nd Ar. SE conider	
	S. WULL RM 243	and fir S. ale.	
	0	and Ar Sval Alas	
12341 Plaster		2ma flr. Wost afre	
GUIN Environmental Managment, Inc.			
Add Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275	•••	Date	Date 2200
(310) 644 1837			Inspector Pintais
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FIELDS	FIELD SAMPLING INVENTORY	903121077	Client: SMCC Project: 2171 BUNKY, 2. Strug	2. Story
		·	Proj. No. D	Proj. No. 03-442
SAMPLE #	# MATERIAL	SAMPIE I OCATION		
2342	Plasta	E.Wall RM 254	62 MULDU L ALACTION ONTY, UNIT	IT FRIABLE DAMAGE
[2343	Ic	S. Wall normanes 224 ad Emast 2nd Ar All nor	Remain 2nd Ar MIN Gree	
2344	<u>.</u>	Int. em 20 Wet wey	NE OPS AND AN	
2345	20	Int. RM 217 S.Wall	IN W DRS 200 PM	
2346	20	Int Rm 243	G. NPC, Jul Dir	
2347	2x2'CT	Int RM 222B	SIM Phy Sim Der	
2348	224 CT	ODEN area (220)	Navia 2nd Plv.	
[2349	12" CT + Mashc	W.CONNACKAN. In Empore 244 Dr. S. half	ZNADU S. huft	
2350	12" CT + mashe	W. Consider, adi to pinza	2nd Ar S. half	
2351	Tape	RM229 above ceil.	Tape RM 229 above ceil. Purt Ar W. North milling	
(2352	Sprayed-on reiling	Sm 243 Centr.	5.0代/4,	
(2353	Spray on ceil	11 C I	9.0ff27	
ISING: E 430 Silver (ISILIA: Environmental Managment, Inc. 430 Silver Spur Road, Sulte 201			- 6101 a
Rancho Pa	Rancho Palos Verdes, CA 90275		edaul	Inspector Initials
(310) 544 1837	837	f (1944-11) 1940 - 1940 1940 - 1940 - 1940 1940 - 1940	Shee	Sheet 2 of

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FIELD SAMPLING INVENTORY	
	903121077 Project \$171 BUNUL, 2 2hory
	Proj. No. 03-492
SAMPLE# MATERIAL	SAMPLE LOCATION MATERIAL LOCATION
2354 Spran ceil.	dow 2m
2355 Forenjon (ei).	RM 252 Haldrov Rud Ar, E, OCS. (4) H
	2nd Ar Eafs
(235/ Sorm on leil	And Ar. E. of
5	
EXAMP Environmental Managment, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA, 90275	Date 12/2/03
(310) 544 1837	Interplation Initials
•	Street ff of

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SCILA	R	SCIENTIFIC LABO OF CALIFO	DRATORIES DRNIA, INC.
		24416 SOUTH MAIN ST	
		TEL: (310) 834-4868 • F.	ARSON, CA 90745 AX: (310) 834-4772
	PLM Bulk As	bestos Report	
Ellis Environmenta	Date Exar	eived 12/03/2003 SciLat nined 12/04/2003 P.O. #	Job No. 903121078 03-492
Attn: Duane Behre 430 Silver Spur Re Suite 201	f	Page 2; SMCC; 3171 Bundy, SN	1 of 13 1/2-Story Bldg., 1st Fir.
Rancho Palos Ver	des, CA 90275		
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbesto
2358 L	903121078-01 ocation: Plaster, Rm. 155, E. Wall,	ن Yes 1st Fir., SE Perim. Walls	< 1.%
Asbesto	cription: White/Light Grey, Homogel 3 Types: Chrysotile Trace Material: Non-fibrous 100. %	neous, Cementitious, Bulk Materia	a !
2359	903121078-02 cation: Plaster, E. Corridor Adj. to	Yes	<1.%
Asbestos	erlption: White, Homogeneous, Cen Types: Chrysotile Trace faterial: Non-fibrous 100. %	nentitious, Bulk Material	
2360	903121078-03	Yes	< 1.%
Lo	ocation: Plaster, NE Conf. Rm. 111	(NE Crnr), 1st Flr., NE Perim. Wa	
Asbestos	ription: White/Light Grey, Homogen Types: Chrysotile Trace laterial: Non-fibrous 100. %	neous, Cementitious, Bulk Materia	
2361	903121078-04	Yes	< 1.%
2001	cation: Plaster, NW Ofc. Rm. 115, 1	1st Fir., NE Perim. Walls	
•			
Lo Desc Asbestos	ription: White/Light Grey, Homogen Types: Chrysotile Trace aterial: Non-fibrous 100. %	eous, Cementitious, Bulk Materia	J .
Lo Desc Asbestos Other M 2362	Types: Chrysotile Trace	Yes /	<1.%

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		C LABORATORIES CALIFORNIA, INC.
SCILAB	24416 SOUT	H MAIN STREET . SUITE 308
	TEL: (310) 8	CARSON, CA 90745 34-4868 • FAX: (310) 834-4772
· · ·	PLM Bulk Asbestos Rep	ort
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes,	Date Examined 12/04/2003 RE: 03-492; SMCC; 3171 B	SciLab Job No. 903121078 P.O. # 03-492 Page 2 of 13 undy, SM/2-Story Bldg., 1st Flr.
Client No. / HGA	Lab No. Asbestos Pr	resent Total % Asbestos
2363	903121078-06 Yes on: Plaster, SW Ofc., Rm. 146, 1st Fir., SW Perim. W	√ < 1.% Valis
Asbestos Typ	on: White/Light Grey, Homogeneous, Cementitious, E es: Chrysotile Trace al: Non-fibrous 100. %	Bulk Material
Descripti Asbestos Typ	903121078-07 Yes on: Plaster, At S. Exit, 1st Fir., S. Perim. Wall on: White/Light Grey, Homogeneous, Cementitious, E es: Chrysotile Trace ial: Non-fibrous 100. %	< 1.%
2365	903121078-08 No n: Joint Comp., E. Corridor at Rm. 127, 1st Flr., SE C	NAD Dics.
Asbestos Typ	on: Beige/White, Heterogeneous, Bulk Material es: ial: Cellulose 3. %, Non-fibrous 97. %	
2366	903121078-09 Yes , n: Joint Comp., E. Corridor Btwn. Rm. 160 & Vault, 1	Z /0
Aspestos Typ	n: Beige, Homogeneous, Bulk Material es: Chrysotile 2. % al: Non-fibrous 98. %	
2367 Locatio	903121078-10 No n: Joint Comp., E. Corridor at Lobby, 1st Fir., East O	NAD fcs.
Asbestos Typ	n: Beige, Homogeneous, Bulk Material es: al: Cellulose 2. %, Non-fibrous 98. %	

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15,60,5000 10,11		
	SCIENTI	FIC LABORATORIES
SCILA		CALIFORNIA, INC.
and the second sec	24416 SO	UTH MAIN STREET . SUITE 308
	TEL: (310)	CARSON, CA 90745 834-4868 • FAX: (310) 834-4772
	PLM Bulk Asbestos Rep	oort
Ellis Enviroriment		3 SciLab Job No. 903121078
Attn: Duane Behr		
430 Silver Spur R Suite 201	RE: 03-492; SMCC; 3171	Page 3 of 13 Bundy, SM/2-Story Bldg., 1st Fir.
Rancho Palós Ver	dəs. CA 90275	
Client No. / HGA	Lab No. Asbestos F	Present Total % Asbesto
2368 · L	903121078-11 No ocation: Joint Comp., E. Corridor at Rm, 110, 1st Fir., N.	NAD East Ofes
Desi Asbesto	ription: Beige/White, Homogeneous, Bulk Matorial	
	With Horizon Z. 70, Multi-Horous 98. %	
2369 Lo Deso Asbestos	903121078-12 No ocation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types:	NAD 1st Fir., N. West Ofcs.
2369 Lo Deso Asbestos	903121078-12 No ocation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. %	1st Fir., N. West Ofcs.
2369 Lo Desc Asbestos Other M 2370	903121078-12 No ocation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types:	1st Fir., N. West Ofcs.
2369 Lo Asbestos Other M 2370 Lo Descr Asbestos	903121078-12 No ocation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., of iption: Beige, Homogeneous, Bulk Material Types:	1st Fir., N. West Ofcs.
2369 Lo Asbestos Other M 2370 Lo Descr Asbestos Other M 2371	903121078-12 No ocation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., (iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No sterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No	1st Fir., N. West Ofcs.
2369 Lo Asbestos Other M 2370 Lo Descr Asbestos Other Ma 2371 Loc Descri Asbestos	903121078-12 No potation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., 0 iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No sterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No sterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No sterial: Joint Comp., Rm. 145, 1st Flr., SW Ofcs. ption: Beige, Homogeneous, Bulk Material rypes:	NAD Central Ofcs., 1st Fir.
2369 Lo Asbestos Other M 2370 Lo Descr Asbestos Other Ma 2371 Loc Asbestos T Other Ma	903121078-12 No potation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., 0 iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No sation: Joint Comp., Rm. 145, 1st Flr., SW Ofcs. ption: Beige, Homogeneous, Bulk Material	NAD Central Ofcs., 1st Fir.
2369 Lo Asbestos Other M 2370 Lo Descr Asbestos Other Ma 2371 Loc Descri Asbestos T Other Ma	903121078-12 No pcation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., 0 iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No saterial: Cellulose 2. %, Non-fibrous 98. % 903121078-15 No	NAD Central Ofcs., 1st Fir.
2369 Lo Asbestos Other M 2370 Lo 2370 Lo 2371 Loc 2372 Loc	903121078-12 No pcation: Joint Comp., W. Corridor Btwn Rm. 115A & 116, ription: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-13 No cation: Joint Comp., Open Area Btwn Lobby & Tel. Rm., 0 iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No iption: Beige, Homogeneous, Bulk Material Types: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-14 No sation: Joint Comp., Rm. 145, 1st Flr., SW Ofcs. ption: Beige, Homogeneous, Bulk Material ypes: aterial: Cellulose 2. %, Non-fibrous 98. % 903121078-15 No uterial: Cellulose 2. %, Non-fibrous 98. % 903121078-15 No attion: Lt. Wt. Cement, Vault Door, 1st Flr., Vault Door ption: Light Grey, Homogeneous, Cementitious, Bulk Material	NAD NAD NAD NAD NAD NAD

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				SCIENTIFIC LAB	ORATORIES
Scí		:		OF CALIF	ORNIA, INC.
301				24416 SOUTH MAIN S	
				TEL: (310) 834-4868 • I	CARSON, CA 90745 FAX: (310) 834-4772
			•		
		PLM	Bulk Asb	estos Report	
Ellis Enviro	nmental M	lanagement,	Date Receiv	/ed 12/03/2003 SciLa	b Job No. 903121078
Inc.			Date Exami	ned 12/04/2003 P.O. #	03-492
Attn: Duan 430 Silver				Page	
Suite 201	Spui noau		RE: 03-492;	SMCC; 3171 Bundy, S	M/2-Story Bldg., 1st Flr
Rancho Pa	los Verdes	, CA 90275			
Client No.	HGA	Lab	No.	Asbestos Present	Total % Asbesto
2373	Loos		21078-16	Yes	7%
		LIDIT: DIACK MAST	ic, men's RR Undi	er Fl. Comp. on Concr., 1st Fir.	., South Men's RR
			ogeneous, Bulk N	laterial	
		pes: Chrysotile			
			5 93. 70		
2374		4	21078-17	No	NAD
	:	1		RR (Men & Women)	
	Descript	on: White, Hom	ogeneous, Bulk N	laterial ?Floud Comp. W	iden floor tile
A	ispesios iy	es: rial: Non-fibrous			
•		iat. Non-hotous			······································
2375	÷	90312	21078-18L1	Yes 🗸	3 %
	Locat	on: Tan 9" FT &	Mastic, Under St	air Storage (South Stair), 1st F	Ir., South
	Descript	ion: Tan. Homo	jeneous, Floor Til	a	
A	sbestos Typ	es: Chrysotile	3. %	-	
an a	Other Mate	rlal: Non-fibrous	97. %		
2375		90312	1078-18L2	No	NAD
	Locat			air Storage (South Stair), 1st F	
		•			
A	Descripti sbestos Typ		erogeneous, Masti	C	
		ial: Non-fibrous	100. %		
2376	:	00010		No \sim	RIA D
20/0	Locati		1078-19L1 T & Mastic Wome	en's RR (South), 1st Fir., Sout	NAD
				·	,
	Description		ogeneous, Floor	Гію	
-	sbestos Typ				

0				SCIENTIFIC OF C		RATORIES RNIA, INC.
SC	ΙΔΒ			24416 SOUT	HMAIN STRE	EET + SUITE 308 RSON, CA 90745 (; (310) 834-4772
	: - -	PLM	Bulk Asbe	stos Repo	ort	
Inc. Attn: Du 430 Silv Suite 20	vironmental M ane Behrens er Spur Road 1 Palos Verdes	•	Date Examine	d 12/04/2003	P.O. # Page	Job No. 9031210 03-492 5 of 13 2-Story Bldg., 1 s t
Client N	o./HGA	Lab	No.	Asbestos Pre	eșent	Total % Asbe
2376	÷ .	1	1078-19L2 F & Mastic, Women	No V		NAD
2376	Descrip Asbestos Ty	tion: Wht & Brn Fi tion: Brown, Heter pes:	1078-19L3 & Mastic, Women rogeneous, Floor Til 100. %	•	Fir., South V	NAD W. RR
2376 2376	Descrip Asbestos Ty Other Mate	tion: Wht & Brn Fi tion: Brown, Heter pes: rial: Non-fibrous 903121	& Mastic, Women ogeneous, Floor Til	s RR (South), 1st e No /	/	W. RR NAD
	Descrip Asbestos Ty Other Mate Loca Descrip Asbestos Ty	tion: Wht & Brn Fi tion: Brown, Heter pes: rial: Non-fibrous 903121 tion: Wht & Brn Fi tion: Yellow, Heter	⁷ & Mastic, Women ⁴ rogeneous, Floor Til 100. % 078-19L4 ⁸ Mastic, Women ⁴ ogeneous, Mastic	s RR (South), 1st e No /	/	W. RR NAD
	Descrip Asbestos Ty Other Mate Locat Descrip Asbestos Ty Other Mate	tion: Wht & Brn Fi tion: Brown, Heter pes: rial: Non-fibrous 903121 tion: Wht & Brn Fi tion: Yellow, Heter pes: rial: Non-fibrous 903121	⁷ & Mastic, Women ⁴ rogeneous, Floor Til 100. % 078-19L4 ⁸ Mastic, Women ⁴ ogeneous, Mastic	s RR (South), 1st e No / s RR (South), 1st Yes /	Flr., South V	W. RR NAD
2376	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty	tion: Wht & Brn Fi tion: Brown, Heter pes: rial: Non-fibrous 903121 tion: Wht & Brn Fi tion: Yellow, Heter pes: rial: Non-fibrous 903121	A Mastic, Women ogeneous, Floor Til 100. % 078-19L4 & Mastic, Women ogeneous, Mastic 100. % 078-20L1 Mastic, Util. Rm. (Sc eneous, Floor Tile %	s RR (South), 1st e No / s RR (South), 1st Yes /	Flr., South V	W. RR NAD W. RR
2376	Descrip Asbestos Ty Other Mate Loca Descrip Asbestos Ty Other Mate Loca Descrip Asbestos Ty Other Mate	tion: Wht & Brn Fi tion: Brown, Heter pes: rial: Non-fibrous 903121 tion: Wht & Brn Fi tion: Yellow, Heter pes: rial: Non-fibrous 903121 tion: Tan, Heterog pes: Chrysotile 3. rial: Non-fibrous	A Mastic, Women ogeneous, Floor Til 100. % 078-19L4 & Mastic, Women ogeneous, Mastic 100. % 078-20L1 Mastic, Util. Rm. (Sc eneous, Floor Tile %	s RR (South), 1st e No / s RR (South), 1st Yes outh), 1st Floor Sou	Flr., South V	W. RR NAD W. RR

	SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.
SCILA	B 24416 SOUTH MAIN STREET • SUITE 308
	CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772
	PLM Bulk Asbestos Report
Ellis Environment Inc. Attn: Duane Behr 430 Silver Spur R Suite 201 Rancho Palos Vei	Date Examined 12/04/2003 P.O. # 03-492 Page 6 of 13 Re: 03-492; SMCC; 3171 Bundy, SM/2-Story Bidg., 1st Fir
Client No. / HGA	Lab No. Asbestos Present Total % Asbesto
2378	903121078-21L1 No NAD Location: Gray FT & Mastic, Rm. 160 (SE Bidg.), 1st Fir., Rm. 160
Asbesto	scription: Grey, Heterogeneous, Floor Tile os Types: Material: Non-fibrous 100. %
2378 : L	903121078-21L2 Yes < 1.% .ocation: Gray FT & Mastic, Rm. 160 (SE Bidg.), 1st Fir., Rm. 160
Asbesto	cription: Yellow/Black, Heterogeneous, Mastic s Types: Chrysotile Trace Material: Non-fibrous 100. %
2379	903121078-22 No NAD 1
. –	
Asbesto	
Asbesto Other I 2380	s Types: Material: Non-fibrous 100. % 903121078-23L1 Yes 4 %
Asbesto Other I 2380 Lo Desc Asbestos	s Types: Material: Non-fibrous 100. %
Asbesto Other I 2380 Lo Desc Asbestos Other M 2380	s Types: Material: Non-fibrous 100. % 903121078-23L1 Yes 4 % ocation: Tan 9" FT, N. Util. Closet, 1st Floor N. Util. cription: Tan, Heterogeneous, Floor Tile s Types: Chrysotile 4. %

0.0		SCIENTIFIC LABO OF CALIFOR	
20	ILAB	24416 SOUTH MAIN STR	-
No.		CA	RSON, CA 90745
		TEL: (310) 834-4868 • FAX	(: (310) 834-4772
	÷.	PLM Bulk Asbestos Report	
Ellis Er	nvironmental M	anagement, Date Received 12/03/2003 SciLab	lob No. 903121078
inc.		Date Examined 12/04/2003 P.O. #	03-492
-	uane Behrens	Pade	7 of 13
Suite 2	ver Spur Road 01	RE: 03-492; SMCC; 3171 Bundy, SM/2	2-Story Bldg., 1st Fir.
	Palos Verdes	CA 90275	
Client N	lo./HGA	Lab No. Asbestos Present	Total % Asbesto
2381		903121078-24 No <	NAD
	; Loca	tion: Bm 12" FT, N. Lobby, 1st Floor	
	Descrip	ion: Brown, Heterogeneous, Floor Tile	
	Asbestos Ty	pes:	
	Other Mate	rial: Non-fibrous 100. %	
2382		903121078-25L1 No 🗸	NAD
	Locat	on: Wht 12" FT, Men's RR (North), RR's 1st Floor	
	Descript	ion: Off-White, Heterogeneous, Floor Tile	
	Asbestos Ty	pes:	
	Other Mate	rial: Non-fibrous 100. %	
2382	:	903121078-25L2 No 🗸	NAD
	Locat	on: Wht 12" FT, Men's RR (North), RR's 1st Floor	NAD
	Descripti	on: Orango Heteronomi Marit	
	Asbestos Typ	on: Orange, Heterogeneous, Mastic es:	
		ial: Non-fibrous 100. %	
2383		903121078-26 No	
	Locati	on: Baseboard Mastic, Room 155, SE Office, 1st Flr., SE	NAD
	1		
	Descripti Asbestos Typ	on: Brown, Heterogeneous, Bulk Material	
		Ial: Fibrous Talc 2. %, Non-fibrous 98. %	
2384			
	Locatio	903121078-27 No on: Baseboard Mastic, Rm. 146, SW Office, 1st Fir., SW	NAD
	Description Asbestos Typ	on: Beige/Brown, Heterogeneous, Bulk Material	
		al: Non-fibrous 100. %	

And the second sec		SCIENTIFIC LABO OF CALIFO	
SCILAB	а. 	24416 SOUTH MAIN STR	,
			RSON, CA 90745
	PLM Bulk Asbe	estos Report	
Ellis Environmental I Inc. Attn: Duane Behrens 430 Silver Spur Roa Suite 201 Rancho Palos Verde	Date Examin d RE: 03-492;	ed 12/04/2003 P.O. #	03-492 8 of 13
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbesto
2385	903121078-28 ation: Basebd. Mastic, Utility Room, 1	No 🗸	NAD
Descri Asbestos T	903121078-29L1 ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes: terial: Non-fibrous 100. %		NAD Ir., NE Comer
Loc Descri Asbestos T Other Ma 2386	ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes:	's RR E. Corridor (North), 1st F ard No	Ir., NE Comer NAD
Loc Descrij Asbestos T Other Ma 2386 Loca Descrij Asbestos T	ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes: terial: Non-fibrous 100. % 903121078-29L2 ation: Basebd & Mastic, Outside Men ption: Beige/Brown, Heterogeneous,	i's RR E. Corridor (North), 1st F ard No 's RR E. Corridor (North), 1st F Mastic	Ir., NE Comer NAD
Loc Descri Asbestos T Other Mar 2386 Loca Descri Asbestos T Other Mar 2387	ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes: terial: Non-fibrous 100. % 903121078-29L2 ation: Basebd & Mastic, Outside Men ption: Beige/Brown, Heterogeneous, ypes:	No / No / Ps RR E. Corridor (North), 1st F Mastic us 98. % No /	Ir., NE Comer NAD Ir., NE Comer NAD
Loc Descrip Asbestos T Other Mar 2386 Loca Descrip Asbestos T Other Mar 2387 Loca Descrip Asbestos T	ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes: terial: Non-fibrous 100. % 903121078-29L2 ation: Basebd & Mastic, Outside Men ption: Beige/Brown, Heterogeneous, ypes: terial: Fibrous Taic 2. %, Non-fibro 903121078-30 ation: Basebd. Mastic, Outside Rm. 1 ption: Yetlow/Brown, Heterogeneous,	No No No S RR E. Corridor (North), 1st F Mastic us 98. % No 154 W. Corridor (North), 1st Flu Bulk Material	Ir., NE Comer NAD Ir., NE Comer NAD
Loc Descrip Asbestos T Other Mar 2386 Loca Descrip Asbestos T Other Mar 2387 Loca Descrip Asbestos T Other Mar	ation: Basebd & Mastic, Outside Men ption: Grey, Heterogeneous, Basebo ypes: terial: Non-fibrous 100. % 903121078-29L2 ation: Basebd & Mastic, Outside Men otion: Beige/Brown, Heterogeneous, ypes: terial: Fibrous Taic 2. %, Non-fibro 903121078-30 ation: Basebd. Mastic, Outside Rm. 1 otion: Yetlow/Brown, Heterogeneous, ypes:	No / No / S RR E. Corridor (North), 1st F No / Mastic us 98. % No / 154 W. Corridor (North), 1st Flu Bulk Material us 98. % No /	Ir., NE Comer NAD Ir., NE Comer NAD

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	24416 SOUTH MAIN STREET • SUITE 308
	CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772
	PLM Bulk Asbestos Report
Ellis Environmental M Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes	Date Examined 12/04/2003 P.O. # 03-492 Page 9 of 13 RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bidg., 1st Fir.
Client No. / HGA	Lab No. Asbestos Present Total % Asbestos
2389	903121078-32 Yes <1.%
Locat	on: Black Mastic Under Carpet, Rm. 136, West Ofcs South, 1st Flr., SW
Asbestos Typ	on: Black/Yellow, Heterogeneous, Bulk Material es: Chrysotile Trace ial: Non-fibrous 100. %
2390 Locati	903121078-33 Yes 5 % on: Black Mastic Under Carpet, 3 Layers Blk/Brn/Tan, Rm. 120 Conf., 1st Fir., West
Asbestos Typ	on: Yellow/Black, Heterogeneous, Bulk Material es: Chrysotile 5. % lai: Non-fibrous 95. %
2391	903121078-34 Yes / 2%
Locati	on: Black Mastic Under Carpet, Rm. 159, SE Ofcs., 1st Fir., SE Ofcs.
Aspestos Type	on: Black/Yellow, Heterogeneous, Bulk Material es: Chrysotile 2. % al: Non-fibrous 98. %
2392	903121078-35 Yes 3%
Locatio	n: Black Mastic Under Carpet, 3 Layers Grn/Tan/Blk, Rm. 104, E, N Ofcs., 1st Fir., NE Ofcs.
Aspestos Type	n: Black, Heterogeneous, Bulk Material s: Chrysotile 3. % al: Non-fibrous 97. %
2393 Locatio	903121078-36 Yes 2 % n: Black Mastic Under Carpet, Rm. 117, NW Ofcs., 1st Fir., NW
Aspestos Type Other Materia	n: Black/Yellow, Heterogeneous, Bulk Material s: Chrysotile 2. % I: Non-fibrous '98. %
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- 5.	PLM Bulk Asbestos Report
Ellis Environmental M Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes	Date Examined 12/04/2003 P.O. # 03-492 Page 10 of 13 RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Fir
Client No. / HGA	Lab No. Asbestos Present Total % Asbesto
2394 Locat	903121078-37 No NAD Ion: 2'x2' CT, S. End of E. Corridor Near Rm. 157, 1st Fir., Corridors & Offices
Asbestos Ty Other Mate 2395	ion: White/Grey, Homogeneous, Bulk Material pes: rial: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-38 <i>No</i> / NAD lon: 2'x2' CT, Rm. 141, 1st Fir. Corridors & Offices
	tion: White/Grey, Homogeneous, Bulk Material
Asbestos Ty	
Asbestos Ty Other Mate 2396	pes: Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD
Asbestos Ty Other Mate 2396 Locat Descript Asbestos Ty	pes: riat: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD lon: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Flr., Corridors & Offices ion: White/Grey, Homogeneous, Bulk Material pes:
Asbestos Ty Other Mate 2396 Locat Descript Asbestos Ty	pes: riat: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD ton: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Flr., Corridors & Offices ion: White/Grey, Homogeneous, Bulk Material
Asbestos Ty Other Mate 2396 Locat Descript Asbestos Ty Other Mate 2397 Locat	pes: rial: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD 903121078-39 No NAD Ion: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Fir., Corridors & Offices NAD ion: White/Grey, Homogeneous, Bulk Material Perlite 25. % 903121078-40 No NAD 903121078-40 No NAD ion: 2'x2' CT, North Corridor Adj. to N. Lobby, 1st Fir., Corr & Ofcs. NAD
Asbestos Ty Other Mate 2396 Locat Descript Asbestos Ty Other Mate 2397 Locat Descript Asbestos Ty	pes: rial: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD Ion: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Flr., Corridors & Offices NAD ion: White/Grey, Homogeneous, Bulk Material pes: Perlite 25. % NAD 903121078-40 No NAD 903121078-40 No NAD ion: 2'x2' CT, North Corridor Adj. to N. Lobby, 1st Flr., Corr & Ofcs. NAD ion: White/Grey, Homogeneous, Bulk Material NAD
Asbestos Ty Other Mate 2396 Locat Descript Asbestos Ty Other Mate 2397 Locat Descript Asbestos Ty Other Mate	pes: rial: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-39 No NAD Ion: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Flr., Corridors & Offices Ion: White/Grey, Homogeneous, Bulk Material pes: rtal: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. % 903121078-40 No NAD g03121078-40 No NAD NAD ion: 2'x2' CT, North Corridor Adj. to N. Lobby, 1st Flr., Corr & Ofcs. Ion: White/Grey, Homogeneous, Bulk Material pes: Solution: White/Grey, Homogeneous, Bulk Material Ion: 2'x2' CT, North Corridor Adj. to N. Lobby, 1st Flr., Corr & Ofcs.

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SCILAB			ORNIA, INC.
			STREET • SUITE 308 CARSON, CA 90745 FAX: (310) 834-4772
: : :	PLM Bulk Asbestos Re	port	
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes	Date Examined 12/04/20 RE: 03-492; SMCC; 3171	03 P.O. 1 Page	11 of 13
Client No. / HGA	Lab No. Asbestos	Present	Total % Asbesto
2399 Locati	903121078-42 No on: Spray on AC, Rm. 110 (East), 1st Fir., NE Area	V	NAD
Asbestos Typ	on: White, Heterogeneous, Bulk Material es: ial: Non-fibrous 100. %	,	
Descripti Asbestos Typ	903121078-43 Yes on: Spray on AC, R. 108 (West), 1st Fir., NE Area on: White, Heterogeneous, Bulk Material es; Chrysotile 3. % ial: Non-fibrous 97. %	s	3%
2401 Locatio	903121078-44 Yes on: Spray on AC, Rm. 108 East, 1st Fir., NE Area on: White, Heterogeneous, Bulk Material	s /	3%
Asbestos Typ	es: Chrysotile 3. % ial: Non-fibrous 97. %		
2402 Locatio	903121078-45 Yes on: Spray on AC, Rm. 104 (SW), 1st Fir., NE Area	s /	5 %
Descriptio Asbestos Type	on: White, Heterogeneous, Bulk Material es: Chrysotile 5. % ial: Non-fibrous 95. %		
Description Asbestos Type Other Materi 2403	es: Chrysotile 5. %		3 %

						RATORIES
SCI	LAB					RNIA, INC.
×	and the second se			24416 SOUTH		REET + SUITE 308 ARSON, CA 90745
				TEL: (310) 834	4-4868 • FA	X: (310) 834-4772
14.		PLM B	ulk Asbes	tos Repo	ort	
Ellis Env	rironmental M	lanagement,	Date Received	12/03/2003	SciLab	Job No. 903121078
Inc.	,		Date Examined	12/04/2003	P.O. #	03-492
	ane Behrens				Page	12 of 13
430 Silve Suite 20	er Spur Road 1		RE: 03-492; SM	ICC; 3171 Bu	indy, SM	/2-Story Bldg., 1st Flr.
Rancho	Palos Verdes	CA 90275				
Client No	D. / HGA	Lab N	0.	Asbestos Pre	esent	Total % Asbesto
2404		903121	0 78- 47	Yes	<i>_</i>	5 %
	Eoca	tion: Spray on AC, I	Rm. 124, Telephone	e Rm., 1st Flr., C	entral	
	Asbestos Ty	tion: White/Grey, H pes: Chrysotile 5. erlal: Non-fibrous 9		Material		
•••••••						·····
2405		903121	078-48	Yes	/	5 %
2405	Loca		078-48 Rm. 125 (SE Near D		est	5 %
2405		tion: Spray on AC, I	Rm. 125 (SE Near D	Door), 1st Fir., W	est	5 %
2405	Descrip Asbestos Ty	tion: Spray on AC, I	Rm. 125 (SE Near D geneous, Bulk Mate %	Door), 1st Fir., W	est	5%
2405 2406	Descrip Asbestos Ty	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. rial: Non-fibrous 9	Rm. 125 (SE Near D geneous, Bulk Mate % 5. %	Door), 1st Fir., W	est	5 % 5 %
	Descrip Asbestos Ty Other Mate	tion: Spray on AC, I tion: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210	Rm. 125 (SE Near D geneous, Bulk Mate % 5. %	Door), 1st Fir., Wo rial Yes ,	est	
	Descrip Asbestos Ty Other Mate Locat	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, I	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F	Door), 1st Flr., Wo rial Y <i>es</i> , Floor West	est	
	Descrip Asbestos Ty Other Mate Local Descrip	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, I	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Butk Mater	Door), 1st Flr., Wo rial Y <i>es</i> , Floor West	est	
	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty	tion: Spray on AC, I tion: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, I lon: White, Heterog	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate %	Door), 1st Flr., Wo rial Y <i>es</i> , Floor West	est	
2406	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty	tion: Spray on AC, I tion: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, I lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. %	Door), 1st Fir., Wo rial <i>Yes ,</i> Floor West	est	5 %
	Descrip Asbestos Ty Other Mate Locat Descrip Asbestos Ty Other Mate	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. 9031210 ion: Spray on AC, I lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. %	Door), 1st Fir., Wo rial Yes Floor West rial Yes		
2406	Descrip Asbestos Ty Other Mate Locat Descrip Asbestos Ty Other Mate	tion: Spray on AC, i tion: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, i lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, i	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. % 078-50 Rm. 127 (Near Door	Door), 1st Fir., Wo rial Floor West rial Yes), 1st Floor Centr		5 %
2406	Descrip Asbestos Ty Other Mate Locat Descript Asbestos Ty Other Mate Locat	tion: Spray on AC, i tion: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, i lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, i	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Butk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk	Door), 1st Fir., Wo rial Floor West rial Yes), 1st Floor Centr		5 %
2406	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. 9031210 ion: Spray on AC, I lon: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, I 9031210 ion: Spray on AC, I	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk %	Door), 1st Fir., Wo rial Floor West rial Yes), 1st Floor Centr		5 %
2406 2407	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty	tion: Spray on AC, I tion: White, Hetero pes: Chrysotile 5. 9031210 ion: Spray on AC, I lon: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, I 9031210 ion: Spray on AC, I ion: White/Grey, He pes: Chrysotile 5. rial: Non-fibrous 9	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Butk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk % 5. %	Door), 1st Fir., Wo rial Floor West rial Yes), 1st Floor Centr		5 %
2406	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Descrip Asbestos Ty Other Mate	tion: Spray on AC, i tion: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, i lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: White/Grey, He pes: Chrysotile 5.9 rial: Non-fibrous 9 9031210	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Butk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk % 5. %	Door), 1st Fir., Wo rial <i>Yes</i> Floor West rial <i>Yes</i>), 1st Floor Centr Material <i>No</i>	rat	5 % 5 % NAD
2406 2407	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate	tion: Spray on AC, i tion: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, i lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, i ion: Spray on AC, i spray on AC, i 9031210 ion: Chrysotile 5. rial: Non-fibrous 9 9031210 lon: 2'x4' CT, Rm.	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk % 5. % 078-51 127 (Near Door), 1st	Door), 1st Fir., Wa rial <i>Yes</i> Floor West rial <i>Yes</i>), 1st Floor Centr Material <i>No</i> t Floor, West Centr	rat	5 % 5 % NAD
2406 2407	Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate Local Descrip Asbestos Ty Other Mate	tion: Spray on AC, i tion: White, Heterog pes: Chrysotile 5. 9031210 ion: Spray on AC, i lon: White, Heterog pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: Spray on AC, i ion: Spray on AC, i pes: Chrysotile 5. rial: Non-fibrous 9 9031210 ion: White/Grey, He 9031210 ion: 2'x4' CT, Rm.	Rm. 125 (SE Near D geneous, Bulk Mate % 5. % 078-49 Rm. 125 (NW), 1st F geneous, Bulk Mate % 5. % 078-50 Rm. 127 (Near Door eterogeneous, Bulk % 5. %	Door), 1st Fir., Wa rial <i>Yes</i> Floor West rial <i>Yes</i>), 1st Floor Centr Material <i>No</i> t Floor, West Centr	rat	5 % 5 % NAD

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	CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772
	PLM Bulk Asbestos Report
Ellis Environmental Ma Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes	Date Examined 12/04/2003 P.O. # 03-492 Page 13 of 13 RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Fir.
Client No. / HGA	Lab No. Asbestos Present Total % Asbestos
Descript Asbestos Ty	903121078-52 No NAD ion: 2'x4' CT, Central Open Area (Adj. to Rm. 128), 1st Floor ion: White/Grey, Homogeneous, Bulk Material pes: rial: Cellulose 60. %, Fibrous glass 20. %, Perlite 20. %
Pt Ct = 0.1%; NA = not a 600/M4-82-620 per 40 Cl reliable in detecting asbe currently the only method non-asbestos-containing National Institute of Stan	albovsky in the sport of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By:	
- 11	

Slott Shilen Banner Kathy Cummins Sheet 1 of	Teets Required	PLM - Asperbs						L bate	aist Style	
nt, Inc.	Salid	× .					Standard	Received By	ス フ	
1 7 8 geme 201 275 CORD	Air						Star 1	A. R.		
2 1 0 Mana Mana Mana Mana Mana Mana Mana Man	1720 1420						5 days			
9 0 8 1 8 1 Anmental Mar Alive Spur Itond, Suit the Palos Verdes, CA (310) 544-2167 (fax) (310) 544-2167 (fax)	e E F	ი ი				T		_	+	
CHAIN OF CUSTODY RECORD	Date	12103					K3 days			
D3-492 BILLS MCC MCC MPC BANDON SM MPC CH	•	ASSET 2409 DER ALE OLACHER	0				Turnaround: same day 24 hrs. X Special Instructions:	1212 00 V AUVIA 19 1000 100	minimer () and 1	· ·

134 AY, SE OFCOSTION WITH FRIABLE DAMAGE Date 124 22 07 ع ع Inspector Initials Proj. No. 123-497 Project 2171 Brundly SM R.Story P.S. PLR Sheet __ 124 Ar SW Perimwills. a-Story 1St-Ar. NE Perim Wallda 13+ flr S. perim will 124-Ar. NW. Fernally 134-FIX. West-off- wall E corridor adj. to vaytime 13t. C. Ferim wally Client: CJMCC E. Conidorat emild 15 Ar. East ofes. 15t Alr. West-afres 1st An Eusborgs. 13-Ar. SEGES, 154 Plv. Eastates. W. Corridor Brunn 115A + E. Corn-dor at Lelohy N.E. Conf. Emilinenene) E. Connidor of the Knilled E. Corridor of RM. 157 903121078 SW . OP. RM 146 Wet of . Emize RM 155 E. Wall. SAMPLE LOCATION N W OFC. RMILS OH S. PKIT. **BILLS** Environmental Managment, Inc. FIELD SAMPLING INVENTORY Joint Come. MATERIAI Think Comp. First Comp 430 Silver Spur Road, Sulte 201 Rancho Palos Verdes, CA 90276 chint Comp. Joint Comp. Plaster Plaster Plaster Plasty Plaster Plaster Plaster 13+ FLR. (310) 544 1837 SAMPLE # 2358 2365 2359 2367 2362 2364 2366) 2369 2368 2360 2363 2361

FIELD SAMPLING INVENTORY	908121078	Client: SMAL Project: 2171 PAUMA, 3-5bruy 17 FLR Proj. No. 02-492	3 6
**	SAMPLE LOCATION		
2370 Joint Comp	OPEN BOOR 12/10, 10/100 + Tel. RM ROWTH A ROLE - 15+0-		
2371) Joint Comp.	大家 145	122 Ar Shi 200	
	Vinuel Area	104 Av Nou Ot Amer	
2373 tolaok mastz	WEWSRR WHEN Fleet Comp.	12 FIV SUNTA PO	
2374) WHT FT	Menis RC	137 AV S. R.P. (Ment)	
2375) 1am 9" FT+ Muchic	air Storade	124 A. r. South the	
2376 WHT +BRN FT.+Mashr		PLAN. SONTANK	
2377) Ten a" FT + Mashie		15t Aler South.	
	(Mp)	15rAr Rmileo	
23/9) BRN FT. 12"		1st flow Wist	
2380) TOM QII FT	N. WHIL. OUDAT.	Ist-flow N. HTI.	
2381) [BRN 12"FT	N. Lubou	1 the Allan	
Elitify E nvironmental Managment, Inc. 430 Silver Spur Road, Sulte 201 Rancho Palos Verdes, CA 90275		Date 12/3/67	200
(310) 544 1837		Inspector Initials	°s ∭ ∭

FIELD SAMPLING INVENTORY	903121078	Client: SMLC. Project: 3171 BUNDA, 201-Story	Proto-
	2 ¹	Prof. No. L	Proj. No. 03-492
	SAMDI # 1 OCATION		
7	MONE & FANKLAN		GNTY, UNT FRUABLE DAMAGE
busebound mashic	KUMM 155 SE OFFICE	1001-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
baseboard meshi	Rm. 146 SW Office		
base 12d. mashic	UTLIN Room	 	
Dwe lod + martin	E. CORRIDOR (NORTH)	Ist Fire (N.E. Coence)	
base bd. mashic	W. COVINGUE NOVEN 7154	1st fur (M.W.)	
	Rm. 1 210 (West-Central)	1 Str. Neat	
Jost J	KIR 136 (WEDT OF SWIN)	1st Av. Sw	
tick - White Parter	KM AD CONP.	13t Ar. Kust	
- X-	Martin under carget PMISA, SE OLS.	1st fly SE ofer	
	Rmlod, E.NORS	12 FIN NE OR S.	
Mastic wales Carpet	24	13-FIV. NAV	
Silin Environmental Managment, Inc. 130 Silver Spur Road, Suite 201 čancho Palos Verdes, CA 90276			Date 12/202
	•	Shee	Sheet 2 of D

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	FIELD SAMPLING INVENTORY		Cilent: DM.CC	
•••		903121078	MS MUNA HIT DUNUM SM	
			Proj. No. U3-44	A
	SAMPLE # MATERIAL			
	2394) 2X2' CT	G. D.M D.C. C	MATERIAL LOCATION ONTY UNIT FRUABLE DAMAGE	BAMAGE
	12x21CT	Pin 141	131-445 CONVADORS	
	2x2'CT,	Pr Ad: Low 120	7 1	
	2397) 212' Ct	Notin 120 100 100 100 100		
<u> </u>	PONS. (P)	PMILL CONCOL LAND	1 The Contropes	
	2399 Spraw, on A/C	Kmm Comme	1 TIT. NE GUR	
	2400) 2014. ON A/r		I TIV. NE MA	
	1		1-Hr. NE area	
	2402 2402	KIMIDO(LANK)	13t Mr. NE Are	
·		(KM 104 (SW)	1st thr. Nie area	
<u></u>		RWA 102 Center	ISTAY. NE WRA	
<u></u>	The start		12-flr. Centhal	
	JAN ALC	RM 125 (SE NUNDON)	13t-FLV. West	
	Estimate Environmental Managment, inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275		a - 4	
-	(310) 544 1837		inspector Initials	
	· .		Sheet A of	\J

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1.01210 BOT?

Client: STAR B Project: BAIT BUNNUN SA Project: BAIT BUNNUN SA RATERIAL LOCATION ONLY INT FRIABLE DAMAGE 137-FLOON WOST CONTROL 137-FLOON WOST CONTROL	
BRY 903121078 Project PAT PAUMAN SAM Project PAT PAUMAN SAM Project PAT PAUMAN SAM Project PAT POLY NUM FORMAN SAM Proj. NO. 03-49-7- Proj. Proj. P	
Eleld Sample # MATERIAL Sample # MATERIAL 2406 SPRV DN A/C 2409 2×41 CT 2409 2×41 CT	Kall K. Environmental Managment, Inc. 430 Silver Spur Road, Suite 201 Rancho Paios Verdes, CA 90275 (310) 544 1837

SCILA		24416 SOUTH MAIN ST	PRNIA, INC. REET • SUITE 308
			ARSON, CA 90745
:	PLM Bulk Asi	pestos Report	
Ellis Environmenta Inc. Attn: Duane Behrer 430 Silver Spur Ros Suite 201 Rancho Palos Verd	Date Exam ad RE: 03-492	ved 12/03/2003 SciLab Ined 12/05/2003 P.O. # Page ; SMCC; 3171 Bundy, SM	1 of 3
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbesto
2410 Loc	903121080-01 cation: Duct Tape, Mech. Rm.	Yes /	40 %
~~~~~	iption: White, Homogeneous, Bulk M Types: Chrysotile 40. % Iterial: Cellulose 50. %, Non-fibrou		
2411 Loc	903121080-02 ation: Plaster, West Wall Btwn Mech	No & Storage A, Mech Rm.	NAD
Vancatha L	ption: Beige, Homogeneous, Bulk M. ypes: erial: Non-fibrous 100. %	aterial	
2412 <u>Loca</u>	903121080-03 tion: Plaster, Central Wall Btwn. Me	No Sh. & Storage A, Mech. Bm.	NAD
. Descrip Asbestos Ty	tion: Beige, Homogeneous, Bulk Ma		
2413 Locat	903121080-04 Ion: Plaster, East Wall Btwn. Mech.	<i>No</i> & Storage, Mech. Rm.	NAD
	ion: Beige, Homogeneous, Bulk Mat		
Cancerne Litt			
Other Mater 2414	903121080-05 on: Pipe Insul. at Hangar (Storage A	<b>Yes</b> 5	3 %

SCILAB	N	SCIENTIFIC LAB	ORATORIES DRNIA, INC.
UCILAB		24416 SOUTH MAIN S	TREET • SUITE 308
		( TEL: (310) 834-4868 • F	CARSON, CA 90745 CAX: (310) 834-4772
	PLM Bulk Asbe	stos Report	
Ellis Environmental M Inc. Attn: Duane Behrens 430 Silver Spur Road Suite 201 Rancho Palos Verdes	Date Examine RE: 03-492; S	i 12/03/2003 SciLat d 12/05/2003 P.O. # Page MCC; 3171 Bundy, SM	2 of 3
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2415 <u>Loca</u>	903121080-06 tion: Pipe Insul. at Elbow, Mech. Rm.	Yes 🖉	3 %
Asbestos Ty Other Mate	tion: Grey, Homogeneous, Bulk Mater pes: Chrysotile 3. % erlal: Fibrous glass 67. %, Non-fibro		
2416 Locat	903121080-07 Ilon: Pipe Insul., Tape at Elbow, Mech.	Yes -	2 %
Descript Asbestos Ty	ion: White/Grey, Heterogeneous, Bulk pes: Chrysotile 2. % rial: Cellulose 88. %, Fibrous glass	Material	
2417 Locati	903121080-08 ion: Pipe Insul. Elbow, Mech. Rm.	Yes	5 %
Aspestos Typ	on: Grey, Homogeneous, Bulk Materia es: Chrysotile 5. % fal: Fibrous glass 65. %, Non-fibrou		
2418 Eccation	903121080-09 on: TSI Debris at Edge of Abated Elbo	Yes w (Low Level), Mech. Rm.	5 %
Aspestos Typ	on: Grey, Heterogeneous, Bulk Materia es: Chrysotile 5. % ial: Fibrous glass 65. %, Non-fibrous		
2419 Locatio	903121080-10 n: Duct Wrap (Lt. Brown), Pipes in Me	<i>No –</i> ech. Rm.	NAD
Aspestos Type	n: Beige/Black/Silver, Homogeneous, s: al: Cellulose 50. %, Non-fibrous 50.		
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12/05/2003	11:56	SCILAB CA	310-834-4772 → 544	2167		ND.965
~						RATORIES
SCI	LAB			OF (	CALIFO	RNIA, INC.
	,			24416 SOUT		EET . SUITE 308
				TEL: (310) 83	CA 84-4868 • FA	RSON, CA 90745 X: (310) 834-4772
	· · ·	PLM	Bulk Asbes	tos Repo	ort	
Ellis Enviro	nmental Ma	anagement,	Date Received	12/03/2003	Scil ab.	Job No. 903121080
Inc.	<u>.</u>		Date Examined	12/05/2003		03-492
Attn: Duane				12/00/2000		
430 Silver S	Spur Road		DE. 02 400. CH		Page	3 of 3
Suite 201	÷		RE: 03-492, 51	ICC; 3171 Bi	indy, SM/	2-Story Bldg., Mech
Rancho Pal	os Verdes,	CA 90275	Rm.			
Client No. /	HGA	Lab	No.	Asbestos Pre	esent	Total % Asbestos
2420	:	90312	21080-11	No /		
	Locati		Wht), Pipes in Mech. F			NAD
	Descripti	n: Beige/Black	/Silver, Homogeneous,	Deally Made Mat		
A	sbestos Typ	es:	enter, nomogeneous,	Duik Material		
			0. %, Non-fibrous 50	•∕_		
Reporting N	otes:		and the second			
"NAD/NSD = Pt Ct = 0.1% 600/M4-82-0 reliable in de currently the non-asbestos National (nstr	20 per 40 CFF tecting asbest only method the containing in tute of Standa	letected; Detection lyzed; NA/PS = 1 1763 (NVLAP Lat os in floor covering tat can be used to New York State (in rids and Technological)	on Limit <13%, Reporting I not analyzed / positive sto #200346-0, CA ELAP Ia gs and similar non-friable determine if this materia also see EPA Advisory fo	p; PLM Buik Ase b #2322); Note: F organically bound can be consider floor tile, FR 59,	6, 400 Pt Ct = lestos Analys PLM is not co d materials. ed or treated 146, 38970,	- = 0.25%, 1000 is by EPA nsistently TEM is as 8/1/94).
Reviewed By:		moor trie approva	of the laboratory. This F	'LM report relates	ONLY to the	items tested.
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FIELD SAMPLING INVENTORY	903121080	Cliant: SMCC	
<i>ر</i>	• • •	Project 2171 Bu	Project 21 71 Brundy, SM, 2- Story Bridg, Mechem
ZE Z		MATERIAL LOCATION MECHEM. HECHEM. HECH.EM. MECH.EM. MECH.EM. MECH.EM. MECH.EM. MECH.EM. MECH.EM. MECH.EM. MECH.EM.	Proj. No. US-240 Ourry. UNIT FRABLE DAMAGE 10 Dairds 10 Dairds
KILLS Environmental Managment, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275	*		Date 12/3 09
(310) 544 1837			Inspector Initiats

Sampler: Fortry Annith Sheet _ 4	PLM- Defrecter	
9 0 3 1 2 1 0 8 0 Environmental Management, Inc. 430 Silver Spur Road, Suth 201 Ramolo Palos Verdes, CA 90275 (310) 544-1837 (tal) (310) 544-2167 (fax) HAIN OF CUSTODY RECORD	H20 Air Solid Bys Standard	A Marter
<ul> <li>9 () 3 1 2 1 () 8 ()</li> <li>430 Silver Spur Road, Suite 201</li> <li>430 Silver Spur Road, Suite 201</li> <li>Rancho Palos Verdos, CA 90275</li> <li>(310) 544-1837 (tal)</li> <li>(310) 544-2167 (fax)</li> <li>CHAIN OF CUSTODY RECORD</li> </ul>	Date Tu S days	Reilinguished By
	Munder     All allached       Milo to 2400     All allached       Immeritient     Immeritient       Milo to 2400     Alle       Immeritient     Immeritient       Immeritient     same day       Special Instructions:     same day	Date Date Aeimqui

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# Appendix E

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## Laboratory Reports Lead

Ellis



### SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772

SciLab Job#: 403121053

### Lead Analysis Results

Date Received: 12/03/2003 Date Analyzed: 12/04/2003

Paint EPA Method 3050/7420

### Ellis Environmental Management, Inc.

Rancho Palos Verdes, CA

## Job Site: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Exterior

	SciLab # 403121053	Client Number	Sample Location	% Lead Lead (₩/w) (mg/kg ⊃ ppm)
	01	0083	Wht. Ext. Paint, W. Mech. Rm. Roof	0.012 120
	02	0084	Metal Only, Covering Exh. Vent Roof	0.016 160
-	03	0085	Wht. Ext. South at Roof Stair	0.010 1.00
Ì	04	0086	Wht. Ext., N. on Block Planter	<b>&lt;0.0</b> 1 <b>&lt;</b> 100

SciLab Reporting Limit is 0.01%, or 100mg/kg. Scilab does not correct sample results by the blank value. CA ELAP No. 2322. AIHA Lab No. 100530.

#### **Reviewed by:**

Analyzed by:

**Minh Phung** 

ELAP No: CA 2322

Page 1 of 1

NEW YORK + LOS ANGELES + BOSTON + HICHMOND

403121053. Koutur Cumurins sampler: Bound Smith	Tests Required	% Lead by weight					By bate NSIK N-10
It luc	Solid	×	$\rightarrow$			Standard	eceived By
	Air					, s	
Vironmental Manage 430 Silver Spur Road, Suite 201 Rancho Palos Vordes, CA 90275 (310) 544-1837 (tal) (310) 544-2167 (tal) (310) 544-2167 (tal)	H20					6 days	
htmental Mar Itvar Spur Road, Suit Itvar Spur Road, Suit Itvar Spur Road, Suit (310) 544-1837 (bu) (310) 544-2167 (fbx) (310) 544-2167 (fbx)	Time						
Environmental Management, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275 (310) 544-3187 (tal) (310) 544-2167 (fax) AIN OF CUSTODY RECORD	Date	ह्र्युड्र				3 days	
Project No.: 03-493 Froject No.: 03-493 Client Smr Road, Suite 201 Rando Palos Vordes, CA 90275 Client Smr Road, Suite 201 Rando Palos Vordes, CA 90275 (310) 544-1837 (ca) Coation: 3131 BM/NdU, SIN, 3 Study BCHAIN OF CUSTODY RECORD	Sample Description Number 0.08.3 Lun	Metal only, Onvering extr. Yent, Roof	1		· · ·	Turnaround: same day 24 hrs.	Date Refinquished By

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Sampler: 12000 Smith	Tests Required	% Lead by Weight					Pate Date
ent, Inc.	Solid	×	$\rightarrow$			Standard	eceived By
<b>ageme</b> 201 90275 ECORE	Air						And
L Man Mad, Sutte dee, CA dee, CA (fax) of (fax)	H20					5 days	
NIMental Man Iliver Spur Road, Suith the Palos Verdes, CA (310) 544-1837 (tel) (310) 544-2167 (fax) (310) 544-2167 (fax)	- H H						
Environmental Management, Inc. 430 Silver Spur Road, Suite 201 Rancho Palos Verdes, CA 90275 (310) 544-1837 (ta) (310) 544-2167 (fax) AIN OF CUSTODY RECORD	Date	2303				3 days	
03-492 MCC DITI BUNDU, SM, 3 Story BICH, Extension J. SM, 3 Story BICH,		4 MERI CONU, COVENING & MERI NOT ROLL ROLL ROLL ROLL ROLL ROLL ROLL RO				Lurnaround: same day 24 hrs. A Special Instructions:	12003 A Kann Removed By