Emeryville Days Limited Partnership
Operations Services
c/o Days Suites
5820 W. Irlo Bronson Highway
Kissimmee, Florida 34746
Telephone (407) 396-6605
Fax: (407) 396-8060

February 27, 1996

Mr. Wyman Hong
Zone 7 Water Agency
5997 Parkside Drive
Pleasanton, California 94588

Subject: **Submittal of Phase III Environmental Site Assessment Workplan**
Days Inn Hotel
1603 Powell Street
Emeryville, California

Dear Mr. Hong:

Emeryville Days Limited Partnership is presenting the attached workplan and previous reports to document current and previous environmental site assessment activities that have been conducted at the Days Inn Hotel in Emeryville, California. The results of field activities and laboratory analyses previously conducted at the site indicate that soils and groundwater have been impacted by petroleum hydrocarbons.

We have contracted with a local environmental consulting firm, Law/Crandall, to conduct a Phase III environmental Site Assessment at the site to further delineate the extent of soil and groundwater impacted by petroleum hydrocarbons. The attached workplan outlines Law/Crandall's technical approach to addressing environmental concerns at the site. We look forward to working with you to mitigate environmental concerns and obtain site closure in an efficient and expeditious manner.

Emeryville Days Limited Partnership appreciates the opportunity to submit these reports. Please review the workplan as soon as possible so that the planned assessment activities can commence, and provide a letter addressed to Emeryville Days Limited Partnership with your comments and/or concurrence. If you have any questions, please contact either myself or Mark Miller of Law/Crandall at (415) 834-2040.

Sincerely,

Emeryville Days Limited Partnership

Charles G. Goldman
Authorized Agent

Attachment: Workplan

cc: Brett Tollman
Monty Hundley
Sanford Freedman
Mark Miller

Post-It™ brand fax transmittal memo 7671 | # of pages ▸ 3

To MARK MILLER	From SUSAN HUGO
Co. LAW/CRANDALL	Co. ACDEH
Dept.	Phone #
Fax # (415) 834-2051	Fax # (510) 337-9335

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

WORKPLAN FOR
PHASE III ENVIRONMENTAL SITE ASSESSMENT

Days Inn Hotel
1603 Powell Street
Emerville, California

Prepared for:

Emeryville Days Limited Partnership
5820 W. Irlo Bronsen Highway
Kissimmee, Florida 34746

Prepared by:

Law/Crandall
875 Battery Street
San Francisco, California 94111

LAW Job No. 70424-6-0004

February 22, 1996

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES, INC

February 22, 1996

Mr. Charles G. Goldman, Vice President
Operations Services
c/o Days Suites
5820 W. Irlo Bronson Highway
Kissimmee, Florida 34746

Subject: **Workplan for Phase III Environmental Site Assessment**
Days Inn Hotel
1603 Powell Street
Emeryville, California
Law/Crandall Project No. 70424-6-0004

Dear Mr. Goldman:

Law/Crandall (LAW) is pleased to present to Emeryville Days Limited Partnership this workplan for a Phase III Environmental Site Assessment at the Days Inn Hotel in Emeryville, California. This workplan outlines our approach to further assess the extent of soil and groundwater hydrocarbon impacts related to the historical presence of above-ground and underground storage tanks at the site, and possible off-site sources. The scope of services is based on our proposal number 70424-6-5005 dated January 16, 1996, and incorporates our review of the site background documentation and our experience with similar projects. This workplan presents our understanding of the project background and objectives, our proposed scope of services, and a project completion schedule.

BACKGROUND INFORMATION

The Days Inn site is located at 1603 Powell Street in Emeryville, California (Figure 1). According to the Environmental Site Assessment report for the site prepared by McLaren/Hart and dated January 18, 1993 (Attachment A), the Days Inn facility and affiliated Days Cafe were constructed in 1985 and 1988, respectively, on a 1.58 acre parcel. The seven-story, 154-room hotel is located approximately 0.2 miles east of the San Francisco Bay and is surrounded by commercial and industrial facilities.

The only environmental concern associated with the current property usage relates to a 1,000-gallon diesel generator underground storage tank (UST). The UST is located near the southeastern corner of the hotel building (Figure 2). Several nearby properties identified in the historical review performed by McLaren/Hart or listed as having UST or other toxic problems in the Phase I were also identified as potential concerns to the subject property.

875 BATTERY STREET • SAN FRANCISCO, CA 94111
(415) 834-2040 • FAX (415) 834-2051

The property was occupied by an auto freight depot from sometime prior to 1949 until the early 1980s. Environmental concerns associated with the auto freight depot included the presence of two large above-ground storage tanks (ASTs) located near the southeastern corner of the property. Soil stains were observed to be present around the ASTs and between the ASTs and the freight depot building in historical aerial photographs. Nine ASTs were formerly present on the Union Oil of California distribution facility property located to the east of the site.

McLaren/Hart conducted soil and groundwater sampling at the site during March and April of 1993; the results of their assessment are provided in their report dated May 27, 1993 (Attachment B). Prior to the commencement of the field sampling activities, McLaren/Hart confirmed that five USTs were removed from the site prior to the construction of the current hotel building. The UST cluster was located immediately west of the former ASTs, as shown on Figure 2.

McLaren/Hart installed a total of 21 soil borings at locations of interest at the site. Soil and Hydropunch™ groundwater samples were collected from each boring. The borings were located along the eastern and western property boundaries, in the vicinity of the historical ASTs and USTs, and in the vicinity of the current diesel UST. Fill soils and Bay Muds were identified in the soil borings. Groundwater was encountered at a depth of approximately 7 feet below ground surface. Total petroleum hydrocarbons (TPH) consisting of motor oil, oil and grease, gasoline and/or diesel were detected at varying concentrations in all of the initial seven borings, and nearly all of the subsequent 14 borings. Benzene, ethylbenzene, toluene and total xylene (BETX) constituents were detected in soil samples from four of the borings. TPH as motor oil, oil and grease, gasoline and/or diesel was detected in water samples from 10 of the 21 total borings. McLaren/Hart concluded that the distribution of soil and groundwater contaminants was complex, and could have resulted from a number of activities including improper use and storage of petroleum hydrocarbons by the previous owner, off-site migration of contaminants from the former Union Oil facility, or by the use of petroleum contaminated fill soils at the site. The current on-site diesel UST is also a potential source of the identified diesel contaminants in soil and groundwater.

OBJECTIVE

Our objective will be to further evaluate subsurface soil and groundwater conditions at the site, and to establish a groundwater monitoring network. A total of six monitoring wells will be installed to assess the extent of hydrocarbon impacts in soil and groundwater.

For the purposes of this workplan, we have assumed that additional soil borings to further assess the lateral distribution of soil contaminants will not be required at this time. This is based on the anomalous distribution of soil contaminants as documented in the 21 soil borings already present at the site, the preponderance of heavy phase hydrocarbons (motor oil and oil and grease) and lack of significant BETX concentrations in soil samples, except in the vicinity of soil boring SB2-8, and our understanding that impacts to groundwater will be the primary focus of regulatory concern at the site.

ACDEH

SCOPE OF SERVICES

In order to meet the project objectives, LAW proposes the following scope of services. The project tasks will commence upon our receipt of workplan approval from the ~~Zone 7 Water Agency~~ (County), the lead agency for this assessment, and/or the Regional Water Quality Control Board (RWQCB). We believe that the following tasks will accomplish the project objectives.

- Task 1 - Prepare Health & Safety Plan
- Task 2 - Perform a Site Reconnaissance, Obtain Necessary Permits and Conduct Underground Utility Clearance
- Task 3 - Install Six Groundwater Monitoring Wells
- Task 4 - Develop, Sample and Survey Monitoring Wells
- Task 5 - Conduct Laboratory Analyses
- Task 6 - Review Data and Prepare Summary Report

The following sections provide a detailed discussion of each specific task and their respective activities.

Task 1 - Health & Safety Plan

We will prepare a site specific Health & Safety Plan to reflect proposed field activities in accordance with OSHA CFR 1910.120 regulations. The Health & Safety Plan will be used to acquaint our field personnel and subcontractors with chemical hazards potentially present at the site.

Task 2 - Perform Site Reconnaissance, Obtain Permits and Conduct Underground Utility Clearance

Prior to conducting any field work, LAW will obtain permits for drilling and well construction from the County. A LAW professional will visit the site to observe current site conditions, evaluate potential access restrictions resulting from the presence of overhead power lines and landscaping, and mark the proposed monitoring well locations in order to establish underground utility clearances.

LAW will contact Underground Service Alert (USA) to mark public utilities in the vicinity of the site and at specific sampling locations. We anticipate that USA will not provide sufficient underground utility information on-site to ensure safe subsurface exploration activities; therefore, we will arrange for a private utility locator to address the specific sampling locations in greater detail.

Task 3 - Install Six Groundwater Monitoring Wells

LAW proposes to drill six borings to further evaluate the vertical and lateral extent of petroleum hydrocarbons in soil and groundwater. The borings will be completed to a maximum depth of approximately 20 feet below ground surface (bgs), and will be converted to groundwater monitoring wells. The monitoring wells will be placed at the following locations: two of the wells will be placed near the upgradient, eastern property boundary to establish the quality of groundwater entering the site; two monitoring wells will be placed downgradient of the current and former AST/UST locations, and two monitoring wells will be placed on the western, downgradient portion of the site (Figure 2). The borings will be advanced using truck-mounted hollow-stem auger drilling equipment. The materials encountered in the borings will be logged in accordance with Unified Soil Classification System by a field geologist or engineer. Soil samples will be obtained with a California split-spoon sampler or equivalent at 5-foot

intervals and at significant lithologic boundaries; the samples will be used for soil classification and field screening purposes. The samples will be visually classified and qualitatively assessed for potential contaminants by headspace analysis using an HNu photo-ionization detector or equivalent. These results will be reported on the boring logs.

LAW will preserve soil samples for potential future laboratory analysis by covering the ends of the brass tubes with Teflon sheeting and plastic end caps; the samples will then be labeled, placed in ziplocked bags packed on ice, and transported in a thermally insulated cooler along with a Chain of Custody form to a California certified laboratory for analysis.

Upon completion of drilling, the borings will be converted to groundwater monitoring wells to the maximum depth explored. Each monitoring well will be constructed of 2-inch diameter, flush threaded, Schedule 40 PVC blank casing and 0.010-inch machine-slotted screen. A #2-12 sand pack will be installed around and 1 to 2 feet above the slotted interval, and a 2-foot bentonite seal will be placed above the sand pack and hydrated. Screen size, screen length, and sand pack may be revised according to field observations and regulatory requirements. The remaining annulus will be filled with a cement-bentonite mixture. A watertight locking cap will be installed on each well, and the wellheads will be protected by installing a watertight, traffic-rated Christy box set in concrete.

Drilling equipment will be steam cleaned prior to use and between borings. Sampling equipment will be thoroughly washed in a trisodium phosphate (TSP) solution or equivalent and rinsed with potable water after each use to reduce the potential for cross-contamination. Drill cuttings and water generated during drilling, well installation, development and sampling will be stored on site in DOT approved 55-gallon drums, pending laboratory analyses to determine a proper disposal method.

Task 4 - Develop, Sample and Survey Monitoring Wells

Following installation, LAW will develop each well to remove sediment and enhance communication with the water bearing zone. We will use a 2-inch diameter vented surge block and a low-flow pump to agitate water contained within the well and to flush sediments from the sand pack. Well development will continue until the clarity of the purged groundwater stabilizes or until approximately five to ten well casing volumes of water have been removed from each well. The depth to groundwater will be measured prior to and following initial well development and recovery.

Prior to sampling, depth to groundwater measurements will be collected, and each well will be purged with a bailer or low-flow pump until at least three well casing volumes have been removed and temperature, conductivity, and pH readings have stabilized within a 10 percent variance. Each well will be allowed to recover to approximately 80 percent of its static elevation prior to sampling. A groundwater sample will then be collected from each wall with a clean disposable bailer, poured into clean glass bottles provided by the laboratory, placed on ice in a thermally insulated container, and delivered with a Chain-of-Custody form to a state certified laboratory for analysis.

LAW will subcontract a licensed surveyor to survey each wellhead in relation to mean sea level (MSL) datum. Survey data and depth to groundwater data from each well will provide information necessary to calculate the direction and gradient of groundwater flow beneath the site.

Task 5 - Laboratory Analyses

One set of groundwater samples from each monitoring well will be submitted for analysis. Each groundwater sample will be analyzed for TPH as diesel and TPH as gasoline using EPA Method 8015 Modified, BETX using EPA Method 8020, and Oil & Grease using EPA Method 5520F.

Task 6 - Review Data and Prepare Summary Report

A summary report describing the results of the field assessment will be prepared after laboratory analyses results have been received and evaluated. The report will describe the field work conducted at the site, soil and groundwater conditions, and analytical results. The report will include necessary supporting materials and graphics including: site location map, site plan showing current and previous well and boring locations, boring logs and well construction details, geological cross sections, laboratory reports, chain-of-custody documents, and permit copies. Our findings regarding the presence and estimated extent of potential contaminants will be discussed in light of applicable criteria. We anticipate that this task will include a meeting with the County to discuss the findings of the assessment.

SCHEDULE

We estimate that the project can be completed within a seven to nine week time period following our receipt of a workplan approval letter from the County. Two weeks have been assumed for the County to review and approve the workplan. Two weeks will be required to perform utility clearances and secure monitoring well permits. The monitoring wells will be installed, developed and sampled within the subsequent two weeks. One week will be required for laboratory analyses, and two weeks will be required to write the summary report.

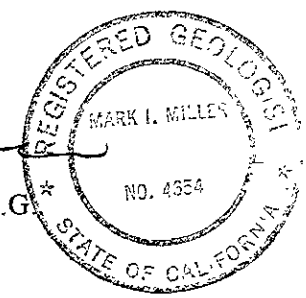
We recommend that this workplan be submitted to the County (the lead regulatory agency for hydrocarbon assessment projects in Emeryville, California) and the RWQCB for their concurrence prior to our commencing intrusive activities at the site. LAW would be pleased to answer any of your questions and regulatory agency inquiries concerning the proposed scope of work. Please contact either of the undersigned at (415) 834-2040.

Sincerely,

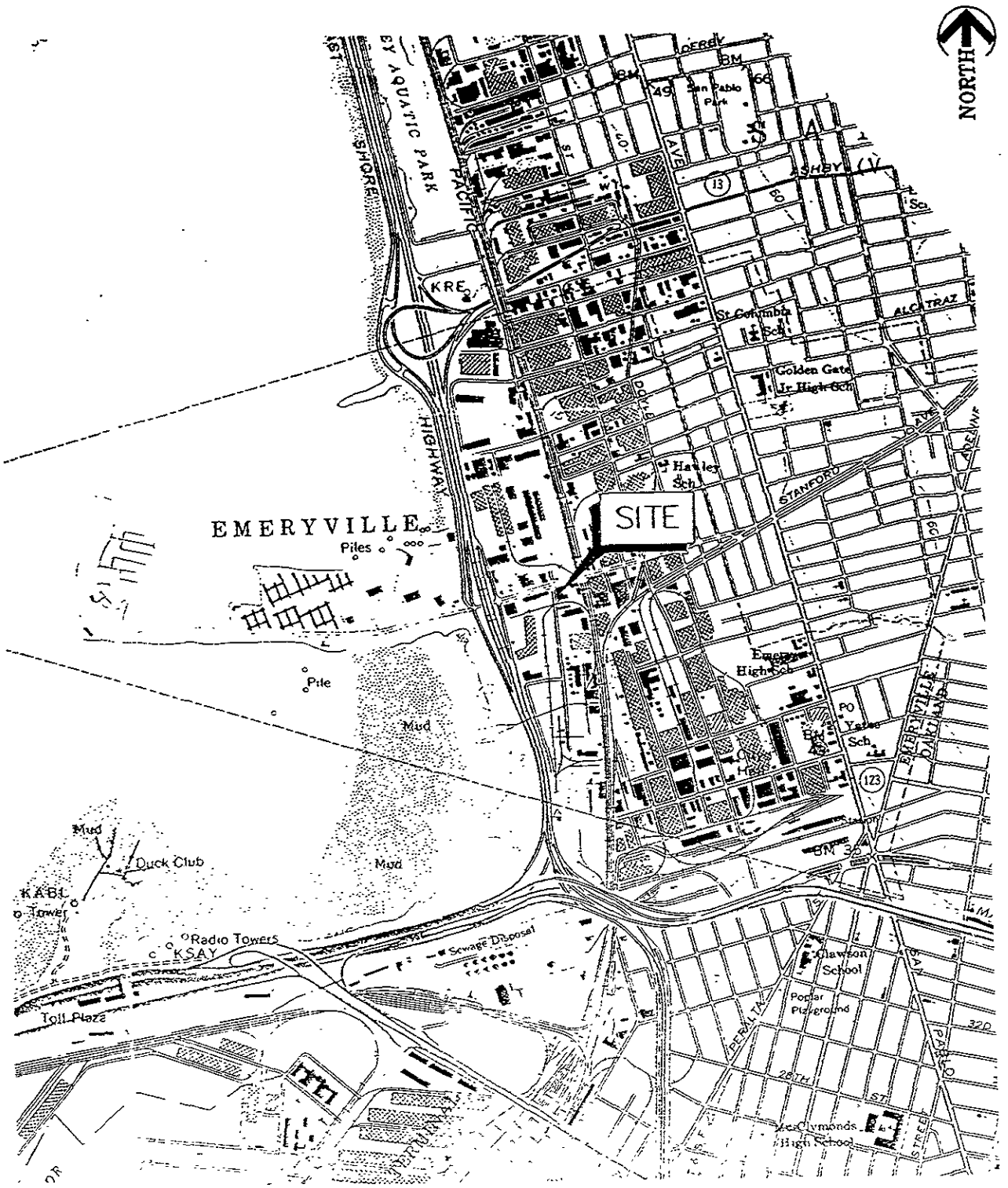
LAW/CRANDALL

Andrew T. Muha
Project Geologist

Mark I. Miller, R.G., C. E.G.
Principal Geologist



FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP OF OAKLAND WEST, CALIFORNIA DATED 1959 (PHOTOREVISED 1980).

PREPARED/DATE: A.T.M. 2/7/96
CHECKED/DATE: M.I.M. 2/7/96

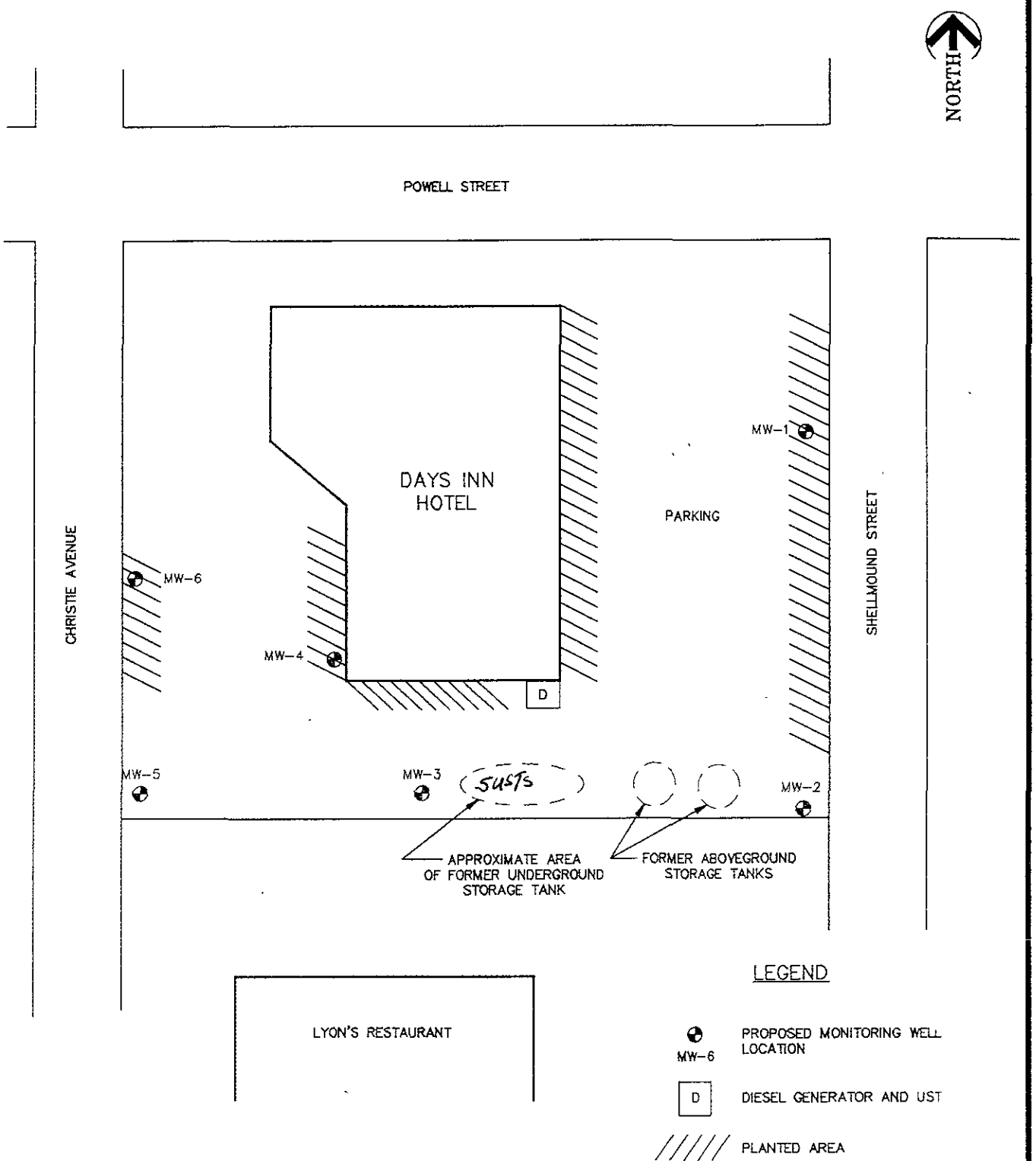
EMERYVILLE DAYS LIMITED PARTNERSHIP

LAW/CRANDALL

SITE LOCATION MAP
DAYS INN HOTEL
EMERYVILLE, CALIFORNIA

PROJECT: 70424-6-0004 FIGURE 1

C:\DWGS\TOLLMAN\70004I1 M.A.H. 2/22/96



SOURCE: McLAREN HART REPORT DATED 5/26/93.

PREPARED/DATE: A.T.M. 2/7/96
CHECKED/DATE: M.I.M. 2/7/96

EMERYVILLE DAYS LIMITED PARTNERSHIP

LAW/CRANDALL

SITE PLAN WITH PROPOSED MONITORING WELL LOCATIONS
DAYS INN HOTEL
EMERYVILLE, CALIFORNIA

PROJECT: 70424-6-0004 FIGURE 2

C:\DWGS\TOLLMAN\0004F2 M.A.H. 2/22/96

APPENDIX A

ENVIRONMENTAL SITE ASSESSMENT
CONDUCTED AT
THE DAYS INN HOTEL
LOCATED AT 1603 POWELL STREET
IN EMERYVILLE, CALIFORNIA
ASSET #072100

January 18, 1993

PREPARED FOR:

Morgan Stanley Realty
1121 Avenue of the Americas, 30th Floor
New York, NY 10020

PREPARED BY:

McLaren/Hart
1135 Atlantic Avenue
Alameda, California 94501

JOB NUMBER 04.0127338.000

Prepared By:

Gary L. Galindo
Associate Environmental Scientist

Reviewed By:

Jean M. Christensen, REA
Manager, Environmental Assessments
Supervising Geoscientist

1217lcd1

TABLE OF CONTENTS

TABLE OF CONTENTS
(Continued)

FIGURES

TABLE

APPENDICES

1.0 INTRODUCTION

1.1 Purpose

An environmental assessment was performed on a site located at 1603 Powell Street in Emeryville, California by McLaren/Hart. The assessment was performed to determine if there are real or potential contamination problems associated with the property, and in the event contamination was found, to conduct a review of current clean-up activities by responsible parties. This work may also be used to establish baseline information regarding for the presence or absence of contamination.

1.2 Involved Parties

McLaren/Hart conducted the preliminary environmental assessment on behalf of Bank of America in accordance with the guidelines set forth by Bank of America in their letter of authorization dated November 30, 1992. This project was assigned to Morgan Stanley Real Estate Fund L.P. on December 17, 1992. The subject site is referred to as asset number 072100 and is reported by Ms. Peg Barton, Hotel manager to have been constructed in approximately 1985 and to be owned by the Emeryville Days Limited Partnership.

1.3 Scope of Work

The Scope of Work included:

- An on-site inspection of the property;
- Identification and inspection of adjacent and nearby properties;
- A review of historical aerial photographs;
- A review of available agency records; and
- A cursory visual asbestos assessment.

The objective of the property inspection was to provide a visual assessment of all elements of the site which could potentially result in environmental impacts and to look for physical evidence of potential contamination.

Also included in the Scope of Work is the agency record search. The objective of this search was to obtain available information regarding the subject property. In addition, agency records give an indication of the environmental status of the surrounding properties in the vicinity of the site.

2.0 GENERAL SITE CHARACTERISTICS

2.1 Location

The subject site is located on the southwest corner of Powell Street and Shellmound Street in the City of Emeryville, Alameda County, California. The subject site is approximately 1.58 acres in area. The property is located approximately 0.2 miles east of San Francisco Bay. A location map is shown on Figure 1.

2.2 Adjacent Properties

The general land use of the surrounding area is commercial and industrial. The Good Guys electronics store and a Sherwin-Williams paint distributor were observed to the north, across Powell Street. Vacant land was observed to the northeast of the subject site. Kerr Dental Products, Bashland Builders, and the Power Machine Company were observed to the east of the subject site, across Shellmound Street. An office building/warehouse was observed to the southeast of the subject site. Businesses located there included: Weiss Associates; Image Chrome, Inc.; A.L. Williams; A.D.F. Develco; and Morgan Southern, Inc. A Lyons restaurant was observed to the south of the subject site. The Powell Street Plaza was observed to the west of the subject site. Major retailers located in this plaza included: Circuit City, an electronics store; New York Fabrics; Copeland's Sporting Goods; and Ross Stores. Several smaller retailers are located in the plaza. A BP service station was observed to the northwest of the subject site.

2.3 Site Description

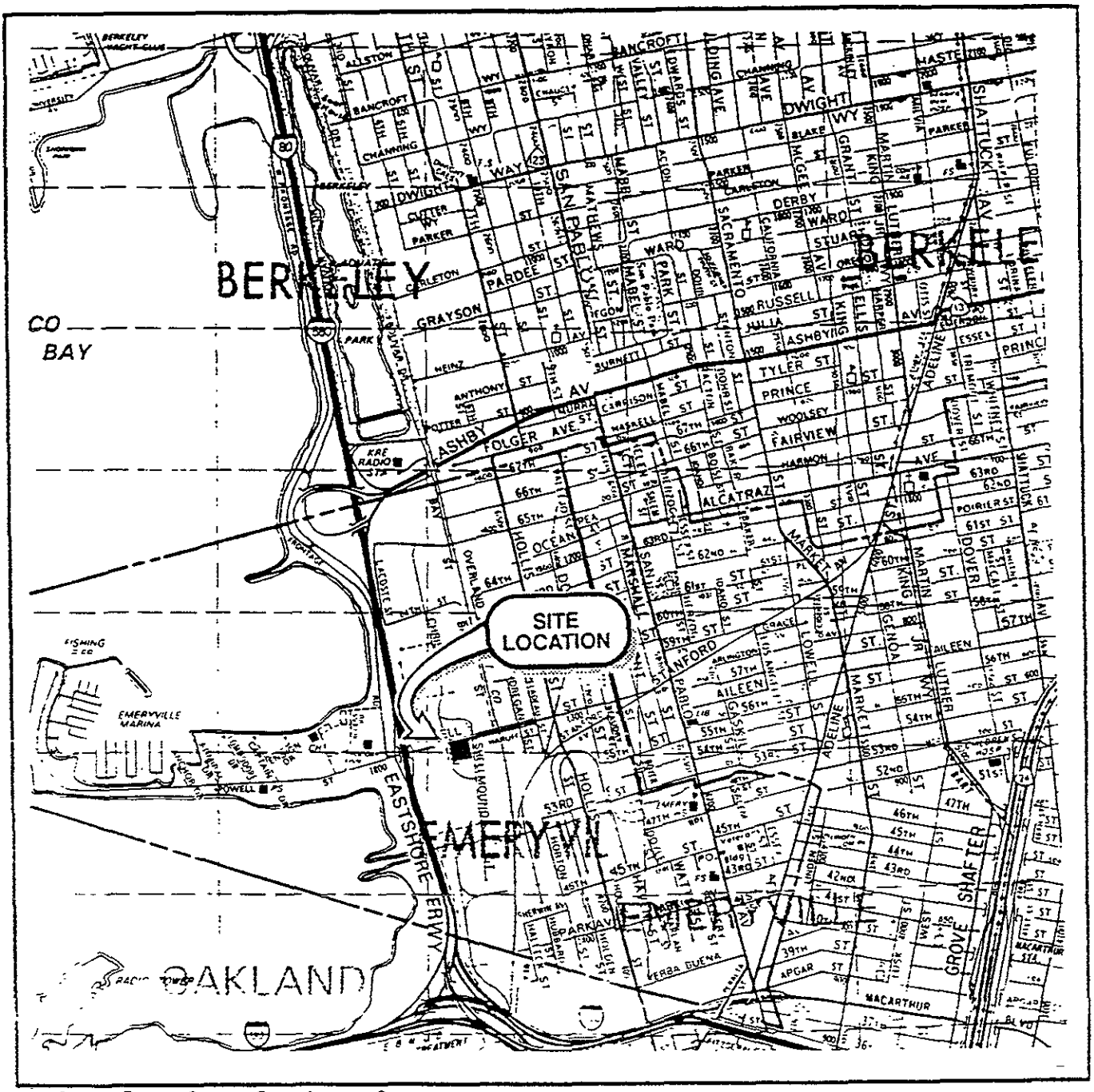
The property is occupied by the seven-story, 154-room, Days Inn Hotel and adjoining Days Cafe. Facility square footage is not known. The hotel is very well maintained and no signs of stressed or strained vegetation was noted. According to Mr. Eric Carbon, Facility Engineer, the building was constructed in approximately 1985. The restaurant was constructed in approximately 1988.

3.0 ENVIRONMENTAL SETTING

3.1 Regional Physiographic

The subject site is located on the northern edge of the Emeryville industrial area. The general area is undergoing a redevelopment from industrial to light-industrial/ commercial/retail. The topography of the area is characterized as flat. The terrain slopes gradually to the west. According to the U.S. Geological Survey 7.5 Minute Topographic Map of Oakland West, California which was printed in 1959 and photorevised in 1980, the subject site is located at approximately 10 feet above sea level. The general land use of the surrounding area is light-industrial, commercial, and retail.

FIGURE 1
SITE LOCATION MAP
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



Map Source: Thomas Brothers Guide Alameda County

McLaren Hart

3.2 Soil Conditions

Based upon Sanborn Fire Insurance Map review, the subject site was identified as being part of San Francisco Bay in approximately 1912-1913. McLaren/Hart assumes that the subject site is constructed on fill material. According to the Soil Conservation Service, no soil survey has been conducted for this portion of Alameda County.

3.3 Geological Conditions

The property is located west of the Hayward Fault on the Berkeley Alluvial Plain of the East Bay Plain Area. Uplift of the bedrock on the eastern side of the fault occurred approximately one million years ago and resulted in the formation of the East Bay Hills to the east. Soils beneath the Emeryville area were deposited by streams as alluvium eroded from the hills and as tidal flat and tidal channel deposits of San Francisco Bay. These native soils are referred to as the "older alluvium" and "bay mud".

Artificial fill material overlies the native "bay mud" and "older alluvium" deposits over approximately one-third of the land area of Emeryville. The fill was imported and emplaced in order to extend the shoreline of Emeryville to the west.

3.4 Groundwater Conditions

Surficial groundwater at the subject site is expected to occur at depths ranging from three to nine feet below grade and flows west towards San Francisco Bay. It is likely that shallow groundwater in the area will be subject to tidal influence.

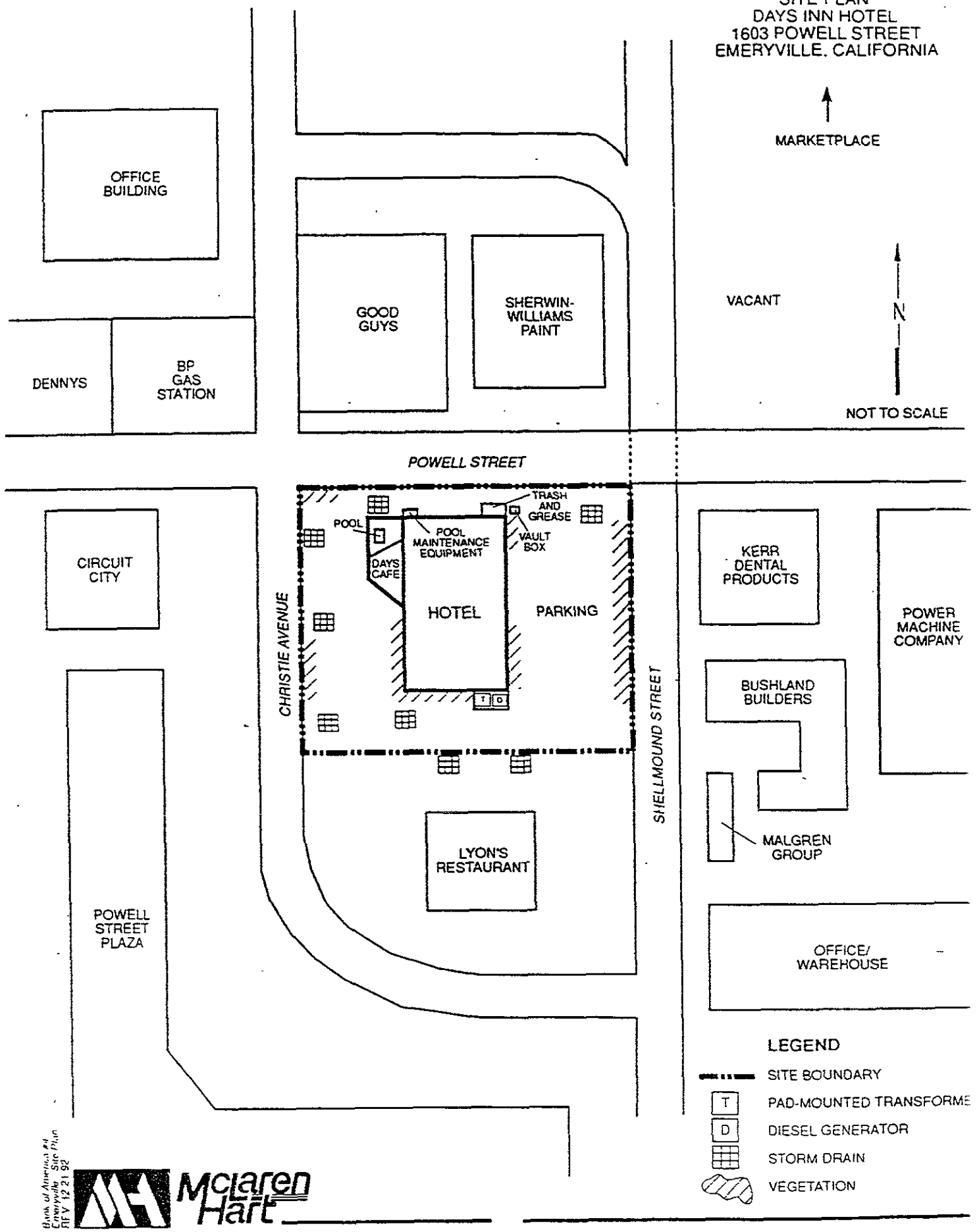
4.0 RESULTS OF INVESTIGATION

4.1 Site Inspection Observations

The site was visually inspected on December 11, 1992. The property and surrounding areas were inspected for evidence of chemical usage, storage, handling, treatment, and disposal. This involved walking the site and inspecting the property for the presence of debris, stains, liquid cooled transformers, and maintenance areas. A site plan is included as Figure 2. Photographs taken during the site visit are included as Appendix I.

The exterior of the facility was surrounded by landscaping. No stressed or strained vegetation was observed at the time of inspection. Landscaping is conducted by D & H Landscaping of Berkeley, California. At least seven storm drains (and possibly two additional storm drains (as it was difficult to delineate the exact property boundary with respect to the adjacent Lyon's Restaurant to the south) were observed at the subject site. The storm drains appeared to be clear and free of subsidence. Three air conditioning units were observed on the south side of the building in a locked enclosure. One pad-mounted transformer and a diesel generator were observed adjacent to the air conditioning units. No staining was observed beneath any of the aforementioned apparatus. According to Mr. Eric Carbon, Facility Engineer, an approximately 500-1000 gallon underground fuel storage tank is located beneath the concrete slab where the

FIGURE 2
SITE PLAN
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



Bank of America #4
Emeryville - Site Plan
RFV 12 21 92

McLaren Hart

diesel generator is situated. Mr. Carbon indicated that the diesel generator is started monthly. According to Mr. Carbon no permits are on file with the Alameda County Water District, no tank integrity tests have been performed, and no monitoring of fuel is conducted. Mr. Carbon periodically fills the fuel tank.

According to Mr. Carbon electricity and natural gas service is provided by Pacific Gas and Electric Company, and water and sewer services are provided by the East Bay Municipal Utility District.

The parking areas surrounding the building exhibited minor staining typically associated with automobile usage.

The first floor of the subject site includes the hotel lobby, Days Cafe, offices, laundry room, maintenance areas and meeting rooms. The laundry room, consisting of three industrial washing machines and three industrial dryers, discharges wastewater directly to the storm sewer. Approximately three gallons of Aqua-Soft cleaner were observed in the laundry room. The maintenance room/workshop contained approximately five gallons of Zep-clean for coils (used for the heating, ventilation and air conditioning units, HVAC); approximately 30 gallons of water-based paints; approximately 16 gallons of chlorine and ½-gallon of muriatic acid (used for the pool); approximately 15 gallons of degreasers; and minor amounts of various spay lubes, cleaners, coatings, waxes, etc. The electrical/telephone switching room contained wall mounted electrical panels and air-cooled transformers and telephone switching equipment. The HVAC room contained gas furnaces with fiberglass-wrapped piping. The kitchen of the Days Cafe was observed to be clean. A grease trap was observed in the floor of the kitchen. According to Mr. Carbon, the grease trap is emptied on an as-needed basis and the grease solids are picked-up by Independent Renderers of Oakland, California. No staining was observed in any of these areas.

Each floor contains a vending machine common area and an electrical/storage closet. No staining was observed in any of these areas.

The roof of the facility was constructed of tar and gravel and was observed to be in good condition at the time of inspection. The elevator maintenance area was observed on the roof and contained the electric pulleys and switching panel. Schindler Elevator conducts elevator maintenance on a monthly basis. No staining was observed in this area.

The trash dumpster and grease dumpster were located in an enclosed area located on the north side of the building. Trash is picked-up by Oakland Scavenger. Minor staining was observed in this area.

Pool maintenance equipment was observed on the north side of the building. No staining was observed in this area.

4.2 Adjacent Site and Vicinity Observations

The subject site is located in an area that consists of industrial, commercial, and retail land uses. Light-industrial land uses were observed to the immediate east and southeast of the subject site. A BP service station was observed across Powell Street, northwest of the subject site.

4.3 Results of Regulatory Agency List Review and File Research

McLaren/Hart personnel reviewed the following lists for information on potential environmental impacts of nearby sites to the subject property:

- San Francisco Bay Regional Water Quality Control Board (RWQCB): Leaking Underground Storage Tanks List, Alameda County, September 1992;
- RWQCB North Bay Toxics List, February 1992;
- California Environmental Protection Agency (Cal-EPA): Bond Expenditure Plan (BEP) Sites, State Superfund List, January 1990;
- Environmental Protection Agency (EPA): Comprehensive Environmental Response, Cleanup and Liability Information System (CERCLIS) list of June 1991;
- Governor's Office of Planning and Research: Hazardous Waste and Substance Sites List, pursuant to AB 3750 (Cortese), September 1990;
- California Waste Management Board (CWMB): "Solid Waste Information System (SWIS)", Active Landfills List, Closed and Inactive Landfills List, and Transfer Stations List of October 1991;
- EPA: National Priority List (NPL), Federal Superfund List, of September 1990;
- California Environmental Protection Agency (Cal-EPA): Abandoned Sites Program Information System (ASPIS) List, January, 1990;
- Bay Area Air Quality Management District (BAAQMD), Toxic Air Contaminant Emission Inventory For the San Francisco Bay Area, April 1990; and
- Cal-EPA: Calsites List of Active Annual Workplan Sites, October 1992.

The Alameda County Department of Health Services has been contacted regarding those sites identified within a 1/4-mile radius of the subject site, and hydraulically upgradient of the subject site such that they have the potential to impact soil and/or groundwater at the subject site. To date, no information has been obtained. If information becomes available which indicates adverse impacts the subject site, an addendum letter will be sent.

4.3.1 RWQCB Fuel Leaks List

The RWQCB Fuel Leaks is a list of sites which are known to the RWQCB to have experienced a release of petroleum compounds to soil and/or groundwater. The List identified thirteen sites with leaking underground fuel storage tanks within one-half mile of the subject site. The sites are listed in Table 1. The files for the sites which are hydraulically upgradient of the subject

TABLE 1

LISTED SITES WITHIN ONE-HALF MILE RADIUS OF 1603 DEWELL, EMERYVILLE, CALIFORNIA

Site Name	Address	Distance	Direction	Fuel Leak List	Toxics/ North Bay List	SWIS List (Active or Inactive)	CERCLIS List	NPL List	BEP List	CORTESE List	ASPIS List	Air Toxics List	Cal-Sites List
Westherford BMW	5903 Christie Avenue	.15	N	X						X			
Felix Tank Excav. Site	6202 Christie Avenue	.25	N	X									
Emeryville Market Place	6425 Christie Avenue	.35	N	X									
Chiron	4300 Eastshore Hwy	.5	S	X									
P.I.E. Nationwide Property	5500 Eastshore Hwy	.1	SW	X	X		X			X			
Hollis Street Project	6050 Hollis Street	.3	NE	X						X			
Schwabacker - frzy	5733 Pelledeau Street	.25	E	X						X			
BP Oil/Mobil	1700 Powell Street	.05	W	X						X			
Shell	1800 Powell Street	.15	W	X						X			
Judson Steel	Shellmound Street	.4	S	X						X			
Pfizer Pigments, Inc.	4650 Shellmound Street	.15	S	X			X			X			
A & J Trucking, Inc.	5600 Shellmound Street	.2	S	X									
Nielson Property	5800 Shellmound Street	.05	E	X						X			
Another Tree Development	South of Marketplace	.05	E		X								
Chevron Asphalt Plant & Terminal - A.K.A - American Bitumens & Asphalt	1520 Powell Street	.1	E		X		X						
Chevron Emeryville Terminal	Corner Landregan & Powell	.2	E		X								
Emeryville Redevelopment Agency	64th & Bay Street	.4	NE		X								
Garrett Freight Lines	64th & LaCosta	.35	NW		X								
Marketplace (Martin Co)		.1	NE		X						X		
Westinghouse Electric Corp.	5899 Pelladeau	.2	E		X		X			X			
Capital Ref Co.	Foot of 64th Street	.3	NW				X						

TABLE 1

LISTED SITES WITHIN ONE-HALF MILE RADIUS OF 1603 DEWELL, EMERYVILLE, CALIFORNIA

Site Name	Address	Distance	Direction	Fuel Leak List	Toxics/ North Bay List	SWIS List (Active or Inactive)	CERCLIS List	NPL List	BEP List	CORTESE List	ASPIS List	Air Toxics List	Cal-Sites List
Industrial Hard Chrome	5701 Hollis Street	.3	E				X						
Pacific Gas & Electric	4525 Hollis Street	.5	SE				X		X	X			
Mike Roberts Color Producting	6707 Bay Street	.6	N				X						
Michel & Pelton	5743 Landregan Street	.2	E				X			X			
Holiday Inn	1800 Powell Street	.25	W							X			
Fisher Berkeley Corp.	5800 Christie Street	.05	W								X		
Sybron / Kerr	5770 Shellmound Street	.05	E								X		
Vacu-Dry Company	5801 Christie Street	.05	W								X		
Barbary Coast Steel Corp.	4300 Eastshore Hwy	.5	S									X	
Graphic Coating Co.	6355 Hollis Street	.4	NE									X	
Myers Container Corp. (Myers Drum)	4600 Shellmound Street	.45	S						X			X	X
Boyd's Body Shop	1245 Powell Street	.35	E									X	

site and/or of close proximity such that they have potential to impact the soil and/or groundwater at the subject site were reviewed at the RWQCB offices in Oakland, CA. The subject site was not identified on this list.

4.3.1.1 BP Oil/Mobil

The file for the BP Oil/Mobil service station, located at 1700 Powell Street, 0.05 mile west of the subject site indicated that one 550-gallon waste oil tank was removed and replaced in May 1989. Initial soil samples collected from the waste oil pit indicated 340 mg/kg (milligrams per kilogram or parts per million, ppm) total oil and grease (TOG); 9.6 ppm total petroleum hydrocarbons as gasoline (TPH/g); and 27 ppm total petroleum hydrocarbons as diesel (TPH/d). No information regarding the past or current number of underground fuel storage tanks at the BP Site was included in the file.

Three groundwater monitor wells were proposed to be installed at the site in May 1989. No information regarding installation or sampling was observed in the file. No other information was observed in the file. This site is located downgradient of the subject site, however it is possible that groundwater contamination form this site could impact the subject site. No determination can be made without additional data.

4.3.1.2 Neilson Property

No file was available at the RWQCB for the Neilson Property, located at 5800 Shellmound Street, approximately 0.05 mile east of the subject site. The Alameda County Department of Health Services, Environmental Health Division was contacted regarding this site. To date, no information has been obtained. If such information becomes available which indicates adverse impacts to the subject site, an addendum letter will be sent.

4.3.1.3 P.I.E. Nationwide

The file for P.I.E. Nationwide, located at 550 Eastshore Highway, indicated that one underground waste oil tank and an unspecified number of underground fuel tanks were removed in July 1986. Initial soil samples indicated chemical concentrations as high as 47,000 ppm TOG, and 6,600 ppm total petroleum hydrocarbons. Additional soil and water sampling conducted in September 1986, indicated chemical concentrations up to 16,000 ppm total fuel hydrocarbons (TFH) in soil; up to 3,200 ppb TFH in water; and up to 77,000 ppb benzene in water.

An oil recovery system was installed in approximately 1988 and was allowed to discharge up to 5,760 gallons of treated water per day into the storm sewer system. Additionally, in-situ remediation of contaminated soil was conducted at this site.

Soil sampling conducted in May 1989 indicated maximum chemical concentrations of 1,000 ppm for arsenic; 51,000 ppm for barium; 59,000 ppm for chromium; 28,000 ppm for lead; 280 ppm for mercury; and 2,300 ppm for selenium.

Eighteen monitor wells are located on or in the vicinity of the subject site. Groundwater at the subject site was encountered at approximately nine feet below grade, and groundwater flow has been historically documented to flow to the west.

As of March 1988, the groundwater contaminant plume at the site had been defined to the north, east, and south. The plume had not been defined to the west. Additionally, as of March 1988 contamination had not migrated off-site to the north. This site is located downgradient of the subject site, however it is close enough that it could potentially impact the subject site.

4.3.2 RWQCB North Bay Toxics List

The North Bay Toxics List is a list of sites which are known to the RWQCB to have experienced a release of toxic chemical compounds to soil and/or groundwater. Eight sites were identified on the North Bay Toxics List within a one-half mile radius of the subject site, and are listed on Table 1. The files for the sites which are hydraulically upgradient of the subject site and/or of close proximity such that they have potential to impact the soil and/or groundwater at the subject site were reviewed at the RWQCB offices in Oakland, CA. The P.I.E. Nationwide site is discussed in the Fuel Leaks section above. The subject site was not on the list.

4.3.2.1 Another Tree Development Corporation

The file for Another Tree Development Corporation (ATDC), east of Shellmound Street and north of Powell Street, approximately 0.05 mile east of the subject site, indicated that previous studies of the subject site and immediate surrounding area (mainly to the north) identified metal contamination (copper, lead, mercury, zinc) above total threshold limit values (TTLC) in soil. Asphalt-like material was discovered on the northernmost portion of the site.

In August 1990, the Alameda County Department of Health Services, Environmental Health Division approved a proposal to remove approximately 150 cubic yards of metal contaminated soil, and leave in-place approximately 2,600 cubic yards of asphalt-like material. Additionally, three groundwater monitor wells were approved for installation. No information regarding any of the above mentioned actions was observed in the file. No other information was observed in the file.

This site is located slightly crossgradient to the subject site. There is no information which indicates that groundwater at this site has been impacted, and soil appears to have been remediated. Therefore, this site is not expected to impact the subject site.

4.3.2.2 Chevron Asphalt Plant and Terminal

No file was available at the RWQCB for the Chevron Asphalt Plant and Terminal, located at 1520 Powell Street, approximately 0.1 mile east of the subject site. The Alameda County Department of Health Services, Environmental Health Division was contacted regarding this site. To date, no information has been obtained. If such information becomes available which indicates adverse impacts to the subject site, an addendum letter will be sent.

4.3.3 Bond Expenditure Plan (BEP) List

The Bond Expenditure Plan (BEP) List is a list of contaminated sites for which State of California Superfund monies have been assigned for overseeing or implementing investigation and remedial actions. Two sites within a one mile radius of the subject site were identified on the BEP List, and are listed on Table 1. The subject site was not identified on this list. The listed sites, Pacific Gas and Electric, located at 4525 Hollis Street and the Myers Drum site, located at 4500 Shellmound Street, are located at a sufficient distance from the subject site and are situated crossgradient to the subject site such that impact to the subject site is not likely.

4.3.3.1 Myers Drum

The Myers Drum site, located at 4500 Shellmound Street, approximately 0.45 mile south of the subject site, is a drum recycling facility, and the CAL-EPA Toxic Substances Control Program, Surveillance and Enforcement Unit identified periodic, "massive" releases of hazardous wastes at the site due to poor housekeeping practices. Contaminants at the site include: lead, chromium, and zinc; volatile organic compounds; and semi-volatile organic compounds. No chemical concentration levels were provided in the documentation reviewed. The Remedial Investigation/ Feasibility Study for this site is due by February 1995, with implementation by February 2000.

4.3.3.2 Pacific Gas and Electric

The Pacific Gas and Electric site, located at 4525 Hollis Street, approximately 0.5 mile southeast of the subject site, is a materials distribution center. The site, used as a warehouse, repair shop and storage yard for transformers, capacitors and other electrical supplies, has been in operation since the 1920s. A tank farm for the storage of fuel and transformer oil is also present at the site. Contaminants identified at the site include heavy metals in groundwater, and polychlorinated biphenyls (PCBs) in soil. No chemical concentration levels were provided in the documentation reviewed. The Remedial Investigation/Feasibility Study for this site is reported to have been completed, with implementation by February 1989. The status of clean-up activities is not known.

These sites are located at sufficient distance from the subject site and are situated crossgradient to the subject site such that impact to the subject site is not likely.

4.3.4 CERCLIS List

The Comprehensive Response, Cleanup, and Liability Information System (CERCLIS) List is a historical database list of contaminated sites which the EPA has or will evaluate to determine whether a particular site merits placement on the National Priorities List (NPL). Nine sites within a one mile radius of the subject site were identified on the CERCLIS List, and are listed on Table 1. The Alameda County Department of Health Services, Environmental Health Division was contacted regarding the Chevron Asphalt Plant and Terminal, previously located at 1520 Powell Street, 0.1 mile east (upgradient) of the subject site. To date, no information has been obtained. If information becomes available that indicates potential to impact the subject site, such information will be forwarded.

The remainder of the sites are located at sufficient distance from the subject site and/or are situated crossgradient and/or downgradient such that impact to the subject site is not likely. The subject site was not identified on this list.

4.3.5 Cortese List

The Governor's Office of Planning and Research (Cortese) List is a historical database list of sites which are known to the State of California to have either soil or groundwater contamination. Thirteen sites within a one-half mile radius of the subject site are listed on the Governor's Office of Planning and Research (Cortese) List. These sites are listed in Table 1. One site identified on the Cortese List which was not shown on the RWQCB Fuel Leak list, was Michel and Pelton, located at 5743 Landregan Street, approximately 0.2 mile east of the subject site. The Alameda County Health Department, Environmental Health Division was contacted regarding this site. To date, no information has been obtained. If information becomes available that indicates potential to impact the subject site, such information will be forwarded. Two sites with potential to impact the soil and/or groundwater at the subject site were described in the Fuel Leaks section above.

4.3.6 CWMB SWIS Lists

The Solid Waste Information System (SWIS) List is a list of active and inactive landfills, and transfer stations. No sites within a one-half mile radius of the subject site were listed on the CWMB SWIS Active, Closed and Inactive, or Transfer Stations Lists. The subject site was not identified on any of these lists.

4.3.7 EPA NPL List

The National Priority List is a list of contaminated sites which have been assigned for clean-up under the Federal EPA Superfund program. No sites within a one mile radius of the subject site were identified on the EPA National Priorities List. The subject site was not on the list.

4.3.8 Cal-EPA ASPIS List

The Abandoned Site Program Information System (ASPIS) List is a list compiled by the California Environmental Protection Agency of abandoned sites that may have stored and/or handled hazardous materials and/or hazardous waste. The presence of a site on this list does not indicate that contamination exists at a particular site. Three sites were identified adjacent to the subject site, these sites are listed on Table 1. These sites were listed as no further action (NFA) required based upon a drive-by of the facility, a questionnaire, or a combination of both. The subject site was not on the list.

4.3.9 BAAQMD Toxic Air Contaminants List

The Bay Area Air Quality Management District Toxic Air Contaminant Emission Inventory List is a list of sites in the Districts jurisdiction that emit any of over 200 identified toxic air contaminants. The list identified four sites within a one-half mile radius of the subject site. The sites are listed in Table 1. No sites were located within a one-quarter mile radius of the subject site. The subject site was not on the list.

4.3.10 Cal-EPA Calsites Active Workplan Sites

The Cal-EPA Calsites Active Workplan Sites List contains sites which are currently undergoing various stages of investigation and/or remediation under the direction of the Cal-EPA or the RWQCB. One site within a one-mile radius of the subject site was identified on the list, and is listed in Table 1 and discussed in Section 4.3.3. This site, Myers Drum, was discussed in the BEP section above. The subject site was not on the list.

4.4 Results of Site History and Land Use Review

4.4.1 Results of Aerial Photograph Review

Aerial photographs were reviewed at Pacific Aerial Survey in Oakland, CA. Photographs from 1949, 1953, 1959, 1973, 1979, 1985, and 1990 were reviewed. In the 1949 photographs, a warehouse-like structure (identified in the Sanborn Fire Insurance Map as an auto freight depot) was observed in the northeast corner of the subject site. One aboveground storage tank was identified on the southeast corner of the subject site. Discolored soil was observed extending from the depot to the tank. A large industrial complex (identified on the Sanborn Map as the Paraffine Paint Company) was observed to the northeast and north of the subject site. The current buildings located to the east, and southeast of the subject site were observed. Soil piles were observed to the south and southwest of the subject site. A warehouse structure (identified in the Sanborn Map as the Butler Brothers Inc. wholesale floor coverings warehouse) was observed to the west of the subject site.

In the 1953 and 1959 photographs, two aboveground storage tanks were observed on the southeast portion of the subject site. Nine aboveground storage tanks were observed to the northeast of the subject site (where the current Denny's restaurant is located). All other areas remained unchanged from the previous photographs.

In the 1973 photograph, the activities at the subject site appeared to have expanded, extending west from the existing building. The parking lot was observed to be paved. The Powell Street overcrossing was observed to the north of the subject site. The current Good Guys and Sherwin-Williams paint store were observed beyond Powell Street to the north. Vacant land was observed to the northeast of the subject site. A trucking/distribution facility was observed to south and southeast of the subject site. A service station was observed to the northwest of the subject site, beyond which was the current Denny' restaurant. All other areas remain unchanged from the previous photograph.

In the 1985 photograph, the Days Inn Hotel was observed to be in the final stages of construction. Vacant land was observed to the south of the subject site, beyond which was a scaled-down version of the trucking/distribution facility. All other areas remain unchanged from the previous photograph.

In the 1990 photograph, the subject site and surrounding areas were observed as they appeared at the time of the site inspection.

4.4.2 Sanborn Fire Insurance Map Review

Sanborn Fire Insurance Maps were reviewed at the University of California, Berkeley for the years 1912-1913, and 1950. In the 1912-1913 Sanborn Map, the subject site was observed to be part of San Francisco Bay. The Paraffine Paint Company was observed to the northeast of the subject site. A Union Oil of California distribution facility consisting of eight aboveground storage tanks, was observed to the east of the subject site, where the Bushland Builders, Kerr Dental facilities are currently located. A Western Carbonic Acid Gas facility was observed to the southeast of the subject site where the office/warehouse building is located today. San Francisco Bay was observed to the south, southwest, west, northwest, and north of the subject site.

The 1950 Sanborn Map identified the subject site as an auto freight depot. The Paraffine Paint Company was observed to the north and northeast of the subject site. The current Kerr dental facility and Bash Builders facility were observed to the east and southeast. Vacant land was observed to the south and southeast of the subject site. A Butler Brothers Inc. wholesale floor coverings warehouse was observed to the west of the subject site (at the site of the current Circuit City). Nine aboveground storage tanks were observed at the location of the current Denny's restaurant (to the northeast of the subject site).

4.5 Synopsis of Results of Previous Environmental Investigations

No previous environmental assessments of the subject site were provided to McLaren/Hart. McLaren/Hart was provided with a database search which was conducted by Vista Environmental Information, Inc. in May of 1992, the subject property was not identified on any of the databases searched. A copy of the search is included as Appendix II.

4.6 Results of Suspect ACM Observations

The building was constructed in approximately 1985. Suspect ACMs located at the subject site include one type of 12" x 12" vinyl floor tile located in first floor laundry and maintenance areas, in the Days Cafe kitchen, and in the vending machine area of floors 2-7; 12" x 12" ceiling tile located throughout the first floor; 2' x 4' ceiling tile located in the employee break room; sprayed-on fireproofing located above the dropped ceiling in the Days Cafe; sprayed-on fireproofing applied to the ceilings in floors 2-7; and sheetrock, tape and joint compound. Roofing tar was also observed on the roof of the facility. All of these materials were observed to be in good condition at the time of inspection.

4.7 Alameda County Department of Health Services, Environmental Health Division

Mr. Brian Oliva of the Alameda County of Health Services, Environmental Health Division, indicated that his office has no record of an underground fuel storage tank being located at the subject site.

4.8 Pacific Gas and Electric

A representative of Pacific Gas and Electric Company indicated that the pad-mounted transformer located at the subject site is owned by Pacific Gas and Electric and is certified to be free of polychlorinated biphenyl (PCB) containing oils.

5.0 CONCLUSIONS

1. No evidence of any chemical releases to the environment were observed during the inspection of the subject site. Minor amounts of maintenance and cleaning supplies were observed in the maintenance room. These materials are not expected to cause subsurface impacts.

   One underground fuel storage tank was identified at the subject site. According to Mr. Eric Carbon, Facility Engineer, no permits for the fuel storage tank are maintained at the Days Inn Hotel. Additionally, no tank integrity tests have been performed, and no monitoring of fuel is conducted. Mr. Brian Oliva of the Alameda County Department of Health Services, Environmental Health Division indicated that his office has no records regarding the underground storage tank located on-site.

2. Historic aerial photographs of the subject site identified two aboveground fuel storage tanks situated on the southeast portion of the subject site from prior to 1949 until sometime between 1959 and 1973. Contents of these tanks are unknown. The site was described on a 1950 Sanborn Map as an auto freight depot.

3. A review of state and federal agency records did not identify any known chemical releases on the subject site.

   Several sites were identified on state and federal agency records within a one-half mile radius of the subject site. Documentation regarding these sites is not conclusive, however, the vicinity of the subject site is an old, industrial area, and between the historic uses and currently documented releases it is possible that groundwater beneath the subject site has been impacted.

6.0 LIMITATIONS

This assessment excluded any physical sampling, laboratory analysis, or hydrogeologic site characterization. It should be noted that the property investigations performed hereunder should not be construed to be complete characterizations of overall environmental regulatory compliance, or of conditions above or below grade. McLaren/Hart has assumed that the information sources utilized for this investigation provided complete and accurate information; however, regulatory files are often difficult to access and incomplete, particularly in regard to historical data. Any reliance by Morgan Stanley or Bank of America shall be consistent and in keeping with the limitations expressed herein, and subject to project work scope and time limitations.

The work performed hereunder is consistent with the standards of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. It is McLaren/Hart's opinion that the environmental assessment performed and reported herein provides an appropriate degree of confidence to preliminarily determine if there is evidence to suggest that significant environmental concerns exist on the property. No other representation, expressed or implied, and no warranty or guarantee is included or intended in this Report, or any opinion, document or otherwise.

7.0 REFERENCES

7.1 Published References

- San Francisco Bay Regional Water Quality Control Board (RWQCB): Leaking Underground Storage Tanks List, Alameda County, September 1992;
- RWQCB North Bay Toxics List, February 1992;
- California Environmental Protection Agency (Cal-EPA): Bond Expenditure Plan (BEP) Sites, State Superfund List, January 1990;
- Environmental Protection Agency (EPA): Comprehensive Environmental Response, Cleanup and Liability Information System (CERCLIS) list of June 1991;
- Governor's Office of Planning and Research: Hazardous Waste and Substance Sites List, pursuant to AB 3750 (Cortese), September 1990;
- California Waste Management Board (CWMB): "Solid Waste Information System (SWIS)", Active Landfills List, Closed and Inactive Landfills List, and Transfer Stations List of October 1991;
- EPA: National Priority List (NPL), Federal Superfund List, of September 1990;

- Cal-EPA: Abandoned Sites Program Information System (ASPIS) List, January, 1990;
- Bay Area Air Quality Management District (BAAQMD), Toxic Air Contaminant Emission Inventory For the San Francisco Bay Area, April 1990; and
- California Environmental Protection Agency (Cal-EPA): Calsites List of Active Annual Workplan Sites, October 1992.

7.2 Agencies Contacted

The following agency people were contacted concerning the subject site:

- Alameda County Department of Health Services, Environmental Health Division, was contacted regarding file review;
- San Francisco Bay Regional Water Quality Control Board - was visited to review files of leaking fuel tank sites; and
- Pacific Gas and Electric.

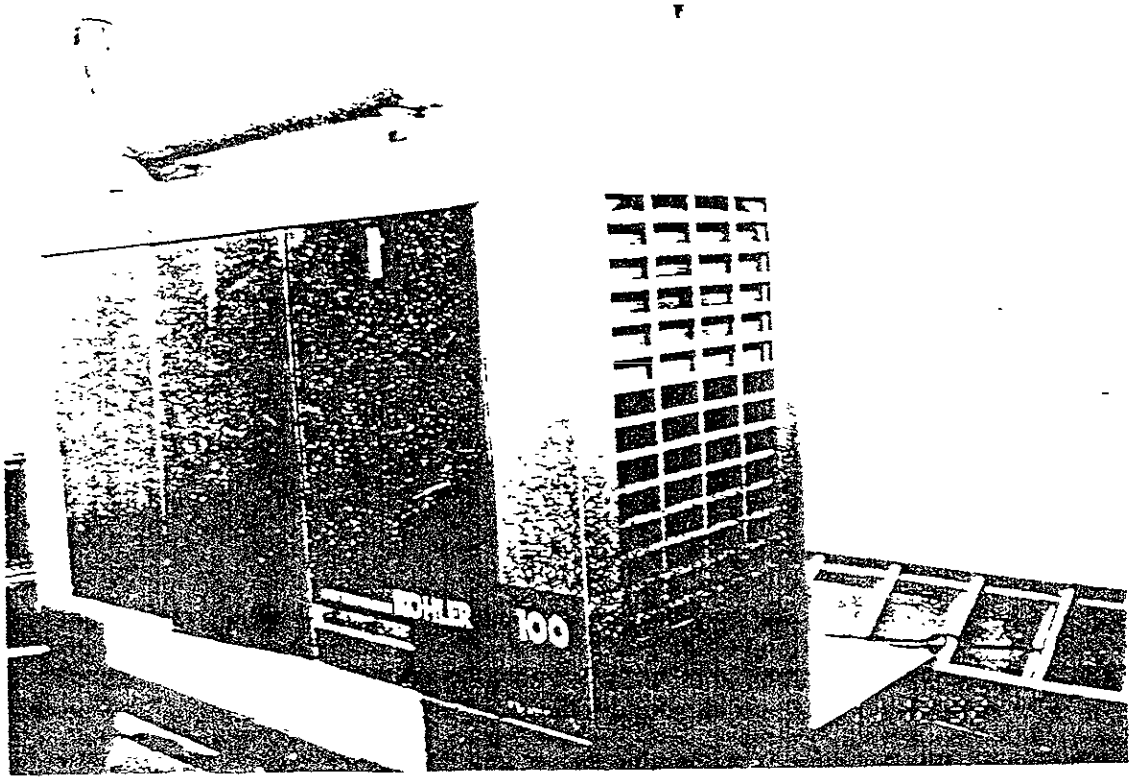
7.3 Map, Aerial Photo and Other Geographic References

- U.S. Geological Survey, 7.5 Minute Topographic Map - Oakland West, California, 1980; and
- Pacific Aerial Surveys, Oakland, California.

APPENDIX I

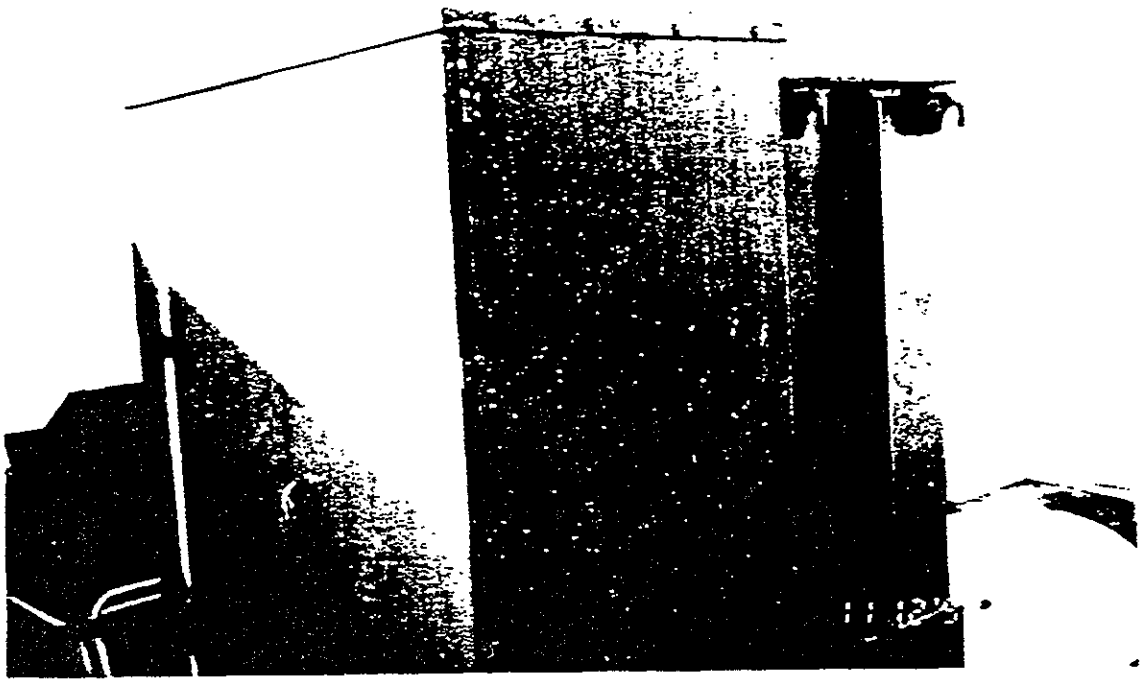
SITE PHOTOGRAPHS

Days Inn Hotel, east side.

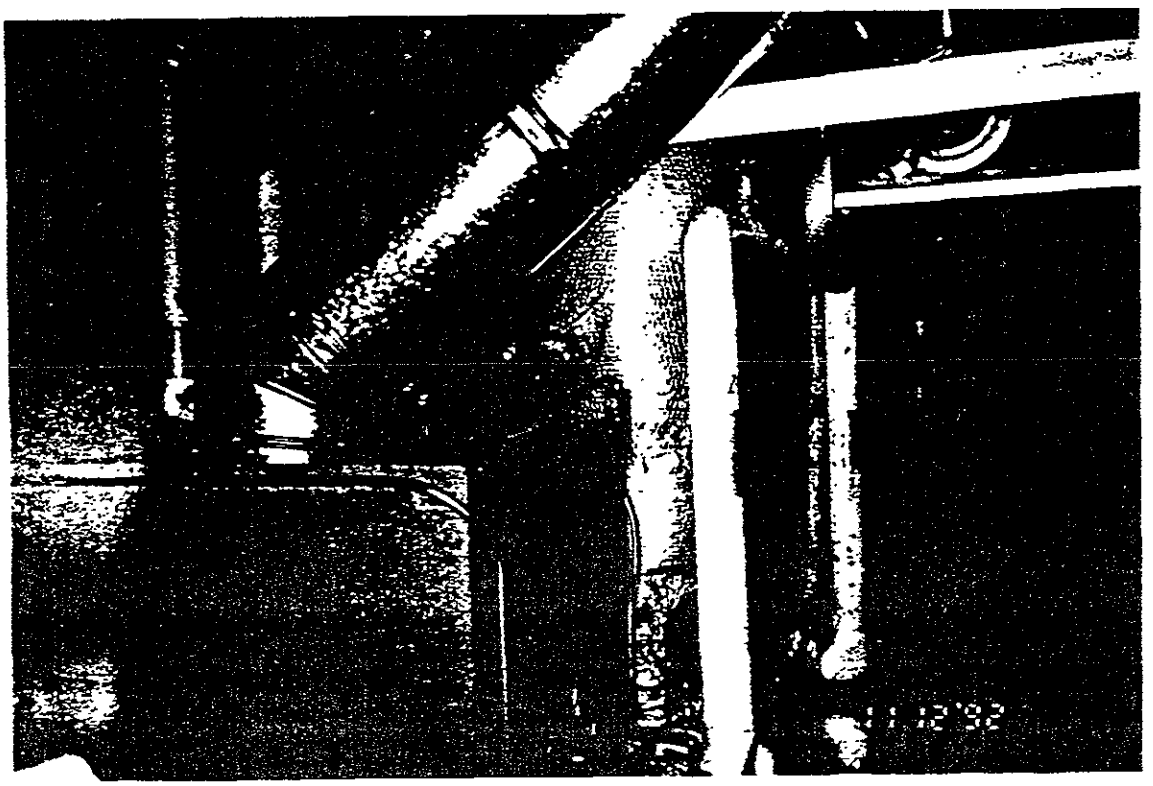


Diesel generator, south side of building.

McLaren Hart

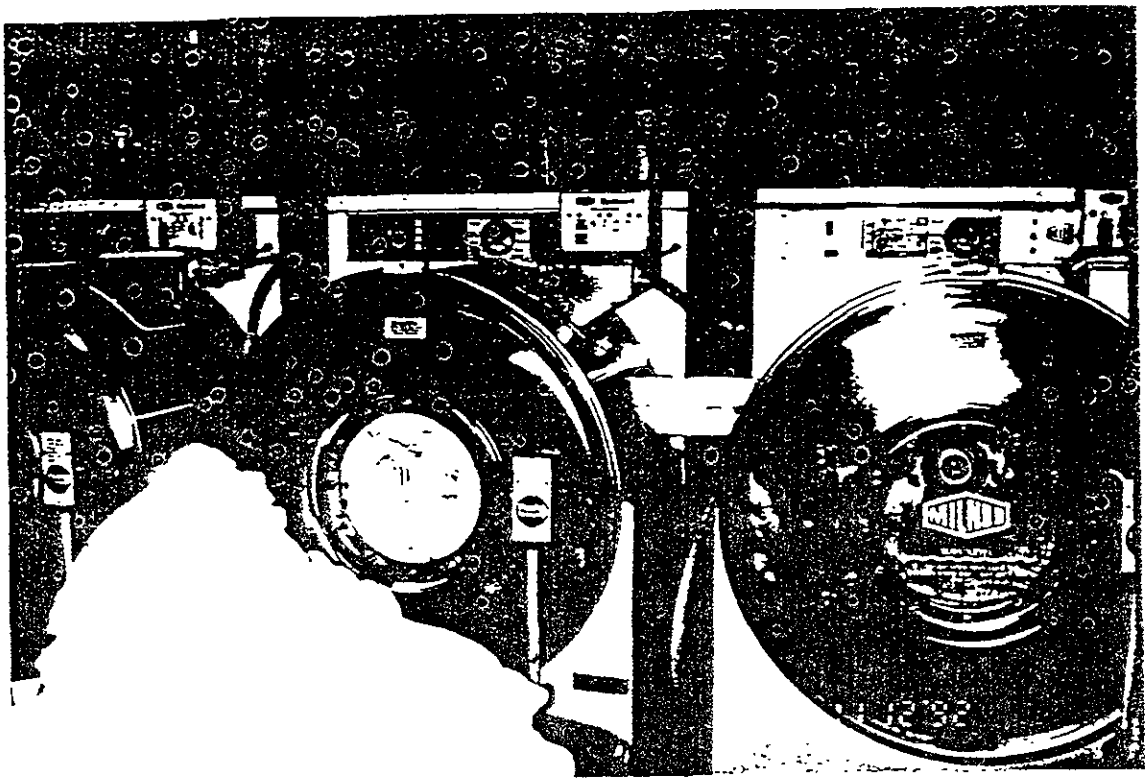


Pad-mounted transformer, south side of building.

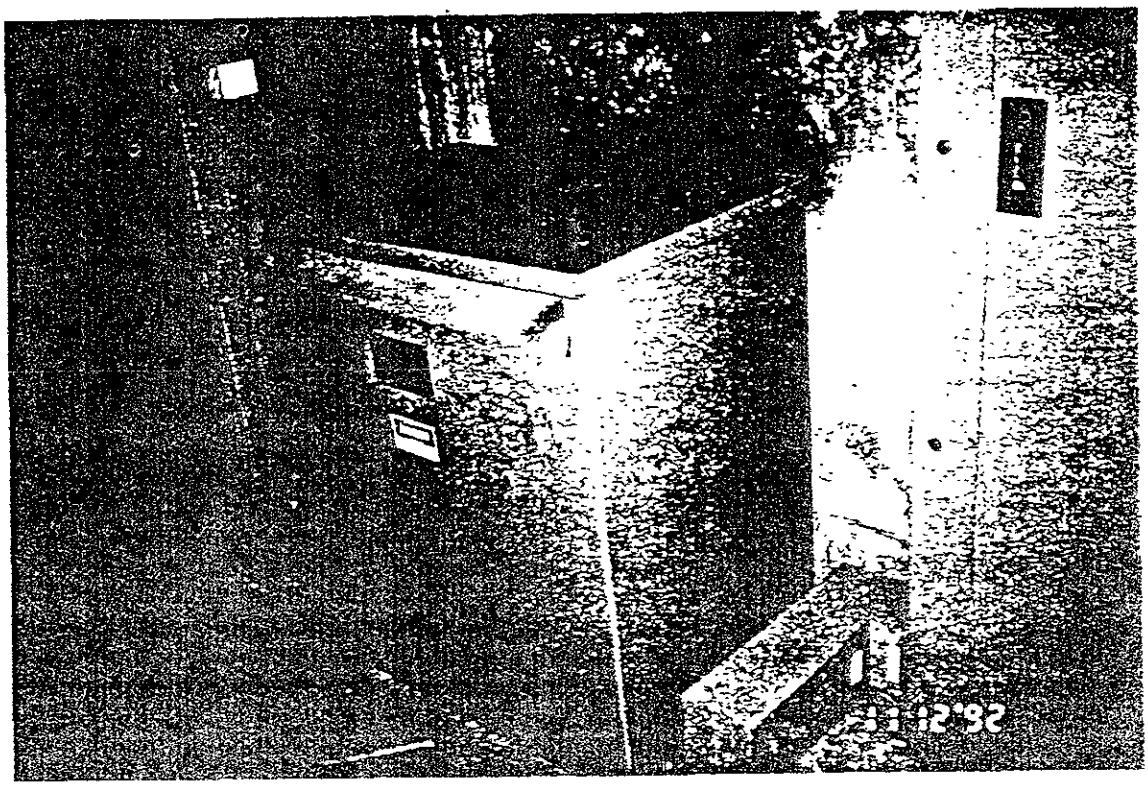


Gas furnace. HVAC room.

McLaren Hart



Industrial washing machines.



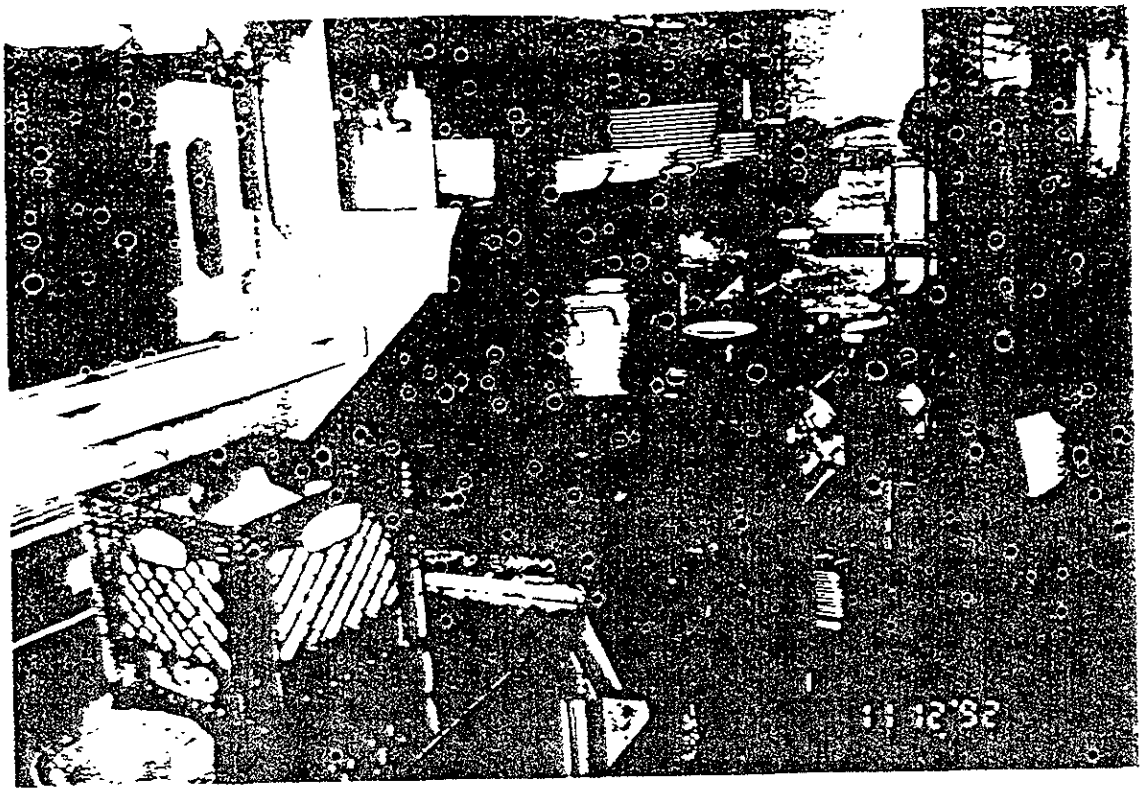
Dry-type transformer, electrical/telephone room.

McLaren Hart

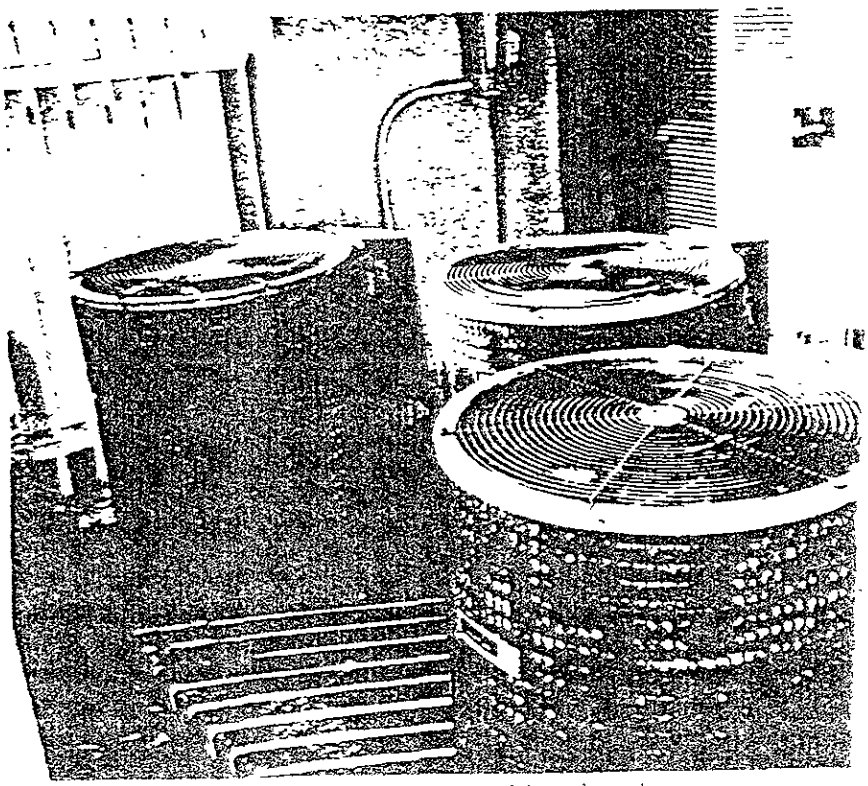
Chlorine, maintenance shop.

Chemical storage, maintenance shop.

McLaren Hart



Kitchen, Days Inn Cafe.



Air conditioning unit, south side of building

APPENDIX II

VISTA ENVIRONMENTAL INFORMATION, INC.
DATABASE SEARCH

COMPUTER DATABASE SEARCH

The attached information was generated by Vista Environmental Information, Inc. under direct contract to Bank of America. The site was subjected to a computer database search of environmental regulatory agency records in the Vista database for the specific site for indications of contamination that may affect the property. In addition, major contaminated sites in the vicinity of the property (Federal and State Superfund and landfills in Zip code area) in the Vista database were identified. The consultant is encouraged to use this information in the performance of the Phase I ESA. However, the consultant must use his/her own judgement concerning the sufficiency of the information in satisfying the regulatory review aspects of the specific Phase I ESA for the subject property.

VISTA ENVIRONMENTAL PROFILE

SUMMARY BUSINESS PROFILE

Facility: Days Inn - Emeryville
1603 Powell Street
Emeryville , CA

Asset #: 72100

Date of Report: 4/20/92

GENERAL COMMENT

A search of the VISTA Environmental Database has found no environmental permits or licenses issued to this facility, and no reported hazardous spills or releases at this site. The following agencies were searched:

AGENCY	DATABASE	TYPE OF RECORD
:US EPA	NPL	Fed Superfund Site
:US EPA	CERCLIS	Potential Superfund Site
:State	NPL Equiv.	Potential Superfund Site
:State	LUST	Leaking Underground Stor. Tank Site
:State	Solid Waste	Sanitary Lndfl/Incin'tor/Trnsfr Stn
:US EPA	TRIS	Toxic Chemicals used at Site
:State	SARA III	Toxic Chem. Reported under SARA III
:US EPA	CICIS	Listed as Producing Chem. as of 1981
:US EPA	PCS	Site with NPDES Water Dischg. Permit
:State	PCS Equiv.	Site with State Water Dischg. Permit
:US EPA	CDS AIRS	Produces Hazardous Air Emissions
:State	AIRS Equiv.	Produces Hazardous Air Emissions
:US EPA	RCRA/HWDMS	Hazardous Waste Generator
:State	HWDMS Equiv.	Hazardous Waste Generator
:US EPA	RCRA/HWDMS	Treatment, Storage, or Disposal Facility
:US EPA	RCRA/HWDMS	TSD Using Undergrnd. Injection
:US EPA	RCRA/HWDMS	TSD Commercially Handling Haz. Waste
:US EPA	RCRA/HWDMS	Transports Hazardous Waste
:US EPA	RCRA-J	Medical Waste Handler
:US EPA	FRDS	Operates a Pub. Drinking Water Sys.
:US EPA	ERNS	Spill Site
:DOT	Hazmat	Transportation Spill Site
:State	Spills	Spill Site
:State	UST	Utilizing Underground Stor. Tanks

LIMITATIONS OF INFORMATION

APPENDIX B

RESULTS OF THE SOIL AND GROUNDWATER SAMPLING AND ANALYSIS CONDUCTED AT THE DAYS INN HOTEL 1603 POWELL STREET EMERYVILLE, CALIFORNIA

May 27, 1993

Prepared for:

Bank of America
Environmental Services #4122
555 Anton Boulevard, Suite 1025
Costa Mesa, California 92626

Prepared By:

Saulius Germanas, RG
Senior Associate Geoscientist

Reviewed By:

Jean M. Christensen, REA
Manager, Environmental Assessments
Supervising Geoscientist

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

This report presents the results of the soil and groundwater sampling and analysis conducted at the Days Inn Hotel located at 1603 Powell Street in Emeryville, California. This work was conducted in accordance with the tasks outlined in the McLaren/Hart proposals entitled "Proposal to Evaluate Potential Impacts to Soil and Groundwater at 1603 Powell Street in Emeryville, California" dated March 4, 1993, and "Proposal to Further Evaluate Extent of Soil and Groundwater Impacts at 1603 Powell Street in Emeryville, California" dated April 6, 1993. This work was authorized to be performed per Bank of America's Letters of Authorization dated March 10, 1993, and April 6, 1993, and referred to as Work Order Numbers 02325-02 and 02325-03, respectively. A site location map is included as Figure 1, and a site plan is included as Figure 2.

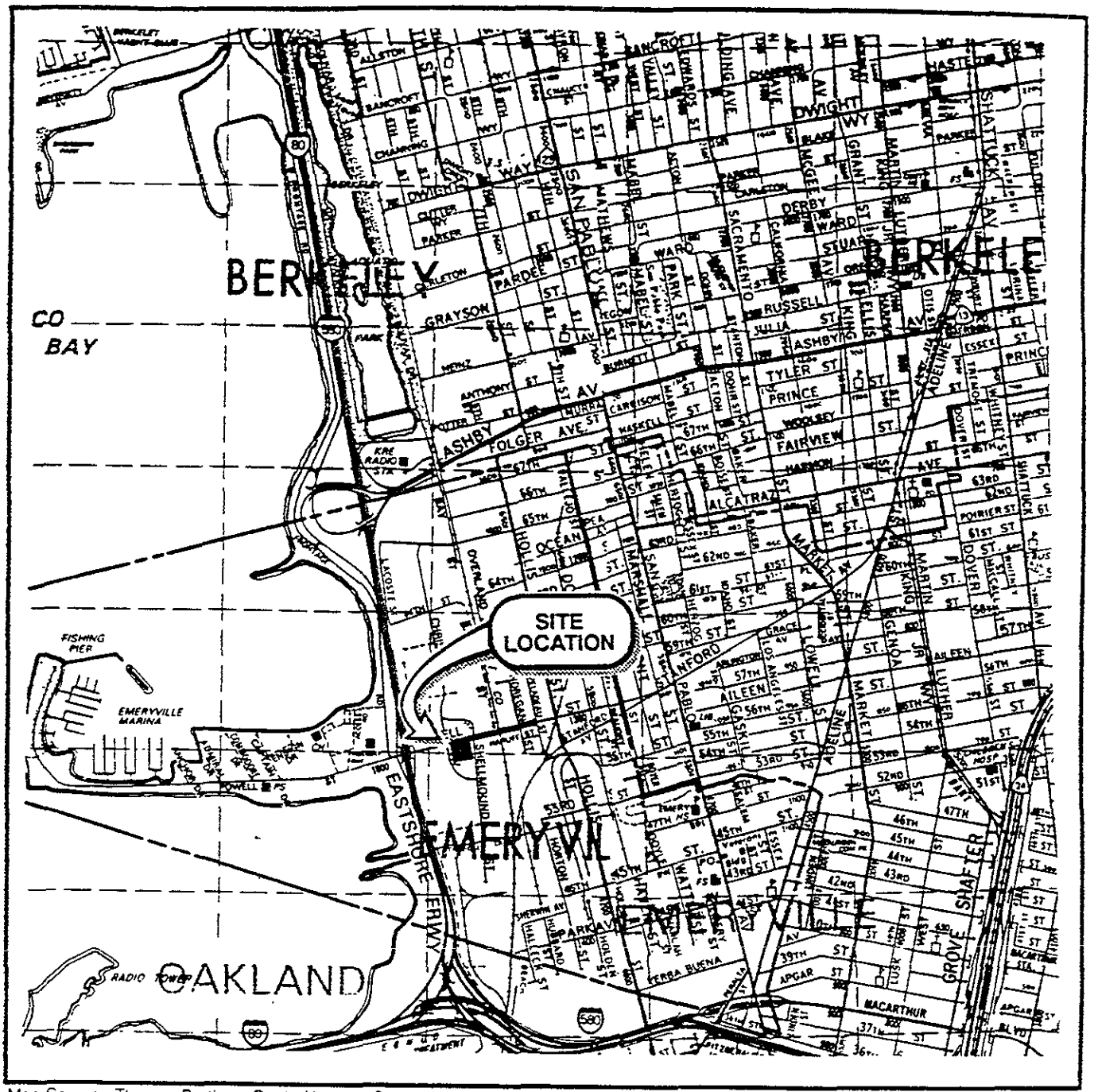
1.1 Background

McLaren/Hart conducted an environmental assessment of the property in January 1993. The results of that assessment are presented in the report entitled "Environmental Site Assessment Conducted at the Days Inn Hotel Located at 1603 Powell Street in Emeryville, California" (EA Report) and dated January 18, 1993. The EA Report indicated that an underground diesel fuel storage tank is located at the site. The Facility Engineer had no permits for the tank or records of tank integrity tests or monitoring of fuel levels. In addition, the Alameda County Department of Health Services had no information regarding the tank.

The EA Report also indicated that the southeastern portion of the site had historically (1949 until sometime between 1959 and 1973) been occupied by above ground storage tanks. McLaren/Hart was not able to obtain information regarding the contents of the tanks. Discolored soil was observed in the 1949 aerial photograph and extended from the building identified on a 1950 Sanborn Fire Insurance Map as an Auto Freight Depot to the vicinity of one of the aboveground tanks.

Review of Sanborn Fire Insurance maps for the years 1912 and 1950 identified several nearby potential sources of contaminants. The property immediately to the east of the subject property was identified as a Union Oil of California bulk fuel storage and distribution facility in both the 1912 and 1950 Sanborn maps. The Paraffine Paint Company was observed to be located immediately to the northeast and the Western Carbonic Acid Gas facility was observed to be located immediately to the southeast of the subject site in the 1912 and 1950 Sanborn maps. The agency list search performed as part of the Phase I environmental site assessment also identified sites to the east (upgradient) of the site that had experienced releases of hazardous materials to soil and/or groundwater, including the Chevron Asphalt Plant located 0.1 mile east, and the Westinghouse Electric Corporation site located 0.2 mile east. A Southern Pacific Pipeline Corporation crude oil pipeline is also located approximately 0.1 mile to the east of the subject property, though no information reviewed suggests that the pipeline has experienced a leak.

FIGURE 1
SITE LOCATION MAP
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



Map Source Thomas Brothers Guide Alameda County

N

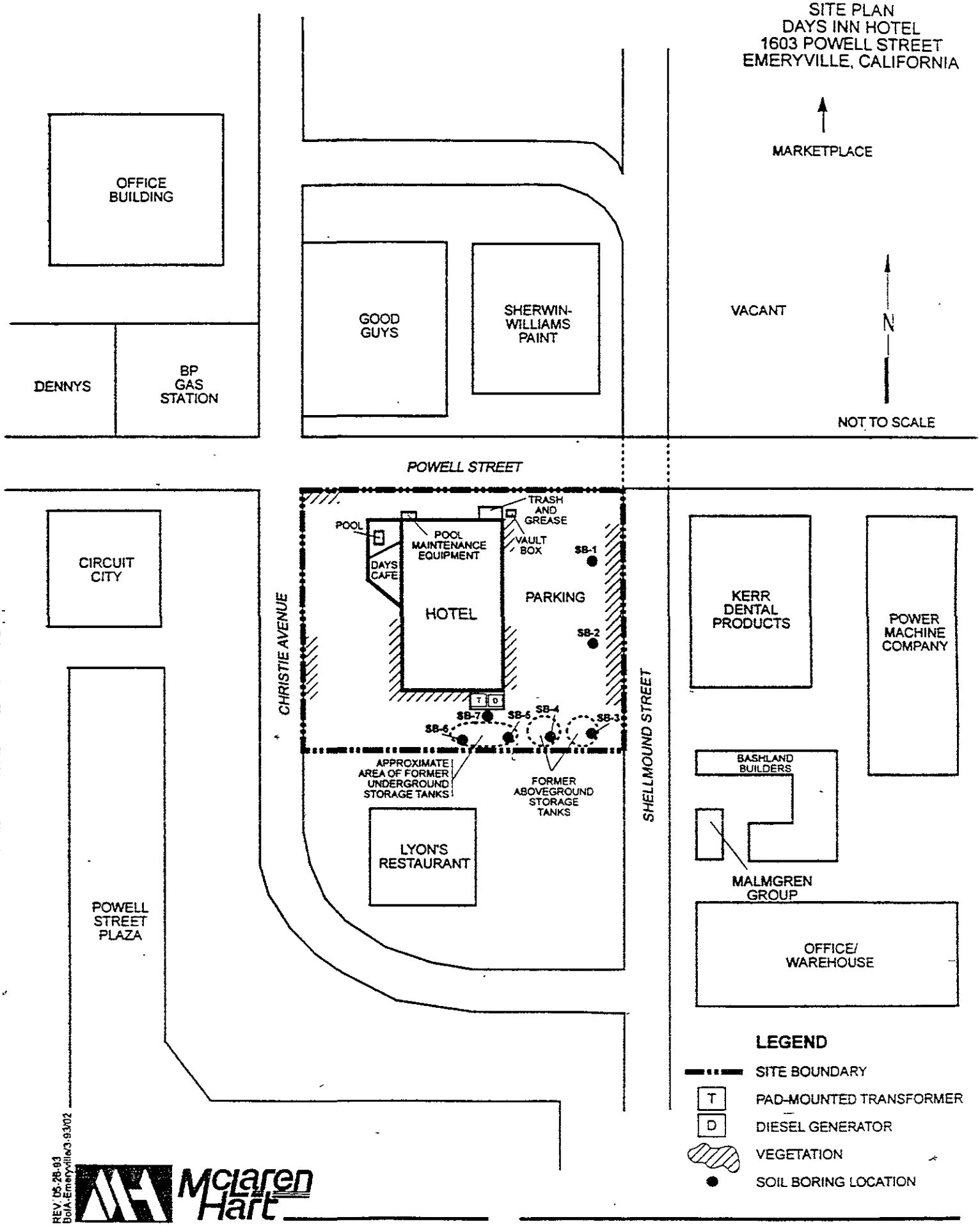
0 2640

SCALE IN FEET

McLaren Hart

Bank of America #4
Emeryville - Site Location Map
REV. 12.16.92

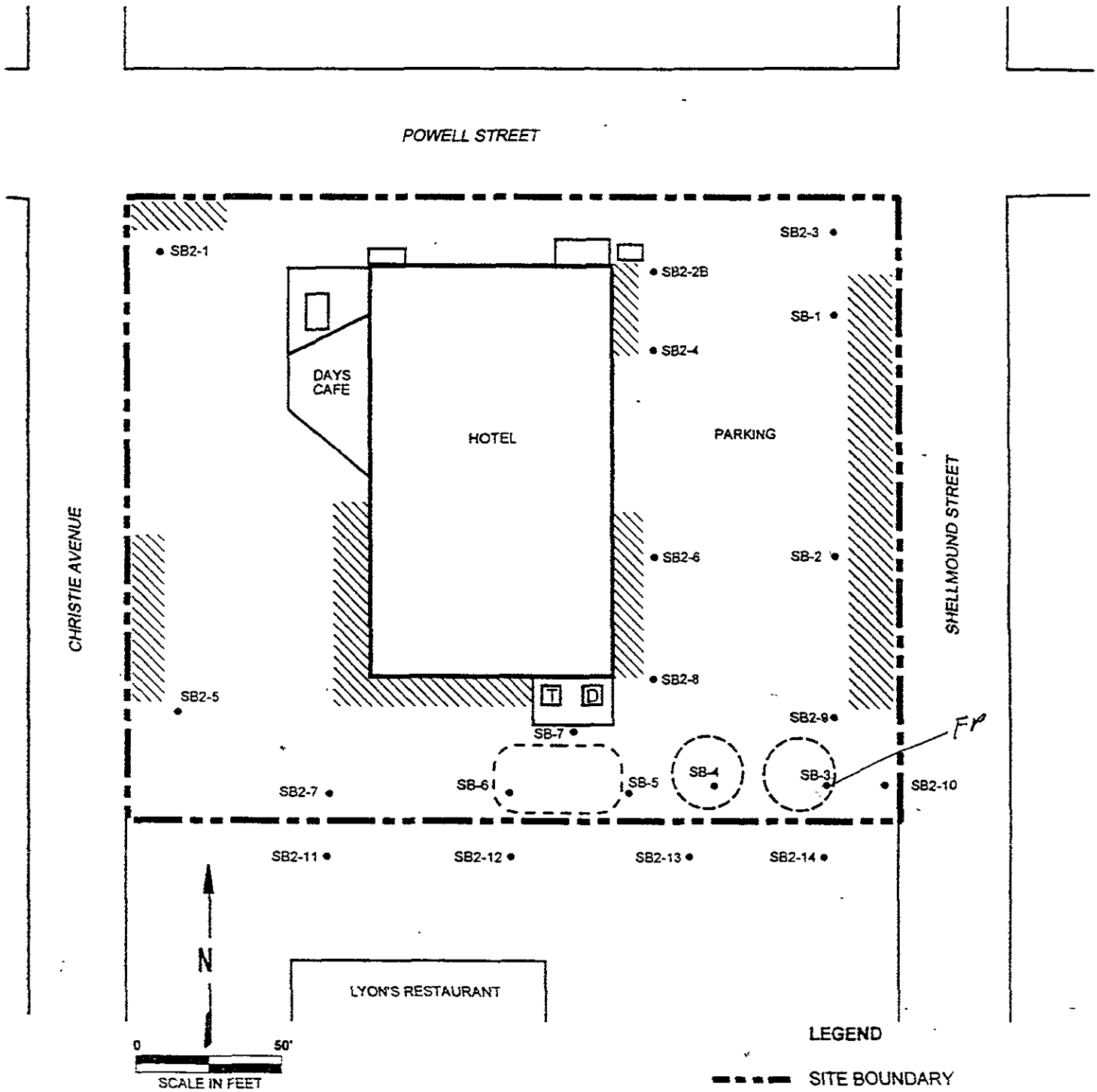
FIGURE 2
SITE PLAN
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



REV: 05-28-03
BolA-Emeryville/3-93/02

McLaren Hart

FIGURE 3
SOIL BORING LOCATIONS
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



REV: 05-25-93
DoA-Emryvll/5-93/3

McLaren Hart

Review of files regarding the subject property was performed at the City of Emeryville Building Department on March 11, 1993. A building permit dated April 3, 1979 was issued to East Texas Motor Freight for the installation of underground storage tanks for the storage of diesel, gasoline and oil. The permit did not include any information regarding the number or volume of the underground storage tanks, but did state that the work was to be performed by Diablo Petroleum. Building department inspector records also noted that the removal of five underground storage tanks was in progress on January 20, 1984, in conjunction with the demolition of the structure at the site in preparation for the construction of the Days Inn Hotel at the property. No information regarding the aboveground storage tanks was found in the review of the building department records. Aerial photographs of the subject area were also reviewed at the City of Emeryville Building Department, and a series of enlarged photographs taken in 1983 clearly showed the aboveground storage tanks in the southeast corner of the property and the fueling islands and underground storage tank complex located immediately to the west of the aboveground storage tanks.

The City of Emeryville Fire Department was contacted regarding whether records of the underground storage tank removal were available for review. A representative of the Fire Department stated that all records are forwarded to the Alameda County Health Care Services Agency, Department of Environmental Health, Division of Hazardous Materials (ACDEH). The ACDEH do not have any records of underground storage tank removals at the subject property.

1.2 Purpose

The purpose of the soil sampling and analysis conducted in March 1993 was to evaluate whether impacts to soil and/or groundwater had occurred due to current or historical practices at and in the vicinity of the subject property. The initial investigation targeted the following areas: 1) the former aboveground storage tank locations, 2) the former underground storage tank locations, 3) an area of surface staining identified in aerial photographs, 4) the upgradient (eastern) margin of the property and 5) the existing diesel storage tank located beneath the emergency generator.

Following the review of the March 1993 soil sampling results, additional investigation was performed in May 1993 to better define the extent of soil and groundwater contamination onsite.

2.0 SCOPE OF WORK

Seven soil borings were drilled at the site on March 18, 1993, soil and groundwater samples were collected, evaluated for the presence of free-phase hydrocarbons, and soil samples were submitted for laboratory analysis. Locations of the soil borings are indicated on Figure 3.

Soil borings SB-1 and SB-2 were drilled along the eastern (upgradient) boundary of the property in an area identified in historical aerial photographs as having surface staining. Soil borings SB-3 and SB-4 were drilled in the southeastern corner of the property in the vicinity of the former aboveground storage tanks, borings SB-5 and SB-6 were drilled in the vicinity of the former underground storage tanks, and boring SB-7 was drilled as close as possible to the current location of the underground diesel tank used to fuel the emergency generator.

Fourteen additional soil borings were drilled at the site on May 4 and 5, 1993, soil and groundwater samples were collected, evaluated for the presence of free-phase hydrocarbons, and submitted for laboratory analysis. The locations of the soil borings drilled in May 1993 are also indicated on Figure 3.

Soil boring SB2-1 was drilled at the northwestern (downgradient) corner of the property, soil boring SB2-2 was drilled at the northern boundary of the property but had to be abandoned due to the presence of an underground obstruction (possible utility line) at a depth of 2.5 feet below grade. Soil boring SB2-2 was moved approximately 50 feet to the east, and redesignated as SB2-2B. Soil boring SB2-3 was drilled at the northeastern (upgradient) corner of the property, soil borings SB2-4 and SB2-6 were drilled along the eastern side of the building, boring SB2-5 was drilled at the western (downgradient) boundary of the property, boring SB2-7 was drilled west (downgradient) of the former underground storage tank locations, boring SB2-8 was drilled adjacent but to the east of the diesel tank located beneath the emergency generator. Borings SB2-9 and SB2-10 were drilled to the north and east, respectively, of the former aboveground storage tank locations. Soil borings SB2-11, SB2-12, SB2-13 and SB2-14 were drilled immediately to the south of the Days Inn Hotel parking area in the Lyon's Restaurant parking lot. Both the Days Inn Hotel and Lyon's Restaurant are located on the parcel reportedly owned by the Emeryville Days Limited Partnership, Bank of America Asset #072100.

3.0 METHODOLOGY

A total of 21 soil borings were drilled by Gregg Drilling and Testing, Inc. The drilling and sampling was performed under the supervision of a McLaren/Hart geologist.

3.1 Soil and Groundwater Sampling and Analysis

The soil borings were drilled using hollow stem auger drilling equipment until the first groundwater-bearing zone was encountered at depths of approximately 6 to 7 feet below grade. Soil samples were collected at depths of 4.0 and 9.0 feet below grade from boring SB-2, the first boring drilled in March 1993, and at depths of 3.0 and 6.0 feet below grade in borings SB-1 and SB-3 through SB-7 and SB2-1 through SB2-14.

Soil samples collected during the March 1993 investigation were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, kerosene, motor oil and jet fuel by EPA Method 8015 Modified, and selected soil samples were analyzed for total lead by EPA Method 6010. Soil samples collected in March 1993 were submitted to McLaren Analytical Laboratory in Rancho Cordova, California for analysis.

Soil samples collected in May 1993 were analyzed for TPH as diesel and TPH as gasoline by EPA Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020, and for Oil & Grease by EPA Method 5520F. Soil samples were submitted to the Geochem Environmental Laboratories mobile analytical laboratory located onsite for analysis. Eight confirmatory soil samples were also collected and submitted to MBT Environmental Laboratories (formerly McLaren Analytical Laboratory) for analysis of TPH as gasoline, diesel, kerosene, motor oil and jet fuel by EPA Method 8015 Modified.

The mobile laboratory performed the relatively rapid EPA analytical Method of 5520F for the analysis of Oil & Grease (also referred to as total recoverable petroleum hydrocarbons, or TRPH) in order to analyze, or "screen" a large number of samples per day. The analytical result acquired by EPA Method 5520F represents the sum of all petroleum hydrocarbons extracted, ranging from the light gasoline-fraction hydrocarbons through the heavy asphaltic-fraction hydrocarbons. Because of the use of silica gel in the preparation of the sample during extraction, non-petroleum related hydrocarbons are removed from the sample, and the result acquired during analysis represents only petroleum hydrocarbons.

Groundwater samples were collected from each boring using Hydropunch sampling equipment. The boreholes were also evaluated for the presence of free-phase floating hydrocarbons prior to the collection of the groundwater sample.

The drill cuttings and fluids generated during drilling and sampling were placed in nine 55-gallon drums and stored on-site. Equipment used for drilling and sampling was pre-cleaned prior to arrival at the site, and all sampling equipment was decontaminated between each sampling event using a non-phosphate detergent, and a de-ionized water rinse.

3.2 Soil Sampling Procedures

A California Modified Split Spoon Sampler fitted with 2-inch by 6-inch brass tube inserts driven by a 140 pound hammer was used to collect soil samples. The soil samples collected for laboratory analysis were immediately sealed with teflon sheeting and plastic end caps. The end caps were then sealed to the brass tube with duct tape. Samples collected from borings SB-1 through SB-7 were then labelled, put into a plastic zipper-lock bag, placed into a cooler containing ice and delivered under chain-of-custody procedures to McLaren Analytical Laboratory in Rancho Cordova, California, a state certified laboratory.

Soil samples collected from borings SB2-1 through SB2-14 were collected as described above, labeled and hand delivered under chain-of-custody to the Geochem Environmental Laboratories mobile laboratory located onsite. Eight confirmatory soil samples were also collected and submitted to MBT Environmental Laboratories (formerly McLaren Analytical Laboratory) for analysis.

Soil samples were not recovered from boring SB-3 at the depth interval between 5.0 and 8.0 feet below grade due to the presence of large brick fragments and free-phase hydrocarbons.

3.3 Groundwater Sampling Procedures

The soil borings were drilled to a depth of between 9.5 feet (SB-2) and 6.5 feet (SB-1, SB-3 through SB-7, and SB2-1 through SB2-14) below ground surface, and the Hydropunch sampling probe (consisting of a stainless steel tip and protective sleeve) was driven an additional 3.5 feet into saturated soil. The protective sleeve was withdrawn exposing a teflon slotted screen, and groundwater was allowed to enter the sampling equipment for approximately 20 minutes. Groundwater samples were collected from the Hydropunch sampling equipment by using a stainless steel bailer. Groundwater samples were decanted from the bailer into the respective EPA approved sample containers depending on the analysis required.

Groundwater samples collected from borings SB-1 through SB-7 were then labelled, put into a plastic zipper-lock bag, placed into a cooler containing ice and delivered under chain-of-custody procedures by courier to McLaren Analytical Laboratory. Groundwater samples collected from borings SB2-1 through SB2-14 were labeled and then hand delivered under chain of custody procedures to the Geochem Environmental Laboratories mobile laboratory located onsite. Four confirmatory groundwater samples were also collected, labeled, placed in a cooler containing ice and delivered under chain of custody procedures by courier to MBT Environmental Laboratories for analysis.

4.0 RESULTS

This section presents the results of the Phase II sampling including a description of the soil lithology encountered, observations of the extent of free-phase hydrocarbons, and the results of the soil and groundwater sample analysis.

4.1 Soil Lithology and Hydrogeology

Soils at the subject site varied slightly, but are generally characterized as a black fine-grained silty to sandy clay with a high organic material content and containing fragments of man-made materials including brick, nails and wood to the maximum depth sampled of 9.5 feet below grade. The subject area is along the historical margin of San Francisco Bay and is known to have been composed of man-made fill. The presence of brick and steel scrap in the sampled soil confirms that the soil at the subject site to a depth of at least 9.5 feet below grade is fill. Soil boring logs are included in Attachment I.

Groundwater beneath the subject site was encountered during drilling at depths ranging from 6 feet to 7 feet below ground surface. Free-phase hydrocarbons were found only in boring SB-3, located in the former vicinity of the aboveground storage tanks. The thickness of the free-phase hydrocarbon could not be evaluated due to disturbances (foaming) caused during drilling. The lateral extent of free-phase hydrocarbons has been established, since free-phase hydrocarbons were not observed in the surrounding soil borings SB-4, SB2-9, SB2-10 and SB2-14.

Regional groundwater flow at the site is assumed to be to the west, towards San Francisco Bay located approximately 0.25 mile to the west. Groundwater flow in this region may be tidally influenced, resulting in periodic changes to localized groundwater flow direction, or influenced by permeability differences caused during filling of the site or construction activities.

4.2 Soil Analytical Results

Soil samples were collected and submitted for laboratory analyses as described above. The TPH, Oil & Grease, BTEX and total lead analytical results are presented in Table 1. Soil analytical data sheets and chain-of-custody records are included in Appendix II.

Table 1
Soil Analytical Results
Days Inn Hotel
1603 Powell Street
Emeryville, California
(All Results are in Parts Per Million)

Boring Number	Sample Depth (Feet)	Date	Total Petroleum Hydrocarbons					Oil and Grease	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Lead
			Gasoline	Diesel	Kerosene	Motor Oil	Jet Fuel						
SB-1	3.0	3/18/93	<50	<50	<50	160	<50	NA	NA	NA	NA	NA	54
SB-1	6.0	3/18/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB-2	4.0	3/18/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	31
SB-2	9.0	3/18/93	<100	<100	<100	1,800	<100	NA	NA	NA	NA	NA	NA
SB-3	3.0	3/18/93	<100	120	<100	280	<100	NA	NA	NA	NA	NA	250
SB-3	6.0	3/18/93	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SB-4	3.0	3/18/93	<10	15	<10	320	<10	NA	NA	NA	NA	NA	39
SB-4	6.0	3/18/93	<10	100	>10	<10	<10	NA	NA	NA	NA	NA	NA
SB-5	3.0	3/18/93	<100	<1000	<100	1,900	<100	NA	NA	NA	NA	NA	26
SB-5	6.0	3/18/93	<10	550	<10	1,200	<10	NA	NA	NA	NA	NA	NA
SB-6	3.0	3/18/93	<10	90	<10	1,300	<10	NA	NA	NA	NA	NA	42
SB-6	6.0	3/18/93	<10	<10	<10	21	<10	NA	NA	NA	NA	NA	NA
SB-7	3.0	3/18/93	<10	<10	<10	31	<10	NA	NA	NA	NA	NA	18
SB-7	6.0	3/18/93	15	<10	<10	17	<10	NA	NA	NA	NA	NA	NA
SB2-1	3.0	5/4/93	NA	<0.05	NA	NA	NA	3	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-1	6.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-2	3.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-2B (Dup)	3.0	5/4/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Results
Days Inn Hotel
1603 Powell Street
Emeryville, California
(All Results are in Parts Per Million)

Boring Number	Sample Depth (Feet)	Date	Total Petroleum Hydrocarbons					Oil and Grease	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Lead
			Gasoline	Diesel	Kerosene	Motor Oil	Jet Fuel						
SB2-2B	6.0	5/4/93	NA	0.39	NA	NA	NA	4	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-2B (Dup)	6.0	5/4/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB2-3	3.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-3	6.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-4	3.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-4	6.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-5	3.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-5 (Dup)	3.0	5/5/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB2-5	6.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-5 (Dup)	6.0	5/5/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB2-6	3.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-6	6.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-7	3.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-7	6.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-8	3.0	5/4/93	NA	188.91	NA	NA	NA	402	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-8	6.0	5/4/93	69.30	2867.81	NA	NA	NA	18,996	18.7174	11.9169	23.9998	25.2344	NA
SB2-9	3.0	5/4/93	NA	<0.05	NA	NA	NA	256	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-9	6.0	5/4/93	NA	<0.05	NA	NA	NA	5	<0.0005	<0.0005	<0.0005	<0.0005	NA

Table 1
Soil Analytical Results
Days Inn Hotel
1603 Powell Street
Emeryville, California
(All Results are in Parts Per Million)

Boring Number	Sample Depth (Feet)	Date	Total Petroleum Hydrocarbons					Oil and Grease	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Lead
			Gasoline	Diesel	Kerosene	Motor Oil	Jet Fuel						
SB2-10	3.0	5/4/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-10	6.0	5/4/93	NA	<0.05	NA	NA	NA	142	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-11	3.0	5/5/93	2.03	<0.05	NA	NA	NA	2	0.3957	0.2916	0.2722	0.8942	NA
SB2-11	6.0	5/5/93	1.78	<0.05	NA	NA	NA	2	0.2033	0.1066	<0.0005	0.5951	NA
SB2-12	3.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-12 (Dup)	3.0	5/5/93	<10	<10	<10	68	<10	NA	NA	NA	NA	NA	NA
SB2-12	6.0	5/5/93	2.53	<0.05	NA	NA	NA	4	0.1834	0.2014	<0.0005	0.2418	NA
SB2-12 (Dup)	6.0	5/5/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB2-13	3.0	5/5/93	NA	<0.05	NA	NA	NA	<1	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-13	5.5	5/5/93	NA	206.74	NA	NA	NA	692	<0.0005	<0.0005	<0.0005	1.1564	NA
SB2-14	3.0	5/5/93	NA	10.46	NA	NA	NA	120	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-14 (Dup)	3.0	5/5/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA
SB2-14	6.0	5/5/93	NA	<0.05	NA	NA	NA	4	<0.0005	<0.0005	<0.0005	<0.0005	NA
SB2-14 (Dup)	6.0	5/5/93	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA

< = Compound not detected at or above specified laboratory reporting limit.
NA = Not analyzed
NR = = No sample recovery
(Dup) = Duplicate sample for analysis

Concentrations of petroleum hydrocarbons were detected in soil samples collected at varying concentrations throughout the site. Concentrations of TPH as gasoline were only detected in soil samples collected from borings SB-7, SB2-8, SB2-11 and SB2-12. Soil borings SB-7 and SB2-8 were drilled adjacent to the diesel tank located beneath the emergency generator located at the site, and soil borings SB2-11 and SB2-12 were drilled in the vicinity of the former underground storage tank locations.

Concentrations of BTEX compounds were detected in soil borings SB2-8, and SB2-11 through SB2-13. Maximum concentrations of BTEX compounds were detected in the soil sample collected from boring SB2-8 at 6.0 feet below grade, where benzene was detected at 18.7174 ppm, toluene at 11.9169 ppm, ethylbenzene at 23.998 ppm and xylenes at 25.2344 ppm. Soil boring SB2-8 was drilled adjacent to the diesel tank located beneath the emergency generator, but may also be in a downgradient location from the area of the former aboveground storage tanks, or crossgradient of the former underground storage tank complex.

TPH as diesel were detected in soil samples collected from borings SB-3 through SB-6, SB2-2B, SB2-8, SB2-13 and SB2-14 at concentrations ranging from 0.39 ppm (SB2-2B at 3.0 feet) to 2,867.81 ppm (SB2-8 at 6.0 feet). Soil boring SB2-2B was drilled at the northern boundary of the property, borings SB-3 through SB-5 and SB2-13 and SB2-14 were drilled in the vicinity of the former underground and aboveground storage tanks.

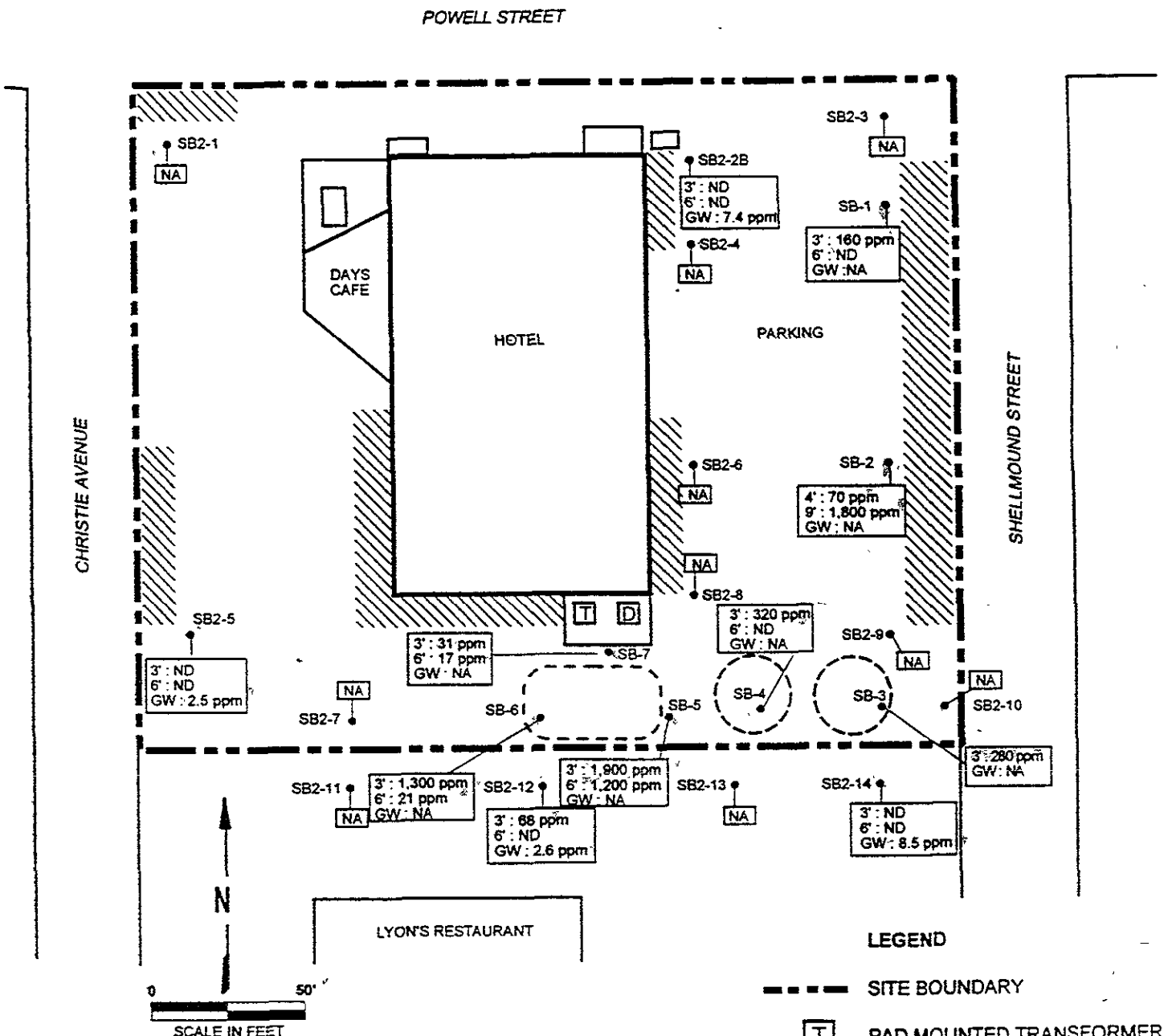
Concentrations of TPH as motor oil were detected in soil samples collected from borings SB-1 through SB-7, and SB2-12. Concentrations of TPH as motor oil ranged from 17 ppm detected in the sample from boring SB-7 collected at 6.0 feet to 1,900 ppm detected in the sample collected from boring SB-5 at a depth of 3.0 feet. TPH as motor oil was detected in the saturated soil sample collected from boring SB-2 at a depth of 9.0 feet below grade at a concentration of 1,800 ppm. The distribution of TPH as motor oil in soil across the site is shown in Figure 4.

TPH as jet fuel and as kerosene were not present above the laboratory reporting limit in any of the soil samples analyzed.

Concentrations of Oil & Grease were detected in soil samples collected from borings SB2-1, SB2-2B, and borings SB2-8 through SB2-14. The highest concentration of Oil & Grease in soil was detected in the sample collected from boring SB2-8 at 6 feet below grade at 18,996 ppm. The distribution of Oil & Grease across the site is shown in Figure 5.

Concentrations of total lead were detected in all the shallow soil samples submitted for lead analysis from borings SB1 through SB-7 at concentrations ranging from 18 ppm (SB-7) to 250 ppm (SB-3). Concentrations of total lead in six of the seven soil samples analyzed ranged from 18 ppm to 54 ppm, and the concentration of 250 ppm encountered in the sample from boring SB-3 appears to be anomalously high. The California Code of Regulations (CCR), Title 22, Total Threshold Limit Concentration (TTLC) value for lead of 1,000 ppm was not exceeded in any soil sample analyzed.

FIGURE 4
CONCENTRATIONS OF TPH AS MOTOR OIL
IN SOIL AND GROUNDWATER
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



SAMPLE DEPTH: CONCENTRATION
GROUND WATER: CONCENTRATION

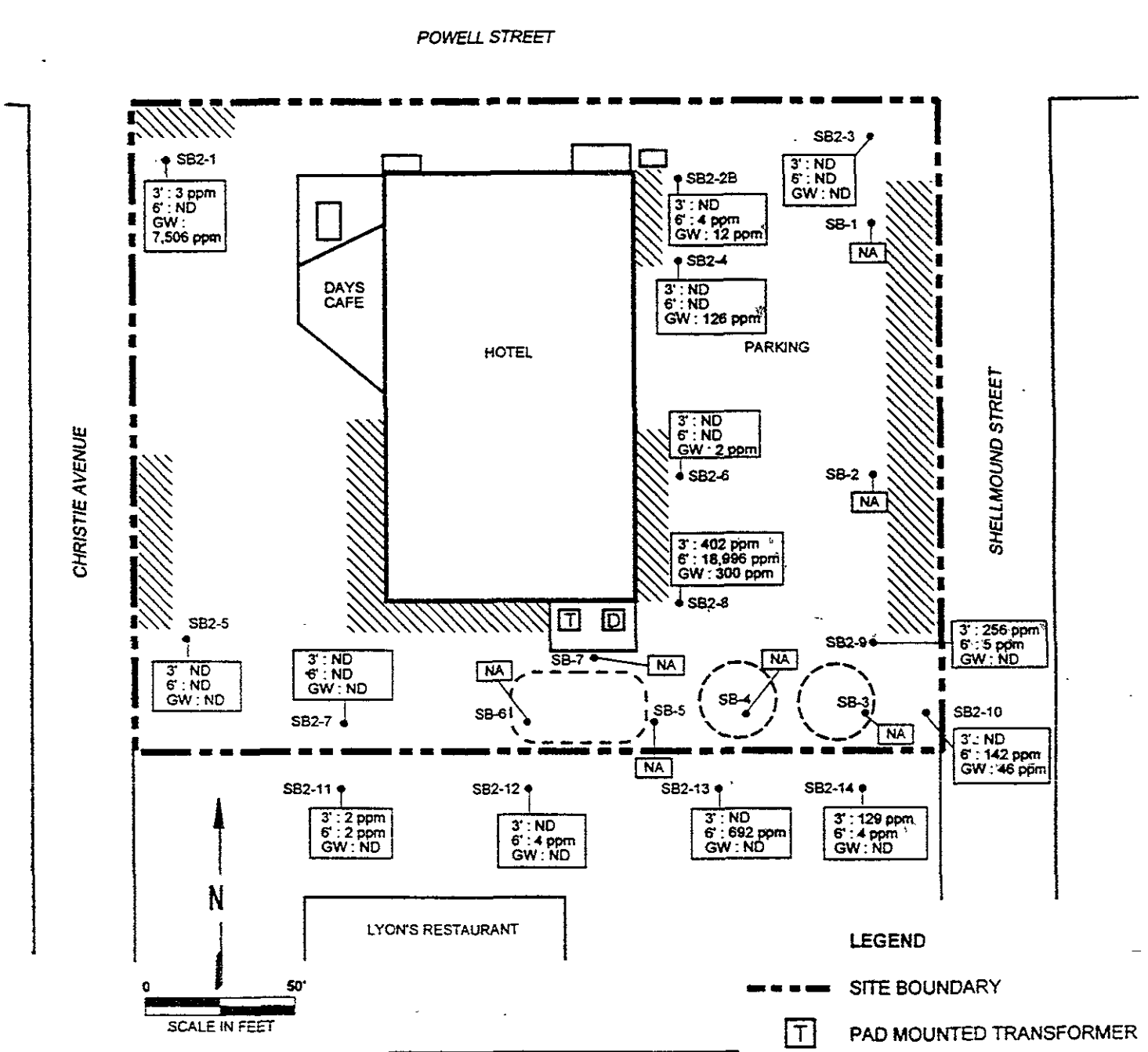
NA NOT ANALYZED

ND NOT DETECTED

REV: 05-25-03
D:\A-Emryvil\5-03\4

McLaren Hart

FIGURE 5
CONCENTRATIONS OF OIL AND GREASE
IN SOIL AND GROUNDWATER
DAYS INN HOTEL
1603 POWELL STREET
EMERYVILLE, CALIFORNIA



REV: 05-25-93
BnA:Emryvll/5-93/5

McLaren Hart

4.3 Groundwater Analytical Results

Groundwater samples were collected from borings SB-1 through SB-7 in March 1993 but were not submitted for laboratory analyses based on the discovery of free-phase hydrocarbons on groundwater in boring SB-3.

Groundwater samples from borings SB2-1 through SB2-14, drilled and sampled on May 4 and 5, 1993, were collected and submitted for laboratory analyses as described above. The TPH, Oil & Grease, and BTEX analytical results are presented in Table 2. Groundwater sample analytical data sheets and chain-of-custody records are included in Appendix III.

Concentrations of TPH as gasoline were only detected in the groundwater sample collected from boring SB2-8 at 9.930 ppm. Benzene, toluene and ethylbenzene were also only detected in the groundwater sample collected from SB2-8 at 834.1 parts per billion (ppb), 713.7 ppb and 1,495.4 ppb. Xylenes were detected in the groundwater samples collected from borings SB2-8 and SB2-2B at concentrations of 3,520.3 ppb and 451 ppb, respectively.

Concentrations of TPH as diesel were detected in groundwater samples collected from borings SB2-8 and SB2-2B at 273.860 ppm and 9.270 ppm, respectively. The groundwater sample from boring SB2-2B was also analyzed by MBT Environmental Laboratories. Though TPH as diesel was reported to not be present above the laboratory reporting limit of 0.500 ppm, TPH as motor oil was detected at 7.400 ppm. TPH as motor oil was also reported in the other three groundwater samples collected and analyzed by MBT Environmental Laboratories at concentrations of 2.500 ppm in the sample from SB2-5, 2.600 ppm in the sample from SB2-12, and 8.500 ppm in the sample from boring SB2-14. Concentrations of TPH as kerosene and jet fuel were not present above laboratory reporting limits.

Concentrations of Oil & Grease (or total recoverable petroleum hydrocarbons) were detected in the groundwater samples collected from boring SB2-1 at 7,506 ppm, from boring SB2-2B at 12 ppm, from SB2-4 at 126 ppm, from SB2-6 at 2 ppm, from SB2-8 at 300 ppm, and from SB2-10 at 46 ppm.

4.3.1 Comparison of Analytical Data

McLaren/Hart has reviewed the laboratory analytical data, and compared the TPH as motor oil data against the Oil & Grease data. The value reported for Oil & Grease should include all petroleum hydrocarbons (and only petroleum hydrocarbons) recovered in the sample, therefore, the concentrations should at least be equivalent to the concentrations reported for TPH as motor oil. In groundwater samples collected from borings SB2-5, SB2-12 and SB2-14, the reported concentrations for TPH as motor oil (by MBT Environmental Laboratories) exceeds the Oil & Grease (or total recoverable petroleum hydrocarbon) concentration reported by Geochem Environmental Laboratories. Discussions were held with Ms. Shakoora Azimi, Director of MBT Environmental Laboratories regarding this difference. Ms. Azimi stated that the extraction performed by a mobile lab is for a much shorter length of time compared to a fixed analytical laboratory, and the recovery of more hydrocarbon would be expected due to the longer extraction process.

Table 2
Groundwater Sample Analytical Results
Days Inn Hotel
1603 Powell Street
Emeryville, California

Boring Number	Date	LAB	Total Petroleum Hydrocarbons					Oil and Grease (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)
			Gasoline (ppm)	Diesel (ppm)	Kerosene (ppm)	Motor Oil (ppm)	Jet Fuel (ppm)					
SB2-1	5/4/93	GEL	NA	<0.050	NA	NA	NA	7,506	<0.5	<0.5	<0.5	<0.5
SB2-2B	5/4/93	GEL	NA	9.270	NA	NA	NA	12	<0.5	<0.5	<0.5	451
SB2-2B (Dup)	5/4/93	MBT	<0.500	<0.500	<0.500	7.400	<0.500	NA	NA	NA	NA	NA
SB2-3	5/4/93	GEL	NA	<0.050	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-4	5/4/93	GEL	NA	<0.050	NA	NA	NA	126	<0.5	<0.5	<0.5	<0.5
SB2-5	5/5/93	GEL	NA	<0.050	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-5 (Dup)	5/5/93	MBT	<0.500	<0.500	<0.500	2.500	<0.500	NA	NA	NA	NA	NA
SB2-6	5/5/93	GEL	<0.050	<50	NA	NA	NA	2	<0.5	<0.5	<0.5	<0.5
SB2-7	5/5/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-8	5/4/93	GEL	9.30	273.60	NA	NA	NA	300	834.1	713.7	1,495.4	3,520.3
SB2-9	5/4/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-10	5/4/93	GEL	<0.050	<50	NA	NA	NA	46	<0.5	<0.5	<0.5	<0.5
SB2-11	5/5/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-12	5/5/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-12 (Dup)	5/5/93	MBT	<0.500	<0.500	<0.500	2.00	<0.500	NA	NA	NA	NA	NA
SB2-13	5/5/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-14	5/5/93	GEL	<0.050	<50	NA	NA	NA	<1	<0.5	<0.5	<0.5	<0.5
SB2-14 (Dup)	5/5/93	MBT	<0.500	<0.500	<0.500	8.00	<0.500	NA	NA	NA	NA	NA

<	=	Compound not detected at or above laboratory reporting limit
na	=	Not analyzed
(Dup)	=	Duplicate sample for analysis
GEL	=	Geochem Environmental Laboratories
MBT	=	MBT Environmental Laboratories
ppm	=	Parts per million
ppb	=	Parts per billion

McLaren/Hart believes that the discrepancy in the extraction time explains the difference in the data and that the motor oil concentrations reported by MBT Environmental Laboratories are valid.

5.0 DISCUSSION

Concentrations of petroleum hydrocarbons were detected in soil samples collected from soil borings SB-1 through SB-7, SB2-1, SB2-2B, and SB2-8 through SB2-14. No petroleum hydrocarbons were detected in soil samples collected from borings SB2-3 through SB2-7. Concentrations of petroleum hydrocarbons were detected in groundwater samples collected from borings SB2-1, SB2-2B, SB2-4, SB2-5, SB2-6, SB2-8, SB2-10, SB2-12, and SB2-14.

Concentrations of total lead were detected in all shallow soil samples collected from borings SB-1 through SB-7 submitted for analysis at concentrations ranging from 18 ppm to 250 ppm. The regulatory guideline TTLC value for lead was not exceeded.

Soil boring SB2-1 was drilled in the northwestern (downgradient) corner of the subject property. The relatively high concentration of Oil & Grease in the groundwater sample collected from boring SB2-1 of 7,506 ppm, where the soil samples contained a maximum concentration of 3* ppm Oil & Grease, indicates that either the contamination lies at a depth greater than the soil sample interval (greater than 6.5 feet below grade, the groundwater sample was collected at 6.5 feet to 10.0 feet below grade), or that the groundwater contamination detected was due to an upgradient source.

Soil and groundwater impact in the vicinity of soil borings SB-3 through SB-7 and borings SB2-8 through SB2-14 may be due to releases of fuels from the aboveground and underground storage tanks which were located in the southeastern corner of the former trucking facility. Upgradient soil borings SB-1, SB-2, SB2-9 and SB2-10 contained detectable concentrations of petroleum hydrocarbons in soil and/or groundwater samples, suggesting that an upgradient source may have contributed to the contamination detected onsite.

The presence of petroleum hydrocarbons in soil and groundwater at the subject property may be due to: 1) improper use and storage of hydrocarbons at the subject property by the previous owner; 2) releases of hydrocarbons from the bulk fuel storage facility which had been located adjacent to the property historically; 3) by the use of petroleum-contaminated fill materials when the area was initially filled in the 1920's; and/or 4) by the grading and spreading throughout the site of a smaller area of petroleum impacted soil.

The presence of free-phase hydrocarbons in the area immediately beneath the historical location of two aboveground storage tanks containing unknown products suggests releases from the aboveground storage tanks did occur.

6.0 CONCLUSIONS

- Review of City of Emeryville Building Department files and aerial photographs confirmed the historical presence of aboveground storage tanks of unknown contents at the southeast corner of the subject site. The Emeryville records also indicated that five underground storage tanks were installed at the subject property in 1979, were located immediately to the west of the aboveground storage tanks, and were removed in January 1984. No regulatory files detailing findings during the underground storage tank removal were found.

- The soils encountered at the subject property were described as silty clays with high organic matter content, and containing brick, steel and wood fragments to the maximum depth explored of 9.5 feet below grade. The presence of man-made materials in vadose and saturated zone soil is due to the use of fill materials when this portion of Emeryville, California was reclaimed from San Francisco Bay in the 1920's. This portion of Emeryville had been located below the high tide mark prior to reclamation, and had been a tidal estuary. Groundwater was encountered during drilling at depths of approximately 6.0 to 7.0 feet below ground surface.

- Petroleum hydrocarbons were detected in soil samples collected from 16 of the 21 soil borings drilled at the site. The maximum concentrations of TPH as gasoline and diesel were detected in the sample from boring SB2-8 collected at 6.0 feet below grade at 69.3 ppm and 2,867.81 ppm, respectively. The highest concentrations of Oil & Grease were also detected in this soil sample, where Oil & Grease was detected at 18,996 ppm, benzene at 18.7174 ppm, toluene at 11.9169 ppm, ethylbenzene at 23.9998 ppm, and xylenes at 25.2344 ppm. Soil boring SB2-8 was located near the diesel tank associated with the emergency generator located onsite, but is also in the potentially downgradient location from the former aboveground and underground storage tanks which had been located at the property. The maximum concentration of TPH as motor oil was detected in the soil sample collected at a depth of 3.0 feet below grade from boring SB-5, located in the vicinity of the former underground storage tanks, at 1,900 ppm.

- Concentrations of total lead were detected in all of the shallow soil samples collected from borings SB-1 through SB-7, and ranged from 18 ppm to 250 ppm. The regulatory guideline TTLC value of 1,000 ppm was not exceeded.

- Free-phase hydrocarbons were observed in groundwater in boring SB-3, located in the vicinity of two former aboveground storage tanks. Free-phase hydrocarbons were not observed in the borings drilled to the north, south, east or west of boring SB-3, indicating that the extent of free-product is defined.

- The lateral extent of diesel and gasoline range petroleum hydrocarbons in soil appears to be limited to the area in the vicinity of the former aboveground and underground storage tanks, except for the presence of TPH as diesel at a concentration of 0.39 ppm in the soil sample collected at a depth of 6.0 feet from boring SB2-2B, located at the northern boundary of the property.

- The lateral extent of motor oil range petroleum hydrocarbons in soil has not been defined. TPH as motor oil were detected in soil samples collected at the eastern (upgradient) and southern (crossgradient) boundaries of the property.

- Gasoline and diesel range petroleum hydrocarbons were only detected in groundwater samples collected from two borings. Concentrations of TPH as diesel were detected in Hydropunch groundwater samples collected from borings SB2-2B and SB2-8 at 9.270 ppm and 273.860 ppm, respectively. TPH as gasoline was only detected in the groundwater sample collected from boring SB2-8 at 9.930 ppm. BTEX compounds were also only detected in groundwater samples collected from borings SB2-2B and SB2-8, at maximum concentrations of 834.1 ppb benzene, 713.7 ppb toluene, 1,495.4 ppb ethyl;benzene and 3,520.3 ppb xylenes.

- The lateral extent of motor oil range petroleum hydrocarbons in groundwater has not been defined. TPH as motor oil were detected in groundwater samples collected from the southeastern (upgradient), southern (crossgradient), northern (crossgradient) and western (downgradient) boundaries of the property.

- The highest concentration of Oil & Grease at 7.506 ppm was detected in a groundwater sample collected from boring SB2-1, located at the northwestern (downgradient) corner of the property. Soil samples collected at 3.0 and 6.0 feet below grade in this boring contained a maximum concentration of Oil & Grease of 3 ppm, suggesting that significant groundwater contamination exists at a location where soil has not been significantly impacted.

- The distribution of soil contamination is complex. Diesel and gasoline range hydrocarbons exist in the vicinity of the former aboveground and underground storage tanks, and to a lesser extent, diesel contamination exists along the northern boundary of the property. The heavier hydrocarbon soil contamination, including motor oil and Oil & Grease is present in the vicinity of the former aboveground and underground storage tanks, and along the eastern (upgradient) property boundary. The vertical distribution of soil contamination is inconsistent, and may be due to mixing during grading or filling operations.

- The distribution of groundwater contamination does not correlate well with the distribution of soil contamination. Significant groundwater contamination has been detected in areas where soil contamination was not detected, and groundwater has not been shown to have been impacted in areas where significant soil contamination exists. The lack of correlation between areas of soil/groundwater contamination may be due to mixing during grading or other similar disturbance.

- The presence of petroleum hydrocarbons in soil and groundwater at the subject property may be due to: 1) improper use and storage of hydrocarbons at the subject property by the previous owner; 2) releases of hydrocarbons from the bulk fuel storage facility which had been located adjacent to the property historically; 3) by the use of petroleum-contaminated fill materials when the area was initially filled in the 1920's; and/or 4) by the grading and spreading throughout the site of a smaller area of petroleum impacted soil at the time of building demolition/construction.

7.0 LIMITATIONS

The results of the Phase II investigation should be reviewed as a reasonably accurate estimate of the existing conditions of the property, given the above project limitations. Despite these limitations, it is McLaren/Hart's opinion that the Phase II investigation provides an appropriate degree of confidence to determine the extent of the environmental concerns on and in the vicinity of the property.

8.0 REFERENCES

1) California Code of Regulations, Title 22, Register 85, Number 2, pages 66699-66700, January 1985.

APPENDIX I

SOIL BORING LOGS

SOIL DRILLING L G

McLaren Hart

SB-1 / SB-1

D- 22593
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	17 18 32	50		53191	0	1.5 - 6.5' SANDY CLAY (FILL): (15,25,25,35); Dark brown (7.5YR3/2); fine gravel; fine to coarse sand; low plasticity; soft; damp; brick fragments.	CL		8-Inch Diameter Borehole
5.0	7 12 18	30		53192	0				Portland Cement Grout
▽ 7.5			W			6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			6.5
10.0									10.0

BAEME SOILS.AUGPS

REGISTERED GEOLOGIST
RAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST
TITLE

SOIL DRILLING LOG

McLaren Hart

SB #2

D- 22592
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 13.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	4 7 7	14		53189	0	1.5 - 6.5' SANDY CLAY (FILL): (15,25,25,35); Dark brown (7.5YR3/2); fine gravel; fine to coarse sand; low plasticity; soft; damp; brick fragments.	CL		8-Inch Diameter Borehole
5.0									Portland Cement Grout
▽ 7.5	6 7 6	13		53190	0	6.5 - 9.5 SILTY CLAY (FILL): (5,15,30,50); Dark olive gray (5Y3/2); fine angular gravel; fine sand; low plasticity; high organic matter content; soft; saturated; hydrogen sulfide odor; glass fragments.	CL		9.5
10.0			W			9.5 - 13.0' Hydropunch Probe Pushed, No Soil Samples Collected			13.0
12.5									

BAEME 50693.AUGPS

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5328 Exp. June 30, 1994 STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. Assoc. HYDROGEOLOGIST
TITLE

SOIL BORING LOG

McLaren Hart

SB-3

Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 6.5'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	12 8 13	21		53193	0	1.5 - 6.5' SANDY CLAY (FILL): (15,25,25,35); Black (2.5Y2/0); coarse gravel; fine to coarse sand; low plasticity; stiff; damp; brick fragments.	CL		8-Inch Diameter Borehole
5.0	3 11 18	29				@ 6.0' Saturated, black free-phase hydrocarbons.			6.5 Portland Cement Grout

EXEMES26693.AI/GPS

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST

TITLE

SOIL DRILLING LOG

McLaren Hart

SB-4

D- 22595

Page 1 of 1

Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California

TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 10.0'

MONITORING DEVICE OVM 580B SCREENED INTERVAL _____

SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61

PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water

MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	14 27 13	40		53194	0	1.5 - 4.5' SANDY CLAY (FILL): (15,25,20,40); Black (2.5Y2/0); fine gravel; fine sand; low to moderate plasticity; stiff; moist; slight petroleum odor.	CL		8-Inch Diameter Borehole
5.0	3 3 5	8		53195	0	4.5 - 6.5' SILTY CLAY: (0,20,35,45); Black (2.5Y2/0) with dark brown (7.5YR3/2) mottling; low to moderate plasticity; fine sand; soft; moist.	CL		6.5 Portland Cement Grout
▽									
7.5						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
10.0									10.0

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5228 Exp. June 30, 1994 STATE OF CALIFORNIA

BAEME.SD693.AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST

TITLE

SOIL DRILLING LOG

SB/MW #: SB-5
D- 22596
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SB5

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	14 27 13	40		53196	102	1.5 - 6.5' SANDY CLAY (FILL): (15,25,20,40); Black (2.5Y2/0); fine gravel; fine sand; low to moderate plasticity; stiff; moist; petroleum odor.	CL		8-Inch Diameter Borehole
5.0	3 3 5	8		53197	33				Portland Cement Grout
▽			W						6.5
7.5						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
10.0									10.0

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5328 Exp. June 30, 1994 STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST
TITLE

SOIL DRILLING LOG

SB-6

D- _____ of _____
Page 1 of _____
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description: Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			Concrete
									1.0
					0	1.5 - 4.5' SANDY CLAY (FILL): (15,25,20,40); Black (2.5Y2/0); fine gravel; fine sand; low to moderate plasticity; stiff; moist.	CL		8-Inch Diameter Borehole
2.5	20 32 25		57		53198				
					0	4.5 - 6.5' GRAVELLY CLAY (FILL): (35,10,15,40); Black (2.5Y2/0); low plasticity; coarse angular gravel; soft; moist; brick and concrete fragments.	CL		Portland Cement Grout
5.0	5 3 4		7		53199				
						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			6.5
▽ 7.5					W				
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5828
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF REVIEWER
Sr. Assoc. Geoscientist
TITLE

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

BAKME SOIL03.AUGPS

SOIL DRILLING L(G

SB/MW #: SB-7 ✓
D- 22598
Page 1 of 1
Geologist: S. Germanas

Saulius
SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 3/18/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	10 19 22	41		53200	6.5	1.5 - 6.5' CLAYEY GRAVEL (FILL): (35,20,20,25); Greenish gray (5G5/1); coarse angular gravel; fine sand; low plasticity fines; dense; moist; wood and brick fragments; petroleum odor.	GC		8-Inch Diameter Borehole
5.0	3 3 4	7		102688	9.0	@ 6.0' Change in color to black (2.5YR2/0).			6.5 Portland Cement Grout
▽			W			6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5									
10.0									10.0

M:\ME\SD6693.AUGPS

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

Saulius
SIGNATURE OF REVIEWER

SR. ASSOC. GEOSUBST. T
TITLE

SOIL DRILLING L(G

SB/MW #: SB2-1
D- 15757
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 5/4/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	7 16 30	46		102689	0	1.5 - 3.5' CLAYEY SILT WITH GRAVEL (FILL): (20,5,45,30); Reddish brown (5YR4/4); low plasticity; hard; dry to damp.	ML		8-Inch Diameter Borehole
5.0	3 4 6	10		102690	0	3.5 - 6.5' SILTY CLAY: (0,5,45,50); Black (2.5YR2/0); moderate plasticity; soft; wet; petroleum odor.	CL		
▽						@ 6.0' Change in color to black (2.5YR2/0).			6.5 Volclay Bentonite Grout
				235017		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5			W						
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5326
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

Sr. Assoc. Geoscientist

TITLE

SOIL DRILLING L G

SB/MW #: SB2-2B
D- 15759
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 5/4/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	12 16 21	37		102693 102694	0	1.5 - 3.5' CLAYEY SILT WITH GRAVEL (FILL): (20,5,45,30); Reddish brown (5YR4/4); low plasticity; hard; dry to damp.	ML		8-Inch Diameter Borehole
5.0	3 5 6	11		102696 102695 235023-4	0	3.5 - 6.5' SILTY CLAY: (0,5 45,50); Black (2.5YR2/0); moderate plasticity; soft; wet; petroleum odor. @ 6.0' Change in color to black (2.5YR2/0).	CL		6.5 Volclay Bentonite Grout
7.5			W			6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			10.0
10.0									

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5928
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

Sr. Assoc. Geologist

TITLE

SOIL DRILLING L(G

SB/MW #: SB2-3
D- 15761
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION ____ (MSL) DATE(S) 5/4/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL ____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO ____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	5 14 19	33			0	1.5 - 3.0' SILTY CLAY: (0,5,40,55); Black (2.5YR2/0); low plasticity; soft; moist; hydrogen sulfide odor.	CL		
				102697		3.0 - 6.5' CLAYEY SILT: (5,5,60,30); Grey (7.5YR5/0); low plasticity; stiff; moist.	ML		8-Inch Diameter Borehole
5.0	3 4 6	10			0	@ 5.0' Change in color to Black (2.5YR2/0); soft; hydrogen sulfide odor.			
▽				102698					6.5 Volclay Bentonite Grout
				235026		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5			W						
10.0									10.0

MEMES1093.AUGPS

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5328 Exp. June 30, 1994 STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST

TITLE

SOIL DRILLING L G

SB/MW #: SB2-4
D- 15760
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 5/4/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
						1.5 - 6.5' CLAYEY SILT: (5,10,55,30); Light grey (7.5YR7/0); low plasticity; stiff; moist.	ML		8-Inch Diameter Borehole
2.5	4 8 14	22		102691	11				
5.0	11 12 16	28		102692	0				6.5 Volclay Bentonite Grout
▽			W	235020		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5									
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5228
Exp. June 30, 1994
STATE OF CALIFORNIA

RAEME 5/27/93 AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. Assoc. Geotechnist
TITLE

SOIL DRILLING LOG

SB25

Page 1

Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California

DC ELEVATION (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'

ONITORING DEVICE OVM 580B SCREENED INTERVAL

SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61

PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water

MEMO

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 2.5' ASPHALT AND ROAD BASE			Concrete (1.0)
2.5	8 18 23	41		101233 101234	0	2.5 - 6.5' SILTY CLAY WITH GRAVEL (FILL): (20,5,35,40); Dark grey (7.5YR4/0); moderate plasticity; fine to coarse gravel; stiff; moist; wood fragments.	CH		8-Inch Diameter Borehole
5.0	6 5 4	9		101235 101236 234977-9	0	@ 6.0' Color change to black (2.5Y2/0), moist to saturated.			Volclay Bentonite Grout
▽						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			(6.5)
7.5									
10.0									(10.0)

BARNES.SOIL\LAUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC GEOSCIENTIST

TITLE

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5828
Exp. June 30, 19[illegible]
STATE OF CALIF

SOIL DRILLING LOG

SB26

SB/M: 15793
D-
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			Concrete
									1.0
						1.5 - 6.4' CLAYEY SILT WITH GRAVEL (FILL): (20,5,45,30); Greenish gray (5BG5/1); low plasticity; hard; dry to moist; petroleum odor; wood fragments.	ML		8-Inch Diameter Borehole
	9	43			0				
2.5	19			101217					
	24								
									Volclay Bentonite Grout
					0	@ 6.0' Color change to black (2.5YR2/0).			
5.0	3	12					SW		6.5
	5			101218		6.4 - 6.5' SAND: (0,95,5,0); Black (2.5YR2/0); fine to medium sand; soft; moist; petroleum odor.			
	7			235040		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
▽ 7.5				W					
10.0									10.0

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5328 Exp. June 30, 1994 STATE OF CALIFORNIA

RAEME 5/27/93.AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST
TITLE

SOIL DRILLING L[illegible] G

D [illegible]

Page 1 of 1

Geologist: S. Germanas

SB2-7

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California

TOC ELEVATION ____ (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'

MONITORING DEVICE OVM 580B SCREENED INTERVAL ____

SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61

PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water

MEMO ____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 2.0' ASPHALT AND ROAD BASE			Concrete
2.5	19 30 50	80		101231	0	2.0 - 3.5' SILTY GRAVEL (FILL): (70,5,25,0); Dark reddish brown (5YR3/2); coarse rounded gravel to 2"; fine sand; hard; dry to damp.	GM		8-Inch Diameter Borehole
5.0	16 13 12	25		101232	0	3.5 - 6.5' GRAVEL WITH SAND (FILL): (60,30,5,5); Dark grey (2.5Y4/0); coarse gravel to 2"; coarse sand; dense; moist to saturated; brick fragments.	GW		Volclay Bentonite Grout
▽				234974		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5									
10.0									

1.0

6.5

10.0

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST

TITLE

SOIL DRILLING L(G

SB/MW #: [illegible]
D- 15764
Page 1 of 1
Geologist: S. Germanas

SB28

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION ____ (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL ____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO ____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	20 18 16	34		101215	0	1.5 - 6.5' CLAYEY SILT WITH GRAVEL (FILL): (20,10,45,25); Black (2.5Y2/0); low plasticity; hard; dry to moist; brick and concrete clasts; strong petroleum odor.	ML		8-Inch Diameter Borehole
5.0	3 4 5	9		101216 235035	0				6.5 Volclay Bentonite Grout
▽						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5									
10.0									10.0

MEME_SB2793.AUGPS

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5226
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

Sr. Assoc. Geotechnical

TITLE

SOIL DRILLING LOG

SB/MW #: SB2-9
D- 15762
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SB2-9

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION ____ (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL ____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO ____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	10 17 11	28		102699	0	1.5 - 5.0' CLAYEY SILT WITH GRAVEL (FILL): (20,10,45,25); Dark grey (2.5Y4/0); low plasticity; dense; dry to moist; brick, steel scrap and concrete fragments; odd odor.	ML		8-Inch Diameter Borehole
5.0	3 4 5	9		102700	0	5.0 - 6.5' GRAVELLY SILT: (35,5,45,15); Dark grey (2.5Y4/0); low plasticity fines; dense moist to saturated; odd odor.	ML		6.5 Volclay Bentonite Grout
▽			W	235029		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
7.5									
10.0									10.0

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5828 Exp. June 30, 1994 STATE OF CALIFORNIA

BAEME3G0793.AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

Sr. Assoc Geoscientist
TITLE

SOIL DRILLING LOG

SB/MW #: SB2-10
D- 15763
Page 1 of 1
Geologist: S. Germanas

McLaren Hart

SIGNATURE OF GEOLOGIST

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 5/4/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	7 9 13	21		101213	0	1.5 - 6.0' CLAYEY SILT: (5,15,45,35); Dark reddish brown (5YR3/2); low plasticity; stiff; dry to moist.	ML		8-Inch Diameter Borehole
5.0	2 3 9	12			0				
▽				101214		6.0 - 6.5' SAND: (5,90,5,0); Black (2.5Y2/0); loose; saturated; asphalt fragments; petroleum odor.	SW		6.5 Volclay Bentonite Grout
7.5			W	235032		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR ASSOC GEOSCIENTIST
TITLE

SOIL DRILLING L[illegible]

SB2-11

Page [illegible] Geologist: S. Germa[illegible]

McLaren Hart

SIGNATURE OF GEOLOGIST

Bank of America — LOCATION — Days Inn Hotel, Emeryville, California

EVATION [illegible] (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'

ORING DEVICE OVM 580B SCREENED INTERVAL

G METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61

TAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water

Penetration Results: Blows 6"-6"-6"	BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description: Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
					0.0 - 1.5' ASPHALT AND ROAD BASE			Concrete
9 15 17	32		101223	0	1.5 - 6.5' SILTY CLAY WITH GRAVEL (FILL): (25,5,30,40); Dark grey (2.5Y4/0); low plasticity; stiff; dry to moist.	CL		8-Inch Diameter Borehole
				0	@ 6.0' Color change to black (2.5Y2/0).			Volclay Bentonite Grout
6 10 20	30		101224 235047		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			

1.0 — 6.5 — 10.0

REGISTERED GEOLOGIST SAULIUS V. GERMANAS No. 5328 Exp. June 30, 1994 STATE OF CALIFORNIA

SIGNATURE OF REVIEWER

SR. Assoc. Geoscientist

TITLE

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

SOIL DRILLING LOG

SB-12

SB/M... # D- 13/46
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
SURFACE ELEVATION (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
						0.0 - 2.0' ASPHALT AND ROAD BASE			Concrete
2.5	13 16 23	39		101219 101220	0	2.0 - 6.5' SILTY CLAY WITH GRAVEL (FILL): (20,5,35,40); Greenish grey (5BG5/1); low plasticity; hard; moist; odd odor.	CL		8-Inch Diameter Borehole
5.0	4 4 12	16		101221 101222 235041-4	0	@ 5.5' Color change to black (2.5Y2/0), brick fragments.			Volclay Bentonite Grout
7.5						6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
10.0									

1.0
6.5
10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5228
Exp. June 30, 1994
STATE OF CALIFORNIA

SIGNATURE OF REVIEWER
Sr. Assoc. Geoscientist
TITLE

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

BAEME 5/27/93 AUGPS

SOIL DRILLING LOG

SB/MW #: SB2-13
D- 15768
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION _____ (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL _____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO _____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	11 18 22	40		101225	0	1.5 - 6.5' SILTY CLAY WITH GRAVEL (FILL): (10,5,30,45); Greenish grey (5BG5/1); low plasticity fines; stiff; moist; steel fragments.	CL		8-Inch Diameter Borehole
5.0	3 4 5	9		101226	0	@ 6.0' Color change to black (2.5Y2/0), petroleum odor.			6.5 Volclay Bentonite Grout
7.5			W	235049		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

SAENKE 3/27/93 AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST
TITLE

SOIL DRILLING LOG

SB/MW #: SB2-14
D- 15769
Page 1 of 1
Geologist: S. Germanas

SIGNATURE OF GEOLOGIST

McLaren Hart

PROJECT Bank of America LOCATION Days Inn Hotel, Emeryville, California
TOC ELEVATION ____ (MSL) DATE(S) 5/5/93 TOTAL DEPTH 10.0'
MONITORING DEVICE OVM 580B SCREENED INTERVAL ____
SAMPLING METHOD Cal. Mod. SUBCONTRACTOR & EQPT Gregg Drilling/Mobile B-61
PERCENTAGE ORDER: (GRAVEL,SAND,SILT,CLAY) MEMO ▽ =First Water
MEMO ____

Depth Below Surface (ft.)	Penetration Results: Blows 6"-6"-6"	Penetration Results: BPF	Sampler Interval/ Recovery	Sample ID #	OVA reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Borehole Abandonment/ Well Construction Details
0						0.0 - 1.5' ASPHALT AND ROAD BASE			1.0 Concrete
2.5	9 17 11	28		101227 101228	0	1.5 - 6.5' SILTY CLAY WITH GRAVEL (FILL): (25,10,25,40); Dark grey (GLEY N4/); low plasticity fines; stiff; moist; wood and nails.	CL		8-Inch Diameter Borehole
5.0	3 2 4	6		101229 101230	0	@5.0' Color change to black (2.5Y2/0), very large wood fragments.			
▽				234969-7		6.5 - 10.0' Hydropunch Probe Pushed, No Soil Samples Collected			6.5 Volclay Bentonite Grout
7.5									
10.0									10.0

REGISTERED GEOLOGIST
SAULIUS V. GERMANAS
No. 5328
Exp. June 30, 1994
STATE OF CALIFORNIA

RAEME3/27/93.AUGPS

SIGNATURE OF FIELD SUPERVISOR AND REVIEWER

TITLE

SIGNATURE OF REVIEWER

SR. ASSOC. GEOSCIENTIST
TITLE

APPENDIX II

SOIL SAMPLE ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California
Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/04/93
Date Received: 05/04/93
Date Analyzed: 05/04/93
Batch: SA-160 Matrix: Soil
Conc. Unit mg/kg (ppm)

Project: 1603 Powell St. Emeryville

"ND" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	TOG 5520F	8015M/TPH Diesel	8020 B / T / E / X
DETECTION LIMIT	1 ppm	0.05 ppm	0.0005 ppm
101213	ND	ND	ND / ND / ND / ND
101214	142	ND	ND / ND / ND / ND
101215	402	188.91	ND / ND / ND / ND
101216	18996	2867.81	18.7174/11.9169/23.9998/25.2344
102689	3	ND	ND / ND / ND / ND
102690	ND	ND	ND / ND / ND / ND
102691	ND	ND	ND / ND / ND / ND
102692	ND	ND	ND / ND / ND / ND
102693	ND	ND	ND / ND / ND / ND
102696	4	0.39	ND / ND / ND / ND
102697	ND	ND	ND / ND / ND / ND
102698	ND	ND	ND / ND / ND / ND
102699	256	ND	ND / ND / ND / ND
102700	5	ND	ND / ND / ND / ND

Reviewed and approved by George Tsai, May 06, 1993
George Tsai, Laboratory Director

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

****

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/04/93
Date Received: 05/04/93
Date Analyzed: 05/04/93
Batch: SA-160 Matrix:(Water)/Soil
Conc. Unit ug/kg (ppb)

Project: 1603 Powell St. Emeryville

****

"**ND**" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	8015M/TPH Gasoline
DETECTION LIMIT	50 ppb
101216	69300
(235035)	(9930)

Reviewed and approved by George Tsai, Laboratory Director May 06, 1993

Geochem ENVIRONMENTAL LABORATORIES
Mobile & In-House Laboratories Certified by State of Californi
Phone: (408) 955-9988 / FAX: (408) 955-953

QUALITY CONTROL RESULTS

Analysis: 8015M/TPH Gasoline, 8020 BTEX & 5520F

Date of Analysis: 05/04/93

Laboratory Sample #: SD050493.1

Client Sample #: 102689

	Sample Conc. (ppm)	Spike Conc. (ppm)	MS (ppm)	Rec. #1 (%)	MSD (ppm)	Rec. #2 (%)	Rel. Diff (%)
8015M/TPH	0	1500.00	1315.30	88	1536.21	102	14
Benzene	0	87.5000	84.8121	97	92.3124	105	8
Toluene	0	87.5000	88.2942	101	92.1295	105	4
Ethyl Benzene	0	87.5000	84.0690	96	85.1673	97	1
Xylenes	0	175.0000	169.1700	97	175.0117	100	3
5520F	0	25	27	108	25	100	8

Reviewed and approved by George Tsai MAY 06, 1993
George Tsai, Laboratory Director

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/05/93
Date Received: 05/05/93
Date Analyzed: 05/05/93
Batch: SA-161 Matrix: Soil
Conc. Unit mg/kg (ppm)

Project: 1603 Powell St. Emeryville

"ND" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	TOG 5520F	8015M/TPH Diesel	8020 B / T / E / X
DETECTION LIMIT	1 ppm	0.05 ppm	0.0005 ppm
101217	ND	ND	ND / ND / ND / ND
101218	ND	ND	ND / ND / ND / ND
101219	ND	ND	ND / ND / ND / ND
101221	4	ND	0.1834/ 0.2014/ ND / 0.2418
101223	2	ND	0.3957/ 0.2916/ 0.2722/ 0.8942
101224	2	ND	0.2033/ 0.1066/ ND / 0.5951
101225	ND	ND	ND / ND / ND / ND
101226	692	206.74	ND / ND / ND / 1.1564
101227	120	10.46	ND / ND / ND / ND
101229	4	ND	ND / ND / ND / ND
101231	ND	ND	ND / ND / ND / ND
101232	ND	ND	ND / ND / ND / ND
101233	ND	ND	ND / ND / ND / ND
101235	ND	ND	ND / ND / ND / ND

Reviewed and approved by George Tsai, May 06, 1993
George Tsai, Laboratory Director

Geochem ENVIRONMENTAL LABORATORIES
Mobile & In-House Laboratories Certified by State of California
Phone: (408) 955-9988 / FAX: (408) 955-9538

QUALITY CONTROL RESULTS

Analysis: 8015M/TPH Gasoline, 8020 BTEX & 5520F

Date of Analysis: 05/05/93

Laboratory Sample #: SD050593.1

Client Sample #: 101217

	Sample Conc. (ppm)	Spike Conc. (ppm)	MS (ppm)	Rec. #1 (%)	MSD (ppm)	Rec. #2 (%)	Rel. Diff (%)
8015M/TPH	0	1500.00	1491.74	99	1599.22	106	7
Benzene	0	87.5000	78.2487	89	79.6734	91	2
Toluene	0	87.5000	70.8792	81	72.4142	83	2
Ethyl Benzene	0	87.5000	93.4779	106	91.3614	104	2
Xylenes	0	175.0000	143.3594	82	155.5222	89	7
5520F	0	25	25	100	25	100	0

Reviewed and approved by George Tsai, May 06, 1993
George Tsai, Laboratory Director

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

****

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/05/93
Date Received: 05/05/93
Date Analyzed: 05/05/93
Batch: SA-161 Matrix: Soil
Conc. Unit mg/kg (ppm)

Project: 1603 Powell St. Emeryville

****

"**ND**" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	8015M/TPH Gasoline
DETECTION LIMIT	0.05 ppm
101221	2.53
101223	2.03
101224	1.78

Reviewed and approved by George Tsai, Laboratory Director May 06, 1993

SUMMARY of ANALYSIS

GEOCHEM ENVIRONMENTAL LABORATORIES

CLIENT: McLaren / Hart ATTN: Saul Gelmans

PROJECT: 1603 Powell St. Emeryville III DATE: 05.04.93

	SAMPLE I.D.	(ppm) 5520 F	(ppm) 8015M TPH/DIESEL		8020 (602) (ppm) B	T	E	X
SB2-1 3'	102689	3	ND		ND	ND	ND	ND
B2-1 6'	102690	ND	ND		ND	ND	ND	ND
SB2-1	(235019)	(7,506)	ND		(ND)	(ND)	(ND)	(ND)
B2-4 3'	102691	ND	ND		14	ND	ND	ND
B2-4 6'	102692	ND	ND		ND	ND	ND	ND
SB2-4	(235020)	(126)	(ND)		(ND)	(ND)	(ND)	(ND)
-2B 3'	102693	ND	ND		ND	ND	ND	ND
B2-2B 6'	102696	4	0.39		ND	ND	ND	ND
B2-2B	(235024)	(13)	(9.27)		(ND)	(ND)	(ND)	(0.9510)
2-3 3'	102697	ND	ND		ND	ND	ND	ND
B2-3 6'	102698	ND	ND		ND	ND	ND	ND
B2-3	(235026)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)
SB2-9 3'	102699	256	ND		ND	ND	ND	ND
2-9 6'	102700	5	ND		ND	ND	ND	ND
B2-9	(235029)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)
B2-10 3'	101213	ND	ND		ND	ND	ND	ND
2-10 6'	101219	192	ND		ND	ND	ND	ND
SB2-10	(235032)	(46)	(ND)		(ND)	(ND)	(ND)	(ND)

SUMMARY of ANALYSIS

GEOCHEM ENVIRONMENTAL LABORATORIES

CLIENT: McLaren / Hart ATTN: Saul Gehranas

PROJECT: 1603 Powell St. DATE: 05.04.93

Emeryville II.

SAMPLE I.D.	5520 F (ppm)	8015M TPH/DIESEL	8015M TPH/GAS	8020 (602) (ppm) B	T	E	X
SB2-8 3' 101215	402	188.91		ND	ND	ND	ND
SB2-8 6' 101216	18996	2867.81	69.30	18.7174	11.9169	23.9998	25.2344
SB2-8 (235035)	(110)	(273.86)	9.93	(0.8341)	(0.7137)	(1.4954)	(3.5203)

SUMMARY of ANALYSIS

GEOCHEM ENVIRONMENTAL LABORATORIES

CLIENT: McLaren / Hart ATTN: Saul Germans

PROJECT: 1603 Powell St. DATE: 05-05-93

Emeryville

SAMPLE I.D.	TOG (ppm) 5520 F	8015M (ppm) TPH/DIESEL		8020 (8602) (ppm) B	T	E	X
SB2-6 3'	101217	ND	ND		ND	ND	ND	ND
SB2-6 6'	101218	ND	ND		ND	ND	ND	ND
SB2-6	(235040)	(2)	(ND)		(ND)	(ND)	(ND)	(ND)
SB2-12 3'	101219	ND	ND		ND	ND	ND	ND
SB2-12 6'	101221	4	ND	2.53	0.1839	0.204	ND	0.2918
SB2-12	(235041)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)
SB2-11 3'	101223	2	ND	2.03	0.3957	0.2916	0.2722	0.8942
SB2-11 6'	101224	2	ND	1.78	0.2033	0.1066	ND	0.5951
SB2-11	(235047)	(ND)	(ND)	(ND)	(ND)	(ND)	(ND)	(ND)
SB2-13 3'	101225	ND	ND		ND	ND	ND	ND
SB2-13 5.5'	101226	692	206.79		ND	ND	ND	1.1564
SB2-13	(235049)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)
SB2-14 3'	101227	120	10.96		ND	ND	ND	ND
SB2-14 6'	101229	4	ND		ND	ND	ND	ND
SB2-14	(234969)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)
SB2-7 3'	101231	ND	ND		ND	ND	ND	ND
SB2-7 6'	101232	ND	ND		ND	ND	ND	ND
SB2-7	234974	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)

SUMMARY of ANALYSIS

GEOCHEM ENVIRONMENTAL LABORATORIES

CLIENT: McLaren / Hart ATTN: Saul Gamboas

PROJECT: 1603 Powell St. DATE: 05-05-98

Emeryville III

SAMPLE I.D.	TOC (ppm) 5520 f	8015M (ppm) TPH/Diesel		8020 (602) (ppm) B	T	E	X
SB2-5 5' 101233	ND	ND		ND	ND	ND	ND
SB2-5 6' 101235	ND	ND		ND	ND	ND	ND
SB2-5 (23977)	(ND)	(ND)		(ND)	(ND)	(ND)	(ND)

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05.04.93 Page 1 of 3

TESTS REQUIRED

CLIENT	PROJECT NAME
McLaren / Hart	1603 Powell St. Emeryville III
ADDRESS	**PROJECT MANAGER**
1135 ATLANTIC AVE.	Saul Guemaras
ALAMEDA, CA 94501	**PHONE NUMBER**
510.521.5200	(510) 748-5628

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX AIR	MATRIX WATER	MATRIX SOIL	NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
102689	BS-2-1-(3-3.5)	05.04.93	10:15A			X	1	X		X		X					
102690	BS-2-1-(6-6.5)	05.04.93	10:15A			X	1	X		X		X					
235017	18-19	05.04.93	10:20A		V		3	X		X		X					
102691	SB-2-4-(3.0)	05.04.93	11:45A			X	1	X		X		X					
102692	SB-2-4-(6.0)	05.04.93	11:45A			X	1	X		X		X					
235020		05.04.93	12:15P		X		1	X		X		X					
102693	SB-2-2B-(2.5-3)	05.04.93	12:50P			X	1	X		X		X					
102696	SB-2-2B-(5.5-6)	05.04.93	12:50P			X	1	X		X		X					
235024		05.04.93	1:00P		X		2	X		X		X					
		05.04.93															

Sampled/Relinquished by: Saul Guemaras	Received by:	Date 05-04-93	Time 5:45pm.
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time

Turnaround time: Mobile² Lab
24 hr. 48 hr. Normal (3-5 days)

Special Instructions:

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05.04.93 Page 2 of 3

CLIENT: McLaren / Hart
ADDRESS: 1135 Atlantic Ave.
Alameda, CA. 94501
(510) 521-5200

PROJECT NAME: 1403 Powell St., Emeryville
PROJECT MANAGER: Saul Germanas
PHONE NUMBER: (510) 748-5628

TESTS REQUIRED

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX: AIR	MATRIX: WATER	MATRIX: SOIL	NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
102697	SB-2-3-(3-3.5)	05.04.93	1:50p			X	1	X		X		X					
102698	SB-2-3-(5.5-6)	05.04.93	1:55p			X	1	X		X		X					
(235026)		05.04.93	2:00p		X		1	X		X		X					
102699	SB-2-9(3-3.5)	05.04.93	2:40p			X	1	X		X		X					
102700	SB-2-9(6-6.5)	05.04.93	2:40p			VOA X	1	X		X		X					
101213	SB-2-10-(3-3.5)	05.04.93	3:15p			X	1	X		X		X					
101214	SB-2-10-(6-6.5)	05.04.93	3:20p			X	1	X		X		X					
(235029)		05-04.93	2:45p		X	X	1	X		X		X					
(235032)		05-04.93	4:15p		X	X	1	X		X		X					

Sampled/Relinquished by: Saul Germanas — Received by: — Date 05.04.93 — Time 5:45p.m.
Relinquished by: — Received by: — Date — Time
Relinquished by: — Received by: — Date — Time

Turnaround time: Mobile Lab
24 hr. 48 hr. Normal (3-5 days)

Special Instructions:

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05-04-93 Page 3 of 3

CLIENT	PROJECT NAME
McLaren / Hart	1603 Powell St. Emeryville, CA
ADDRESS	**PROJECT MANAGER**
1135 Atlantic Ave.	Saul Goldman
Alameda, CA. 94501	**PHONE NUMBER**
(510) 521-5200	(510) 748-5628

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX AIR	MATRIX WATER	MATRIX SOIL	NO. OF CTNR	TESTS REQUIRED: 418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
101215	SB2-8-(3-3.5)	05-04-93	4:15p.			X	1	X		X		X					
101216	SB2-8-(6-6.5')	05-04-93	4:30p			X	1	X		X	X	X					
(235035)		05-04-93	4:40p		X		3	X		X	X	X					

Sampled/Relinquished by:	Received by:	Date	Time
		05-04-93	5:45pm
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time

Turnaround time: Mobile Lab.
24 hr. 48 hr. Normal (3-5 days)

Special Instructions:

QUALITY CONTROL DEFINITIONS

METHOD BLANK RESULTS: A method blank (MB) is a laboratory generated sample free of any contamination. The method blank assesses the degree to which the laboratory operations and procedures cause false-positive analytical results for your samples.

LABORATORY CONTROL SPIKES

The LCS Program:

The laboratory control spike is a well-characterized matrix (organic pure type II water for water samples and contamination-free sand for soil samples) which is spiked with certain target parameters, and analyzed in duplicate at approximately 5% of the sample load, in order to assure the accuracy and precision of the analytical method.

Control limits for accuracy and precision are different for different methods and may vary with the different sample matrices. They are based on laboratory average historical data and EPA limits which are approved by the Quality Assurance Department.

QUALITY CONTROL REPORT

METHOD BLANK

Method: Mod. EPA 8015
Units: mg/L (ppm)

Date Analyzed: 05/08/93
Date Extracted: 05/07/93
Batch Number: 930507-3501

Petroleum Fraction	Carbon Range	Reporting Limit	Concentration
Gasoline Range	C7 - C14	0.50	BRL
Jet Fuel Range	C12 - C18	0.50	BRL
Kerosene Range	C12 - C18	0.50	BRL
Diesel Range	C12 - C22	0.50	BRL
Motor Oil Range	C22 - C32	0.50	BRL
Total Petroleum Hydrocarbons		0.50	BRL

(DC2-CN7507)

Laboratory Control Sample/Laboratory Control Sample Duplicate
Method 8015 - Modified

LP#: 7507

Analyst: EB

Batch #: 930504-1903

Date Of Analysis: 05/07/93

Spike Sample ID: LCSW/LCSDW #54

Column: DB-1

Spike ID Code: W2-1565, W2-1556

Instrument #: PGC #4

Surrogate ID Code: NA

Matrix: Water Units: mg/L

COMPOUNDS	(a) SAMPLE CONC.	(b) SPIKE CONC.	(c) SAMPLE + SPIKE CONC.	(d) SPIKE REC. %	(e) SAMPLE DUP. + SPIKE CONC.	(f) SPIKE DUP. REC. %	(g) RPD %	ACCEPTANCE LIMITS % REC	ACCEPTANCE LIMITS RPD
Gasoline	0	2.50	1.33	53	0.97	39	31[a]	26 - 90	≤ 25
Diesel	0	2.50	2.28	91	2.22	89	3	43 - 152	≤ 25

Spike Recovery = d = ((c-a)/b) x 100
Spike Duplicate Recovery = f = ((e-a)/b) x 100
Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

[a] The RPD is beyond advisory matrix spike limits. All other QC meets the Laboratory's acceptance criteria.

QUALITY CONTROL REPORT

METHOD BLANK

Method: Mod. EPA 8015
Units: mg/Kg (ppm)

Date Analyzed: 05/08/93
Date Extracted: 05/07/93
Batch Number: 930507-3502

Petroleum Fraction	Carbon Range	Reporting Limit	Concentration
Gasoline Range	C7 - C14	10	BRL
Jet Fuel Range	C12 - C18	10	BRL
Kerosene Range	C12 - C18	10	BRL
Diesel Range	C12 - C22	10	BRL
Motor Oil Range	C22 - C32	10	BRL
Total Petroleum Hydrocarbons		10	BRL

Laboratory Control Sample/Laboratory Control Sample Duplicate
Method 8015 - Modified

LP#: 7507

Analyst: EB

Batch #: 930507-3502

Date Of Analysis: 05/08/93

Spike Sample ID: LCSS/LCSDS #61

Column: DB-1

Spike ID Code: W2-1565, W2-1593

Instrument #: PGC #4

Surrogate ID Code: NA

Matrix: Soil Units: mg/Kg

COMPOUNDS	(a) SAMPLE CONC.	(b) SPIKE CONC.	(c) SAMPLE + SPIKE CONC.	(d) SPIKE REC. %	(e) SAMPLE DUP. + SPIKE CONC.	(f) SPIKE DUP. REC. %	(g) RPD %	ACCEPTANCE LIMITS % REC.	ACCEPTANCE LIMITS RPD
Gasoline	0	83.3	54.4	65	46.5	56	16	40 - 84	≤ 25
Diesel	0	83.3	59.9	72	60.2	72	0	50 - 121	≤ 25

Spike Recovery = d = ((c-a)/b) x 100
Spike Duplicate Recovery = f = ((e-a)/b) x 100
Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

ABBREVIATIONS USED IN THIS REPORT

BRL	Below Reporting Limit
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
RPD	Relative Percent Difference
NS	Not Specified
NA	Not Applicable

COMMENTS

Test methods may include minor modifications of published EPA methods (e.g., reporting limits or parameter lists). Reporting limits are adjusted to reflect dilution of the sample when appropriate. Solids and waste are analyzed with no correction made for moisture content.

Values for total petroleum hydrocarbons were calculated based only on detected peaks.

The gasoline standard was obtained from a local BP station. Gasoline is sold commercially as unleaded gasoline.

The diesel standard was obtained from a local Chevron station. Diesel is sold commercially as Diesel Fuel #2.

The kerosene standard was obtained from Post Jeff Chevron/Mobil Products. Kerosene is sold commercially as jet fuel and kerosene. Other jet fuel sources may produce different instrument responses and contain different hydrocarbon chains. The kerosene standard contains the same hydrocarbon chain as commercial jet fuel.

The motor oil standard was obtained from a local automotive store. Manufacturer and motor oil type are Pennzoil SAE 10W-40.

The laboratory reported result for Total Petroleum Hydrocarbons is a summation result of the individual analytes.

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-2B @ 3.0

Lab Project-ID Number: 7507-005

Sample Number: 102694

Date Sampled: 05/04/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 5-14-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-2B @ 6.0

Lab Project-ID Number: 7507-006

Sample Number: 102695

Date Sampled: 05/04/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 5-14-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-12 @ 3.0

Lab Project-ID Number: 7507-007

Sample Number: 101220

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	68	10
Total Petroleum Hydrocarbons		68	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 5-14-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-12 @ 6.0

Lab Project-ID Number: 7507-008

Sample Number: 101222

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 5-14-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-14 @ 3.0

Lab Project-ID Number: 7507-009

Sample Number: 101228

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-14 @ 6.0

Lab Project-ID Number: 7507-010

Sample Number: 101230

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-5 @ 3.0

Lab Project-ID Number: 7507-011

Sample Number: 101234

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-5 @ 6.25

Lab Project-ID Number: 7507-012

Sample Number: 101236

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3502

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 5-14-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

QUALITY CONTROL DEFINITIONS

METHOD BLANK RESULTS: A method blank (MB) is a laboratory generated sample free of any contamination. The method blank assesses the degree to which the laboratory operations and procedures cause false-positive analytical results for your samples.

LABORATORY CONTROL SPIKES

The LCS Program:

The laboratory control spike is a well-characterized matrix (organic pure type II water for water samples and contamination-free sand for soil samples) which is spiked with certain target parameters, and analyzed in duplicate at approximately 5% of the sample load, in order to assure the accuracy and precision of the analytical method.

Control limits for accuracy and precision are different for different methods and may vary with the different sample matrices. They are based on laboratory average historical data and EPA limits which are approved by the Quality Assurance Department.

QUALITY CONTROL REPORT

METHOD BLANK

Method: Metals
Units: mg/Kg (ppm)

Date Analyzed: 03/24/93
Date Digested: 03/22/93
Batch Number: 930322-1301

Analyte	Reporting Limit	Concentration
Lead (Pb)/6010	2.5	BRL

(DC3-CN7326)

McLaren Hart sm

Laboratory Control Sample/Laboratory Control Sample Duplicate
Metals

LP#: 7326

Analyst: RJ

Instrument #: ICP #1

Date of Analysis: 03/24/93

Spike Sample ID: LCSS/LCSDS

Date of Digestion: 03/22/93

Spike ID Code: 4-1491

Batch #: 930322-1301

Matrix: Soil Units: mg/Kg

METALS	(a) SAMPLE CONC.	(b) SPIKE CONC.	(c) SAMPLE + SPIKE CONC.	(d) SPIKE REC.%	(e) SAMPLE DUP. + SPIKE CONC	(f) SPIKE DUP. REC.%	(g) RPD %	ACCEPTANCE LIMITS REC%	ACCEPTANCE LIMITS RPD
Pb	0	25	23.8	95	25.5	102	7	75 - 125	≤20

Spike Recovery = d = ((c-a)/b) x 100

Spike Duplicate Recovery = f = ((e-a)/b) x 100

Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

McLaren Hart sm

QUALITY CONTROL REPORT

METHOD BLANK

Method: Mod. EPA 8015
Units: mg/Kg (ppm)

Date Analyzed: 03/23/93
Date Extracted: 03/22/93
Batch Number: 930322-1901

Petroleum Fraction	Carbon Range	Reporting Limit	Concentration
Gasoline Range	C7 - C14	10	BRL
Jet Fuel Range	C12 - C18	10	BRL
Kerosene Range	C12 - C18	10	BRL
Diesel Range	C12 - C22	10	BRL
Motor Oil Range	C22 - C32	10	BRL
Total Petroleum Hydrocarbons		10	BRL

Laboratory Control Sample/Laboratory Control Sample Duplicate
Method 8015 - Modified

LP#: 7326

Analyst: EB

Batch #: 930322-1901

Date Of Analysis: 03/23/93

Spike Sample ID: LCSS/LCSDS #52

Column: DB-1

Spike ID Code: W2-1413 W2-1556

Instrument #: PGC #4

Surrogate ID Code: NA

Matrix: Soil Units: mg/Kg

COMPOUNDS	(a) SAMPLE CONC.	(b) SPIKE CONC.	(c) SAMPLE + SPIKE CONC.	(d) SPIKE REC. %	(e) SAMPLE DUP. + SPIKE CONC.	(f) SPIKE DUP. REC. %	(g) RPD %	ACCEPTANCE LIMITS % REC.	ACCEPTANCE LIMITS RPD
Gasoline	0	83.3	44.6	54	47.7	57	7	40 - 84	≤ 25
Diesel	0	83.3	77.9	94	72.6	87	7	50 - 121	≤ 25

Spike Recovery = d = ((c-a)/b) x 100
Spike Duplicate Recovery = f = ((e-a)/b) x 100
Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

McLaren Hart sm

Matrix Spike
Method 8015 - Modified

LP#: 7326

Analyst: EB

Batch #: 930322-1901

Date Of Analysis: 03/25/93

Spike Sample ID: 7326-002MSS #59

Column: DB-1

Spike ID Code: W2-1413 W2-1556

Instrument #: PGC #4

Surrogate ID Code: NA

Matrix: Soil Units: mg/Kg

COMPOUNDS	(a) SAMPLE CONC.	(b) SPIKE CONC.	(c) SAMPLE + SPIKE CONC.	(d) SPIKE REC. %	(e) SAMPLE DUP. + SPIKE CONC.	(f) SPIKE DUP. REC. %	(g) RPD %	ACCEPTANCE LIMITS % REC.	ACCEPTANCE LIMITS RPD
Gasoline	0	83.3	213	256[a]	NA	NA	NA	40 - 84	≤ 25
Diesel	0	83.3	0	0[b]	NA	NA	NA	50 - 121	≤ 25

Spike Recovery = d = ((c-a)/b) x 100
Spike Duplicate Recovery = f = ((e-a)/b) x 100
Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

[a] Matrix spike recovery is beyond advisory acceptance limits; however, the laboratory control sample data are acceptable.

[b] A zero percent matrix spike recovery was obtained; however, the laboratory control sample data are acceptable.

McLaren Hart sm

ABBREVIATIONS USED IN THIS REPORT

BRL	Below Reporting Limit
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
RPD	Relative Percent Difference
NS	Not Specified
NA	Not Applicable

COMMENTS

Test methods may include minor modifications of published EPA methods (e.g., reporting limits or parameter lists). Reporting limits are adjusted to reflect dilution of the sample when appropriate. Solids and waste are analyzed with no correction made for moisture content.

Values for total petroleum hydrocarbons were calculated based only on detected peaks.

The gasoline standard was obtained from a local BP station. Gasoline is sold commercially as unleaded gasoline.

The diesel standard was obtained from a local Chevron station. Diesel is sold commercially as Diesel Fuel #2.

The kerosene standard was obtained from Post Jeff Chevron/Mobil Products. Kerosene is sold commercially as jet fuel and kerosene. Other jet fuel sources may produce different instrument responses and contain different hydrocarbon chains. The kerosene standard contains the same hydrocarbon chain as commercial jet fuel.

The motor oil standard was obtained from a local automotive store. Manufacturer and motor oil type are Pennzoil SAE 10W-40.

The laboratory reported result for Total Petroleum Hydrocarbons is a summation result of the individual analytes.

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-2 @ 4'

Lab Project-ID Number: 7326-001

Sample Number: 53189

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	31	2.5

Comments:

Approved By: NM Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-1 @ 3'

Lab Project-ID Number: 7326-003

Sample Number: 53191

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	54	2.5

Comments:

Approved By: _____ Date: 3.29.93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-3 @ 3'

Lab Project-ID Number: 7326-005

Sample Number: 53193

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	250	2.5

Comments:

Approved By: _____ Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-4 @ 3'

Lab Project-ID Number: 7326-006

Sample Number: 53194

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	39	2.5

Comments:

Approved By: NM Date: 3-29-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-5 @ 3'

Lab Project-ID Number: 7326-008

Sample Number: 53196

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	26	2.5

Comments:

Approved By: _____ Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-6 @ 3'

Lab Project-ID Number: 7326-010

Sample Number: 53198

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	42	2.5

Comments:

Approved By: _____ Date: 3.29.93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

METALS

Analytical Method: EPA 6000
Preparation Method: 3050

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-7 @ 3'

Lab Project-ID Number: 7326-012

Sample Number: 53200

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Digested: 03/22/93

Batch Number: 930322-1301

ANALYTE (SYMBOL)/EPA METHOD	DATE ANALYZED	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Lead (Pb)/6010	03/24/93	18	2.5

Comments:

Approved By: UM Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

020393MTL19

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-2 @ 4'

Lab Project-ID Number: 7326-001

Sample Number: 53189

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/25/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	70	10
Total Petroleum Hydrocarbons		70	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 3.29.93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-2 @ 9'

Lab Project-ID Number: 7326-002

Sample Number: 53190

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/24/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	100
Jet Fuel Range	C12 - C18	BRL	100
Kerosene Range	C12 - C18	BRL	100
Diesel Range	C12 - C22	BRL	100
Motor Oil Range	C22 - C32	1800 (c)	200
Total Petroleum Hydrocarbons		1800	100

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The data was reported from a different analytical run on 03/25/93 at a 20 fold dilution to obtain a result within linear range.

The sample was diluted 10 fold to bring target analytes within linear working range.

Approved By: _____ Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-1 @ 3'

Lab Project-ID Number: 7326-003

Sample Number: 53191

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/26/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	50
Jet Fuel Range	C12 - C18	BRL	50
Kerosene Range	C12 - C18	BRL	50
Diesel Range	C12 - C22	BRL	50
Motor Oil Range	C22 - C32	160	50
Total Petroleum Hydrocarbons		160	50

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

The sample was diluted 5 fold to bring target analytes within linear working range.

Approved By: _____ Date: 3-29-93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-1 @ 6'

Lab Project-ID Number: 7326-004

Sample Number: 53192

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/26/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		BRL	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 3.29.93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-3 @ 3'

Lab Project-ID Number: 7326-005

Sample Number: 53193

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/25/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	100
Jet Fuel Range	C12 - C18	BRL	100
Kerosene Range	C12 - C18	BRL	100
Diesel Range	C12 - C22	120 (c)	100
Motor Oil Range	C22 - C32	280	100
Total Petroleum Hydrocarbons		400	100

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The chromatographic pattern of diesel in the sample does not exactly match the standard chromatograph.

The sample was diluted 10 fold to bring target analytes within linear working range.

Approved By: _____ Date: 3/29/93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-4 @ 3'

Lab Project-ID Number: 7326-006

Sample Number: 53194

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/24/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	15 (d)	10
Motor Oil Range	C22 - C32	320 (c)	50
Total Petroleum Hydrocarbons		340	10

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The data was reported from a different analytical run on 03/25/93 at a 5 fold dilution to obtain a result within linear range.

(d) The chromatographic pattern of diesel in the sample does not exactly match the standard chromatograph.

Approved By: NM Date: 3.29.93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-4 @ 6'

Lab Project-ID Number: 7326-007

Sample Number: 53195

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/26/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	100	10
Motor Oil Range	C22 - C32	BRL	10
Total Petroleum Hydrocarbons		100	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 3-29-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-5 @ 3'

Lab Project-ID Number: 7326-008

Sample Number: 53196

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/24/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	100
Jet Fuel Range	C12 - C18	BRL	100
Kerosene Range	C12 - C18	BRL	100
Diesel Range	C12 - C22	BRL (c)	1000
Motor Oil Range	C22 - C32	1900 (c)	1000
Total Petroleum Hydrocarbons		1900	100

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The data was reported from a different analytical run on 03/25/93 at a 100 fold dilution to obtain a result within linear range.

The sample was diluted 10 fold to bring target analytes within linear working range.

Approved By: NM Date: 3-29-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-5 @ 6'

Lab Project-ID Number: 7326-009

Sample Number: 53197

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/24/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	550 (c)	200
Motor Oil Range	C22 - C32	1200 (c)	200
Total Petroleum Hydrocarbons		1800	10

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The data was reported from a different analytical run on 03/25/93 at a 20 fold dilution to obtain a result within linear range.

Approved By: UM Date: 3/29/93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-6 @ 3'

Lab Project-ID Number: 7326-010

Sample Number: 53198

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/24/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	90 (d)	10
Motor Oil Range	C22 - C32	1300 (c)	100
Total Petroleum Hydrocarbons		1400	10

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The data was reported from a different analytical run on 03/25/93 at a 10 fold dilution to obtain a result within linear range.

(d) The chromatographic pattern of diesel in the sample does not exactly match the standard chromatograph.

Approved By: NM Date: 3.29.93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-6 @ 6'

Lab Project-ID Number: 7326-011

Sample Number: 53199

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/25/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	21	10
Total Petroleum Hydrocarbons		21	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: UM Date: 3-29-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

recycled paper

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-7 @ 3'

Lab Project-ID Number: 7326-012

Sample Number: 53200

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/25/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	BRL	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	31	10
Total Petroleum Hydrocarbons		31	10

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

Approved By: _____ Date: 3.29.93
Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: Modified EPA 3550 (b)

Project Name: B of A - Emeryville

Project Number: 04.0127345.000

Sample Description: SB-7 @ 6'

Lab Project-ID Number: 7326-013

Sample Number: 102688

Date Sampled: 03/18/93

Date Received: 03/19/93

Date Extracted: 03/22/93

Date Analyzed: 03/25/93

Batch Number: 930322-1901

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Gasoline Range	C7 - C14	15 (c)	10
Jet Fuel Range	C12 - C18	BRL	10
Kerosene Range	C12 - C18	BRL	10
Diesel Range	C12 - C22	BRL	10
Motor Oil Range	C22 - C32	17	10
Total Petroleum Hydrocarbons		32	10

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) Shaker is used instead of sonicator for extraction.

(c) The chromatographic pattern of gasoline in the sample does not exactly match the standard chromatograph.

Approved By: UM Date: 3-29-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODS

McLaren Hart sm

McLaren Hart
Environmental Engineering Corporation

CHAIN OF CUSTODY RECORD

2/2 36925

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MDT LAB
Address: 3087 GOLD CANAL DR
RANCHO CORDOVA, CA

Project Name: BOFA EMERYVILLE III
Project Number: 041012735700B
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 7507
Storage Refrigerator ID: 4-17
Storage Freezer ID:

Sampler Name: S. HERMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: Date/Time: 5.5.93 15:40
Received By or Method of Shipment/Shipment I.D. Date/Time: 5-5-93 1620

Relinquished By: Date/Time: 5-5-93 1720
Received By or Method of Shipment/Shipment I.D.: Don Curson Date/Time: 5/6/93 0700

Relinquished By: DON CURSON FEDEX # Date/Time: 5/6/93 0700
Received By or Method of Shipment/Shipment I.D. Date/Time: 5-6-93 0750

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6A [ ] 6B [ ] 6C [ ] 6D [ ] 6E [ ] 7

Write in Analysis Method →

SAMPLE INFORMATION

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	ANALYSES REQUESTED: BOLK MOD
1 7507-005	102694	5.4.93		SB2-2B	3.0	1	B	SOIL	NONE	3	X
2 -006	102695	5.4.93		SB2-2B	6.0						X
3 -007	101220	5.5.93		SB2-12	3.0						X
4 -008	101222	5.5.93		SB2-12	6.0						X
5 -009	101228	5.5.93		SB2-14	3.0						X
6 -010	101230	5.5.93		SB2-14	6.0						X
~~-011~~ -012	101234	5.5.93		SB2-5	3.0						X
8 -012 ~~-013~~	101236	5.5.93		SB2-5	6.25				X		X
9											
10											

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Vos Vial
TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other ____

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: TEMP GOOD; SAMPLES INTACT RN

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: S. HERMANAS / ALAMEDA
- [ ] Client Name:
  Company:
  Address:

Common Analytical Methods
413.1
413.2 Long Method
413.2 Short Method
418.1 Long Method
418.1 Short Method
420.1
502.2
503E
503.1
524.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8060
8100
8150
8240
8270
8310
Acidity
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Corrosivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)*
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Odor
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/G
TPH/G
TSS
Turbidity

* specify Total or Dissolved

McLaren Hart
Environmental Engineering Corporation

CHAIN OF CUSTODY RECORD

1/3

36924

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MBT LAB
Address: 3083 GOLD CANAL
RANCHO CORDOVA, CA

Project Name: BART EMERYVILLE III
Project Number: 7012735900
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 7501
Storage Refrigerator ID: 4-1
Storage Freezer ID:

Sampler Name: S. GERMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: [signature] Date/Time: 5.5.93 15:40
Received By or Method of Shipment/Shipment I.D.: [signature] Date/Time: 5-5-93 1620

Relinquished By: [signature] Date/Time: 5-5-93 1750
Received By or Method of Shipment/Shipment I.D.: DON NELSON Date/Time: 5/6/93 0700

Relinquished By: DON NELSON EXPRESS #1 Date/Time: 5/6/93 0750
Received By or Method of Shipment/Shipment I.D.: [signature] Date/Time: 5-6-93 0750

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6A [ ] 6B [ ] 6C [ ] 6D [ ] 6E [ ] 7

Write in Analysis Method →

SAMPLE INFORMATION

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8015 Mod.	ANALYSES REQUESTED
1 7501-001	234972	5.5.93		SB2-14		1	A	W	NONE	3	X	
2 -002	234979	5.5.93		SB2-5							X	
3 -003	235023	5.4.93		SB2-28							X	
4 -004	235044	5.5.93		SB2-12							X	
5												
6												
7												
8												
9												
10												

Special Instructions/Comments:

Container Types: B=Brass Tube, C=Cassette, G=Glass Jar, O=Other, A=1 Liter Amber, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: TEMP GOOD
SAMPLE INTACT RN

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: S. GERMANAS / ALAMEDA
- [ ] Client Name:
- Company:
- Address:

Common Analytical Methods
413.1
413.2 Long Method
413.2 Short Method
418.1 Long Method
418.1 Short Method
420.1
502.2
503E
503.1
524.2
601
602
604
606
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8060
8100
8150
8240
8270
8310
Acidity
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Corrosivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)*
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Odor
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

McLaren Hart

CHAIN OF CUSTODY RECORD

1/3 35115.

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCLAREN ANALYTICAL
Address: 3083 GOLD CANAL DR
RANCHO CORDOVA, CA

Project Name: BOFA, EMERYVILLE
Project Number: 04.0127345.000
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 7326
Storage Refrigerator ID: 4-8
Storage Freezer ID:

Sampler Name: S. GURMANAS
Signature: [signature]
PPE Worn in Field: LEVEL D

Relinquished By: S. [signature] Date/Time: 3-18-93 14:35
Received By or Method of Shipment/Shipment I.D.: [signature] X5MAYA-IT Date/Time: 3/18/93 1445

Relinquished By: [signature] Date/Time: 03-18-93 .00 [illegible]
Received By or Method of Shipment/Shipment I.D.: [signature] Date/Time: 3-19-93 830

Relinquished By: Date/Time:
Received By or Method of Shipment/Shipment I.D.: Date/Time:

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7

Write in Analysis Method →

ANALYSES REQUESTED

SAMPLE INFORMATION

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s) #	Container(s) Type	Matrix Type	Pres. Type	TAT	8015 Mod	Total Lead
1 7326-001	53189	3-18-93		SB-2	4'	1	B	S	NONE	3	X	X
2 002	53190			SB-2	9'						X	
3 003	53191			SB-1	3'						X	X
4. 004	53192			SB-1	6'						X	
5. 005	53193			SB-3	3'						X	X
6 006	53194			SB-4	3'						X	X
7 007	53195			SB-4	6'						X	
8 008	53196			SB-5	3'						X	X
9 009	53197			SB-5	6'						X	
10 010	53198			SB-6	3'						X	X

Special Instructions/Comments:

Container Types: A=1 Liter Amber, B=Brass Tube, C=Cassette, G=Glass Jar, P=Polyethylene, O=Other, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: Temp OK,
Samples Intact EC

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: SAUL GERMANAS/ALAMEDA
- [ ] Client Name:

Company:
Address:

Common Analytical Methods: 413.1, 413.2, 418.1, 418.1 Short Method, 420.1, 502.2, 503E, 524.2, 601, 602, 604, 608, 610, 624, 625, 8010, 8015, 8015 Mod., 8020, 8021, 8040, 8080, 8100, 8240, 8270, 8310, Alkalinity, BTEX, Chloride, CLP (see Side 2), COD, Color, Conductivity, Cyanide, Flashpoint, Fluoride, General Mineral, Hex. Chromium, Ion Balance, Metals (write specific metal & method #)*, Metals 6010*, Metals PP*, Metals Title 22: TTLC Level, STLC Level (see Side 2), Nitrate, Nitrite, Org. Lead, Org. Mercury, Percent Moisture, Percent Solid, Perchlorate, pH, Phosphates, Phosphorus, Sulfate, Sulfides, TCLP: VOA, Semivoa, Metals, Pesticide, TDS, Total Hardness, Total Solids, TPH/D, TPH/G, TSS, Turbidity

* 1 [illegible] otal or d

McLaren Hart

CHAIN OF CUSTODY RECORD

2/3

35116

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCLAREN ANALYTICAL
Address: 3585 GOLD CANAL DR
RANCHO CORDOVA, CA.

Project Name: BofA EMERYVILLE
Project Number: 04.0127345.000
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 7326
Storage Refrigerator ID: 4-8
Storage Freezer ID:

Sampler Name: S. HERMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: S. [illegible] Date/Time: 3.18.93 14:35
Received By or Method of Shipment/Shipment I.D.: [illegible] 6196 EXP-IT Date/Time: 3/18/93 1440

Relinquished By: [illegible] Date/Time: 3/18/93 1830
Received By or Method of Shipment/Shipment I.D.: Date/Time:

Relinquished By: [illegible] Date/Time:
Received By or Method of Shipment/Shipment I.D.: [illegible] Date/Time: 3/19/93 830

Sample Disposal (check one)
☐ Laboratory Standard
☐ Other

Level of QC (see Side 2)
☑ 1 ☐ 2 ☐ 3 ☐ 4
☐ 5 ☐ 6 ☐ 7

Write in Analysis Method →

SAMPLE INFORMATION

ANALYSES REQUESTED

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8015 Mod	Total Pb									
1 7326-011	53199	3.18.93		SB-6	6'	1	B	S	NONE	3	X										
2 / 012	53200	/		SB-7	3'	/	/	/	/	/	X	X									
3 / 013	102688	/		SB-7	6'	/	/	/	/	/	X										
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other ____

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: Temp OK, Samples intact BC.

SEND DOCUMENTATION AND RESULTS TO (Check one):
☑ Project Manager/Office: SAM HERMANAS / ALAMEDA
☐ Client Name:
Company:
Address:

Common Analytical Methods
413.1
413.2
418.1
418.1 Short Method
420.1
502.2
503E
524.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8080
8100
8240
8270
8310
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

McLaren Hart
Environmental Engineering Corporation

CHAIN OF CUSTODY RECORD

2/2 36925

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCT LAB
Address: 3089 GOLD CANAL DR
RANCHO CORDOVA, CA

Project Name: BOFA EMERYVILLE III
Project Number: 04012735.7005
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 750
Storage Refrigerator ID: 4-19
Storage Freezer ID:

Sampler Name: S. HERMANAS	Signature:	PPE Worn in Field: LEVEL D	
Relinquished By:	Date/Time: 5.5.93 15:40	Received By or Method of Shipment/Shipment I.D.	Date/Time: 5-5-93 1640
Relinquished By:	Date/Time: 5-5-93 17:30	Received By or Method of Shipment/Shipment I.D. Don Carlson	Date/Time: 5/6/93 0700
Relinquished By:	Date/Time: 5/6/93 0730	Received By or Method of Shipment/Shipment I.D.	Date/Time: 5-6-93 0750

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6A [ ] 6B [ ] 6C [ ] 6D [ ] 6E [ ] 7

Write in Analysis Method →

SAMPLE INFORMATION

	FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8010 Mod.	ANALYSES REQUESTED
1	7507-005	102694	5.4.93		SB2-2B	3.0	1	B	SOIL	NONE	3	X	
2	-006	102695	5.4.93		SB2-2B	6.0						X	
3	-007	101220	5.5.93		SB2-12	3.0						X	
4	-008	101222	5.5.93		SB2-12	6.0						X	
5	-009	101228	5.5.93		SB2-14	3.0						X	
6	-010	101230	5.5.93		SB2-14	6.0						X	
7	~~-011~~ -012	101234	5.5.93		SB2-5	3.0						X	
8	-012 ~~-013~~	101236	5.5.93		SB2-5	6.25						X	
9													
10													

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other; A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: TEMP GOOD; SAMPLES INTACT RN

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: S. HERMANAS / ALAMEDA
- [ ] Client Name:
  - Company:
  - Address:

Common Analytical Methods
413.1
413.2 Long Method
413.2 Short Method
418.1 Long Method
418.1 Short Method
420.1
502.2
503E
503.1
524.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8060
8100
8150
8240
8270
8310
Acidity
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Corrosivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)
Metals 6010
Metals PP
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Odor
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

CHAIN OF CUSTODY RECORD

T13 36924

McLaren Hart
Environmental Engineering Corporation

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MBT LAB
Address: 3083 GOLD CANAL
RANCHO CORDOVA, CA

Project Name: BofA EMERYVILLE III
Project Number: 4012735900
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #:
Storage Refrigerator ID:
Storage Freezer ID:

Sampler Name: S. GERMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: [signature] Date/Time: 5.5.93 15:40
Received By or Method of Shipment/Shipment I.D.: [signature] Date/Time: 5-5-93 1620

Relinquished By: [signature] Date/Time: 5.5.93 1730
Received By or Method of Shipment/Shipment I.D.: Con Person Date/Time: 5/6/93 0700

Relinquished By: Con Person Express #1 Date/Time: 5/6/93 0750
Received By or Method of Shipment/Shipment I.D.: [signature] Date/Time: 5-6-93 0750

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6A [ ] 6B [ ] 6C [ ] 6D [ ] 6E [ ] 7

Write in Analysis Method →

SAMPLE INFORMATION

	FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8015 Mod.	ANALYSES REQUESTED
1	7501-001	234972	5.5.93		SB2-14		1	A	W	None	3	X	
2	-002	234979	5.5.93		SB2-5							X	
3	-003	235023	5.4.93		SB2-25							X	
4	-004	235044	5.5.93		SB2-12								
5													
6													
8													
9													
10													

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: TEMP GOOD
SAMPLE INTACT RN

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: S. GERMANAS / ACAMOAK
- [ ] Client Name:
- Company:
- Address:

Common Analytical Methods
413.1
413.2 Long Method
413.2 Short Method
418.1 Long Method
418.1 Short Method
420.1
602.2
503E
503.1
624.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8080
8100
8150
8240
8270
8310
Acidity
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Corrosivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)*
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Odor
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

* Specify Total or Dissolved

McLaren Hart

CHAIN OF CUSTODY RECORD

1/3 35115.

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCLAREN ANALYTICAL
Address: 3083 GOLD CANAL DR
RANCHO CORDOVA, CA

Project Name: BOFA - EMERYVILLE
Project Number: 04.012734S.000
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 13216
Storage Refrigerator ID: 4-8
Storage Freezer ID:

Sampler Name: S. GURMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: S. [illegible] Date/Time: 3.18.93 14:35
Received By or Method of Shipment/Shipment I.D.: [illegible] Date/Time:

Relinquished By: Michael [illegible] Date/Time:
Received By or Method of Shipment/Shipment I.D.: [illegible] Date/Time: 3-19-93 8:30

Relinquished By: Date/Time:
Received By or Method of Shipment/Shipment I.D.: Date/Time:

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7

Write in Analysis Method →

SAMPLE INFORMATION

ANALYSES REQUESTED

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	BOIS MOD	TOTAL LEAD
1	17316-001	53189	3.18.93		SB-2	4'	1	B	S	NONE	3	X	X
2	002	53190			SB-2	9'						X	
3	003	53191			SB-1	3'						X	X
4	004	53192			SB-1	6'						X	
5	005	53193			SB-3	3'						X	X
6	006	53194			SB-4	3'						X	X
7	007	53195			SB-4	6'						X	
8	008	53196			SB-5	3'						X	X
9	009	53197			SB-5	6'						X	
10	010	53198	↓		SB-6	3'	↓	↓	↓	↓	↓	X	X

Common Analytical Methods
413.1
413.2
418.1
418.1 Short Method
420.1
502.2
503E
524.2
601
602
604
606
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8060
8100
8240
8270
8310
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other ____

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: Temp OK, Samples Intact RC

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: SAUL AERMANAS/ACAMDA
- [ ] Client Name:

Company:

Address:

McLaren Hart

CHAIN OF CUSTODY RECORD

2/3

35116

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCLAREN ANALYTICAL
Address: 3083 GOLD CANAL DR
RANCHO CORDOVA, CA.

Project Name: BOFA EMERYVILLE
Project Number: 04.0127345.000
Project Location: (State) EMERYVILLE, CA

FOR LABORATORY USE ONLY
Laboratory Project #: 7326
Storage Refrigerator ID: 4-8
Storage Freezer ID:

Sampler Name: S. HERMANAS
Signature:
PPE Worn in Field: LEVEL D

Relinquished By: S. [illegible] Date/Time: 3.18.93 14:35
Received By or Method of Shipment/Shipment I.D.: [illegible] X619 Exp-17 Date/Time: 3/19/93 1440

Relinquished By: [illegible] Date/Time: 03/19/93 1830
Received By or Method of Shipment/Shipment I.D.: [illegible] Date/Time:

Relinquished By: [illegible]
Received By or Method of Shipment/Shipment I.D.: [illegible] Date/Time: 3/19/93 830

Sample Disposal (check one)
☐ Laboratory Standard
☐ Other

Level of QC (see Side 2) ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

Write in Analysis Method →

SAMPLE INFORMATION

ANALYSES REQUESTED

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8015 Mod	Total Pb								
1 7326 - 011	53199	3.18.93		SB-6	6'	1	B	S	NONE	3	X									
2 012	53200	↓		SB-7	3'	↓	↓	↓	↓	↓	X	X								
3 013	102688	↓		SB-7	6'	↓	↓	↓	↓	↓	X									
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other ____

FOR LABORATORY USE ONLY Sample Condition Upon Receipt: Temp OK, Samples intact BC.

SEND DOCUMENTATION AND RESULTS TO (Check one):
☑ Project Manager/Office: SAN HERMANAS / ALAMEDA
☐ Client Name:
Company:
Address:

Common Analytical Methods
413.1
413.2
418.1
418.1 Short Method
420.1
502.2
503E
624.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8080
8100
8240
8270
8310
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)*
Metals 6010*
Metals PP*
Metals Title 22:
TTLC Level
STLC Level
(see Side 2)
Nitrate
Nitrite
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP:
VOA
Semivoa
Metals
Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TRB
Turbidity

* total or ... rd

APPENDIX III

GROUNDWATER SAMPLE ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California
Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

****

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/05/93
Date Received: 05/05/93
Date Analyzed: 05/05/93
Batch: SA-161 Matrix:Water
Conc. Unit ug/kg (ppb)
(TOG Conc.Unit mg/kg (ppm))

Project: 1603 Powell St. Emeryville

****

"**ND**" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	TOG 5520F	8015M/TPH Diesel	602 B / T / E / X
DETECTION LIMIT	1 ppm	50 ppb	0.5 ppb
234969	ND	ND	ND / ND / ND / ND
234974	ND	ND	ND / ND / ND / ND
234977	ND	ND	ND / ND / ND / ND
235040	2	ND	ND / ND / ND / ND
235041	ND	ND	ND / ND / ND / ND
235047	ND	ND	ND / ND / ND / ND
235049	ND	ND	ND / ND / ND / ND

Reviewed and approved by George Tsai, MAY 06, 1993
George Tsai, Laboratory Director

Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

****

Client: McLaren/Hart
1135 Atlantic Ave.
Alameda, CA 94501
Attn: Saul Germanas

Date Sampled: 05/04/93
Date Received: 05/04/93
Date Analyzed: 05/04/93
Batch: SA-160 Matrix:Water
Conc. Unit ug/kg (ppb)
(TOG Conc.Unit mg/kg (ppm))

Project: 1603 Powell St. Emeryville

****

"**ND**" means "not detected" at indicated detection limit.
B:benzene, **T**:toluene, **E**:ethylbenzene & **X**:total xylenes.
Samples received at job-site with a chain of custody record.

SAMPLE I.D.	TOG 5520F	8015M/TPH Diesel	602 B / T / E / X
DETECTION LIMIT	1 ppm	50 ppb	0.5 ppb
235019	7506	ND	ND / ND / ND / ND
235020	126	ND	ND / ND / ND / ND
235024	12	9270	ND / ND / ND / 451.0
235026	ND	ND	ND / ND / ND / ND
235029	ND	ND	ND / ND / ND / ND
235032	46	ND	ND / ND / ND / ND
235035	300	273860	834.1/ 713.7 / 1495.4/ 3520.3

Reviewed and approved by George Tsai, Laboratory Director MAY 06 1993

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05-05-93 Page 1 of 3

CLIENT	PROJECT NAME
McLaren / Hart	1603 Powell St. Emeryville III
ADDRESS	PROJECT MANAGER
1135 ATLANTIC AVE.	Saul Goldmanas
Alameda, CA. 94501	PHONE NUMBER
(510) 521-5200	(510) 748-5628

TESTS REQUIRED

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX AIR	MATRIX WATER	MATRIX SOIL	NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
101217	SB-2-6-(3-3.5')	05-05-93	8:15A			X	1	X		X		X					
101218	SB-2-6-(6)	05-05-93	8:15A			X	1	X		X		X					
235040		05-05-93	8:25A		X		3	X		X		X					
101219	SB-2-12-(2.5-3)	05-05-93	9:00A			X	1	X		X		X					
101221	SB-2-12-(5.5-6)	05-05-93	9:05A			X	1	X		X		X					
235041		05-05-93	9:10A		X		3	X		X		X					
101223	SB-2-11-(3-3.5)	05-05-93	9:40A			X	1	X		X		X					
101224	SB-2-11-(6-6.5)	05-05-93	9:45A			X	1	X		X		X					
235042		05-05-93	9:55A		X		3	X		X		X					
		05-05-93															

Sampled/Relinquished by: S.	Received by:	Date 05-05-93	Time 2:40 p.m.
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time

Turnaround time: Mobile LAB
24 hr. 48 hr. Normal (3-5 days)

Special Instructions:

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05-05-93 Page 2 of 3

CLIENT	PROJECT NAME
McLaren / Hart	1603 Powell St. Emeryville III
ADDRESS	**PROJECT MANAGER**
1135 ATLANTIC AVE.	SAUL GERMANAS
Alameda, CA. 94501	**PHONE NUMBER**
(510) 521-5200	(510) 748-5628

TESTS REQUIRED

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX AIR	MATRIX WATER	MATRIX SOIL	NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
101225	SB 2-13-(3-3.5)	05-05-93	10:20A			X	1	X		X		X					
101226	SB 2-13-(5.5-6.0)	05-05-93	10:25A			X	1	X		X		X					
235049		05-05-93	10:35A		X		3	X		X		X					
101227	SB 2-14 (2.5-3)	05-05-93	10:55A			X	1	X		X		X					
101229	SB 2-14-(5.5-6)	05-05-93	11:05A			X	1	X		X		X					
234969		05-05-93	11:15A		X		3	X		X		X					
101231	SB-2-7 (3-3.5)	05-05-93	12:15P			X	1	X		X		X					
101232	SB-2-7-(6-6.5)	05-05-93	12:20P			X	1	X		X		X					
234979		05-05-93	12:30P.		X		3	X		X		X					

Sampled/Relinquished by:	Received by:	Date 05-05-93	Time 2:40 p.m.
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time

Turnaround time: Mobile Lab
24 hr. 48 hr. Normal (3-5 days)

Special Instructions:

GEOCHEM Environmental Laboratories
780 Montague Expressway, Suite 404
San Jose, CA 95131
(408) 955-9988 • FAX (408) 955-9538

CHAIN OF CUSTODY RECORD

Date 05-05-93 Page 3 of 3

CLIENT	PROJECT NAME
McLAREN / HART	1603 Powell St. Emeryville III
ADDRESS	PROJECT MANAGER
1135 ATLANTIC AVENUE	SAUL GERMANAS
Alameda, CA. 94501	PHONE NUMBER
(510) 521-5200	(510) 748-5628

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX AIR	MATRIX WATER	MATRIX SOIL	NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive
101233	SB2-5-(2.5-3)	05-05-93	12:55p			X	1	X		X		X					
101235	SB2-5-(4-6.25)	05-05-93	1:00p			X	1	X		X		X					
239977		05-05-93	1:10p		X		3	X		X		X					

TESTS REQUIRED

Sampled/Relinquished by: Saul Germanas	Received by:	Date 05-05-93	Time 2:40p.m.
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time
Turnaround time: Mobile lab 24 hr. 48 hr. Normal (3-5 days)	Special Instructions:		

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: EPA 3510

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-2B

Lab Project-ID Number: 7507-003

Sample Number: 235023

Date Sampled: 05/04/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3501

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
Gasoline Range	C7 - C14	BRL	0.50
Jet Fuel Range	C12 - C18	BRL	0.50
Kerosene Range	C12 - C18	BRL	0.50
Diesel Range	C12 - C22	BRL	0.50
Motor Oil Range	C22 - C32	7.4 (b)	1.0
Total Petroleum Hydrocarbons		7.4	0.50

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) The data is reported from a different analytical run on 05/11/93 at a 2 fold dilution to obtain a result within linear range.

Approved By: NM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODW

MBT Environmental Laboratories

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: EPA 3510

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-5

Lab Project-ID Number: 7507-002

Sample Number: 234979

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/09/93

Batch Number: 930507-3501

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
Gasoline Range	C7 - C14	BRL	0.50
Jet Fuel Range	C12 - C18	BRL	0.50
Kerosene Range	C12 - C18	BRL	0.50
Diesel Range	C12 - C22	BRL	0.50
Motor Oil Range	C22 - C32	2.5	0.50
Total Petroleum Hydrocarbons		2.5	0.50

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

Approved By: UM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODW

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: EPA 3510

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-12

Lab Project-ID Number: 7507-004

Sample Number: 235044

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/11/93

Batch Number: 930507-3501

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
Gasoline Range	C7 - C14	BRL	0.50
Jet Fuel Range	C12 - C18	BRL	0.50
Kerosene Range	C12 - C18	BRL	0.50
Diesel Range	C12 - C22	BRL	0.50
Motor Oil Range	C22 - C32	2.6	0.50
Total Petroleum Hydrocarbons		2.6	0.50

Comments: (a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

Approved By: NM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODW

TOTAL PETROLEUM HYDROCARBONS

Analytical Method: Modified EPA 8015 (a)
Preparation Method: EPA 3510

Project Name: B of A Emeryville III

Project Number: 040127359000

Sample Description: SB2-14

Lab Project-ID Number: 7507-001

Sample Number: 234972

Date Sampled: 05/05/93

Date Received: 05/06/93

Date Extracted: 05/07/93

Date Analyzed: 05/11/93

Batch Number: 930507-3501

PETROLEUM FRACTION	CARBON RANGE	CONCENTRATION mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
Gasoline Range	C7 - C14	BRL	0.50
Jet Fuel Range	C12 - C18	BRL	0.50
Kerosene Range	C12 - C18	BRL	0.50
Diesel Range	C12 - C22	BRL	0.50
Motor Oil Range	C22 - C32	8.5 (b)	2.0
Total Petroleum Hydrocarbons		8.5	0.50

Comments:

(a) Derived from EPA 8015. Gas Chromatograph with flame ionization detector is used to perform the analysis. Modification is due to the quantitation of petroleum fraction instead of non-halogenated volatile compounds.

(b) The data is reported from a different analytical run on 05/13/93 at a 4 fold dilution to obtain a result within linear range.

Approved By: UM Date: 5-14-93

Nancy McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

0127938015MODW

McLaren Hart

CHAIN OF CUSTODY RECORD

35116

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: MCLAREN ANALYTICAL

Address: 2091 RIO RANCH RD. RANCHO CORDOVA, CA

Project Name: FORA LIVERMORE

Project Number: 11.0177.345.000

Project Location: (State) LIVERMORE, CA

FOR LABORATORY USE ONLY

Laboratory Project #:

Storage Refrigerator ID:

Storage Freezer ID:

Sampler Name: [illegible]	Signature: [illegible]	PPE Worn in Field: LEVEL D
Relinquished By: [illegible]	Date/Time: 3-18-93 14:55	Received By or Method of Shipment/Shipment I.D.: [illegible] XBIE EXP-IT Date/Time: 3/19/93 1440
Relinquished By:	Date/Time	Received By or Method of Shipment/Shipment I.D. Date/Time
Relinquished By:	Date/Time	Received By or Method of Shipment/Shipment I.D. Date/Time

Sample Disposal (check one)
- ☑ Laboratory Standard
- ☐ Other

Level of QC (see Side 2): ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

Write in Analysis Method →

SAMPLE INFORMATION

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	8015 Mod	Total Pb									
1	53199	3-18-93		SB-6	6'	1	B	S	None	3	X										
2	53200	↓		SB-7	3'	↓	↓	↓	↓	↓	X	X									
3	102683	↓		SB-7	6'	↓	↓	↓	↓	↓	X										
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other ____, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other ____

FOR LABORATORY USE ONLY Sample Condition Upon Receipt:

SEND DOCUMENTATION AND RESULTS TO (Check one):

☑ Project Manager/Office: SAM GERMANAS / ALAMEDA

☐ Client Name:

Company:

Address:

Phone: FAX:

ANALYSES REQUESTED

Common Analytical Methods
- 413.1
- 413.2
- 418.1
- 418.1 Short Method
- 420.1
- 502.2
- 503E
- 524.2
- 601
- 602
- 604
- 608
- 610
- 624
- 625
- 6010
- 6015
- 6015 Mod.
- 8020
- 8021
- 8040
- 8080
- 8100
- 8240
- 8270
- 8310
- Alkalinity
- BTEX
- Chloride
- CLP (see Side 2)
- COD
- Color
- Conductivity
- Cyanide
- Flashpoint
- Fluoride
- General Mineral
- Hex. Chromium
- Ion Balance
- Metals (write specific metal & method #)*
- Metals 6010*
- Metals PP*
- Metals Title 22: TTLC Level, STLC Level (see Side 2)
- Nitrate
- Nitrite
- Org. Lead
- Org. Mercury
- Percent Moisture
- Percent Solid
- Perchlorate
- pH
- Phosphates
- Phosphorus
- Sulfate
- Sulfides
- TCLP: VOA, Semivoa, Metals, Pesticide
- TDS
- Total Hardness
- Total Solids
- TPH/D
- TPH/G
- TSS
- Turbidity

* Specify Total or Dissolved

McLaren Hart

CHAIN OF CUSTODY RECORD

35115

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Ship To: McLaren Analytical
Address: [illegible]
[illegible]

Project Name: [illegible]
Project Number: [illegible]
Project Location: (State) [illegible], CA

FOR LABORATORY USE ONLY
Laboratory Project #:
Storage Refrigerator ID:
Storage Freezer ID:

Sampler Name: S. Guerranes | Signature: [illegible] | PPE Worn in Field: Level D

Relinquished By:	Date/Time	Received By or Method of Shipment/Shipment I.D.	Date/Time
[illegible]	3-18-93 14:35	[illegible] XS19EYR-IT	3/18/93 1440

Sample Disposal (check one)
- [x] Laboratory Standard
- [ ] Other

Level of QC (see Side 2): [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7

Write in Analysis Method →

ANALYSES REQUESTED

SAMPLE INFORMATION

FOR LABORATORY USE ONLY Lab ID	Sample ID Number	Date	Time	Description: Locator	Description: Depth	Container(s): #	Container(s): Type	Matrix Type	Pres. Type	TAT	[illegible]	Total Lead
1	53189	3-18-93		SB-2	4'	1	B	S	None	3	X	X
2	53190			SB-2	9'						X	
3	53191			SB-1	3'						X	X
4	53192			SB-1	6'						X	
5	53193			SB-3	3'						X	X
6	53194			SB-4	3'						X	X
7	53195			SB-4	6'						X	
8	53196			SB-5	3'						X	X
9	53197			SB-5	6'						X	
10	53198			SB-6	3'						X	X

Special Instructions/Comments:

Container Types: B=Brass Tube, G=Glass Jar, O=Other, A=1 Liter Amber, C=Cassette, P=Polyethylene, V=Voa Vial

TAT (Analytical Turn Around Time): 1 = 24 hours, 2 = 48 hours, 3 = 1 week, 4 = 2 weeks, 0 = Other

FOR LABORATORY USE ONLY Sample Condition Upon Receipt:

SEND DOCUMENTATION AND RESULTS TO (Check one):
- [x] Project Manager/Office: Saul Germanes/Alameda
- [ ] Client Name:

Company:
Address:
Phone: FAX:

Common Analytical Methods
413.1
413.2
418.1
418.1 Short Method
420.1
502.2
503E
524.2
601
602
604
608
610
624
625
8010
8015
8015 Mod.
8020
8021
8040
8080
8100
8240
8270
8310
Alkalinity
BTEX
Chloride
CLP (see Side 2)
COD
Color
Conductivity
Cyanide
Flashpoint
Fluoride
General Mineral
Hex. Chromium
Ion Balance
Metals (write specific metal & method #)*
Metals 6010*
Metals PP*
Metals Title 22: TTLC Level, STLC Level (see Side 2)
Nitrate
Nitrite
Org. Lead
Org. Mercury
Percent Moisture
Percent Solid
Perchlorate
pH
Phosphates
Phosphorus
Sulfate
Sulfides
TCLP: VOA, Semivoa, Metals, Pesticide
TDS
Total Hardness
Total Solids
TPH/D
TPH/G
TSS
Turbidity

* Specify Total or Dissolved