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ENVIRONMENTAL PROTECTION
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April 6, 2000

1082

Mr. Amir K. Gholami, REHS
Alameda County Health Care Agency
EHS - Environmental Protection
1131 Harbor bay Parkway
Alameda, CA 94502-6577

SUBJECT: **Clarification Regarding Dry Cleaner Release**
STID 1082; Sears Release Project Site
2633 Telegraph Avenue
Oakland, California 94612

Dear Sir:

We were copied on a letter from Dames and Moore (D&M) to your agency dated March 29, 2000. We are offering some clarification information to avoid future confusion.

In D&M's letter (page 2, second bullet item), it was stated that the Haagen Company LLC was retaining responsibility for a dry cleaner release identified at the adjacent property. We wish to clarify that The Haagen Company LLC is not the owner of that dry cleaner property, and has not at any time retained responsibility for that release. On the contrary, The Haagen Company LLC conducted investigation work (reports attached) which specifically relates the release to the adjacent property owner. The County of Alameda has concurred with an offsite release source and has indicated that they will pursue the dry cleaner owner as the probable source of stoddard and related substances. The County's letter to that affect, dated January 29, 1999, is attached for your files.

We hope this information clarifies any misunderstandings regarding the responsible party for the offsite dry cleaner solvent release. Please call (760) 433-1459 if you have questions or comments..

Sincerely,

EEI

Timothy A. Lester, REA, CEM

Attachments: Jan 28, 1999 Alameda Co. Letter
January 11, 1999 Secor letter to Alameda County
December 8, 1998 Secor Summary Report

cc: Chris Fahey, The Haagen Co., LLC
Seymour Kreshek, Haagen GDH Partnership
Grant Riley, Franzel Share et al.
Roger Holt, Ervin Cohen and Jessup
Taras Kruk, Dames & Moore

TAL/EEIProj/Haagen/Sears00-L2.wpd

Corporate 713 Mission Avenue Suite C Oceanside CA 92054 (760) 433-1459 (760) 433-0436 ceidiego@earthlink.net

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

January 28, 1999

ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

RECEIVED
JAN 1999
BY:

James Ritchie
Secor International
1225 Pear Avenue Suite 110
Mountain View,. CA – 94043

Ref: 2633 Telegraph Avenue, Oakland, CA

Dear Mr. Ritchie:

I am in receipt of the document "Summary Report" dated December 8, 1998, and a letter dated January 11, 1999, prepared by Secor International, for the above mentioned site.

Previous investigations conducted by Lowney Associates revealed the presence of stoddard solvent in concentrations of up to 9100 ppb in a groundwater sample collected within 10 feet of a adjacent vacant dry cleaning facility which is located at the southeastern corner of the above referenced property. In October 1998, further investigation performed by Secor International near the southeastern border of the referenced property indicated the presence of PCE (perchloroethylene /tetrachloroethylene) up to 19 ppm in the soil sample and TCE (likely a breakdown product of PCE) up to 5 7 ppb in the only groundwater sample collected from this area.

Based on the information provided to this agency, it appears that the source of the stoddard solvent and PCE (and related breakdown products) is the vacant dry cleaner site located adjacent to the referenced property. This Department may most likely contact the responsible parties involved with the dry cleaning site in order to continue with the investigation involving the VOC's found in the southeastern corner of the referenced property.

If you have any further questions, you may contact us at (510) 567-6764

Sincerely,

Madhulla Logan

Madhulla Logan
Hazardous Materials Specialist

January 11, 1999

SECOR
International Incorporated

Ms. Madhulla Logan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

LETTER OF CLARIFICATION, SUBSURFACE INVESTIGATION AND SITE CLOSURE TASKS, FORMER SEARS BUILDING, 2633 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA, FOR THE ALEXANDER HAAGEN COMPANY, INC.

Dear Ms. Logan:

SECOR International Incorporated (SECOR) has prepared this letter based upon our conversation of January 7, 1999 regarding our investigation of the southeastern corner of property located at 2633 Telegraph Avenue in Oakland, California (the Site). As you know, we performed those tasks described in our October 27, 1998 Work Plan, which was approved by the Alameda County Health Care Services Agency (ACHSA) on October 29, 1998. Our December 2, 1998 Summary Report presented the results of our investigation. The investigation was performed to further investigate the extent of and likely source(s) for stoddard solvent found in one soil and one grab groundwater sample at the southern portion of the Site (see attached Figure). To that end, SECOR's investigation included analysis of samples for total petroleum hydrocarbons as stoddard solvent (TPHs) and benzene, toluene, ethylbenzene, and xylenes (BTEX).

During our recent discussion, you requested clarification regarding the types of analyses performed on soil and grab water samples collected from the Site as well as the analytical results. Please find attached, revised Tables presenting a more comprehensive listing of the analyses performed and the analytical results. As shown, the majority of soil and grab water samples, such as those collected on November 9, 1998, were analyzed on-site by a mobile laboratory operated by Mobile Chem Labs. The remaining soil and grab water samples (those collected on November 10, 1998) were analyzed by Chroma Lab at their fixed location in Pleasanton, California for TPHs, BTEX, and in some instances for volatile organic compounds (VOCs) and/or for the petroleum hydrocarbon range. The additional analyses were performed on selected samples to further investigate or confirm the presence of compounds apparently related to the dry cleaning operation.

The analytical results, including those previously reported by Lowney & Associates, reveal TPHs in only one of the analyzed soil samples, collected from boring EB-5 at a concentration of 280 milligrams per kilogram (or mg/kg). TPHs was not reported in any other soil sample analyzed. Groundwater in the immediate vicinity of the dry cleaning facility also yielded TPHs. The greatest TPHs concentration (9,100 parts per billion or ppb) was reported in the water sample collected from boring EB-4 located adjacent to the southern Site boundary. The water sample collected from boring EB-14 located approximately 15 feet northeast of boring EB-4 yielded the only other reported TPHs concentration of 2,300 ppb. None of the other analyzed water samples yielded TPHs in concentrations at or above the laboratory reporting limits. Low concentrations of trichloroethene (TCE) and tetrachloroethene (PCE) were respectively reported in the grab water and soil samples collected from borings EB-14 and EB-13. Additional analyses were not possible, due to sample holding time limitations and the limited volume of water sample collected.

The data indicate groundwater near the dry cleaning facility has been impacted by TPHs, with lesser amounts of related compounds such as TCE and PCE present in water and soil nearby. The presence of TPHs does not appear to be related to the presence of bunker oil, diesel, and other hydrocarbon compounds found in the subsurface beneath the northern and western portions of the Site. We believe that the lack of TPHs concentrations in on-site soil samples and the lack of a documented on-site source for TPHs, coupled with significant TPHs concentrations in water samples collected immediately adjacent to the most likely source, a dry cleaner, justify that any further request for investigation and/or mitigation be directed toward the party responsible for the dry cleaning facility.

1225 Pear Avenue, Suite 110, Mountain View, CA 94043 (650) 691-0131 (650) 691-9837 Fax www.secor.com

Thank you for your attention to this project. We trust that this letter adequately addresses your concerns and we would appreciate your advising us as to our request for no further action of our client. Please do not hesitate to contact us at (650) 691-0131 with any questions or comments.

Sincerely yours,

SECOR International Incorporated

James G. Ritchie, R.G.
Principal Geologist

Attachments:
Table 1 - Soil Analytical Results - Petroleum Hydrocarbons
Table 2 - Soil Analytical Results - Volatile Organic Compounds
Table 3 - Groundwater Analytical Results - Petroleum Hydrocarbons/Volatile Organic Compounds
Figure 2 - Site Plan

TABLE 1
SOIL ANALYTICAL RESULTS
Petroleum Hydrocarbons
(EPA Methods 5030, 8015 Modified, and 8260)
2633 Telegraph Ave.
Oakland, CA.

Sample Number and Depth	Date	TPHs[1] (mg/kg)[2]	TPHb[3] (mg/kg)	TPHo[4] (mg/kg)	TPHd[5] (mg/kg)
EB-13-7	11/9/98	N.D.[a]	N.A.[b]	N.A.	N.A.
EB-13-16	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-14-4	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-14-7	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-15-6	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-15-13	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-16-7	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-16-13	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-4	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-16	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-22	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-19-22	11/10/98	N.D.	N.D.	N.D.	5.8
EB-20-7	11/10/98	N.D.	N.D.	70	160
EB-20-13	11/10/98	N.D.	N.D.	N.D.	140
EB-20-22	11/10/98	N.D.	N.D.	N.D.	4.0
EB-21-22	11/10/98	N.D.	N.D.	N.D.	4.7

1. Total Petroleum Hydrocarbons as Stoddard Solvent.

2. Milligrams per kilogram.

3. Total Petroleum Hydrocarbons as bunker oil.

4. Total Petroleum Hydrocarbons as motor oil.

5. Total Petroleum Hydrocarbons as diesel.

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[a] N.D.: not detected above specified laboratory reporting limits.

[b] N.A.: not analyzed.

H:\HAAGEN\TBL1.WPD

TABLE 2
SOIL ANALYTICAL RESULTS
Volatile Organic Compounds
(EPA Methods 8020 and 8260)
2633 Telegraph Ave.
Oakland, CA.

Sample Number and Depth	Date	Benzene (µg/kg)[1]	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	Isopropyl-benzene (µg/kg)	PCE[2] (µg/kg)
EB-13-7	11/9/98	N.D.[a]	N.D.	N.D.	N.D.	N.D.	19
EB-13-16	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.[b]	N.A.
EB-14-4	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-14-7	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-15-6	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-15-13	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-16-7	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-16-13	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-18-4	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-18-16	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-18-22	11/9/98	N.D.	N.D.	N.D.	N.D.	N.A.	N.A.
EB-19-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-20-7	11/10/98	N.D.	N.D.	44	N.D.	45	N.D.
EB-20-13	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-20-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-21-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

1. Micrograms per kilogram.

2. Tetrachloroethene.

---

[a] N.D.: Not detected above specified laboratory reporting limits of 5.0 µg/kg.

[b] N.A.: Not analyzed.

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Petroleum Hydrocarbons / Volatile Organic Compounds
(EPA Methods 5030, 8015 Modified, and 8020)
2633 Telegraph Ave.
Oakland, CA.

Sample Number	Date	TPHs[1] (µg/L)[2]	Naph-thalene (µg/L)	TCE[3] (µg/L)	IPB[4] (µg/L)	Ben-zene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
EB-13	11/9/98	N.D.[a]	N.A.[b]	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.
EB-14	11/9/98	2,300 (1,200)[c]	11	5.7	62	N.D.	N.D.	3.2 (5.9)	6.1 (N.D.)
EB-15	11/9/98	N.D.	N.A.	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.
EB-18	11/9/98	N.D.	N.A.	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.

1. Total Petroleum Hydrocarbons as Stoddard Solvent.

2. Micrograms per liter.

3. Trichloroethene.

4. Isopropylbenzene.

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[a] N.D.: not detected above specified laboratory reporting limits.

[b] N.A.: not analyzed.

[c] Results in parentheses from Chromalab.

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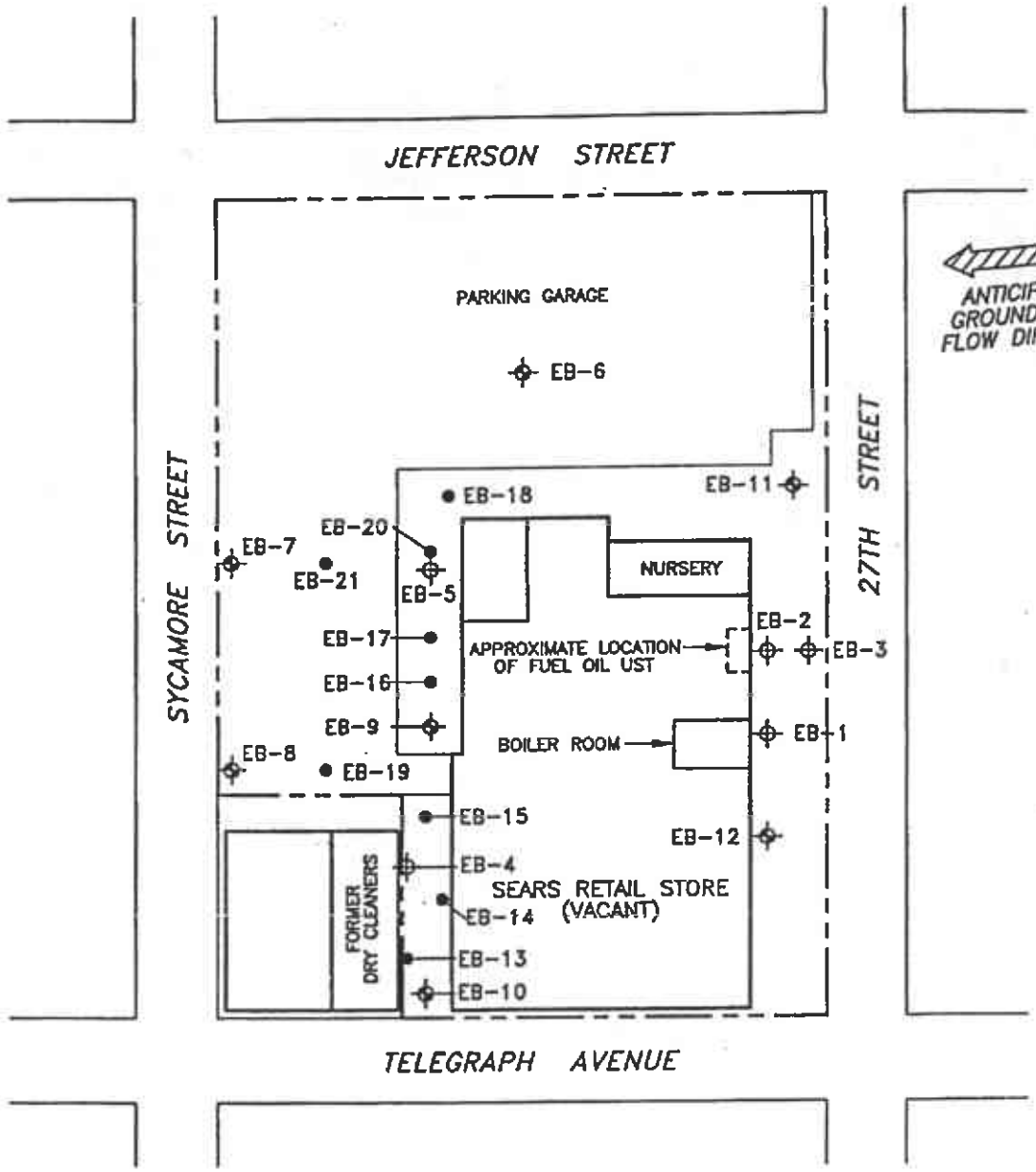

LEGEND:

- EB-1 APPROXIMATE LOCATION OF EXPLORATORY BORING (4/98)
- EB-11 APPROXIMATE LOCATION OF EXPLORATORY BORING (5/98)
- EB-13 APPROXIMATE LOCATION OF EXPLORATORY BORING (11/98)
- APPROXIMATE PROPERTY BOUNDARY

NOTES:

1. GROUNDWATER GRAB SAMPLES AT EB-13, EB-14, EB-15, AND EB-18.
2. SOIL AND GROUNDWATER ANALYTICAL RESULTS PRESENTED IN TABLES 1-3.

REFERENCE: THIS FIGURE IS TAKEN FROM LOWNEY ASSOCIATES, AND IS INTENDED FOR ILLUSTRATION ONLY.

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APPROXIMATE SCALE FEET

199811.181829 X:\JOBS\HAAGEN\SITEPLAN

SECOR INTERNATIONAL INCORPORATED

DRAWN	CCR
APPR	RP
DATE	19NOV98
JOB NO.	60057-001-01

FIGURE 2
HAAGEN – OAKLAND
2633 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

SITE PLAN

SECOR
International Incorporated

SUMMARY REPORT
SUBSURFACE INVESTIGATION
AND SITE CLOSURE TASKS

....

The Alexander Haagen Company, Inc.
2633 Telegraph Avenue
Oakland, California

SECOR Job No. 60057-001-01

Prepared For:
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Submitted By:
SECOR International Incorporated
1225 Pear Avenue
Suite 110
Mountain View, California 94043

December 8, 1998

Prepared By:

Robert L. Potter
Staff Geochemist

Reviewed By:

James G. Ritchie, R.G.
Principal Geologist

REGISTERED GEOLOGIST
JAMES G. RITCHIE
No. 4974
STATE OF CALIFORNIA

December 8, 1998

SECOR
International Incorporated

Ms. Madhulla Logan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

SUMMARY REPORT, SUBSURFACE INVESTIGATION AND SITE CLOSURE TASKS, FORMER SEARS BUILDING, 2633 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA, FOR THE ALEXANDER HAAGEN COMPANY, INC.

Dear Ms. Logan:

SECOR International Incorporated (SECOR) is pleased to submit the attached Summary Report describing our investigation of the southeastern corner of a property located at 2633 Telegraph Avenue in Oakland, California (the Site). We performed those tasks described in our October 27, 1998 Work Plan, which was approved by the Alameda County Health Care Services Agency (ACHSA) on October 29, 1998.

As you know, the Site has been subject to investigation during 1998 to assess subsurface conditions. In general, an adjacent release in the northern portion of the property is under an investigation being conducted by others under the supervision of the City of Oakland Fire Department, Hazardous Materials Division.

Our focus has been resolving the source and extent of Stoddard Solvent and similar compounds present in the subsurface in the southern portion of the Site. To that end, we provided you with copies of reports previously prepared for the Site, including background information for a dry cleaning facility located immediately south of the southern Site boundary. We believe the data presented in our report, as well as those previous data, support an off-site source for the Stoddard Solvent. To that end, we request that the ACHSA require no further action of our client regarding this issue.

Please do not hesitate to contact us at your earliest convenience at (650) 691-0131 regarding your review of the attached Summary Report and/or to complete whatever case closure activities are appropriate. Thank you for your assistance.

Sincerely yours,

SECOR International Incorporated

Robert L. Potter
Staff Geochemist

James G. Ritchie, R.G.
Principal Geologist

Attachment - Summary Report

1225 Post Avenue, Suite 110, Mountain View, CA 94043-1431 (650) 691-0131 (650) 691-9837 FAX www.secor.com

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

1.0 INTRODUCTION

SECOR International Incorporated (SECOR) has prepared this Summary Report for The Alexander Haagen Company, Inc. (Haagen) describing our Limited Subsurface Investigation of the potential presence of chemicals in the subsurface near the southeastern corner of property located at 2633 Telegraph Avenue in Oakland, California (the Site). This report presents background information, the methodology for and activities performed in implementing a limited soil and groundwater investigation for the Site, as well as analytical results. The scope of the work was in accordance with SECOR's October 27, 1998 *Work Plan, Subsurface Investigation and Site Closure Tasks, Former Sears Building, 2633 Telegraph Avenue, Oakland, California, for the Alexander Haagen Company, Inc.* approved by the Alameda County Health Care Services Agency (ACHSA) on October 29, 1998.

2.0 BACKGROUND

A four story building, the former Sears and Roebuck store, occupies a large portion of the Site. The Site subsurface was investigated by Lowney Associates (Lowney) in early 1998, with the results included in April 21 and July 6, 1998 reports (*Phase I Environmental Site Assessment* and *Soil and Ground Water Quality Investigation)* prepared by Lowney. The Lowney investigations revealed the presence of petroleum hydrocarbons (characterized as Stoddard Solvent or TPHs) in a soil sample collected near the southwestern corner of the on-site building (boring EB-5) and from a grab water sample collected at the southeastern property boundary (boring EB-4). Subsequent additional soil and grab water sample analyses of samples collected across the Site did not reveal the presence of this compound. The presence of tetrachloroethene (PCE) was detected in a grab groundwater sample collected from boring EB-5. Other petroleum compounds, such as gasoline (TPHg), bunker oil (TPHo), and benzene, toluene, ethylbenzene, and xylenes (BTEX) were also reported in soil and/or grab groundwater samples collected primarily from the vicinity of the on-site underground storage tank (UST), located beneath the loading dock at the northern portion of the Site (Figure 1).

3.0 SCOPE OF INVESTIGATION

SECOR assisted The Alexander Haggen Company in October and November of 1998 by performing a series of tasks designed to assess the extent and source of Stoddard Solvent (TPHs) and petroleum-hydrocarbon impacted soil and groundwater reported by Lowney in the southern portion of the Site. As part of the investigation, SECOR performed the following tasks:

- Provided the involved regulatory agencies with the available, Site-specific information, including the Lowney reports;
- Advanced nine soil borings to depths of between 16 feet to 28 feet below ground surface (bgs);
- Collected and submitted soil and groundwater samples for chemical analysis; and,
- Prepared this Summary Report presenting the results of the Limited Subsurface Investigation.

4.0 SUBSURFACE INVESTIGATION ACTIVITIES

4.1 PRELIMINARY FIELD ACTIVITIES

Prior to initiating sampling activities, SECOR prepared a Site-specific Health and Safety Plan (HASP), prepared a Work Plan outlining the specific tasks and objectives of the project, obtained soil boring permits, paid necessary agency oversight fees, and conducted a subsurface utility clearance. Boring locations were cleared with respect to underground utilities and other obstructions by Underground Service Alert (USA) as well as California Utility Surveys, a private utility locator.

In addition to preparing the Site for sampling, SECOR reviewed agency files for the Site and adjoining properties to identify and evaluate previous uses or practices which may have impacted the area environmentally. The presence of an underground bunker oil storage tank located up-gradient from the impacted zone, as well as a former dry cleaner on the adjacent property were noted.

4.2 LIMITED SOIL AND GROUNDWATER SAMPLE COLLECTION

The soil and groundwater investigation consisted of advancing nine borings, each to a depth of between 16 and 28 feet below ground surface (bgs), using truck-mounted Geoprobe drilling equipment operated by Precision Sampling, Inc. (Precision) of San Rafael, California. All soil borings were advanced under the supervision of a SECOR geologist at the locations shown on Figure 1. Soil boring logs are presented in Appendix A. The soil borings were continuously cored using a hydraulically and pneumatically driven "Geoprobe-type" sampler equipped with a 2-1/8 inch outside diameter core barrel. Two nested sampling rods were driven simultaneously; small diameter inner sampling rods were used to obtain and retrieve the soil cores, and larger diameter outer rods served as temporary drive casing. The use of drive casing prevented sloughing of the formation while the inner rods were withdrawn from the borehole. This ensured that the drive sampler was always sampling soil from the desired depth interval, rather than soil that had sloughed in from higher up in the borehole. In the case of grab groundwater sampling, the drive casing also allowed the sampling of discrete water-bearing horizons preventing groundwater from an upper unit from cascading to the bottom of the boring.

As the drive casing and inner rods were advanced, soil was driven into a 1-5/8-inch diameter, three-foot-long sample barrel that was attached to the end of the inner rods. Soil samples were collected in three-foot long Teflon™ sleeves fitted inside the sample barrel. After being driven three feet, inner rods were removed from the borehole with a hydraulic winch. The tubes containing the soil samples were removed from the drive sampler and retained for potential chemical analyses. Upon completion, each soil boring was backfilled to the surface with grout.

Each boring was periodically monitored by a SECOR field geologist for parameters including odor, staining, sheen on water, photo-ionization detector (PID) readings, color, grain size, and moisture content of the soil collected from the borings. Each sample considered for possible chemical analysis was collected in Teflon™ sleeves, covered at each end with Teflon™ tape, capped with plastic end caps, labeled, and placed in an ice-filled cooler for preservation. After the soil borings were cored, grab groundwater samples were collected from the boreholes prior to backfilling. Those water samples collected for possible chemical analysis were decanted into laboratory-supplied glassware, labeled, and placed in ice-filled coolers for preservation.

On November 9, 1998, selected soil and groundwater samples were chemically analyzed on-site by Mobile Chem Labs of Lafayette, California, using a state-certified mobile laboratory. Those samples submitted to the Mobile Chem Lab's facility were analyzed for TPHs, as well as benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Methods 8015, modified and 8020 respectively. Samples collected on November 9 and 10, 1998 were analyzed by Chroma Lab (Chroma Lab) of Richmond, California using their stationary laboratory. The analyses included total petroleum hydrocarbons characterized as diesel (TPHd), motor oil (TPHmo), bunker oil (TPHb), and TPHs, as well as BTEX and PCE. All drill cuttings and rinsate generated during advancement of the borings were placed in 55-gallon drums and disposed of by Precision subsequent to completion of drilling. Boring logs are presented in Appendix A.

4.3 DECONTAMINATION AND MATERIAL CONTAINMENT

To minimize the potential for cross contamination, soil sampling and groundwater sampling equipment were used only once. Downhole drilling equipment was steam-cleaned between each boring location in a designated area prepared to contain rinsate. The water level indicator used to gauge the depth to water in each borehole was rinsed with deionized water between groundwater level soundings to prevent cross-contamination. Soil cuttings and all water generated from field activities were temporarily stored in 55-gallon drums at an on-site location, and were subsequently disposed as non-hazardous waste by Precision.

5.0 SUBSURFACE CONDITIONS

5.1 STRATIGRAPHY AND HYDROGEOLOGY

The Site investigation activities encountered low permeability clay- and silt-rich vadose zone soils with occasional sand-rich lenses. The main soil types encountered during the investigation were olive brown sandy clays to silty clays. Some lenses of gravelly sands were also present. The consistency of the encountered soil was typically stiff to dense. Borings EB-14 and EB-20 revealed some soils which were stained gray, and exhibited petroleum odors and elevated photoionization detector (PID) readings. However, the majority of soils encountered did not exhibit observable odors or staining.

The water table, where present, was encountered at depths of 13 to 15 feet bgs. However, borings adjacent to the southern side of the building (EB-16, EB-17, EB-19, EB-20, and EB-21) did not encounter the water table despite being drilled to depths of between 22 feet and 28 feet bgs. Previous investigatory borings advanced on behalf of Lowney encountered water at depths of 12 to 20 feet bgs.

5.2 SOIL ANALYTICAL RESULTS

Soil analytical results are presented in Tables 1 and 2. In general, minor concentrations of petroleum hydrocarbons were found in soil collected from boring EB-20. Chemical analysis of soil samples from EB-20 at 6.5 to 7 feet bgs revealed ethylbenzene at 45 micrograms per kilogram (μg/kg) and isopropylbenzene at 45 μg/kg. TPHo was detected at 70 millgrams per kilogram (mg/kg) in EB-20 at 6.5-7 feet bgs. TPHd was also reported in detectable levels at 6.5-7 feet bgs (160 mg/kg), 12.5-13 feet bgs (140 mg/kg), and 21.5-22 feet bgs (4.0 mg/kg). Small amounts of TPHd were also reported at 21.5-22 feet bgs in borings EB-19 (5.8 mg/kg) and EB-21 (4.7 mg/kg), and tetrachloroethene (PCE) was detected at 19 μg/kg in boring EB-1 at 7 feet bgs. Analytical results did not reveal the presence of benzene, toluene, or xylenes in soil.

5.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are presented on Table 3. Groundwater samples were collected for analysis from borings EB-13 through EB-15, and EB-18. Only samples collected from boring EB-14 yielded detectable concentrations of petroleum hydrocarbons. Groundwater from EB-14 revealed detectable amounts of ethylbenzene, xylenes, and TPHs at respective concentrations of 3.2 micrograms per liter ($\mu g/l$), 6.1 $\mu g/l$, and 2,300 $\mu g/l$. The sample collected from boring EB-14 did not reveal the presence of TPHd, TPHo, benzene, toluene, or other volatile organic compounds (VOCs) in groundwater. None of the other water samples submitted for chemical analysis yielded reportable analyte concentrations.

6.0 SUMMARY AND RECOMMENDATIONS

The following summarizes the results of SECOR's Limited Subsurface Investigation and provides recommendations for future Site activities:

- SECOR supervised the advancement of nine soil borings at the Site. Soil and groundwater samples were collected for stratigraphic information and for characterization of the extent of petroleum hydrocarbons, including TPHs in soil and groundwater beneath the southern portion of the Site.

- Soil analytical results gathered during this investigation indicated the presence of petroleum hydrocarbons in concentrations ranging from 4.0 to 160 mg/kg in vadose zone soil (2.5 to 12.5 feet bgs) in the vicinity of the southern wall of the former Sears building.

- PCE was encountered in soil collected from boring EB-13, adjacent to the former dry cleaner, at 19 $\mu g/kg$.

- Where present, groundwater was encountered at depths ranging from 13 to 15 feet bgs. Groundwater was not encountered in 5 of 9 broings. Grab groundwater analytical results indicate the presence of TPHs and other hydrcarbons only in the immediate vicinity of boring EB-14, and boring EB-4 previously advanced during Lowney's investigation of the Site.

- TPHs was encountered in groundwater from EB-14, adjacent to the former dry cleaner, at 2,300 $\mu g/l$. TPHs was encountered by Lowney in groundwater from boring EB-4, located closer to the dry cleaner, at 9,100 $\mu g/l$. This increase in TPHs concentration toward the former dry cleaner suggests the presence of a Stoddard Solvent source at the dry cleaner, rather than on-site.

- The extent of TPHs impact at the Site is limited to groundwater only, and is concentrated in the alley adjacent to the dry cleaner.

- Investigation of historical uses of the Site indicate no previous sources of TPHs from Sears.

- TPHs is a common by-product of dry cleaning practices.

- The existence of a dry cleaner adjacent to the zone of impacted groundwater, as well as the presence of PCE in soil from that zone, suggest that the source of TPHs impact at the Site is the dry cleaning facility.

- Based on the available data, we believe that the impact to the Site subsurface in the vicinity of borings EB-4 and EB-5 is limited. The source of TPHs found in the soil sample collected from EB-5 was not identified; however the extent of impact attributed to TPHs in soil appears to be limited to the immediate vicinity of boring EB-5.

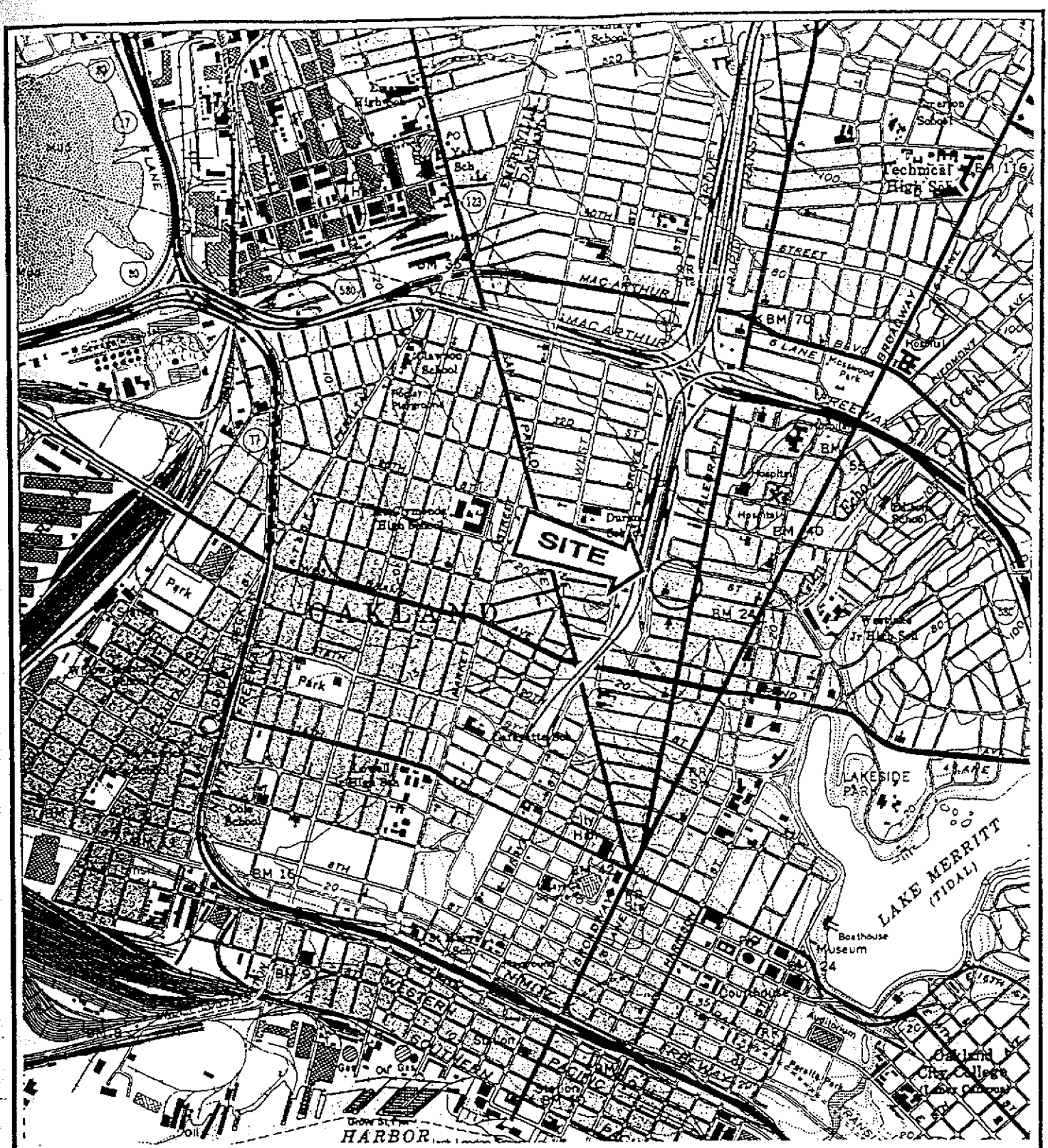
- The exact source of isopropylbenzene in the soil collected from EB-20 was not identified; however this compound falls under the heading of a group of solvents known as Mineral Spirits of which TPHs is also a member.

- The source of TPHs detected in water near boring EB-4 also appears to be related to the dry cleaning operation located beyond the southeast Site boundary. The extent of this impact also appears to be limited, and unrelated to previous on-Site practices.

- [redacted] of the source or extent of TPHs.

Zohar since
they did not cause
the solvent release
drycleaner did.

FIGURES



REFERENCE: U.S. GEOLOGICAL SURVEY, 7.5 MINUTE SERIES OAKLAND WEST, CALIFORNIA QUADRANGLE. PHOTOREVISED 1980.

NORTH

0 2000 4000

SCALE FEET

SECOR
INTERNATIONAL INCORPORATED

DRAWN	CCR
APPR	RP
DATE	07DEC98
JOB NO.	60057-001-01

FIGURE 1
HAAGEN – OAKLAND
2633 TELEGRAPH
OAKLAND, CALIFORNIA

SITE LOCATION MAP

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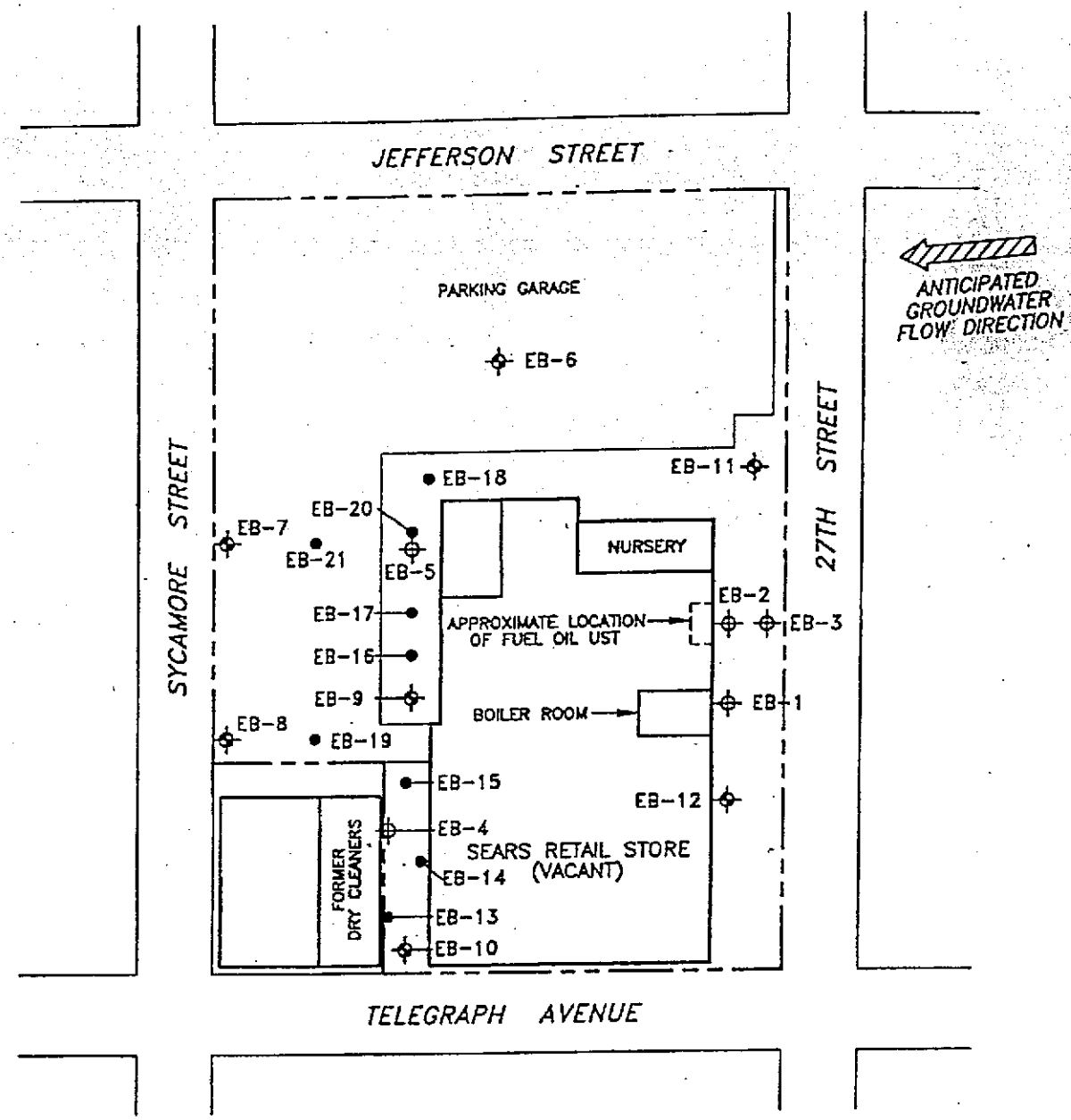

LEGEND:

- ⊕ EB-1 APPROXIMATE LOCATION OF EXPLORATORY BORING (4/98)
- ⊕ EB-11 APPROXIMATE LOCATION OF EXPLORATORY BORING (5/98)
- ● EB-13 APPROXIMATE LOCATION OF EXPLORATORY BORING (11/98)
- — — — APPROXIMATE PROPERTY BOUNDARY

NOTES:
1. GROUNDWATER GRAB SAMPLES AT EB-13, EB-14, EB-15, AND EB-18.
2. SOIL AND GROUNDWATER ANALYTICAL RESULTS PRESENTED IN TABLES 1-3.

REFERENCE: THIS FIGURE IS TAKEN FROM LOWNEY ASSOCIATES, AND IS INTENDED FOR ILLUSTRATION ONLY.

0 100 200
APPROXIMATE SCALE FEET

SECOR INTERNATIONAL INCORPORATED

DRAWN	CCR
APPR	RP
DATE	19NOV98
JOB NO.	60057-001-01

FIGURE 2
HAAGEN – OAKLAND
2633 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

SITE PLAN

199911.191829 X:\JOBS\HAAGEN\SITEPLAN

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
Petroleum Hydrocarbons
(EPA Methods 5030, 8015 Modified, and 8260)
2633 Telegraph Ave.
Oakland, CA.

Sample Number and Depth	Date	TPHs[1] (mg/kg)[2]	TPHb[1] (mg/kg)	TPHo[1] (mg/kg)	TPHd[3] (mg/kg)
EB-13-7	11/9/98	N.D.[a]	N.A.[b]	N.A.	N.A.
EB-13-16	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-14-4	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-14-7	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-15-6	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-15-13	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-16-7	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-16-13	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-4	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-16	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-18-22	11/9/98	N.D.	N.A.	N.A.	N.A.
EB-19-22	11/10/98	N.D.	N.D.	N.D.	5.8
EB-20-7	11/10/98	N.D.	N.D.	70	160
EB-20-13	11/10/98	N.D.	N.D.	N.D.	140
EB-20-22	11/10/98	N.D.	N.D.	N.D.	4.0
EB-21-22	11/10/98	N.D.	N.D.	N.D.	4.7

1. Total Petroleum Hydrocarbons as Stoddard Solvent.

2. Milligrams per kilogram.

3. Total Petroleum Hydrocarbons as bunker oil.

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[a] N.D.: not detected above specified laboratory reporting limits.

[b] N.A.: not analyzed.

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4. Total Petroleum Hydrocarbons as motor oil.

5. Total Petroleum Hydrocarbons as diesel.

TABLE 2
SOIL ANALYTICAL RESULTS
Volatile Organic Compounds
(EPA Methods 8020 and 8260)
2633 Telegraph Ave.
Oakland, CA.

Sample Number and Depth	Date	Benzene (µg/kg)[1]	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	Isopropyl-benzene (µg/kg)	PCE[2] (µg/kg)
EB-13-7	11/9/98	N.D.[1]	N.D.	N.D.	N.D.	N.D.	19
EB-13-16	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-14-4	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-14-7	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-15-6	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-15-13	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-16-7	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-16-13	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-18-4	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-18-16	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-18-22	11/9/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-19-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-20-7	11/10/98	N.D.	N.D.	44	N.D.	45	N.D.
EB-20-13	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-20-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
EB-21-22	11/10/98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

1. Micrograms per kilogram.

2. Tetrachloroethene.

---

[1] N.D.: Not detected above specified laboratory reporting limits of 5.0 µg/kg.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Petroleum Hydrocarbons / Volatile Organic Compounds
(EPA Methods 5030, 8015 Modified, and 8020)
2633 Telegraph Ave.
Oakland, CA.

Sample Number	Date	TPHs[1] (µg/L)[2]	TPHo[3] (µg/L)	TPHb[4] (µg/L)	TPHd[5] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
EB-13	11/9/98	N.D.[a]	N.A.[b]	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.
EB-14	11/9/98	2,300	N.A.	N.A.	N.A.	N.D.	N.D.	3.2	6.1
EB-15	11/9/98	N.D.	N.A.	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.
EB-18	11/9/98	N.D.	N.A.	N.A.	N.A.	N.D.	N.D.	N.D.	N.D.

1. Total Petroleum Hydrocarbons as Stoddard Solvent.

2. Micrograms per liter.

3. Total Petroleum Hydrocarbons as motor oil.

4. Total Petroleum Hydrocarbons as bunker oil.

5. Total Petroleum Hydrocarbons as diesel.

Note: water not encountered in borings EB-16, EB-17, EB-19, EB-20, and EB-21.

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[a] N.D.: not detected above specified laboratory reporting limits.

[b] N.A.: not analyzed.

APPENDIX A

SOIL BORING LOGS

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-13
Boring Location: 2633 TELEGRAPH, OAKLAND		Project No.: 60051-001-01	
Subcontractor and Equipment: PRECISION/GEOPROBE		Logged By: R.P. / Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: SE corner of site, 16' west of fence at Telegraph, adjacent to former cleaners
Start Date/Time: 11/9/98//0900	Finish Date/Time: 11/9/98//0930		
First Water (bgs): ~16.5 FEET	Stabilized Water Level (bgs): ~13.24 FEET		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number / Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				OLIVE (5Y 4/3) SILTY CLAY (CL) stiff, moist, no odor, mottled, grades lighter with depth
EB-13-4		0	4				
EB-13-7		0.4	7				OLIVE BROWN (2.5Y 4/4) SILTY, CLAYEY SAND (SM/SC) fine to medium grained sand, loose, moist, no odor grades with increasing silt and mottling
EB-13-10		0	10				
EB-13-13		0	13			▼	
EB-13-16		0	16			▽	OLIVE BROWN (2.5Y 4/4) CLAYEY SAND (SC) trace silt, medium grained, loose, wet
EB-13-19		0	19				End of Boring @ 19.0 feet
			30				

Boring Abandonment / Well Construction Details

Backfilled with grout

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Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

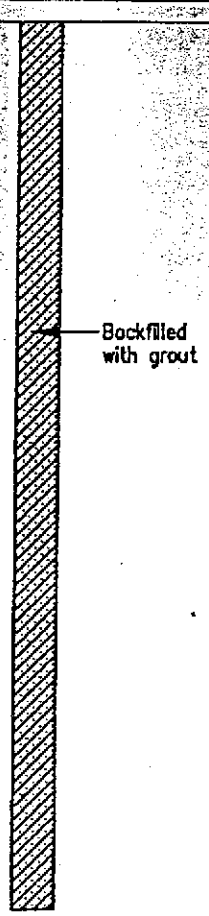
SECOR

Project: HAAGEN-OAKLAND		Log of Boring/Monitoring Well: EB-14
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01	
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P. Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B	Comments: 3' south of Sears wall to alley adjacent to former cleaners. 15' west of EB-13
Start Date/Time: 11/9/98//1220	Finish Date/Time: 11/9/98//	
First Water (bgs): ~16.5 FEET	Stabilized Water Level (bgs): ~13.27 FEET	

Surface Elevation: NA Top Casing Elevation: NA

Sample Number Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
		0	1				OLIVE (5Y 4/3) SANDY CLAY (CL) fine to medium grained, mottled, light stiff, moist
			2				grades with increasing clay
			3				
EB-14-4		0	4				
			5				
			6				
EB-14-7		0	7				OLIVE BROWN (2.5Y 4/4) CLAYEY SAND (SC) fine grained, loose, moist
			8				
			9				
EB-14-10		0	10				
			11				
			12				
EB-14-13		0	13			▽	DARK GRAYISH BROWN (2.5Y 4/2) CLAYEY SAND (SC) fine grained, loose, moist, strong chemical odor
			14				
			15				
EB-14-16		1.4	16				advanced boring to 19.0 feet due to insufficient water
			17				
			18				
			19				End of Boring @ 19.0 feet
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

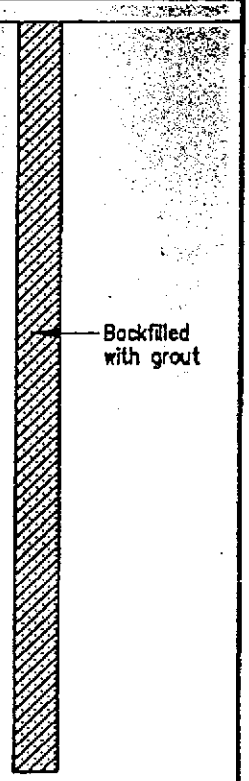
SECOR

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: **EB-15**
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: Alley between Sears and cleaners. 8' west of EB-14 adjacent to cleaners
Start Date/Time: 11/9/98//1025	Finish Date/Time: 11/9/98//1110		
First Water (bgs): ~13.0 FEET	Stabilized Water Level (bgs): ~13.22 FEET		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number / Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				no recovery
			2				
			3				
			4				DARK BROWN (7.5YR 3/4) SANDY CLAY (CL) fine to medium grained, stiff, moist
			5				
			6				
EB-15-7		0	7				DARK YELLOWISH BROWN (10YR 3/4) GRAVELLY CLAY (CL) with trace silt, subangular gravel ~1/2 cm, loose grades to silty sand, fine grained
			8				
			9				
EB-15-10		0	10				VERY DARK BROWN (10YR 2/2) SILTY SAND (SM) loose, saturated
			11				
			12				
EB-15-13		0	13			▽	
			14				
			15				
EB-15-16		0	16				End of Boring @ 16.0 feet
			17				
			18				
			19				
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-16
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: SE edge of parking adjacent to alley east of cleaners. 15' west of parking
Start Date/Time: 11/9/98//1350	Finish Date/Time: 11/9/98//0930		
First Water (bgs): NA	Stabilized Water Level (bgs): NA		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number / Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Sample Interval	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION	Boring Abondonment/ Well Construction Details
			0				ASPHALT	
			1				no rercovery	
			2					
			3					
		0	4				DARK YELLOWISH BROWN (10YR 4/4) SILTY CLAY (CL) stiff, moist, grading with sand replacing silt, stiffness decreases with depth, sand is fine grained	
			5					
			6					
EB-16-7		0	7					Backfilled with grout
			8					
			9					
EB-16-10		0	10				DARK YELLOWISH BROWN (10YR 4/4) SANDY CLAY (CL) fine to meduim grained, stiff, moist, mottled	
			11					
			12					
EB-16-13		0	13				LIGHT OLIVE BROWN (2.5Y 5/4) SILTY CLAY (CL) very stiff, moist, mottled	
			14					
			15					
EB-16-16		0	16					
			17					
			18					
EB-16-19		0	19					
			20					
			21					
EB-16-22		0	22				End of Boring @ 22.0 feet	
			23					
			24					
			25					
			26					
			27					
			28					
			29					
			30					

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SECOR

Reviewed By: _____ Date: _____

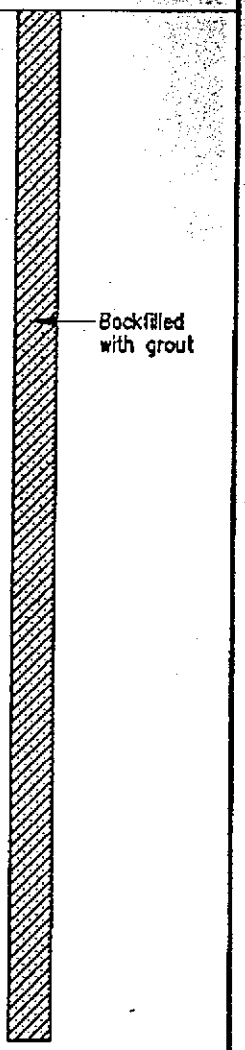
Revised By: _____ Date: _____

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-17
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: 15' west of EB-16, 3' south of of Sears building
Start Date/Time: 11/9/98//0800	Finish Date/Time: 11/9/98//1000		
First Water (bgs): NA	Stabilized Water Level (bgs): NA		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number / Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				DARK REDDISH BROWN (2.5YR 2.5/3) SANDY CLAY (CL) fine grained, moist, stiff, moderate plasticity, some rootlets
EB-17-4		0	4				
EB-17-7		0	7				YELLOWISH BROWN (10YR 5/6) SILTY SAND (SM) fine to medium grained with trace clay, loose, moist
EB-17-10		0	10				YELLOWISH BROWN (10YR 5/6) SILTY CLAY (CL) troce fine grained sand, medium stiff, moist grades into a leaves clay becoming more stiff some organic ????
EB-17-13		0	13				
EB-17-16		0	16				OLIVE BROWN (2.5Y 4/4) SANDY CLAY (CL) fine grained, light stiff, moist, sand content increases with depth, mottled
EB-17-19		0	19				
EB-17-22		0	22				End of Boring @ 22.0 feet

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-18
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: 9' due southwest of SW corner of Sears building
Start Date/Time: 11/9/98//1500	Finish Date/Time: 11/9/98//1630		
First Water (bgs): ~19.0 FEET	Stabilized Water Level (bgs): ~16.0 FEET		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				BLACK (10YR 2/1) SILTY CLAY (CL) moist, stiff, moderate plasticity, mottled
EB-18-4		0	4				DARK YELLOWISH BROWN (10YR 4/4) LEAN CLAY (CL) very stiff, moist
EB-18-7		0	7				DARK YELLOWISH BROWN (10YR 4/4) CLAYEY SAND (SC) fine grained, trace gravel, subangular 1/4 to 1/2 cm., loose, moist, yellow mottling
EB-18-10		0	10				DARK YELLOWISH BROWN (10YR 4/6) SILTY SAND (SM) fine to medium grained sand, loose, moist
EB-18-13		0	13				OLIVE BROWN (2.5Y 4/3) SANDY CLAY (CL) light stiff, moist to wet, moderate plasticity grades into containing some gravel 1/4 to 1/2 cm. subangular
EB-18-16		0	16				
EB-18-19		0	19				
			22				End of Boring @ 22.0 feet

Boring Abandonment/ Well Construction Details

Backfilled with grout

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Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

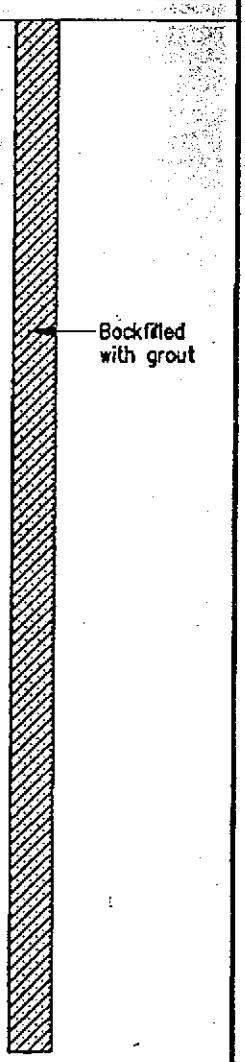
SECOR

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-19
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: 30' due south of Sears building adjacent to property boundary with cleaners
Start Date/Time: 11/10/98//1500	Finish Date/Time: 11/10/98//1630		
First Water (bgs): NA	Stabilized Water Level (bgs): NA		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				DARK OLIVE BROWN (2.5Y 3/3) SANDY CLAY (CL) with few small pebbles ~1/4 cm. subangular, stiff, moist
			2				
			3				
EB-19-4			4				DARK BROWN (7.5YR 3/3) GRAVELLY SAND (SP) sand ~ 80% medium to coarse, poorly sorted gravel ~20% 1/2 to 1 cm. subangular, moist, loose grading with increased gravel to ~10% @ ~9.0 feet
			5				
			6				
EB-19-7			7				
			8				
			9				
EB-19-10			10				
			11				
			12				
EB-19-13			13				no recovery
			14				
			15				
EB-19-16			16				DARK BROWN (7.5YR 3/3) SANDY CLAY (CL) fine grained, moist, stiff, low plasticity
			17				
			18				
EB-19-19			19				DARK BROWN (7.5YR 3/2) SILTY CLAY (CL) stiff, moist, mottled
			20				
			21				
EB-19-22			22				End of Boring @ 22.0 feet
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



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SECOR

Reviewed By: _____ Date: _____

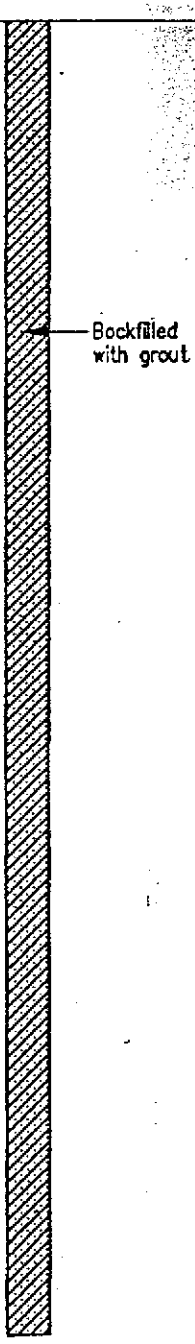
Revised By: _____ Date: _____

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-20
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: Repeat of EB-5
Start Date/Time: 11/10/98//1000	Finish Date/Time: 11/10/98//1200		
First Water (bgs): NA	Stabilized Water Level (bgs): NA		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number / Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1-3				DARK BROWN (10YR 2/2) GRAVELLY SAND (SP) medium grained, gravel is 1/2 cm subangular, very moist, loose (35,65,0,0)
EB-20-4			4-6				DARK OLIVE (5Y 3/2) SANDY CLAY (CL) fine grained, stiff, moist, strong chemical odor, grading to leaner clay
EB-20-7			7-12				DARK OLIVE (5Y 3/2) CLAYEY SAND (SC) medium grained, moist, loose, strong chemical odor, some gravel present ~12 ft., gravel 1-1 1/2 cm. subangular, strong chemical odor
EB-20-13			13-15				DARK OLIVE (5Y 3/2) SILTY CLAY (CL) moist, stiff, chemical odor
EB-20-16			16-27				OLIVE (5Y 3/2) SANDY CLAY (CL) fine grained, some red tan mottling, moist, very stiff, chemical odor decreases with depth, sand content increases with depth
EB-20-28			28				End of Boring @ 28.0 feet
			29-30				

Boring Abandonment/ Well Construction Details



199807.231701 X:\LOGS\HAAGEN\EB-20

SECOR

Reviewed By: _____ Date: _____

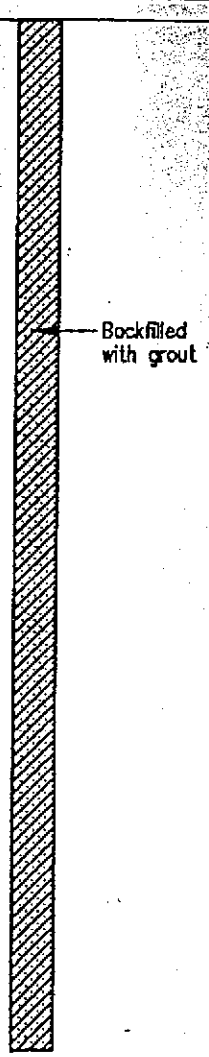
Revised By: _____ Date: _____

Project: HAAGEN-OAKLAND			Log of Boring/Monitoring Well: EB-21
Boring Location: 2633 TELEGRAPH, OAKLAND	Project No.: 60051-001-01		
Subcontractor and Equipment: PRECISION/GEOPROBE	Logged By: R.P.	Drawn By: R.P.	
Sampling Method: DIRECT PUSH	Monitoring Device: PID 580B		Comments: 27' due south of EB-20 in covered parking
Start Date/Time: 11/10/98//1300	Finish Date/Time: 11/10/98//1440		
First Water (bgs): NA	Stabilized Water Level (bgs): NA		

Surface Elevation: NA Top Casing Elevation: NA

Sample Number/ Feet	Blows/Foot	PID (ppm)	Depth (Feet)	Recovery	USCS Symbol	Water Level	LITHOLOGIC DESCRIPTION
			0				ASPHALT
			1				no recovery
			2				
			3				
			4				DARK YELLOWISH BROWN (10YR 3/4) SANDY CLAY (CL) fine grained, moist, very stiff, few organic blebs, mottled
			5				
			6				
EB-21-7			7				DARK YELLOWISH BROWN (10YR 5/6) SILTY SAND (SM) medium grained sand of uniform shape and size, loose, moist
			8				
			9				
EB-21-10			10				
			11				
			12				
EB-21-13			13				OLIVE BROWN (2.5Y 4/4) SANDY CLAY (CL) fine grained, soft, moist, stiffness with depth (0.35,0.65)
			14				
			15				
EB-21-16			16				
			17				
			18				
EB-21-19			19				
			20				
			21				
EB-21-22			22				End of Boring @ 22.0 feet
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				

Boring Abandonment/ Well Construction Details



199807.2J1701 X:\LOGS\HAAGEN\EB-21

Reviewed By: _____ Date: _____

Revised By: _____ Date: _____

SECOR

APPENDIX B

LABORATORY ANALYTICAL RESULTS

MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

60057-001-01\2131\013976

Secor International Inc.
1225 Pear Ave., Suite 110
Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description	Detection Limit ppm	SOIL, Total Petroleum Hydrocarbons as Stoddard ppm
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA		
V118007	EB-13 6.5-7'	<5.0	<5.0
V118006	EB-13 15.5-16'	<5.0	<5.0
V118013	EB-14 3.5-4'	<5.0	<5.0
V118012	EB-14 6.5-7'	<5.0	<5.0
V118009	EB-15 5.5-6'	<5.0	<5.0
V118010	EB-15 12.5-13'	<5.0	<5.0

QA/QC: Spike Recovery on V118007 is 111 %

Note: Analysis was performed using EPA method 3550 modified and TPH LUFT.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Secor International Inc.
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Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description	Detection Limit ppm	SOIL Total Petroleum Hydrocarbons as Stoddard ppm
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA		
V118015	EB-16 6.5'	<5.0	<5.0
V118016	EB-16 12.5'	<5.0	<5.0
V118017	EB-18 3.5'	<5.0	<5.0
V118018	EB-18 15.5'	<5.0	<5.0
V118019	EB-18 21.5'	<5.0	<5.0

Note: Analysis was performed using EPA method 3550 modified and TPH LUFT.
(ppm) = (mg/kg)

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Lab Director

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Secor International Inc.
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Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118007	EB-13 6.5-7' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118006	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-13 15.5-16' SOIL

ANALYSIS

	Detection Limit ppm	Sample Results ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118013	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-14 3.5-4' SOIL

ANALYSIS

	Detection Limit ppm	Sample Results ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118012	EB-14 6.5-7' SOIL

ANALYSIS

	Detection Limit ppm	Sample Results ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118009	EB-15 5.5-6' SOIL

ANALYSIS

	Detection Limit ppm	Sample Results ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118010	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-15 12.5-13' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118015	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-16 6.5' SOIL

ANALYSIS

	Detection Limit ppm	Sample Results ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118016	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-16 12.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Lab Director

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118017	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-18 3.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118018	EB-18 15.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
V118019	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA EB-18 21.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Ronald G. Evans
Lab Director

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Secor International Inc.
1225 Pear Ave., Suite 110
Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description	Detection Limit ppb	WATER Total Petroleum Hydrocarbons as Stoddard ppb
		Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA	
V118008	EB-13	50	<50
V118014	EB-14	50	2,300
V118011	EB-15	50	<50
V118020	EB-18	50	<50

QA/QC: Duplicate Deviation on V118014 is 1.2 %

Note: Analysis was performed using EPA method 3550 modified and TPH LUFT.
(ppb) = (µg/l)

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Secor International Inc.
1225 Pear Ave., Suite 110
Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118008	EB13 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC; Duplicate Deviation is 3.7 %
Spike Recovery is 86 %

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/l)

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Ronald G. Evans
Lab Director

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Secor International Inc.
1225 Pear Ave., Suite 110
Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118014	EB14 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	6.1
Ethylbenzene	0.5	3.2

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/l)

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Ronald G. Evans
Lab Director

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Secor International Inc.
1225 Pear Ave., Suite 110
Mountain View, CA 94043
Attn: Jim Ritchie
Project Manager

Date Sampled: 11-09-98
Date Received: 11-09-98
Date Analyzed: 11-09-98

Sample Number	Sample Description
	Project # 60057-001-01 Haagen/Sears 2633 Telegraph Ave. Oakland, CA
V118011	EB15 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/l)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 9811233

vember 18, 1998

COR SAN FRANCISCO
Atten: J. Ritichie
roject: 2633 TELEGRAPH,OAKLAND Project#: 600570001.01
ceived: November 13, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: SW846 Method 8260A Sept 1994

ient Sample ID: EB13-6.5
Spl#: 215842 Matrix: SOIL
Sampled: November 9, 1998 Run#: 16050 Analyzed: November 16, 1998

NALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CETONE	N.D.	50	N.D.	---	1
ENZENE	N.D.	5.0	N.D.		
ROMODICHLOROMETHANE					

CHROMALAB, INC.

Environmental Services (SDB)

vember 18, 1998

Submission #: 9811233

COR SAN FRANCISCO
Atten: J. Ritichie
roject: 2633 TELEGRAPH,OAKLAND *Project#:* 600570001.01
ceived: November 13, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 Method 8260A Sept 1994*

ient Sample ID: EB13-6.5
Spl#: 215842 *Matrix:* SOIL
ampled: November 9, 1998 *Run#:* 16050 *Analyzed:* November 16, 1998

	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ALYTE	N.D.	50	N.D.	--	1
ETONE	N.D.	5.0			
NZENE					
ROMODICHLOROMETHANE					

CHROMALAB, INC.

Environmental Services (SDB)

vember 18, 1998

Submission #: 9811233

COR SAN FRANCISCO
Atten: J. Ritichie
roject: 2633 TELEGRAPH,OAKLAND *Project#:* 600570001.01
ceived: November 13, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 Method 8260A Sept 1994*

ient Sample ID: EB13-6.5
Spl#: 215842 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16050 *Analyzed:* November 16, 1998

	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ALYTE	N.D.	50	N.D.	--	1
ETONE	N.D.	5.0			
ENZENE					
ROMODICHLOROMETHANE					

CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998

Submission #: 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided
Project#: 60057-001-01
Received: November 10, 1998

re: One sample for TEPH analysis.
Method: *EPA 8015M*

Client Sample ID: **EB-20 12.5-13**
Spl#: 215173
Matrix: SOIL
Extracted: November 16, 1998
Sampled: November 9, 1998
Run#: 15984
Analyzed: November 17, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	140	1.0	N.D.	--	1
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.					
MOTOR OIL	N.D.	50	N.D.	--	1
STODDARD SOLVENT	N.D.	1.0	N.D.	--	1
BUNKER C	N.D.	50	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998

Submission #: 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998

re: One sample for TEPH analysis.
Method: *EPA 8015M*

Client Sample ID: EB-20 21.5-22
Spl#: 215176 *Matrix:* SOIL *Extracted:* November 16, 1998
Sampled: November 9, 1998 *Run#:*15984 *Analyzed:* November 18, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	4.0	1.0	N.D.	--	1
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.					
MOTOR OIL	N.D.	50	N.D.	--	1
STODDARD SOLVENT	N.D.	1.0	N.D.	--	1
BUNKER C	N.D.	50	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

Jovember 18, 1998 *Submission #:* 9811173

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: **EB-21 21.5-22**
Spl#: 215184 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16047 *Analyzed:* November 18, 1998

NALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
.CETONE	N.D.	50	N.D.	--	1
ENZENE	N.D.	5.0	N.D.	95.3	1
ROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
ROMOFORM	N.D.	5.0	N.D.	--	1
ROMOMETHANE	N.D.	10	N.D.	--	1
ARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
HLOROBENZENE	N.D.	5.0	N.D.	98.9	1
HLOROETHANE	N.D.	10	N.D.	--	1
-BUTANONE (MEK)	N.D.	50	N.D.	--	1
-CHLOROETHYLVINYLETHER	N.D.	50	N.D.	--	1
HLOROFORM	N.D.	5.0	N.D.	--	1
HLOROMETHANE	N.D.	10	N.D.	--	1
IBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
,2-DIBROMO-3-CHLOROPROPANE	N.D.	50	N.D.	--	1
,2-DIBROMOETHANE	N.D.	10	N.D.	--	1
IBROMOMETHANE	N.D.	10	N.D.	--	1
ICHLORODIFLUOROMETHANE	N.D.	10	N.D.	--	1
,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
,1-DICHLOROETHENE	N.D.	5.0	N.D.	81.4	1
,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
IS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
RANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
THYLBENZENE	N.D.	5.0	N.D.	--	1
-HEXANONE	N.D.	50	N.D.	--	1
ETHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
APHTHALENE	N.D.	50	N.D.	--	1
TYRENE	N.D.	5.0	N.D.	--	1
,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
ETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
OLUENE	N.D.	5.0	N.D.	92.7	1
,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
RICHLOROETHENE	N.D.	5.0	N.D.	86.4	1
,1,1,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
INYL ACETATE	N.D.	50	N.D.	--	1
INYL CHLORIDE	N.D.	5.0	N.D.	--	1

10-285-2568

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811173
page 2

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis, continued.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: **EB-21 21.5-22**
Spl#: 215184 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16047 *Analyzed:* November 18, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
TOTAL XYLENES	N.D.	10	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
CARBON DISULFIDE	N.D.	5.0	N.D.	--	1
ISOPROPYLBENZENE	N.D.	5.0	N.D.	--	1
BROMOBENZENE	N.D.	5.0	N.D.	--	1
BROMOCHLOROMETHANE	N.D.	20	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1

June Zhao
Analyst

Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998

re: One sample for TEPH analysis.
Method: *EPA 8015M*

Client Sample ID: **EB-21 21.5-22**
Spl#: 215184 *Matrix:* SOIL *Extracted:* November 17, 1998
Sampled: November 9, 1998 *Run#:*16010 *Analyzed:* November 18, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	4.7	1.0	N.D.	--	1
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.					
MOTOR OIL	N.D.	50	N.D.	--	1
STODDARD SOLVENT	N.D.	1.0	N.D.	--	1
BUNKER C	N.D.	50	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

Chain-of Custody Number:

SECOR Chain-of Custody Record

☐ Additional documents are attached, and are a part of this Record.

Field Office: Mtn. View (06)
Address: 1225 Pear Ave. #110
Mtn. View, CA 94043

Job Name: Hagen - Oakland
Location: 2633 Telegraph Ave
Oakland, CA 94612

Project # 60057-001-01 Task # ______
Project Manager J G Ritchie
Laboratory Chromalab
Turnaround Time 5 days

Sampler's Name Robert Potter
Sampler's Signature [signature]

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals			Comments/ Instructions	Number of Containers
EB-13 3.5-4	11-9	9 AM	S															~~Analyze~~	1
EB-13 9.5-10	11-9	900	S															~~Analyze~~	1
EB 13 0.5-13	11-9	0900	S															~~Analyze~~	1
EB 13 18.5-19	11-9	0900	S															~~Analyze~~	1
EB 14 9.5-10	11-9	1000	S															~~Analyze~~	1
EB 14 0.5-13	11-9	1000	S															~~Analyze~~	1
EB 14 14-16	11-9	1000	S															~~Analyze~~	1
EB 15 3.5-4	11-9	1100	S															~~Analyze~~	1
EB 15 9.5-10	11-9	1100	S															~~Analyze~~	1
EB 15 15.5-16	11-9	1100	S															~~Analyze~~	1

Special Instructions/Comments:

Hold All samples until contacted by Jim Ritchie

Relinquished by: Robert Potter	Received by:
Sign [signature]	Sign [signature]
Print	Print Tom Wright
Company SECOR	Company C/L
Time 16:30 Date 11/10/98	Time 1630 Date 11/10/98

Relinquished by:	Received by:
Sign	Sign
Print	Print
Company	Company
Time Date	Time Date

Sample Receipt

Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

SECOR Chain-of Custody Record

Field Office: Mtn. View (06)
Address: 1225 Bear Ave. #110
Mtn. View, Ca. 94043

☐ Additional documents are attached, and are a part of this Record.

Job Name: Haagen - Oakland
Location: 2633 Telegraph
Oakland, CA. 94612

Project # 60057-001.01 Task # _____
Project Manager Jim Ritchie
Laboratory Chromalab
Turnaround Time 5 days

Sampler's Name Robert Potter
Sampler's Signature Robert Potter

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals			Comments/ Instructions	Number of Containers
EB-16 9.5-10	11-9	1200	S															Analyze	1
EB-16 13.5-14	11-9	1200	S															Analyze	1
EB-16 18.5-19	11/9	1200	S															Analyze	1
EB-16 21.5-22	11/9	1200	S															Analyze	1
EB-18 6.5-7	11/9	1400	S															Analyze	1
EB-18 9.5-10	11/9	1400	S															Analyze	1
EB-18 12.5-13	11/9	1400	S															Analyze	1
EB-18 19.5-19	11/9	1400	S															Analyze	1
EB-13	11/9	0900	W															Analyze	6
EB-14	11/9	1000	W															Analyze	6

Special Instructions/Comments:

Hold All Samples until contacted by Jim Ritchie

Relinquished by: Robert Potter
Sign Robert Potter
Print _____
Company SECOR
Time 16:30 Date 11/10/98

Received by: _____
Sign Tom Wright
Print TOM WRIGHT
Company C/L
Time 1630 Date 11/10/98

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Relinquished by: _____
Sign _____
Print _____
Company _____
Time _____ Date _____

Received by: _____
Sign _____
Print _____
Company _____
Time _____ Date _____

Client: _____
Client Contact: _____
Client Phone: _____

SECOR CUSTREC Rev. 1/95

Date: 11/10/98 Page 2 of 5

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Mtn. View (06)
Address: 1225 Pear Ave. #110
Mtn. View, CA. 94043

☐ Additional documents are attached, and are a part of this Record.

Job Name: Haagen - Oakland
Location: 2633 Telegraph
Oakland, CA. 94602

Project # 600057-001-01 Task #
Project Manager JG Ritchie
Laboratory Chroma lab
Turnaround Time 5 day

Sampler's Name Robert Potter
Sampler's Signature [signature]

Analysis Request

Sample ID	Date	Time	Matrix	HCl	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
EB-15	11/9	1100	W													[illegible]	6
EB-18	11/9	1400	W													[illegible]	6
EB-17 3.5-4	11/10	800	S													[illegible]	1
EB-17 6.5-7	11/10	820	S													[illegible]	1
EB-17 9.5-10	11/10	840	S													[illegible]	1
EB-17 12.5-13	11/10	845	S													[illegible]	1
EB-17 16.5-17	11/10	900	S													[illegible]	1
EB-17 18.5-19	11/10	9:35	S													[illegible]	1
EB-17 21.5-22	11/10	9:30	S													[illegible]	1
EB-20 3.5-4	11/10	10:10	S													[illegible]	1

Special Instructions/Comments:

Hold All Samples
Until contacted
by Jim Ritchie

Relinquished by: Robert Potter
Sign [signature]
Print
Company SECOR
Time 16:30 Date 11/10/98

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign [signature]
Print [illegible]
Company C/L
Time 1630 Date 11/10/98

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 11/10/98 Page 3 of 5

SECOR Chain-of Custody Record

Field Office: Mtn. View (06)
Address: 1225 - Pear Ave. #110
Mtn. View, CA. 94043

☐ Additional documents are attached, and are a part of this Record.

Job Name: Haagen - Oakland
Location: 2633 Telegraph
Oakland, CA. 94612

Project # 60057-001.01 Task #
Project Manager Jim Ritchie
Laboratory Chromalab
Turnaround Time 5 day

Sampler's Name Robert Potter
Sampler's Signature Robert Potter

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/MTPH-G 8015 (modified)/8020	TPHd/MTPH-D 8015 (modified)	TPH 418.1/MTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals			Comments/ Instructions	Number of Containers
EB-20 6.5-7	11/10	10:20	S																1
EB-20 9.5-10	11/10	10:30	S																1
EB-20 12.5-13	11/10	10:40	S																1
EB-20 15.5-16	11/10	10:50	S																1
EB-20 18.5-19	11/10	11:00	S																1
EB-20 21.5-22	11/10	11:10	S																1
EB-20 24.5-25	11/10	11:20	S																1
EB-20 27.5-28	11/10	11:30	S																1
EB-21 6.5-7	11/10	13:10	S																1
EB-21 9.5-10	11/10	13:20	S																1

Special Instructions/Comments:

Hold All Samples
until contacted
by Jim Ritchie

Relinquished by: Robert Potter
Sign Robert Potter
Print
Company SECOR
Time 16:30 Date 11/10/98

Received by:
Sign
Print Tony Wright
Company CLS
Time 1630 Date 11/10/98

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 11/10/98 Page 4 of 5

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Mtn View

Address:

☐ Additional documents are attached, and are a part of this Record.

Job Name: Haagen Oakland

Location: 2633 Telegraph Ave Oakland

Project # 60057-001-01 Task # H02

Project Manager Robert Potter

Laboratory Mobile Chem

Turnaround Time Same day

Sampler's Name

Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/MTPH-G* 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 825/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals		Comments/ Instructions	Number of Containers
EB-13 6.5-7	11/9	9:30A	S		X												Prep & Hold → Analyze	1
EB-13 15.5-16	11/9	9:50A	S		X												Analyze	1
EB-13 (Scout)	11/9	10:00A	W		X												Analyze (2 VOAs on hold)	5
EB-14 3.5-4	11/9	11:25	S		X												Prep & Hold → Analyze	
EB-14 6.5-7	11/9	11:35	S		X												Analyze	
EB-14	11/9		W		X												Analyze	
EB-15 5.5-6	11/9	10:40A	S		X												Analyze	
EB-15 12.5-13	11/9	10:50A	S		X												Analyze	
EB-15	11/9		W		X												Analyze	

*TPH as stoddard solvent

Special Instructions/Comments:

Relinquished by:
Sign Robert Potter
Print Robert Potter
Company SECOR
Time 12:25 Date 11/9

Received by: FRED CHOSKE
Sign Fred Choske
Print
Company Mobile CHEMLAB
Time 1720 Date 11/9/98

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 11/9/98 Page 2 of 2

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Mtn. View (ofc)
Address: 225 - Pres Ave. #110
Mtn. View, CA. 94043

☐ Additional documents are attached, and are a part of this Record.

Job Name: Haagen - Sears
Location: 2633 Telegraph
Oakland, CA. 94612

Project # 600057-001-01 Task #
Project Manager J.G. Ritchie
Laboratory Chromalab
Turnaround Time 5 day

Sampler's Name
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals			Comments/ Instructions	Number of Containers
EB-21 12.5-13	11/10	1400	S																1
EB-21 15.5-16	11/10	14:10	S																1
EB-21 18.5-19	11/10	14:20	S																1
EB-21 21.5-22	11/10	14:30	S																1
EB-19 3.5-4	11/10	15:15	S																1
EB-19 6.5-7	11/10	15:30	S																1
EB-19 9.5-10	11/10	15:40	S																1
EB-19 12.5-13	11/10	15:50	S																1
EB-19 18.5-19	11/10	16:10	S																1
EB-19 21.5-22	11/10	16:30	S																1

Special Instructions/Comments:

Hold all samples until contact by Jim Ritchie.

Relinquished by: Robert Patterson
Sign Robert Patterson
Print
Company SECOR
Time 16:30 Date 11/10/98

Received by:
Sign Dori Wright
Print TOM WRIGHT
Company C/L J
Time 1630 Date 11/10/98

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 11/10/98 Page 5 of 5

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Mtn View

Address:

☐ Additional documents are attached, and are a part of this Record.

Job Name: Hagen Oakland

Location: 2637 Telegraph Ave Oakland

Project # 60057-001-01 Task # 1702

Project Manager Robert Potter

Laboratory Mobile Chem

Turnaround Time Same Day

Sampler's Name

Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020 *	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals			Comments/ Instructions	Number of Containers
EB-16 - 6.5	11/9	1345	S		✓													Analyze * TPH as Stoddard solvent	
EB-16 - 12.5	11/9	1355	S		X													Analyze	
EB-18 - 8.5	11/9	1512	S		✓													Analyze	
EB-18 - 15.5	11/9	1600	S		X													Analyze	
EB-18 - 21.5	11/9	1630	S		X													Analyze	
EB-18 - 27.5	11/9	1700	W		X													Analyze	
EB-																			
EB-																			
EB-																			
EB-																			

Special Instructions/Comments:

Relinquished by: Robert Potter
Sign Robert Potter
Print Robert Potter
Company SECOR
Time 1705 Date 11/9

Received by: FRED CHASKE
Sign FRED CHASKE
Print Fred Chaske
Company MobileCHEM
Time _____ Date 11/10/98

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Relinquished by: _____
Sign _____
Print _____
Company _____
Time _____ Date _____

Received by: _____
Sign _____
Print _____
Company _____
Time _____ Date _____

Client: _____
Client Contact: _____
Client Phone: _____

SECOR CUSTREC Rev. 1/95

Date: 11/9/9 Page 1 of 2

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 9811233

vember 18, 1998

COR SAN FRANCISCO
Atten: J. Ritichie
Project: 2633 TELEGRAPH,OAKLAND Project#: 600570001.01
eceived: November 13, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: SW846 Method 8260A Sept 1994

lient Sample ID: EB13-6.5
Spl#: 215842 Matrix: SOIL
Sampled: November 9, 1998 Run#: 16050 Analyzed: November 16, 1998

NALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CETONE	N.D.	50	N.D.	--	1
ENZENE	N.D.	5.0	N.D.	---	
ROMODICHLOROMETHANE					

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811233

SECOR SAN FRANCISCO

Atten: J. Ritichie

Project: 2633 TELEGRAPH,OAKLAND *Project#:* 600570001.01
Received: November 13, 1998

re: **Blank spike and duplicate** report for Volatile Organics by GC/MS analysi

Method: SW846 Method 8260A Sept 1994

Matrix: SOIL
Lab Run#: 16050

Analyzed: November 16, 1998

Analyte	Spike Amount BSP (ug/Kg)	Spike Amount Dup	Spike Amount Found BSP (ug/Kg)	Spike Amount Found Dup	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
BENZENE	100	100	105	107	105	107	69-129	1.89	20
CHLOROBENZENE	100	100	115	119	115	119	61-121	3.42	20
1,1-DICHLOROETHENE	100	100	113	113	113	113	65-125	0	20
TOLUENE	100	100	104	104	104	104	70-130	0	20
TRICHLOROETHENE	100	100	105	105	105	105	74-134	0	20

Smpl #: 216508
D Smpl #: 216509

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998 *Submission #:* 9811233

SECOR SAN FRANCISCO

Atten: J. Ritichie

Project: 2633 TELEGRAPH,OAKLAND *Project#:* 600570001.01
Received: November 13, 1998

re: **Surrogate** report for 1 sample for Volatile Organics by GC/MS analysis.
Method: SW846 Method 8260A Sept 1994
Lab Run#: 16050
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
215842-1	EB13-6.5	4-BROMOFLUOROBENZENE	113	74-121
215842-1	EB13-6.5	D4-1,2-DICHLOROETHANE	97.4	70-121
215842-1	EB13-6.5	D8-TOLUENE	107	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
216507-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	107	74-121
216507-1	*Reagent blank (MDB)*	D4-1,2-DICHLOROETHANE	99.8	70-121
216507-1	*Reagent blank (MDB)*	D8-TOLUENE	106	81-117
216508-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	105	74-121
216508-1	*Spiked blank (BSP)*	D4-1,2-DICHLOROETHANE	94.9	70-121
216508-1	*Spiked blank (BSP)*	D8-TOLUENE	105	81-117
216509-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	103	74-121
216509-1	*Spiked blank duplicate (BSD)*	D4-1,2-DICHLOROETHANE	116	70-121
216509-1	*Spiked blank duplicate (BSD)*	D8-TOLUENE	107	81-117
216510-1	*Matrix spike (MS)*	4-BROMOFLUOROBENZENE	116	74-121
216510-1	*Matrix spike (MS)*	D4-1,2-DICHLOROETHANE	120	70-121
216510-1	*Matrix spike (MS)*	D8-TOLUENE	110	81-117
216511-1	*Matrix spike duplicate (MSD)*	4-BROMOFLUOROBENZENE	111	74-121
216511-1	*Matrix spike duplicate (MSD)*	D4-1,2-DICHLOROETHANE	74.8	70-121
216511-1	*Matrix spike duplicate (MSD)*	D8-TOLUENE	113	81-117

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CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811233

SECOR SAN FRANCISCO

Atten: J. Ritichie

Project: 2633 TELEGRAPH,OAKLAND *Project#:* 600570001.01
Received: November 13, 1998

re: **Matrix spike** report for Volatile Organics by GC/MS analysis.

Method: SW846 Method 8260A Sept 1994

Matrix: SOIL
Lab Run#: 16050 *Instrument:* *Analyzed:* November 16, 1998

Analyte	Spiked Sample Amount (ug/Kg)	Spike Amt MS (ug/Kg)	Spike Amt MSD (ug/Kg)	Amt Found MS (ug/Kg)	Amt Found MSD (ug/Kg)	Spike Recov MS (%)	Spike Recov MSD (%)	Control Limits	% RPD	% RPD Lim
BENZENE	N.D.	96.2	89.3	101	95.0	105	106	69-129	0.94	20
CHLOROBENZENE	N.D.	96.2	89.3	117	108	122	121	61-121	0.82	20
1,1-DICHLOROETHENE	N.D.	96.2	89.3	112	101	116	113	65-125	2.62	20
TOLUENE	N.D.	96.2	89.3	104	96.7	108	108	70-130	0	20
TRICHLOROETHENE	N.D.	96.2	89.3	106	95.6	110	107	74-134	2.76	20

Sample Spiked: 215842
Submission #: 9811233
Client Sample ID: EB13-6.5

S Smpl #: 216510
SD Smpl #: 216511

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CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998

Submission #: 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided
Received: November 10, 1998

Project#: 60057-001-01

re: One sample for TEPH analysis.
Method: EPA 8015M

Client Sample ID: EB-14
Spl#: 215160
Sampled: November 9, 1998

Matrix: WATER
*Run#:*16014

Extracted: November 17, 1998
Analyzed: November 18, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	N.D.	50	N.D.	--	1
MOTOR OIL	N.D.	500	N.D.	--	1
STODDARD SOLVENT	1200	50	N.D.	--	1
BUNKER C	N.D.	500	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: SW846 Method 8260A Sept 1994

Client Sample ID: EB-19 21.5-22
Spl#: 215190 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16047 *Analyzed:* November 18, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	5.0	N.D.	95.3	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
BROMOFORM	N.D.	5.0	N.D.	--	1
BROMOMETHANE	N.D.	10	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	98.9	1
CHLOROETHANE	N.D.	10	N.D.	--	1
2-BUTANONE (MEK)	N.D.	50	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	50	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
CHLOROMETHANE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,2-DIBROMO-3-CHLOROPROPANE	N.D.	50	N.D.	--	1
1,2-DIBROMOETHANE	N.D.	10	N.D.	--	1
DIBROMOMETHANE	N.D.	10	N.D.	--	1
DICHLORODIFLUOROMETHANE	N.D.	10	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	81.4	1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
ETHYLBENZENE	N.D.	5.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
NAPHTHALENE	N.D.	50	N.D.	--	1
STYRENE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
TOLUENE	N.D.	5.0	N.D.	92.7	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	86.4	1
1,1,1,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
VINYL ACETATE	N.D.	50	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1

510-285-2568 AS 11/11

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Federal ID #68-0140157

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CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998

re: One sample for TEPH analysis.
Method: *EPA 8015M*

Client Sample ID: EB-19 21.5-22
Spl#: 215190 *Matrix:* SOIL *Extracted:* November 17, 1998
Sampled: November 9, 1998 *Run#:*16010 *Analyzed:* November 18, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	5.8	1.0	N.D.	--	1
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.					
MOTOR OIL	N.D.	50	N.D.	--	1
STODDARD SOLVENT	N.D.	1.0	N.D.	--	1
BUNKER C	N.D.	50	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811173
page 2

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided
Project#: 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis, continued.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: EB-19 21.5-22
Spl#: 215190 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16047 *Analyzed:* November 18, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
OTAL XYLENES	N.D.	10	N.D.	--	1
RICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
ARBON DISULFIDE	N.D.	5.0	N.D.	--	1
SOPROPYLBENZENE	N.D.	5.0	N.D.	--	1
ROMOBENZENE	N.D.	5.0	N.D.	--	1
ROMOCHLOROMETHANE	N.D.	20	N.D.	--	1
RICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1

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Michael Verona
Operations Manager

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CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: EB-20 6.5-7
Spl#: 215171 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16050 *Analyzed:* November 16, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	220	N.D.	--	4
BENZENE	N.D.	22	N.D.	105	4
BROMODICHLOROMETHANE	N.D.	22	N.D.	--	4
BROMOFORM	N.D.	22	N.D.	--	4
BROMOMETHANE	N.D.	43	N.D.	--	4
CARBON TETRACHLORIDE	N.D.	22	N.D.	--	4
CHLOROBENZENE	N.D.	22	N.D.	115	4
CHLOROETHANE	N.D.	43	N.D.	--	4
2-BUTANONE (MEK)	N.D.	220	N.D.	--	4
2-CHLOROETHYLVINYLETHER	N.D.	220	N.D.	--	4
CHLOROFORM	N.D.	22	N.D.	--	4
CHLOROMETHANE	N.D.	43	N.D.	--	4
DIBROMOCHLOROMETHANE	N.D.	22	N.D.	--	4
1,2-DICHLOROBENZENE	N.D.	22	N.D.	--	4
1,3-DICHLOROBENZENE	N.D.	22	N.D.	--	4
1,4-DICHLOROBENZENE	N.D.	22	N.D.	--	4
1,2-DIBROMO-3-CHLOROPROPANE	N.D.	220	N.D.	--	4
1,2-DIBROMOETHANE	N.D.	43	N.D.	--	4
DIBROMOMETHANE	N.D.	43	N.D.	--	4
DICHLORODIFLUOROMETHANE	N.D.	43	N.D.	--	4
1,1-DICHLOROETHANE	N.D.	22	N.D.	--	4
1,2-DICHLOROETHANE	N.D.	22	N.D.	--	4
1,1-DICHLOROETHENE	N.D.	22	N.D.	113	4
1,2-DICHLOROETHENE (CIS)	N.D.	22	N.D.	--	4
1,2-DICHLOROETHENE (TRANS)	N.D.	22	N.D.	--	4
1,2-DICHLOROPROPANE	N.D.	22	N.D.	--	4
CIS-1,3-DICHLOROPROPENE	N.D.	22	N.D.	--	4
TRANS-1,3-DICHLOROPROPENE	N.D.	22	N.D.	--	4
ETHYLBENZENE	44	22	N.D.	--	4
2-HEXANONE	N.D.	220	N.D.	--	4
METHYLENE CHLORIDE	N.D.	22	N.D.	--	4
4-METHYL-2-PENTANONE (MIBK)	N.D.	220	N.D.	--	4
NAPHTHALENE	N.D.	220	N.D.	--	4
STYRENE	N.D.	22	N.D.	--	4
1,1,2,2-TETRACHLOROETHANE	N.D.	22	N.D.	--	4
TETRACHLOROETHENE	N.D.	22	N.D.	--	4
TOLUENE	N.D.	22	N.D.	104	4
1,1,1-TRICHLOROETHANE	N.D.	22	N.D.	--	4
1,1,2-TRICHLOROETHANE	N.D.	22	N.D.	--	4
TRICHLOROETHENE	N.D.	22	N.D.	105	4
1,1,1,2-TETRACHLOROETHANE	N.D.	22	N.D.	--	4
VINYL ACETATE	N.D.	220	N.D.	--	4
VINYL CHLORIDE	N.D.	22	N.D.	--	4

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811173
page 2

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis, continued.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: EB-20 6.5-7
Spl#: 215171 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16050 *Analyzed:* November 16, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
TOTAL XYLENES	N.D.	43	N.D.	--	4
TRICHLOROTRIFLUOROETHANE	N.D.	22	N.D.	--	4
CARBON DISULFIDE	N.D.	22	N.D.	--	4
ISOPROPYLBENZENE	45	22	N.D.	--	4
BROMOBENZENE	N.D.	22	N.D.	--	4
BROMOCHLOROMETHANE	N.D.	87	N.D.	--	4
TRICHLOROFLUOROMETHANE	N.D.	22	N.D.	--	4

Note: Reporting limits raised due to matrix interference.

Alex Tam
Analyst

Michael Verona
Operations Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

DRAFT

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND

Atten: JIM RITCHIE

Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998

re: One sample for TEPH analysis.
Method: *EPA 8015M*

Client Sample ID: **EB-20 6.5-7**
Spl#: 215171 *Matrix:* SOIL *Extracted:* November 16, 1998
Sampled: November 9, 1998 *Run#:*15984 *Analyzed:* November 18, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	160	1.0	N.D.	--	1
Note: *Hydrocarbon reported does not match the pattern of our Diesel Standard. Surrogate Recoveries biased high due to Hydrocarbon co-elution.*					
MOTOR OIL	70	50	N.D.	--	1
STODDARD SOLVENT	N.D.	1.0	N.D.	--	1
BUNKER C	N.D.	50	N.D.	--	1

Carolyn House
Analyst

Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998 *Submission #:* 9811173

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided *Project#:* 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 Method 8260A Sept 1994*

Client Sample ID: EB-20 12.5-13
Spl#: 215173 *Matrix:* SOIL
Sampled: November 9, 1998 *Run#:* 16050 *Analyzed:* November 16, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	500	N.D.	--	10
BENZENE	N.D.	50	N.D.	105	10
BROMODICHLOROMETHANE	N.D.	50	N.D.	--	10
BROMOFORM	N.D.	50	N.D.	--	10
BROMOMETHANE	N.D.	100	N.D.	--	10
CARBON TETRACHLORIDE	N.D.	50	N.D.	--	10
CHLOROBENZENE	N.D.	50	N.D.	115	10
CHLOROETHANE	N.D.	100	N.D.	--	10
2-BUTANONE (MEK)	N.D.	500	N.D.	--	10
2-CHLOROETHYLVINYLETHER	N.D.	500	N.D.	--	10
CHLOROFORM	N.D.	50	N.D.	--	10
CHLOROMETHANE	N.D.	100	N.D.	--	10
DIBROMOCHLOROMETHANE	N.D.	50	N.D.	--	10
1,2-DICHLOROBENZENE	N.D.	50	N.D.	--	10
1,3-DICHLOROBENZENE	N.D.	50	N.D.	--	10
1,4-DICHLOROBENZENE	N.D.	50	N.D.	--	10
1,2-DIBROMO-3-CHLOROPROPANE	N.D.	500	N.D.	--	10
1,2-DIBROMOETHANE	N.D.	100	N.D.	--	10
DIBROMOMETHANE	N.D.	100	N.D.	--	10
DICHLORODIFLUOROMETHANE	N.D.	100	N.D.	--	10
1,1-DICHLOROETHANE	N.D.	50	N.D.	--	10
1,2-DICHLOROETHANE	N.D.	50	N.D.	--	10
1,1-DICHLOROETHENE	N.D.	50	N.D.	113	10
1,2-DICHLOROETHENE (CIS)	N.D.	50	N.D.	--	10
1,2-DICHLOROETHENE (TRANS)	N.D.	50	N.D.	--	10
1,2-DICHLOROPROPANE	N.D.	50	N.D.	--	10
CIS-1,3-DICHLOROPROPENE	N.D.	50	N.D.	--	10
TRANS-1,3-DICHLOROPROPENE	N.D.	50	N.D.	--	10
ETHYLBENZENE	N.D.	50	N.D.	--	10
2-HEXANONE	N.D.	500	N.D.	--	10
METHYLENE CHLORIDE	N.D.	50	N.D.	--	10
4-METHYL-2-PENTANONE (MIBK)	N.D.	500	N.D.	--	10
NAPHTHALENE	N.D.	500	N.D.	--	10
STYRENE	N.D.	50	N.D.	--	10
1,1,2,2-TETRACHLOROETHANE	N.D.	50	N.D.	--	10
TETRACHLOROETHENE	N.D.	50	N.D.	--	10
TOLUENE	N.D.	50	N.D.	104	10
1,1,1-TRICHLOROETHANE	N.D.	50	N.D.	--	10
1,1,2-TRICHLOROETHANE	N.D.	50	N.D.	--	10
TRICHLOROETHENE	N.D.	50	N.D.	105	10
1,1,1,2-TETRACHLOROETHANE	N.D.	50	N.D.	--	10
VINYL ACETATE	N.D.	500	N.D.	--	10
VINYL CHLORIDE	N.D.	50	N.D.	--	10

CHROMALAB, INC.

Environmental Services (SDB)

November 18, 1998

Submission #: 9811173
page 2

SECOR OAKLAND
Atten: JIM RITCHIE
Project: Not provided
Project#: 60057-001-01
Received: November 10, 1998
re: One sample for Volatile Organics by GC/MS analysis, continued.
Method: SW846 Method 8260A Sept 1994

Client Sample ID: EB-20 12.5-13
Spl#: 215173
Matrix: SOIL
Sampled: November 9, 1998
Run#: 16050
Analyzed: November 16, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
TOTAL XYLENES	N.D.	100	N.D.	--	10
TRICHLOROTRIFLUOROETHANE	N.D.	50	N.D.	--	10
CARBON DISULFIDE	N.D.	50	N.D.	--	10
ISOPROPYLBENZENE	N.D.	50	N.D.	--	10
BROMOBENZENE	N.D.	50	N.D.	--	10
BROMOCHLOROMETHANE	N.D.	200	N.D.	--	10
TRICHLOROFLUOROMETHANE	N.D.	50	N.D.	--	10

Note: Reporting limits raised due to matrix interference.

Alex Tam
Analyst

Michael Verona
Operations Manager

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