SUBSURFACE INVESTIGATION
1362 AND 1384 RUUS LANE
HAYWARD, CALIFORNIA

Prepared for:

WARMINGTON HOMES
3160 Crow Canyon Place, Suite 200
San Ramon, California 94583

Prepared by:

Marc Papineau
Project Manager

Donald P. Bransford, R.G. 5621
Environmental Services Manager

Recon Environmental Corp.
7000 Marina Boulevard, 4th Floor
Brisbane, California 94005
(415-742-9900)

Project Number S40109

November 17, 1994

Recon
Environmental Corp.

November 17, 1994

Mr. Gene Toschi
Warmington Homes
3160 Crow Canyon Place, Suite 200
San Ramon, California 94583

Subject: Subsurface Investigation at 1362 and 1384 Ruus Lane, Hayward, California (RECON project number S40109)

Dear Mr. Toschi:

Recon Environmental Corp. (RECON) is pleased to submit two copies of this report in general accordance with proposal number 13308A, dated June 16, 1994.

RECON appreciates the opportunity to assist Warmington Homes with their environmental projects. If you have any questions regarding this report, please contact either of us at your convenience at (415) 742-9900.

Sincerely,

Marc Papineau
Project Manager

Donald P. Bransford, R.G. 5621
Environmental Services Manager

Enclosure

7000 Marina Boulevard, 4th Floor, Brisbane, CA 94005 • (415) 742-9900 • Fax (415) 742-1033
An SHP Group Company

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

Recon Environmental Corp. (RECON) has prepared this report to present the results of a subsurface investigation conducted at 1362 and 1384 Ruus Lane (site) in the city of Hayward, California (see Figure 1). The work was conducted by RECON during September and October 1994, in general accordance with proposal number 13308A submitted to Warmington Homes dated June 16, 1994. The work was conducted at the request and authorization of Mr. Gene Toschi of Warmington Homes. The investigation was conducted to assess the presence of elevated concentrations of hazardous substances and petroleum hydrocarbons at the site. The investigation was conducted in general accordance with the approach and procedures outlined in the work plan dated June 22, 1994 (CERTIFIED, 1994b), and modifications to the scope of work (CERTIFIED, 1994c; 1994d), prepared by RECON and approved by Mr. Eddie So of the California Regional Water Quality Control Board (RWQCB).

1.1 Historical and Current Site Usage

In a historical aerial photograph dated 1947, the site appears to have been tilled agricultural land. Interpretation of a 1968 historical aerial photograph indicated that heavy equipment was stored over an area that may have overlapped both the Tallyn and Hohener parcels, in the southern portion of both parcels (CERTIFIED, 1994a).

Previous uses of the Tallyn parcel included interim storage of chemical toilet waste and surface storage of [redacted]-gallon drums of formaldehyde used in the toilets. Previous uses of the Hohener parcel included storage of a variety of hazardous materials, hazardous wastes, batteries, junk metal, tires, and equipment. Review of records indicates that over thirty 55-gallon drums containing waste oil, methyl ethyl ketone, and other materials, and numerous partially full drums and empty drums were present at the site on this parcel. Additionally, a variety of containers containing paints, shellacs, and chemical strippers were also present. These materials were reported to have been removed from the site (CERTIFIED, 1994a).

The Hohener parcel is not currently used and consists of mostly open field. The Tallyn parcel is currently used by A-1 Sanitation for its portable toilet business. In their hazardous materials business plan filed with the City of Hayward, A-1 Sanitation is reported to store up to three 55-gallon drums of waste oil, up to two 55-gallon drums of new oil, and up to 20 gallons of portable toilet chemical. Currently, the portable toilet chemical is reported to contain 1 to 5 percent n-alkyl dimethyl benzyl ammonium chlorides (CERTIFIED, 1994a).

1.2 Previous Site Investigations

Previous investigations of shallow subsurface soil and groundwater conditions were performed by Essenes Environmental, Inc. (Essenes, 1992a; 1992b; 1993), and CERTIFIED Engineering & Testing Company, Inc. (CERTIFIED, 1994a). The results of these investigations reported the presence of elevated concentrations of petroleum hydrocarbons as oil and grease in the soil in concentrations of up to 230 milligrams per kilogram (mg/kg). Based upon previous investigations, the petroleum oil-affected soil is generally located in the southern portion of the site, in the vicinity of the former junk pile and historical heavy equipment storage area.

Groundwater samples were collected from temporary screened borings generally located along the western property boundary of the Hohener parcel in February, 1993. Four groundwater samples were collected and analyzed for total petroleum hydrocarbons as kerosene, diesel, and petroleum oil, and halogenated volatile organic compounds (VOCs). These analytes were not reported to be detected in any of the four groundwater samples in concentrations exceeding the laboratory analytical method detection limits (Essenes, 1993).

1.3 Current Investigation

The investigation summarized in this report was conducted to provide additional information to be used for the development of a site mitigation plan to guide site remediation prior to development of the site for residential purposes.

2.0 OBJECTIVES

The objectives of this investigation summarized in this report were to 1) assess the presence and concentration of potentially hazardous materials in the shallow subsurface of the Tallyn parcel; 2) assess the lateral and vertical extent of total recoverable petroleum hydrocarbons (TRPH) in the shallow subsurface of the site; 3) assess the potential presence and concentration of petroleum hydrocarbons and formaldehyde in groundwater at the site; and 4) assess the potential need for mitigation measures consistent with the plan for residential development of the site.

RECON
S40109

3.0 SCOPE OF WORK

In order to meet the objectives, the scope of work included the following:

- Advancement of 11 hand auger borings on the site with collection of soil samples from depths of approximately 1.5 and 3 feet below the ground surface (BGS).
- Advancement of an additional 5 hand auger borings on the Tallyn parcel with collection of soil samples from one depth (approximately 1.5 feet BGS).
- Advancement of one soil boring (SB-12) to a depth of approximately 10 feet BGS with collection of soil samples from approximately 1.5, 3, 5, 7, and 10 feet BGS.
- Construction and development of 1 shallow groundwater monitoring well. Collection of groundwater samples from the monitoring well on 2 occasions. Collection and testing of one soil sample from approximately 12 feet BGS.
- Laboratory analysis of soil and groundwater samples collected.
- Evaluation of the data and preparation of this report.

4.0 SUBSURFACE INVESTIGATION

4.1 Shallow Soil Borings

The soil sampling program was conducted on September 12 and 15, 1994, and involved drilling hand auger borings in order to collect soil samples for chemical analyses. The locations of hand auger borings (Figure 4) were selected to provide chemical concentration data that could be used to assess the presence and extent of potentially hazardous materials in the shallow subsurface.

A deeper soil boring was advanced using a truck-mounted soil coring system. Coring services were provided by OnSite Services, Inc., of Woodside, California. The location of the deeper soil boring was selected to provide information on the vertical extent of TRPH in the area where the highest TRPH concentrations were reported in hand auger boring soil samples. The rationale for selection of hand auger boring and the deeper soil boring locations is presented below. A description of the field procedures used for drilling hand auger borings is presented in Appendix A.

3.0 SCOPE OF WORK

In order to meet the objectives, the scope of work included the following:

- Advancement of 11 hand auger borings over both parcels of the site with collection of soil samples from depths of approximately 1.5 and 3 feet below the ground surface (BGS).
- Advancement of 5 hand auger borings on the Tallyn parcel with collection of soil samples from approximately 1.5 and 3 feet BGS.
- Advancement of one soil boring to a depth of approximately 20 feet BGS with collection of samples from approximately 3, 5, 7, and 15 feet BGS.
- Construction and development of 1 shallow groundwater monitoring well. Collection of groundwater samples from the monitoring well on 2 occasions.
- Laboratory analysis of soil and groundwater samples collected.
- Evaluation of data and preparation of this report.

4.0 SUBSURFACE INVESTIGATION

4.1 Shallow Soil Borings

The soil sampling program was conducted on September 12 and 15, 1994, and involved drilling hand auger borings in order to collect soil samples for chemical analyses. The locations of hand auger borings (Figure 4) were selected to provide chemical concentration data that could be used to assess the presence and extent of potentially hazardous materials in the shallow subsurface.

A deeper soil boring was advanced using a truck-mounted soil coring system. Coring services were provided by OnSite Services, Inc., of Woodside, California. The location of the deeper soil boring was selected to provide information on the vertical extent of TRPH in the area where the highest TRPH concentrations were reported in hand auger boring soil samples. The rationale for selection of hand auger boring and the deeper soil boring locations is presented below. A description of the field procedures used for drilling hand auger borings is presented in Appendix A.

Boring Designation	Location and Rationale
SB1 - SB5 SB11 - SB16	Located on the Tallyn and Hohener parcels to assess the lateral and vertical extent of TRPH in the shallow subsurface.
SB6 - SB10	Located randomly on the Tallyn parcel to assess the presence and concentration of potentially hazardous materials on that parcel.
SB12, SB17	Located in the general area where the highest TRPH concentrations were reported in the soil samples collected from approximately 3 feet BGS.

4.2 Monitoring Well Installation

One hollow-stem auger boring was drilled on September 12, 1994, and converted to a groundwater monitoring well at the location shown in Figure 4. The soil boring/monitoring well was located in the interpreted general downgradient direction from the portable toilet wash out area and the area where elevated concentrations of petroleum hydrocarbons were previously reported to be located. The boring was drilled using a truck-mounted drill rig equipped with an 8-inch hollow-stem auger. Drilling services were provided by West Haz Mat Drilling Corp. of Newark, California. The drilling operation was performed under the supervision of a State-registered geologist from RECON. During the drilling operations, a summary of the materials and conditions encountered was recorded on a log for the boring.

The boring, designated MW-1, was advanced to a depth of approximately 20 feet BGS. Soil was generally sampled on approximately 5-foot depth intervals beginning at approximately 5 feet below the ground surface. Soil samples were collected using a California modified split-barrel sampler for evaluation of the soil lithology, field measurement of VOCs with an organic vapor meter (OVM), and laboratory analysis.

The monitoring well was constructed using 2-inch inner diameter (ID) polyvinyl chloride (PVC) well casing with a 0.010-inch width, machine slotted screen. The screened interval was selected based on the initial occurrence of groundwater. The well was developed on September 15, 1994, using surge and bail techniques. The well development method was designed to remove fine-grained materials from the well casing and to increase hydraulic communication between the formation and filter pack.

A permit to drill the soil boring and to install the monitoring well was obtained from the Zone 7 - Alameda County Flood Control and Water Conservation District by RECON. The well location and elevation was surveyed to second-order accuracy by Peri

Cosseboom Licensed Land Surveyors of San Francisco, California, on October 27, 1994.

Procedures used to drill and log the boring, collect soil samples, and install and develop the monitoring well are summarized in Appendix A. The boring log, monitoring well construction log, and well development/groundwater sampling log are also presented in Appendix A. The survey report is presented in Appendix A.

4.3 Groundwater Sample Collection

Following development of the monitoring well, groundwater samples were collected. A second set of groundwater samples were collected on October 27, 1994, following purging of at least three casing volumes of water from the well. Samples were collected using a disposable polyethylene bottom valve bailer. Groundwater samples were placed into laboratory-supplied containers and were retained on ice in an insulated chest prior to and during delivery to the laboratory. Chain of custody procedures, including the use of chain of custody forms, were used to document sample handling and transport from collection at the site to delivery to the laboratory. Groundwater sampling procedures and groundwater sample collection logs are presented in Appendix A.

4.4 Conditions Encountered

Lithologies encountered while drilling boring MW-1 included clayey sand and sand. Clayey sand was encountered from the ground surface to an approximate depth of eight feet BGS. from approximately 8 feet to 12.5 feet BGS, a clay to sandy clay was encountered. From approximately 12.5 feet to the terminal depth of the boring at approximately 20 feet BGS a clayey sand was again encountered.

[redacted]

Prior to well development and purging, groundwater was measured at approximately 10.5 feet below the ground surface. Water levels and corresponding elevations are presented below.

Date	Depth to Water Below Top of Casing (ft)	Groundwater Elevation Above Mean Sea Level (ft)
September 15, 1994	10.02	- 0.70
October 27, 1994	10.13	- 0.81

5.0 LABORATORY ANALYSES

Soil and groundwater samples collected and retained for chemical analysis were submitted to Aqua Air (A2) Analytical Corp. of Weymouth, Massachusetts; Inchcape Testing Services, Anametrix Laboratories of San Jose, California; Sequoia Analytical of Redwood City, California; and Superior Precision Analytical, Inc., of San Francisco, California. Each of the laboratories are a State-certified hazardous waste laboratory. Chain of custody procedures, including the use of chain of custody forms, were used to document sample handling and transport to the laboratory. Chain of custody forms and laboratory reports are presented in Appendix B.

5.1 Soil Samples

Sel[redacted]ance with [redacted]; aromatic volatile organic compounds in general accordance with EPA Method No. 802[redacted] and formaldehyde in general accordance with a modified Air Pollution Control Association colorimetric method and ASTM D2216 modified. This analytical program was designed to detect the presence of potentially hazardous materials on the Tallyn parcel, the presence of formaldehyde on the site, and the vertical and lateral extent of TRPH at the site. The analyses conducted on specific soil samples and the reported results are presented in Table 1.

5.2 Groundwater Samples

Groundwater samples were analyzed for TRPH in general accordance with EPA Method No. 418.1; VOCs in general accordance with EPA Method No. 8010; formaldehyde in general accordance with Air Pollution Control Association Colorimetric Method and EPA Method No. 8315; and total petroleum hydrocarbons as gasoline, diesel, kerosene, and mineral spirits in general accordance with EPA Method No. 8015 modified. This analytical program was designed to detect the presence of hazardous materials potentially present in groundwater at the site. The analytical reported results are presented in Table 2.

6.0 DISCUSSION

6.1 Soil

Five soil samples were collected from the Tallyn parcel to assess the presence and concentration of potentially hazardous materials. Soil samples were collected from approximately 1.5 feet below the ground surface from borings SB-4, SB-5, SB-6, SB-7, SB-8, SB-9, and SB-10 (Figure 4 and Table 1). These soil samples were analyzed for

TRPH, lead, VOCs, aromatic volatile organic compounds, and formaldehyde. The reported presence of TRPH is discussed in following paragraphs. VOCs and aromatic volatile organic compounds were not reported in concentrations exceeding the analytical method detection limits in the soil samples analyzed. Therefore, it is the judgment of RECON that there is a low likelihood that VOCs and aromatic hydrocarbons are present in the soil at the Tallyn parcel. The reported lead concentrations are judged to be low and represent natural background concentrations of lead within the soil. Formaldehyde was reported in the soil sample collected from boring SB-4 at a concentration of [redacted] mg/kg. This soil boring is located adjacent to the tank pad formerly used for an aboveground tank that stored wastes emptied from the portable toilets.

at what depth

The reported formaldehyde concentration approaches the preliminary remediation goal (PRG) for formaldehyde. The EPA's PRGs, which are health-based concentrations, can be used for risk screening purposes to evaluate the need for mitigative actions or further investigation. [redacted] is [redacted] mg/kg. The detection limit for formaldehyde in the soil sample collected from the former wash out area in the [redacted] boring [redacted] is above the PRG concentration. These soil samples are currently being analyzed with lower detection limits.

Ten soil samples were collected from the Tallyn and Hohener parcels to assess the lateral and vertical extent of TRPH in soil. Soil samples were collected from the 1.5-foot and 3-foot depths BGS. Near surface soil samples collected from [redacted] 1.5 feet BGS were analyzed for TRPH and six of the [redacted] contained 1,000 mg/kg or more TRPH (Table 1 and Figure 5). The interpreted area of soil containing TRPH concentrations at 1.5 feet BGS in excess of 1,000 mg/kg is presented in Figure 6. The interpreted area overlaps the Tallyn and Hohener parcels in the southern portion of the Site.

Soil samples collected from approximately 3 feet BGS were collected from borings SB-4, SB-5, SB-11, SB-12, SB-13, SB-14, and SB-17, and from approximately 5-feet, 7-feet and 10-feet BGS in a boring adjacent to SB-12. These soil samples were analyzed for TRPH to assess the vertical extent of TRPH. TRPH above 1,000 mg/kg in concentration extended vertically to 3 feet BGS at SB-5, SB-12, SB-13, and SB-14, but not at SB-4, SB-11, or SB-17. TRPH has not been reported in concentrations exceeding the analytical method detection limit in soil samples collected from approximately 5, 7, and 10 feet BGS from the boring adjacent to SB-12. Therefore, it is the judgment of RECON that there is a low likelihood of TRPH extending deeper than 3 to 5 feet BGS within the soil. The extent of TRPH concentrations exceeding 1,000 mg/kg at approximately 3 feet BGS is judged to generally be within the area shown in Figure 6 as exceeding 1,000 mg/kg at approximately 1.5 feet BGS.

why was SB-12 the chosen one?

6.2 Groundwater

Based on reported flow direction measured in nearby off-site monitoring wells, the groundwater flow direction, is interpreted to slope to the west-southwest. Groundwater samples collected from the on-site monitoring well were not reported to contain the constituents analyzed for in concentrations exceeding the respective analytical method detection limits. Based on the reported results and the interpreted groundwater gradient, it is the judgment of RECON that there is a low likelihood that petroleum hydrocarbons, VOCs, and formaldehyde are present in the groundwater at the site.

7.0 CONCLUSIONS

Based on the information presented in this report, the following conclusions have been made:

- There is a low likelihood that VOCs and aromatic hydrocarbons are present in the shallow subsurface of the Tallyn parcel. The reported lead concentrations are judged to be representative of natural background lead concentrations for lead in soil at the site. The reported formaldehyde concentration in the soil sample collected from the area of the tank pad is below the EPA PRG.

- TRPH in near-surface soil extends laterally over the southern portion of the site, overlapping the Tallyn and Hohener parcels (Figure 6). There is a low likelihood of TRPH extending deeper than 3 to 5 feet BGS.

- There is a low likelihood that petroleum hydrocarbons, VOCs, and formaldehyde are present in the groundwater at the site.

8.0 RECOMMENDATIONS

Based on the information presented in this report, current regulatory guidelines, and the professional judgment of RECON, the following recommendations are presented:

- No Action. No Action is probably not feasible owing to the proposed development of the site for residential purposes.

- RECON recommends that feasibility of removal and relocation of affected soil beneath proposed paved roadways on the site be considered.

9.0 LIMITATIONS

Our professional services were performed, data evaluated, and recommendations prepared in accordance with generally-accepted geological/engineering principles and practices. The judgments, conclusions, and recommendations described in this report pertain to the conditions judged to be present or applicable at the time the work was performed. Future conditions may differ from those described herein and this report is not intended for use in future evaluations unless an update is conducted by a consultant familiar with subsurface investigations. Use of this report is provided to Warmington Homes for their exclusive use and shall be subject to the terms and conditions in the applicable contract between Warmington Homes and RECON. Any third party use of this report shall also be subject to the terms and conditions governing the work in the contract between Warmington Homes and RECON. Any unauthorized release or misuse of this report shall be without risk or liability to RECON.

Certain information contained in this report may have been rightfully provided to RECON by third parties or outside sources. RECON does not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible in the event that any such inaccuracies are present.

TABLE 1
SOIL ANALYTICAL RESULTS

Sample No.	Date Collected	Sample Depth (1)	TRPH (2)	Lead (3)	VOCs (4)	BTXE (5)	Formal-dehyde
SB1-1.5	9/12/94	1.5	687	NA (6)	NA	NA	NA
SB2-1.5	9/12/94	1.5	1,410	NA	NA	NA	NA
SB3-1.5	9/12/94	1.5	51	NA	NA	NA	NA
SB4-1.5	9/12/94	1.5	94	NA	NA	NA	2 (7)
SB4-3.0	9/12/94	3	190	NA	NA	NA	NA
SB5-1.5	9/12/94	1.5	1,300	NA	NA	NA	<1
SB5-3.0	9/12/94	3	1,500	NA	NA	NA	NA
SB-6-1.5	9/12/94	1.5	<5	33	ND (8)	ND	0.66 (9)
SB-7-1.5	9/12/94	1.5	30	23	ND	ND	0.96
SB-8-1.5	9/12/94	1.5	718	88	ND	ND	1.03
SB-9-1.5	9/12/94	1.5	233	21	ND	ND	0.22
SB-10-1.5	9/12/94	1.5	2,336	28	ND	ND	0.29
SB-11-1.5	9/12/94	1.5	239	NA	NA	NA	0.27
SB-11-3.0	9/12/94	3	<5	NA	NA	NA	NA
SB-12-1.5	9/12/94	1.5	1,648	NA	NA	NA	0.61
SB-12-3.0	9/12/94	3	2,679	NA	NA	NA	NA
SB12-5 (10)	11/2/94	5	<10	NA	NA	NA	NA
SB12-7 (10)	11/2/94	7	<10	NA	NA	NA	NA
SB12-10 (10)	11/2/94	10	<10	NA	NA	NA	NA
SB-13-1.5	9/12/94	1.5	464	NA	NA	NA	0.56
SB-13-3.0	9/12/94	3	3,182	NA	NA	NA	NA
SB-14-1.5	9/12/94	1.5	1,019	NA	NA	NA	0.40
SB-14-1.5 (11)	9/12/94	1.5	870	NA	NA	NA	NA
SB-14-3.0	9/12/94	3	1,019	NA	NA	NA	NA
SB-15-1.5	9/12/94	1.5	9,224	NA	NA	NA	0.62
SB17-3	11/2/94	3	160	NA	NA	NA	NA
MW1-12	9/12/94	12	<5.0	NA	NA	NA	NA

Notes:

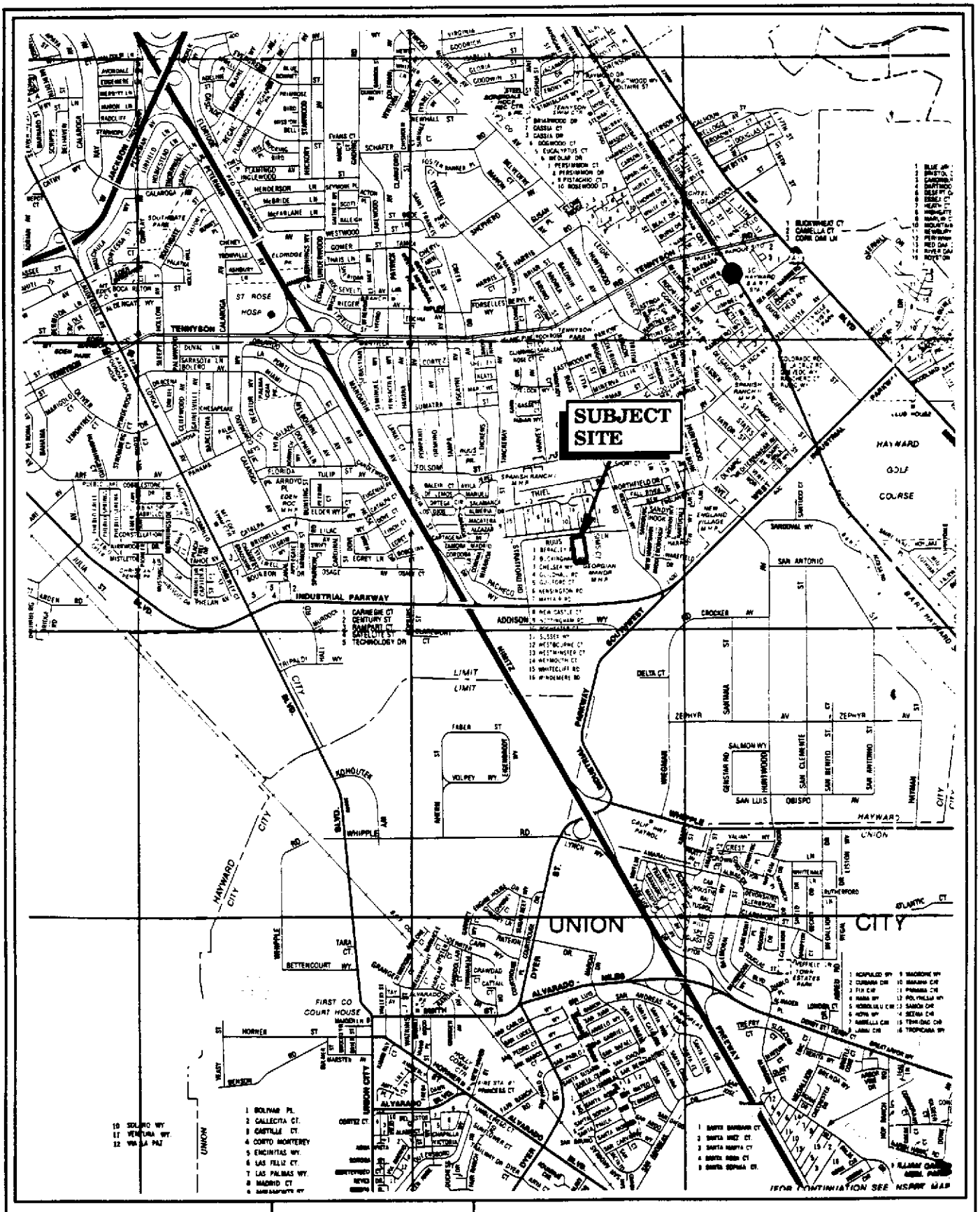
1. Sample depth reported in approximate feet below the ground surface.
2. Analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 418.1. Concentrations reported in milligrams per kilogram (mg/kg). TRPH = total recoverable petroleum hydrocarbons. "<" indicates TRPH not reported in concentrations exceeding the indicated amount.
3. Analyses conducted in general accordance with EPA Method No. 7420. Concentrations reported in mg/kg.
4. Analyses conducted in general accordance with EPA Method No. 8010. Concentrations reported in micrograms per kilogram (ug/kg). VOCs = halogenated volatile organic compounds.
5. Analyses conducted in general accordance with EPA Method No. 8020. Concentrations reported in ug/kg. BTXE = benzene, toluene, xylene, and ethylbenzene, and other aromatic volatile organic compounds.
6. NA = not analyzed for the indicated constituents.
7. Analyses conducted in general accordance with ASTM D2216 mod. Concentrations reported in mg/kg.
8. ND = none detected in concentrations the analytical method detection limit. See Appendix B for specific detection limits.
9. Analyses in general accordance with a modified Air Pollution Control Association colorimetric method. Concentrations reported in mg/kg.
10. Separate boring located adjacent to boring SB-12.
11. Duplicate sample submitted to a second laboratory.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS (1)

Sample No.	Date Collected	TRPH (2)	VOCs (3)	Formal-dehyde	TPHe (4)
GW 1	9/15/94		ND (5)		
GW 3	9/15/94			<0.1 (6)	
GW 4	9/15/94	<1			
GW 5 (7)	9/15/94		ND		
MW1-A	10/27/94			<0.10 (8)	
MW1-B	10/27/94				<50

Notes:

1. All water samples collected from monitoring well MW-1.
2. Analyses conducted in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 418.1. Concentrations reported in in milligrams per liter (mg/l). TRPH = total recoverable petroleum hydrocarbons. "<" indicates constituents not reported in concentrations exceeding the indicated amount.
3. Analyses conducted in general accordance with EPA Method No. 8010. Concentrations reported in micrograms per kilogram (ug/kg). VOCs = halogenated volatile organic compounds.
4. Analyses conducted in general accordance with EPA Method No. 8015 modified. Concentrations reported in micrograms per liter (ug/l). "<" indicates constituents not reported in concentrations exceeding the indicated amount. TPHe = total extractable petroleum hydrocarbons as diesel, kerosene, and mineral spirits.
5. ND = none detected in concentrations the analytical method detection limit. See Appendix B for specific detection limits.
6. Analyses conducted in general accordance with a modified Air Pollution Control Association colorimetric method. Concentrations reported in percent.
7. Duplicate sample.
8. Analyses conducted in general accordance with EPA Method No. 8315. Concentrations reported in mg/l.



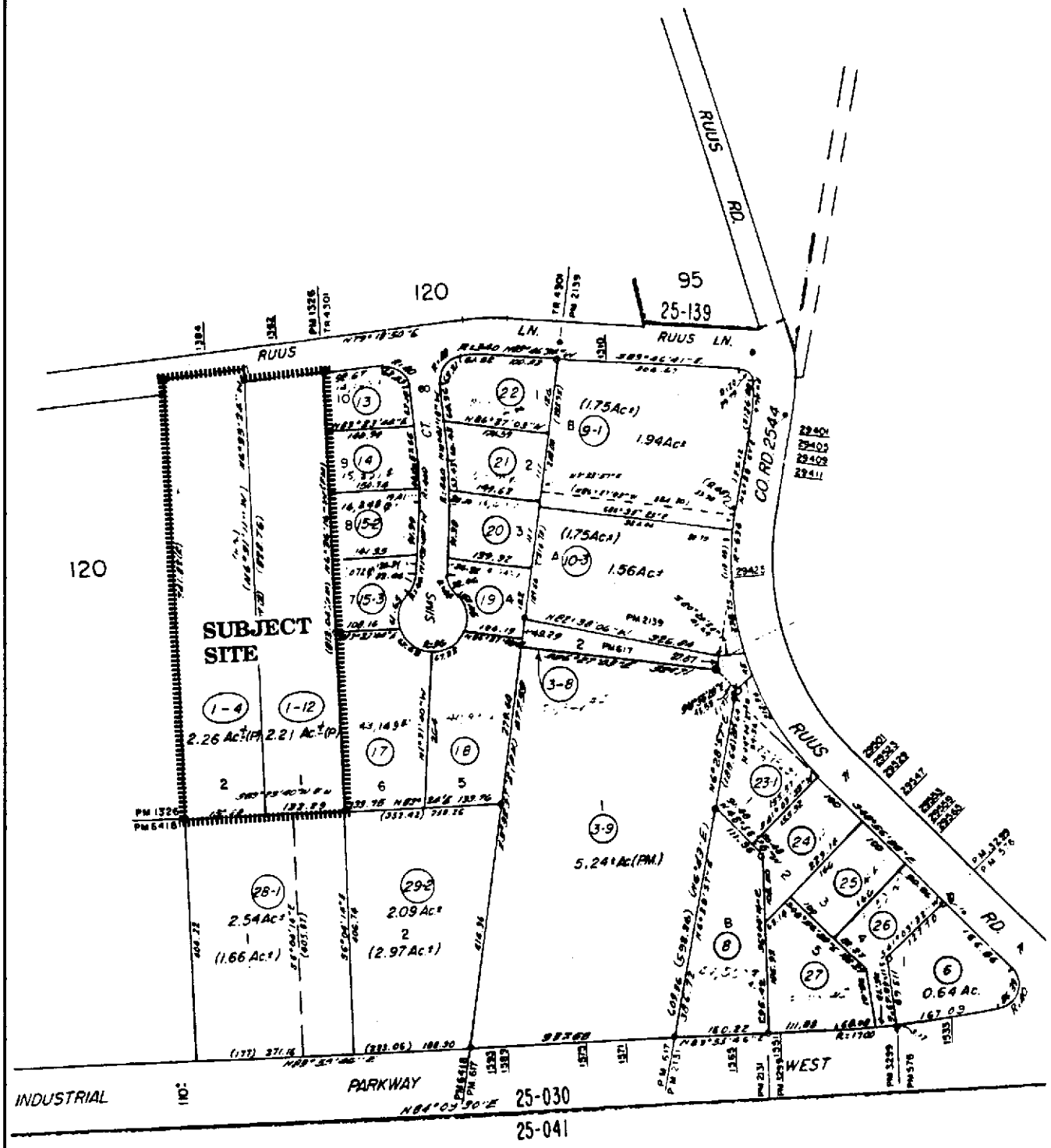
RECON
Environmental Corp

7000 Marina Blvd. 4th Fl.
Brisbane, CA 94005

N

Scale: 1" = 2400'

FIGURE 1.
LOCAL SITE MAP



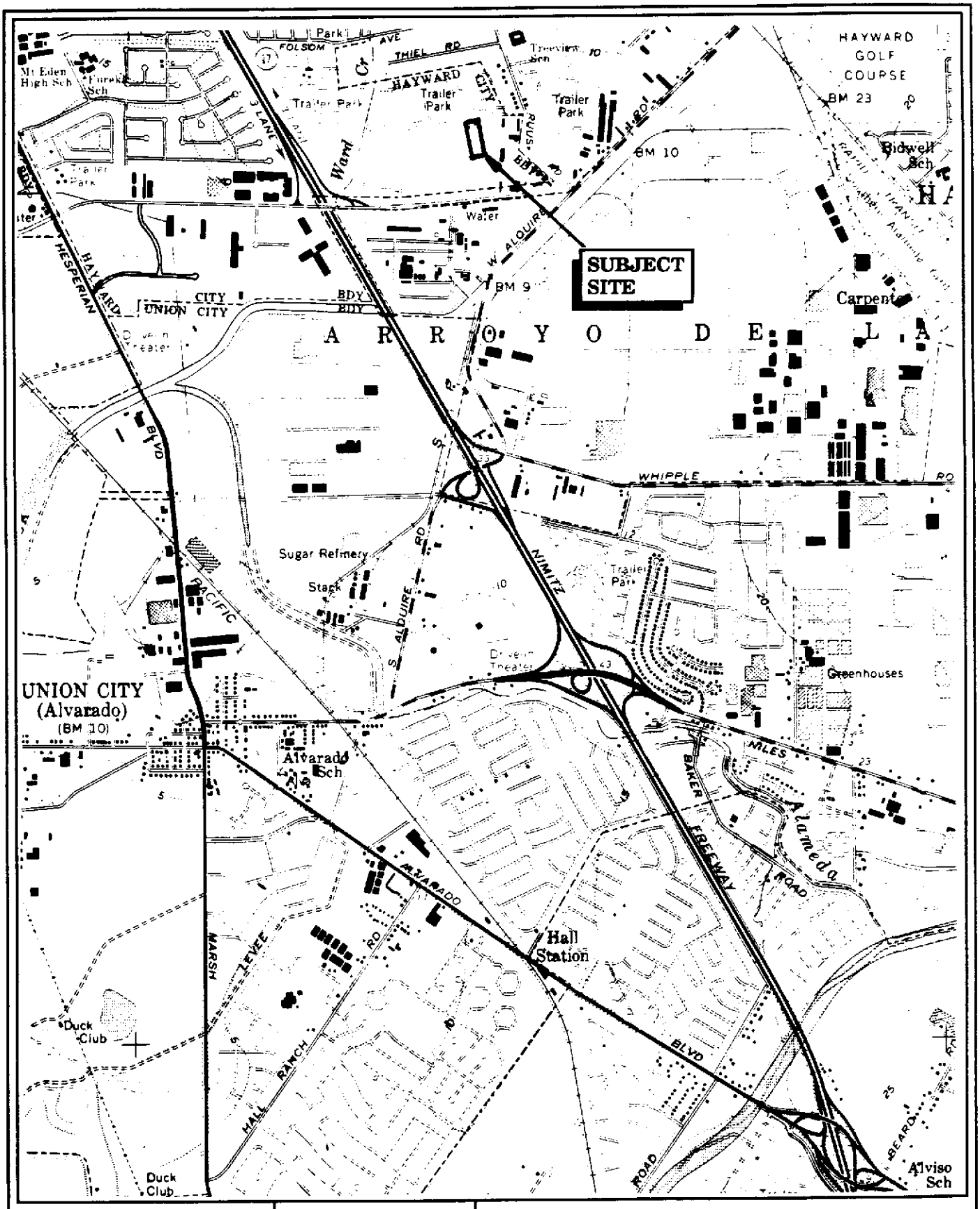
RECON
Environmental Corp

7000 Marina Blvd. 4th Fl.
Brisbane, CA 94005

N

No Scale

FIGURE 2.
ASSESSOR'S PARCEL MAP

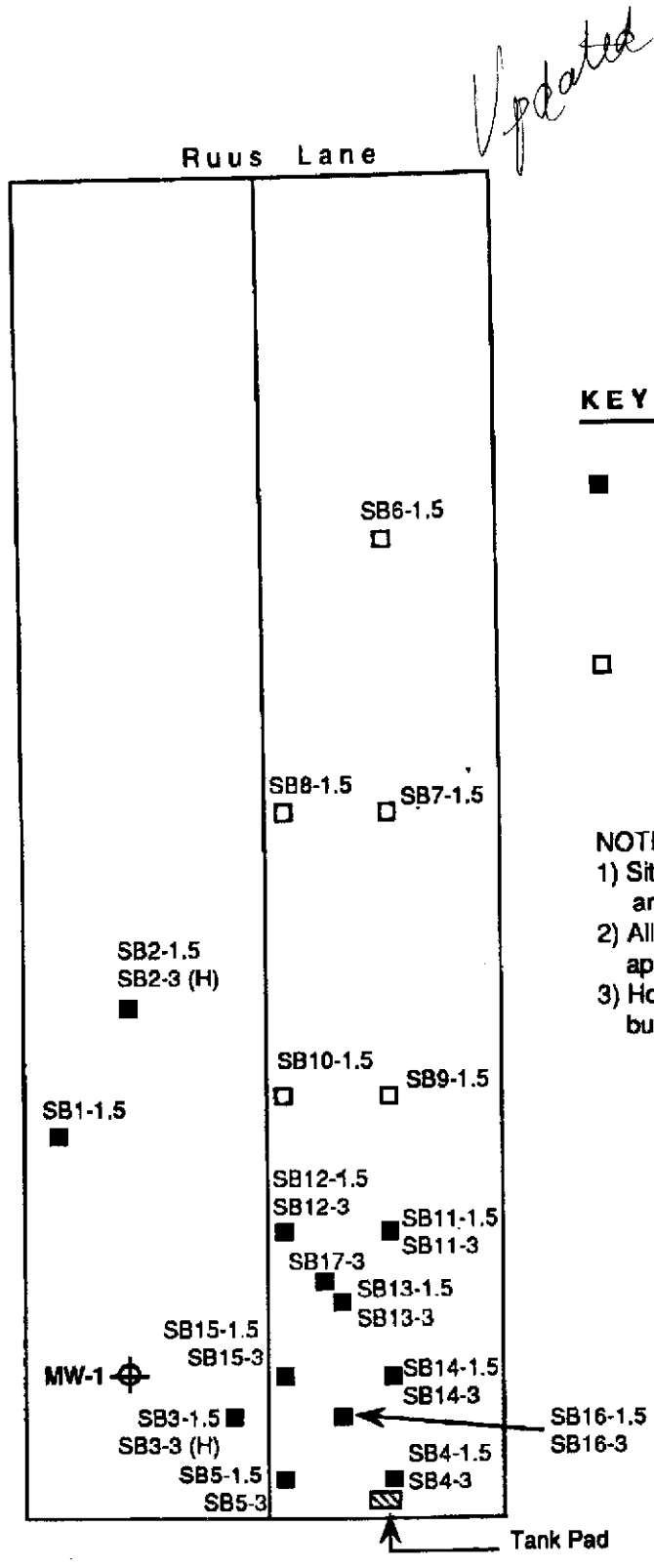


RECON
Environmental Corp

7000 Marina Blvd. 4th Fl.
Brisbane, CA 94005

Scale: 1" = 2000'

FIGURE 3.
TOPOGRAPHIC MAP



KEY

■ Eleven (11) soil samples proposed to test the vertical and or lateral extent of Total Recoverable Petroleum Hydrocarbon (TRPH)

□ Five (5) random samples to characterize soil chemistry of Tallyn parcel.

NOTES:
1) Site structures and storage areas are not shown.
2) All locations and dimensions are approximate.
3) Hold (H). Sample was collected but not analyzed.

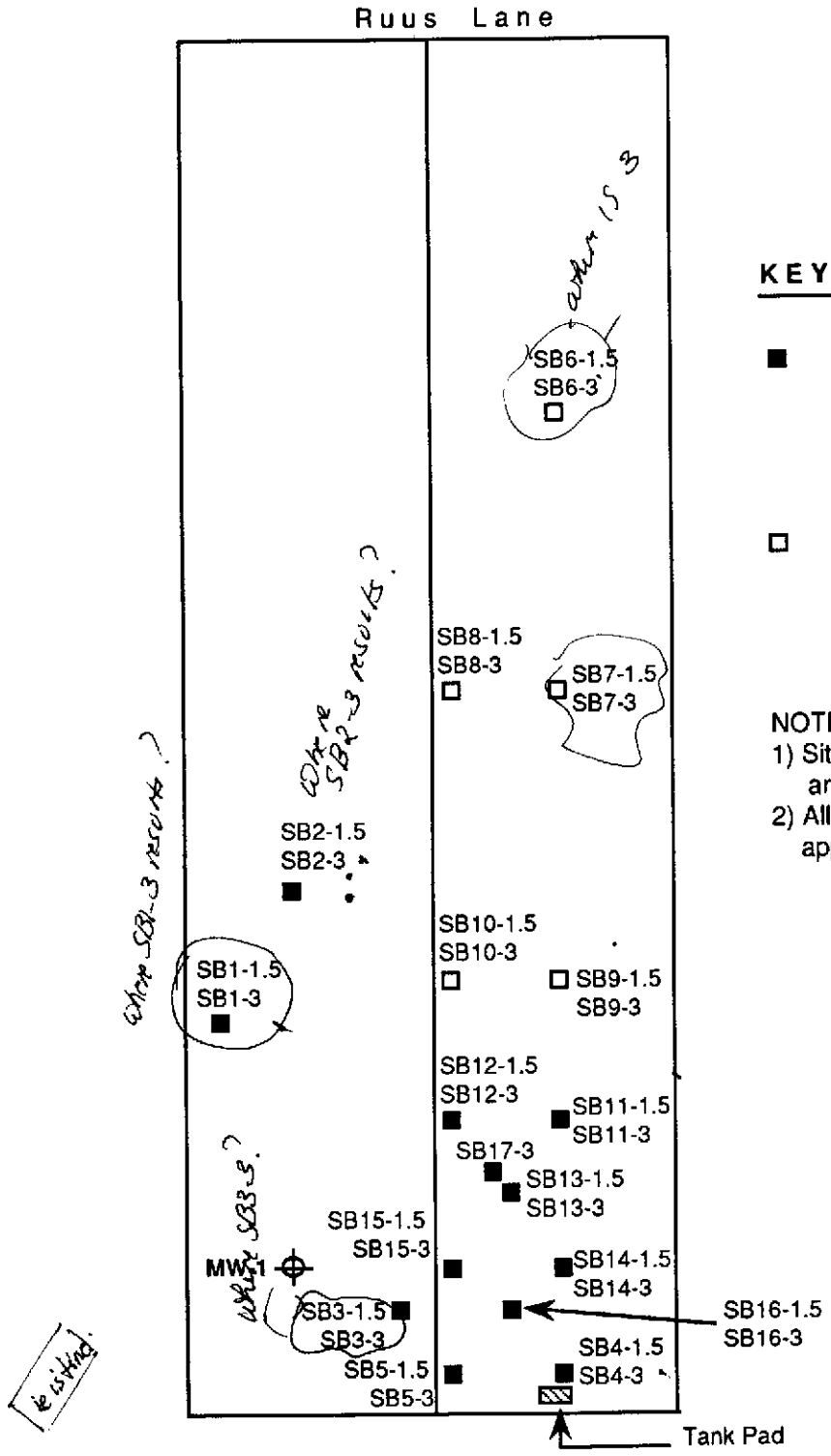
RECON
Environmental Corp.

7000 Marina Blvd., 4th floor
Brisbane, CA 94005

N

Scale: 1" = 100'

FIGURE 4.
SAMPLING LOCATION MAP
1362 AND 1384 RUUS LANE
HAYWARD



KEY

■ Eleven (11) soil samples proposed to test the vertical and or lateral extent of Total Recoverable Petroleum Hydrocarbon (TRPH)

□ Five (5) random samples to characterize soil chemistry of Tallyn parcel.

NOTES:
1) Site structures and storage areas are not shown.
2) All locations and dimensions are approximate.

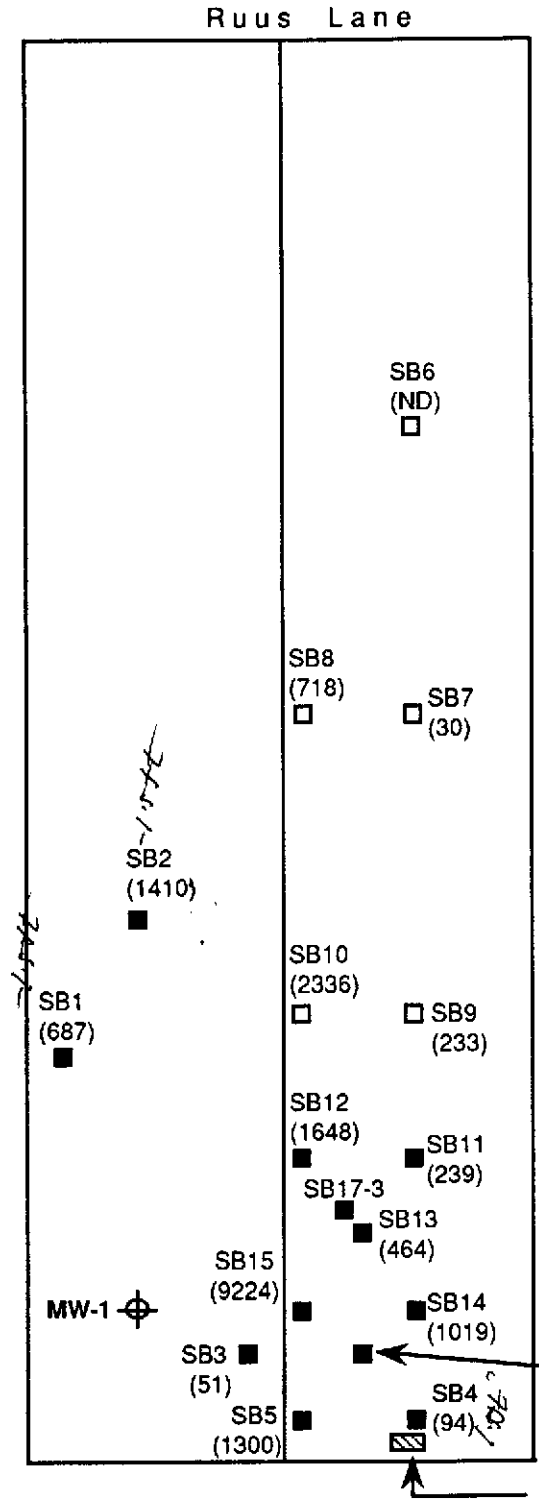
RECON
Environmental Corp.

7000 Marina Blvd., 4th floor
Brisbane, CA 94005

N

Scale: 1" = 100'

FIGURE 4.
SAMPLING LOCATION MAP
1362 AND 1384 RUUS LANE
HAYWARD



KEY

- ■ Eleven (11) soil samples proposed to test the vertical and or lateral extent of petroleum oil
- □ Five (5) random samples to characterize soil chemistry of Tallyn parcel
- ( ) Total Recoverable Petroleum Hydrocarbon (TRPH) Concentration in mg/kg
- ND Below Method Detection Level
- NA Not Analyzed

NOTES:
1) Site structures and storage areas are not shown.
2) All locations and dimensions are approximate.

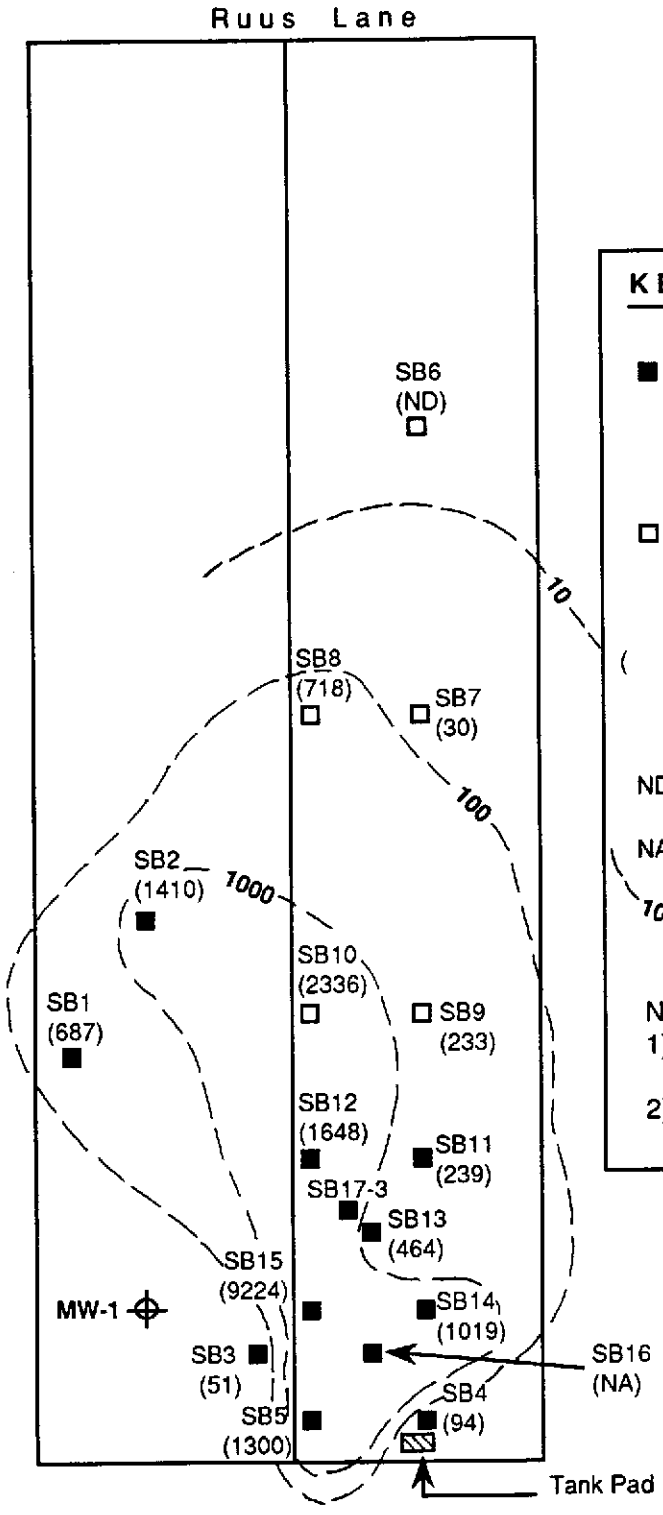
RECON
Environmental Corp.

7000 Marina Blvd., 4th floor
Brisbane, CA 94005

N

Scale: 1" = 100'

FIGURE 5.
TOTAL PETROLEUM HYDROCARBONS (EPA 418.1) IN SHALLOW SOIL AT 1362 AND 1384 RUUS LANE HAYWARD



KEY

- ■ Eleven (11) soil samples proposed to test the vertical and or lateral extent of petroleum oil
- □ Five (5) random samples to characterize soil chemistry of Tallyn parcel.
- ( ) Total Recoverable Petroleum Hydrocarbon (TRPH) Concentration in mg/kg.
- ND Below Method Detection Level
- NA Not Analyzed
- 100 Approximate TRPH Iso-Concentration

NOTES:
1) Site structures and storage areas are not shown.
2) All locations and dimensions are approximate.

RECON
Environmental Corp.
7000 Marina Blvd., 4th floor
Brisbane, CA 94005

N

Scale: 1" = 100'

FIGURE 6.
ISO-CONCENTRATION FOR 1.5 FOOT DEPTH
1362 AND 1384 RUUS LANE
HAYWARD

APPENDIX A

DRILLING PROCEDURES AND LOGS

DRILLING PROCEDURES

The procedures that were used for drilling the soil boring and collecting soil samples are presented below.

- Permits for drilling of the soil boring were obtained from the Alameda County Zone 7 Water District prior to drilling the soil boring for construction of monitoring well MW-1.

- Soil borings except MW-1, SB-17, and the boring adjacent to SB-12 were advanced to a depth of approximately 3 feet below the ground surface using a hand auger and slide hammer whose spoon was loaded with a 6-inch long x 2-inch diameter brass sleeve. MW-1 was drilled with a C-57 rig and hollow stem auger. SB-17 and the boring adjacent to SB-12 were driven with a hydraulic-driven probe sampler.

- The augers were washed with a hot water pressure washer prior to drilling.

- Soil descriptions, sample type and depth, and related sampling information were recorded on a boring log.

- Soil samples were generally collected at selected depth intervals (1.5- and 3-feet), at significant changes in lithology, or wherever lithologic information was desired, using barrel samplers. In the boring for MW-1, a California-modified split-barrel sampler was used. In boring SB-17 and the boring adjacent to SB-12 a hydraulic-driven sampler loaded with four 6-inch long x 1-inch diameter brass sleeves was used.

- The samplers were washed between sample intervals using a bristle brush with Alconox solution followed by two tap water rinses and a deionized water rinse. The samplers were dried by air or with paper towels prior to sampling.

- Soil samples were collected in brass sample tubes inserted inside the samplers. Prior to use, the sample tubes were washed and dried by air or with paper towels.

- Samplers were driven by hand-driven slide-hammer, C57 rig drop-hammer (MW-1), or hydraulic driven probe.

- Following retrieval of the sampler, the second sample tube (or first deepest sample tube if the second sample tube was not filled with soil) was removed from the sampler, the ends covered with aluminum foil and capped with PVC end caps. Each sample was labeled with the sample number, date, time, project number, and sampler's initials.

- Soil in the deepest sample tube (where available) was used to describe the lithology and measure volatile organic compound (VOC) concentrations.

- Samples retained for laboratory analysis were placed in ziplock bags and stored on ice in an insulated chest cooled to a temperature of approximately 4 degrees Celsius.

- Chain of custody procedures, including the use of chain of custody forms, were used to document sample handling and transport from collection to delivery to the laboratory for analysis.

- Soil from the drilling for MW-1 was placed on Visqueen plastic and covered with plastic and stored at the site.

- Boring SB-17 and the boring adjacent to SB-12 were filled with bentonite granules.

RECON
Environmental Corp.

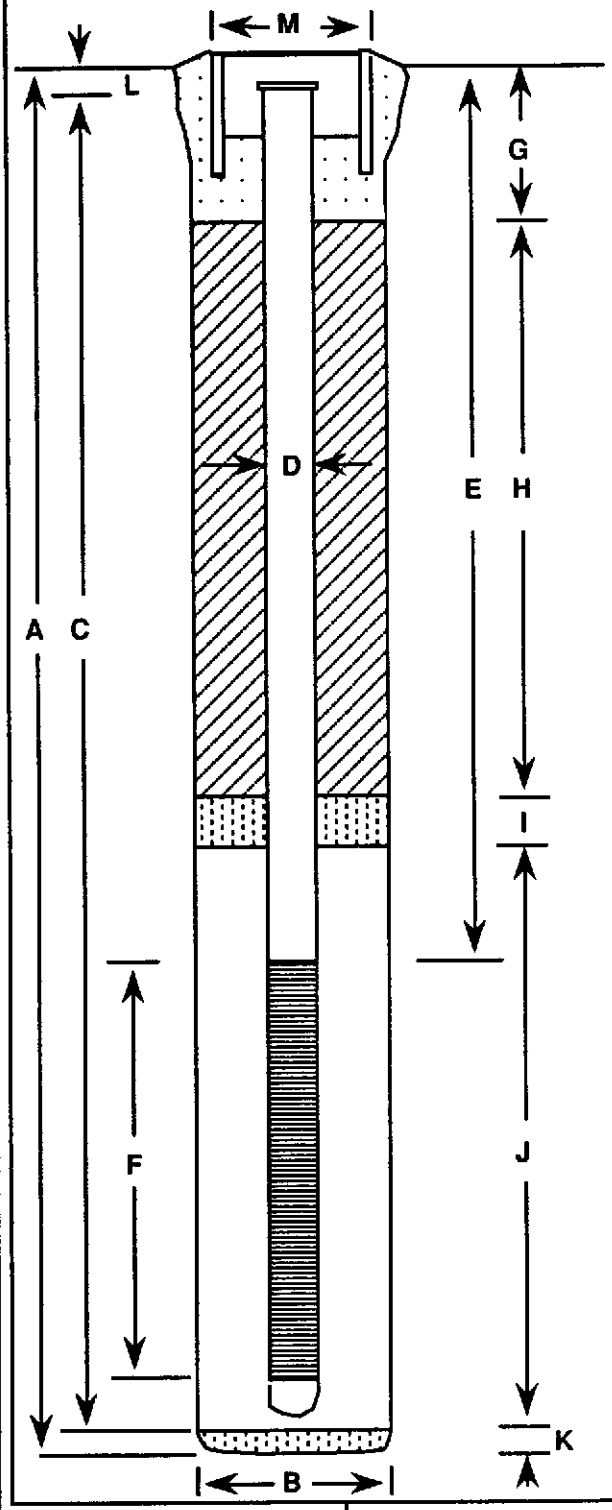
Legend
GW GP GM GC ML CL OL
SW SP SM SC MH CH OH Pt

Job No.: S40109	Location: 1384 Russ Lane		
Drilling Method: Hollow Stem Auger CME-75			Boring # MW-1
Drilling Company: West Haz Mat Drilling Corp			Sheet # 1
Drilling Crew: Gene/Lawrence			Drilling Time:
Geologist: Fred Hayden			8:50 - 9:20
Sampling Method: Calif Mod Sampler			
Casing/Sand/Seal Depth:	SCH40	2/12	6.5'
Depth to Water/Time:	13'		Date 9/12/94
Elevation: 4 feet AMSL			
Surface Conditions: Open field			

Recovery	Well Const.	Sample Depth	Blows/ 6 in.	PID	Sample	Depth in Feet	USCS Code	Soil Description:
						1	SC	Light brown (5 YR 5/6), dry, Clayey fine SAND.
				0	MW1-2	2		
						3		
						4		
			15/17/ 20	0	MW1-5	5		Brownish gray (5 YR 4/1), dense, and slightly moist at 5 feet.
						6		
						7		Increase in clay at 7 feet.
						8	CL	Light olive gray (5 YR 5/2), moist Sandy CLAY.
						9		
			10/8/8			10		
			5/7/7	0		11		Brownish black (5 YR 2/2) with brown mottling at 11 feet.
					MW1-12	12		
						13	SC	▼ @ 9:40 am
						14		Light olive gray (5 YR 5/2), moist, Clayey fine SAND. Groundwater encountered at 13 feet.
			6/6/7	0		15		
					MW1-16	16		Dark yellowish brown (10 YR 4/2) and medium dense at 16 feet.
						17		
						18		
						19		No odor encountered during drilling.
			8/10/12	0	MW1-20	20	SW	Moderate olive brown (5 YR 4/4), moist, medium dense, SAND with Clay.
								BOTTOM OF BORING AT 20 FEET

Project Number: S40109
Project Name: Tallyn Pair
County: Alameda
Well Permit No.: #94504 ACFC & WCD

Boring/Well No.: MW-1
Top of Casing Elev.: 9.32
Ground Surface Elev.: 9.76
Datum: Mean Sea Level



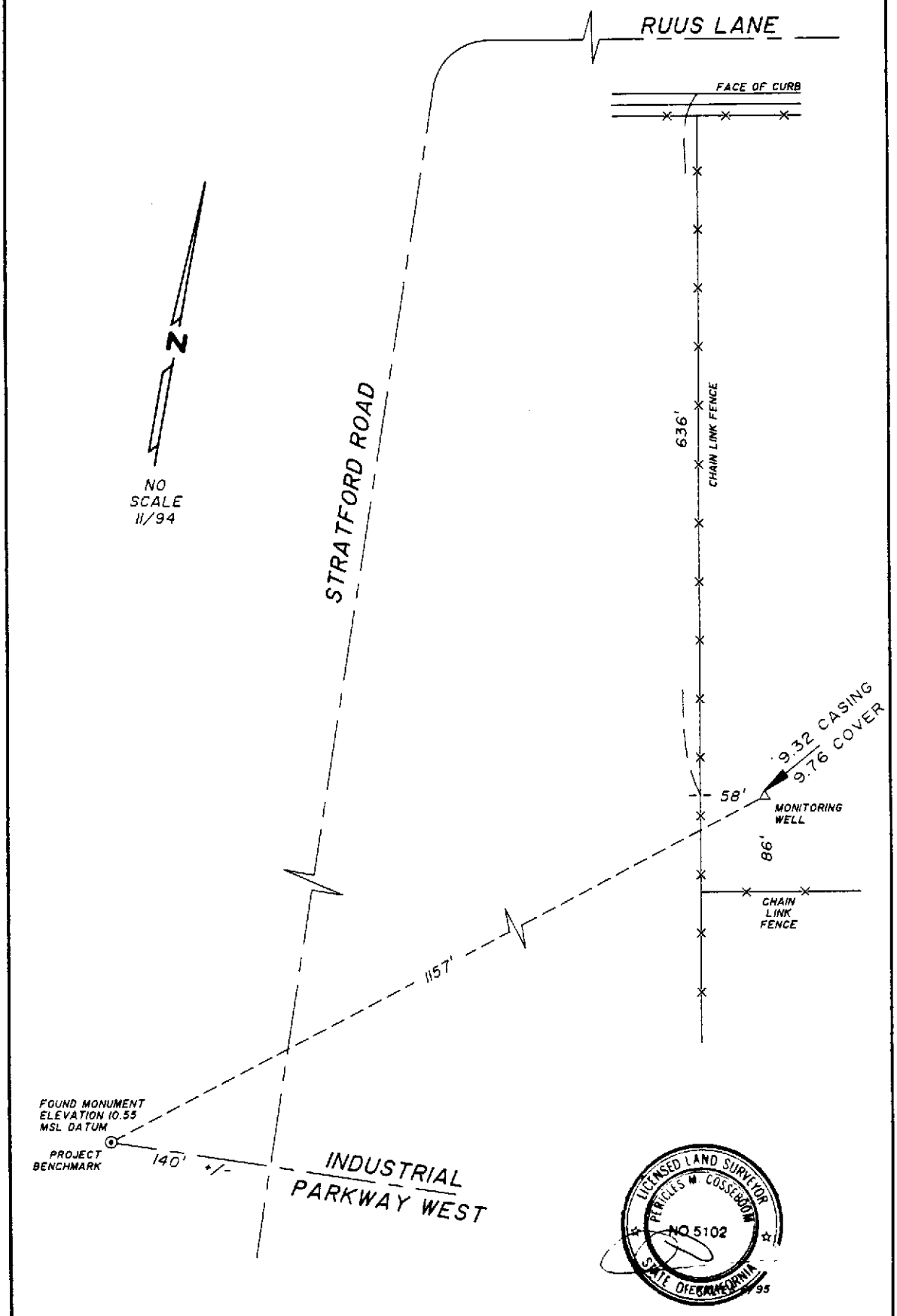
EXPLORATION BORING

A.	*Total Depth*	20.0 ft.
B.	*Boring Diameter*	8 in.
	Drilling Method	Hollow-Stem Auger

WELL CONSTRUCTION

C.	*Casing Length*	19.5 ft.
	Material	Schedule 40 PVC
D.	*Diameter*	2 in.
E.	*Depth to Top of Perforations*	10.0 ft.
F.	*Perforated Length*	10.0 ft.
	Perforated Interval from 10.0 *to*	20.0 ft.
	Perforation Type	Machine Slot
	Perforation Size	0.010 in.
G.	*Surface Cap*	0.5 ft.
	Cap Material	Concrete
H.	*Backfill*	6.5 ft.
	Backfill Material	Bentonite-Cement Grout
I.	*Plug*	1.0 ft.
	Plug Material	Bentonite Pellets
J.	*Filter Pack*	12.0 ft.
	Material	#2/12 Lonestar Sand
K.	*Bottom Plug*	N/A ft.
	Material	N/A
L.	*Top of Casing Depth*	-0.5 ft.
M.	*Protective Cover Diameter*	12 in.

RECON
Environmental Corp.
7000 Marina Boulevard
Fourth Floor
Brisbane, CA 94005



PERI COSSEBOOM
LICENSED LAND SURVEYORS
25 DIVISION ST.
SAN FRANCISCO, CA. 94103

WELL LOCATION & ELEVATION
FOR RECON ENVIRONMENTAL
HAYWARD CALIFORNIA

Job No. 1817

GROUNDWATER COLLECTION LOG

WELL NO. MW-1

Project Name: 1362 AND 1384 ROUS TALLYN AND HOHENER

Project Number: S40109

Date: 9/15/94

Sample Number: GW1 through GW5

Depth to Well Bottom: 19 feet

Depth to Water: 10.02 feet below TOC

Purge Method: Bailer

Sample Method: Bailer

Time	Cumulative Volume of Water Purged	pH	Electrical Conductivity	Temperature	Comments
0835	5 gal	4.3	5600	62	
1000	10	4.3	5800	67	
1050	25	4.3	5900	67	

Sample Turbidity: turbid

Total Number of Samples Collected

40 ml VOA Vials	3
200 ml Plastic Bottles	
1 Liter Amber Bottles	1
1 Gal. Amber Bottles	
Other 1-L clear	3

Laboratory: AQUA AIR ANALYTICAL

Date Shipped: 9/15/94

Shipped Via: FEDERAL EXPRESS

Sampled By: FRED HAYDEN

Estimated Volume to Purge = 3.14 x (5 casing vol.) x (7.5 gal. per cubic ft) x (height of water in ft) x (radius of well in ft squared)

= 3.14 x 5 x 7.5 x [ ] x ([ ] squared) =

RECON ENVIRONMENTAL CORP.

GROUNDWATER COLLECTION LOG

WELL NO. MW-1

Project Name: 1362 and 1384 Russ ~~TALLYN AND HOHENER~~

Project Number: S40109

Date: 10/27/94

Sample Number: MW1-A, MW1-B, TB-F, TB-FF

Depth to Well Bottom: 19 feet

Depth to Water: 10.13 feet below TOC

Purge Method: Bailer

Sample Method: Bailer

Time	Cumulative Volume of Water Purged	pH	Electrical Conductivity	Temperature °F	Comments
1120	5 gal	7.04	5100	67	
1214	10	7.03	5800	65	
1220	16	7.03	5600	65	

Sample Turbidity: turbid

Total Number of Samples Collected

40 ml VOA Vials: ____

200 ml Plastic Bottles: ____

1 Liter Amber Bottles: 2

1 Gal. Amber Bottles: ____

Other: 2 travel blanks

Laboratory: Sequoia Analytical

Date Shipped: 10/27/94

Shipped Via: HAND DELIVERED

Sampled By: FRED HAYDEN

Estimated Volume to Purge = 3.14 x (5 casing vol.) x (7.5 gal. per cubic ft) x (height of water in ft) x (radius of well in ft squared)

= 3.14 x 5 x 7.5 x [ ] x ([ ] squared) =

RECON ENVIRONMENTAL CORP.

APPENDIX B

CHAIN OF CUSTODY FORMS AND LABORATORY ANALYTICAL REPORTS

Aqua Air (A2) Analytical Corp.
25 Mathewson Drive
Weymouth, Massachusetts 02189
Telephone (617)337-9334
Fax (617) 337-8237
MA-MA069, CT-PH0119, RI-A45, MD-MD194, NJ-59744, CA-1425

Laboratory Report

----- Prepared for -----

CERTIFIED - SAN FRANCISCO
70000 Marina Blvd.

Brisbane CA 94005-0000
Fred Hayden

Permit No.
Cust. P.O.
Project No. S40 09

Subject:

Report Date 10/19/94
Date Received 9/16/94

Customer No. 8888-0
Work Order No. 9409-00222
Invoice No. LB0000

Sampled Date 9/15/94
Sampled Time 00:00

Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
1 SB-6-1.5									
Petroleum Hydrocarbons	41..1, EPA 1983	ND	mg/Kg	5	SB	9/29/94	0.00	0.00	81.30
Lead	74.0, EPA 1986	33.	mg/Kg	5.0	MAM	9/29/94	0.74	104.00	101.30
volatile halocarbons									
Chloromethane	EP. 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromomethane	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
Vinyl Chloride	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
Dichlorodifluoromethane	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroethane	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
Methylene Chloride	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroflouromethane	EP/ 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,2-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,1-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Carbon Tetrachloride	EPA 8010	ND	ug/Kg	1	JJS	10/03/94			
Bromodichloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,3-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Cis-1,3-Dichloropropene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dibromochloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
2-Chloroethylvinyl ether	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 2

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
1 SB-6-1.5									
Bromoform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Tetrachloroethene	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Volatile Aromatics 8020	EPA 8020, SW-846								
Methyl-T-butyl ether	EPA 8020	ND	ug/Kg	25	JJS	10/03/94			
Benzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Toluene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Total Xylenes	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Ethylbenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Formaldehyde	MBTH, HACH	0.66	mg/Kg	0.1	SH	11/10/94			
2 SB-7-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	30	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
Lead	7420, EPA 1986	23.	mg/Kg	5.0	MAM	9/29/94	0.74	104.00	101.30
volatile halocarbons									
Chloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromomethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Vinyl Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dichlorodifluoromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Methylene Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichlorofluoromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,2-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,1-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Carbon Tetrachloride	EPA 8010	ND	ug/Kg	1	JJS	10/03/94			
Bromodichloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,3-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Cis-1,3-Dichloropropene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 3

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
2 SB-7-1.5									
Dibromochloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
2-Chloroethylvinyl ether	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromoform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Tetrachloroethene	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Volatile Aromatics 8020	EPA 8020, SW-846								
Methyl-T-butyl ether	EPA 8020	ND	ug/Kg	25	JJS	10/03/94			
Benzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Toluene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Total Xylenes	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Ethylbenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Formaldehyde	MOD, HACH	0.96	mg/Kg	0.1	SH	11/10/94			
3 SB-8-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	718	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
Lead	7420, EPA 1986	88.	mg/Kg	5.0	MAM	9/29/94	0.74	104.00	101.30
volatile halocarbons									
Chloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromomethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Vinyl Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dichlorodifluoromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Methylene Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroflouromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,2-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,1-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Carbon Tetrachloride	EPA 8010	ND	ug/Kg	1	JJS	10/03/94			
Bromodichloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,3-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 4

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
3 SB-8-1.5									
Cis-1,3-Dichloropropene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dibromochloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
2-Chloroethylvinyl ether	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromoform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Tetrachloroethene	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Volatile Aromatics 8020	EPA 8020, SW-846								
Methyl-T-butyl ether	EPA 8020	ND	ug/Kg	25	JJS	10/03/94			
Benzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Toluene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Total Xylenes	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Ethylbenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Formaldehyde	MBTH, HACH	1.03	mg/Kg	0.1	SH	11/10/94			
4 SB-9-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	233	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
Lead	7420, EPA 1986	21.	mg/Kg	5.0	MAM	9/29/94	0.74	104.00	101.30
volatile halocarbons									
Chloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromomethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Vinyl Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dichlorodifluoromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Methylene Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroflouromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,2-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,1-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Carbon Tetrachloride	EPA 8010	ND	ug/Kg	1	JJS	10/03/94			
Bromodichloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 5

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
4 SB-9-1.5									
Trans-1,3-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Cis-1,3-Dichloropropene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dibromochloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
2-Chloroethylvinyl ether	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromoform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Tetrachloroethene	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Volatile Aromatics 8020	EPA 8020, SW-846								
Methyl-T-butyl ether	EPA 8020	ND	ug/Kg	25	JJS	10/03/94			
Benzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Toluene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Chlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Total Xylenes	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Ethylbenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
Formaldehyde	MBTH, HACH	0.22	mg/Kg	0.1	SE	11/10/94			
5 SB-10-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	2336	mg/Kg	5	SE	9/29/94	0.00	0.00	81.30
Lead	7421, EPA 1986	28.	mg/Kg	5.0	MAM	9/29/94	0.74	104.00	101.30
volatile halocarbons									
Chloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Bromomethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Vinyl Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Dichlorodifluoromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Methylene Chloride	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trichloroflouromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Trans-1,2-Dichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Chloroform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,2-Dichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
1,1,1-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
Carbon Tetrachloride	EPA 8010	ND	ug/Kg	1	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 6

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

	Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
5	SB-10-1.5									
	Bromodichloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,2-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Trans-1,3-Dichloropropane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Trichloroethene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Cis-1,3-Dichloropropene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,1,2-Trichloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Dibromochloromethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	2-Chloroethylvinyl ether	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Bromoform	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Tetrachloroethene	EPA 8010	ND	ug/kg	5	JJS	10/03/94			
	Chlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,4-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,3-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	1,2-Dichlorobenzene	EPA 8010	ND	ug/Kg	5	JJS	10/03/94			
	Volatile Aromatics 8020	EPA 8020, SW-846								
	Methyl-T-butyl ether	EPA 8020	ND	ug/Kg	25	JJS	10/03/94			
	Benzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	Toluene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	Chlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	Total Xylenes	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	1,3-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	1,2-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	1,4-Dichlorobenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	Ethylbenzene	EPA 8020	ND	ug/Kg	5	JJS	10/03/94			
	Formaldehyde	MBTH, HACH	0.29	mg/Kg	0.1	SH	11/10/94			
6	SB-11-1.5									
	Petroleum Hydrocarbons	418.1, EPA 1983	239	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
	Formaldehyde	MBTH, HACH	0.27	mg/Kg	0.1	SH	11/10/94			
7	SB-11-3.0									
	Petroleum Hydrocarbons	418.1, EPA 1983	ND	mg/Kg	5	SH	10/12/94	0.00	0.00	68.00
8	SB-12-1.5									
	Petroleum Hydrocarbons	418.1, EPA 1983	1648	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
	Formaldehyde	MBTH, HACH	0.61	mg/Kg	0.1	SH	11/10/94			
9	SB-12-3.0									
	Petroleum Hydrocarbons	418.1, EPA 1983	2679	mg/Kg	5	SH	10/12/94	0.00	0.00	68.00

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 7

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

	Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
10	SB-13-1.5									
	Petroleum Hydrocarbons	418.1, EPA 1983	464	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
	Formaldehyde	MOTH, HACH	0.56	mg/Kg	0.1	SH	11/10/94			
11	SB-13-3.0									
	Petroleum Hydrocarbons	418.1, EPA 1983	3182	mg/Kg	5	SH	10/12/94	0.00	0.00	68.00
12	SB-14-1.5									
	Petroleum Hydrocarbons	418.1, EPA 1983	1019	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
	Formaldehyde	MOTH, HACH	0.4	mg/Kg	0.1	SH	11/10/94			
13	SB-14-3.0									
	Petroleum Hydrocarbons	418.1, EPA 1983	ND	mg/Kg	5	SH	10/12/94	0.00	0.00	68.00
14	SB-15-1.5									
	Petroleum Hydrocarbons	418.1, EPA 1983	9224	mg/Kg	5	SH	9/29/94	0.00	0.00	81.30
	Formaldehyde	MOTH, HACH	0.62	mg/Kg	0.1	SH	11/10/94			
15	GW 1									
	volatile halocarbons									
	Chloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Bromomethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Vinyl Chloride	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Dichlorodifluoromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Chloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Methylene Chloride	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trichloroflouromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1-Dichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1-Dichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trans-1,2-Dichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Chloroform	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,2-Dichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1,1-Trichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Carbon Tetrachloride	EPA 8010	ND	ug/L	1	JJS	10/03/94			
	Bromodichloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,2-Dichloropropane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trans-1,3-Dichloropropane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Cis-1,3-Dichloropropene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1,2-Trichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 8

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

	Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
15	GW 1									
	Dibromochloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	2-Chloroethylvinyl ether	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Bromoform	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Tetrachloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Chlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,4-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,3-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,2-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
16	GW 2									
17	GW 3									
	Formaldehyde	MBTH, HACH	<0.1	%	0.1	SH	10/11/94			
18	GW 4									
	Petroleum Hydrocarbons	418.1, EPA 1983	ND	mg/L	1	CJP	9/30/94	0.00	0.00	0.00
19	GW 5									
	volatile halocarbons									
	Chloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Bromomethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Vinyl Chloride	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Dichlorodifluoromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Chloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Methylene Chloride	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trichloroflouromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1-Dichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1-Dichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trans-1,2-Dichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Chloroform	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,2-Dichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1,1-Trichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Carbon Tetrachloride	EPA 8010	ND	ug/L	1	JJS	10/03/94			
	Bromodichloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,2-Dichloropropane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trans-1,3-Dichloropropane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Trichloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	Cis-1,3-Dichloropropene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
	1,1,2-Trichloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			

---- Continued on Next Page ----

Aqua Air (A2) Analytical Corp. Page 9

Laboratory Report

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00222.

Report Date 10/19/94
Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
19 GW 5									
Dibromochloromethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
2-Chloroethylvinyl ether	EPA 8010	ND	ug/L	5	JJS	10/03/94			
Bromoform	EPA 8010	ND	ug/L	5	JJS	10/03/94			
1,1,2,2-Tetrachloroethane	EPA 8010	ND	ug/L	5	JJS	10/03/94			
Tetrachloroethene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
Chlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
1,4-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
1,3-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
1,2-Dichlorobenzene	EPA 8010	ND	ug/L	5	JJS	10/03/94			
Petroleum Hydrocarbons	MODIFIED 8015	ND	mg/l	2	LS	10/05/94			

SAMPLE #222.16 (GW2) WAS DESTROYED IN THE LABORATORY.

To the best of my knowledge this report is true and accurate.

Authorized by:

John J. Sulkowski
Manager, Laboratory Services

L a b o r a t o r y R e p o r t

CERTIFIED - SAN FRANCISCO
Work Order No. 9409-00218.

Report Date 9/28/94
Quality Control Results

John J. Sulkowski
Manager, Laboratory Services

CHAIN OF CUSTODY RECORD

-CERTIFIED-
Environmental Consultants & Laboratory Services
A SHP GROUP COMPANY

Certified Engineering & Testing® Company
25 Mathewson Drive • Weymouth, MA 02189
(617) 337-7887 • Fax (617) 337-8237

SAMPLE SERIES #: 94 - 09 - 222

DUE DATE: 9 - 30 - 94

COMPANY: Recon Environmental
7000 Marina Blvd 4/F
Brisbane CA 94005

PHONE #: (415) 742-9900 FAX #: (415) 742-1033

P.O. #:

CLIENT CONTACT: Marc Papineau / Fred Hayden

CERTIFIED PROJECT #: 94109

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

ANALYSES

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	418.1	PB (Total)	Formaldehyde (8315)	8015 (Modified)	COMMENTS
1	SB-6-1.5	soil	2x6	brass	1	9/15/94			X	X	X	X	
2	SB-7-1.5	|	|	|	1	|			X	X	X	X	
3	SB-8-1.5				1				X	X	X	X	
4	SB-9-1.5				1				X	X	X	X	
5	SB-10-1.5				1				X	X	X	X	
6	SB-11-1.5				1				X		X		
7	SB-11-3.0				1								HOLD
8	SB-12-1.5				1				X		X		
9	SB-12-3.0				1								HOLD
10	SB-13-1.5				1				X		X		
11	SB-13-3.0				1								HOLD
12	SB-14-1.5				1				X		X		
13	SB-14-3.0				1								HOLD

SEP 16 AM 11 08 '94

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
Fred Hayden	DATE: 9/15/94 TIME:		DATE: TIME:
RELINQUISHED BY:	DATE: TIME:	RECEIVED BY: [signature]	DATE: TIME:

[illegible] 9-16-94 11:0[illegible]

SPECIAL INSTRUCTIONS:
☐ RUSH DATE REQUIRED (ADDITIONAL COST MAY APPLY)
☐ REGULAR (10 BUSINESS DAYS)

Shade areas for laboratory use only
Retain Pink copy and submit White and Yellow copies to the Laboratory

CHAIN OF CUSTODY RECORD

CERTIFIED
Environmental Consultants & Laboratory Services
A GHP GROUP COMPANY

Certified Engineering & Testing® Company
25 Mathewson Drive • Weymouth, MA 02189
(617) 337-7887 • Fax (617) 337-8237

SAMPLE SERIES #: 94-09-222

DUE DATE: 9-30-94

COMPANY: RECON ENVIRONMENTAL CORP
7000 Marina Blvd 4/F
Brisbane CA 94005
PHONE #: (415) 742-9700 FAX #: (415) 742-1083
P.O. #:
CLIENT CONTACT: Marc Papineau / Fred Hayden
CERTIFIED PROJECT #: 5410C9

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	ANALYSES	COMMENTS
14	SB-15-1.5	Soil	2x6	Glass	1	9/15/94		X	X	
	SB-15-3.0									HOLD. 24
	SB-16-1.5							X		
	SB-16-3.0									HOLD. 21A

'94 SEP 16 AM 11 08

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:

SPECIAL INSTRUCTIONS:
- ☐ RUSH DATE REQUIRED (ADDITIONAL COST MAY APPLY)
- ☐ REGULAR (10 BUSINESS DAYS)

Shade areas for laboratory use only
Retain Pink copy and submit White and Yellow copies to the Laboratory

ACCUFORMS, INC., BRAINTREE, MA (617) 356-2626

CHAIN OF CUSTODY RECORD

CERTIFIED
Environmental Consultants & Laboratory Services
A SHP GROUP COMPANY

Certified Engineering & Testing® Company
25 Mathewson Drive • Weymouth, MA 02189
(617) 337-7887 • Fax (617) 337-8237

SAMPLE SERIES #: 894-09-222

DUE DATE: 9-30-94

COMPANY: Recon Environmental Corp
7000 Marina Blvd U/T
Brisbane CA 94005

PHONE #: (415) 742 9100 FAX #: (415) 742 1033

P.O. #:

CLIENT CONTACT: Marc Papineau / Fred Hayden

CERTIFIED PROJECT #: S40109

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

ANALYSES

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	418.1 TRPH	TPH 8015 (Fuel Fingerprint)	Formaldehyde 8315	EPA 8020 (BTEX)	8015 mod (Fuel Fingerprint)	8010 (Chlorinated Solvents)	COMMENTS
15	GW1	Water	L	Glass	1	9/15/94			X						
16	GW2	water	L	Plastic	1	|				X					
17	GW3	water	L	Plastic	1						X				
18	GW4	water	L	Glass	1				X						
19	GW5	water	40ml	glass	3							X			2 W/ Hole
	~~GW6~~														
	Blank	water	40ml	glass	1										

'94 SEP 16 AM 11 14

RELINQUISHED BY:	DATE: 9/15/94	RECEIVED BY:	DATE:
Fred Hayden	TIME:	[signature]	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 9/16
	TIME:	C Dalwell	TIME: 11

SPECIAL INSTRUCTIONS:
- ☐ RUSH DATE REQUIRED (ADDITIONAL COST MAY APPLY)
- ☐ REGULAR (10 BUSINESS DAYS)

Shade areas for laboratory use only
Retain Pink copy and submit White and Yellow copies to the Laboratory

Aqua Air (A2) Analytical Corp.
25 Mathewson Drive
Weymouth, Massachusetts 02189
Telephone (617)337-9334
Fax (617) 337-8237
MA-MA069, CT-PH0119, RI-A45, MD-MD194, NJ-59744, CA-1425

Laboratory Report

----- Prepared for -----

CERTIFIED - SAN FRANCISCO
70000 Marina Blvd.

Brisbane CA 94005-0000
Fred Hayden

Permit No.
Cust. P.O.
Project No. S40109

Subject:

Report Date 9/28/94
Date Received 9/22/94

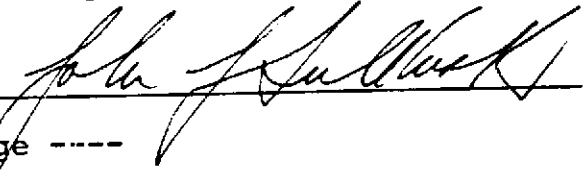
Customer No. 8888-0
Work Order No. 9409-00218.
Invoice No. LB0000

Sampled Date 9/12/94
Sampled Time 00:00

Quality Control Results

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Dup % Rec	Spk % Rec	Std. % Rec
SB2-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	1410	mg/Kg	5	SH	9/26/94	14.81	90.00	89.20
SB2-3.0 HOLD									
SB1-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	687	mg/Kg	5	SH	9/26/94	14.81	90.00	89.20
SB3-1.5									
Petroleum Hydrocarbons	418.1, EPA 1983	51	mg/Kg	5	SH	9/26/94	14.81	90.00	89.20
SB3-3.0 HOLD									

To the best of my knowledge this report is true and accurate.

Authorized by: 

---- Continued on Next Page ----

CHAIN OF CUSTODY RECORD

CERTIFIED
Environmental Consultants & Laboratory Services
A GHP GROUP COMPANY

Certified Engineering & Testing® Company
25 Mathewson Drive • Weymouth, MA 02189
(617) 337-7887 • Fax (617) 337-8237

SAMPLE SERIES #: 94-09-218

DUE DATE: 9-22-94

COMPANY: RECON ENVIRONMENTAL CORP
7600 Marina Blvd 4/F
Brisbane CA 94005

PHONE #: (415) 742-7900 FAX #: (415) 742-4033

P.O. #:

CLIENT CONTACT: Fred Hayden

CERTIFIED PROJECT #: 540109

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

ANALYSES

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	418.1 TRPH	COMMENTS
1	SB2-1.5	soil	2x6	brass	1	9/12/94			X	
2	SB2-3.0	"	"	"	"	"				HOLD
3	SB1-1.5	"	"	"	"	"			X	
4	SB3-1.5	"	"	"	"	"			X	
5	SB3-3.0	"	"	"	"	"				HOLD
										SEP 22 AM 9

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
Fred Hayden	9/14/94	X B KIM	9/14/94
	TIME: 16:30		TIME: 16:30
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:

SPECIAL INSTRUCTIONS:

☐ RUSH DATE REQUIRED
(ADDITIONAL COST MAY APPLY)

☐ REGULAR
(10 BUSINESS DAYS)

Shade areas for laboratory use only
Retain Pink copy and submit White and Yellow copies to the Laboratory

ACCUFORMS, INC., BRAINTREE, MA (617) 358-2626

Inchcape Testing Services
Anametrix Laboratories

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

October 24, 1994

Mr. Don Bransford
RECON ENVIRONMENTAL CORP.
7000 Marina Blvd.
Brisbane, CA 94005

Dear Mr. Bransford:

Enclosed is the analytical report for your project ID: TALLYN PAIR, we received on October 7, 1994. The enclosed work was performed by Inchcape Testing Services, NDRC Laboratories, a state certified laboratory.

I.T.S. Anametrix ID:	Client ID:
9410058-1	SB4-1.5
9410058-2	SB5-1.5

If you have any questions regarding this workorder, please give me a call at (408)432-8192.

Sincerely,

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES

Cristina V Rayburn

Cristina Velasquez Rayburn
Project Manager

Inchcape Testing Services
NDRC Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel: 214-238-5591
Fax: 214-238-5592

DATE RECEIVED: 8-OCT-1994

REPORT NUMBER: D94-10555
REPORT DATE: 11-OCT-1994

SAMPLE SUBMITTED BY : Anametrix, Inc.
ADDRESS : 1961 Consourse Drive, Ste. E
San Jose, CA 96131
ATTENTION : Ms. Cristina Rayburn

PROJECT : 9410058
DATE SAMPLED : 7-OCT-1994

CASE NARRATIVE COMMENTS:

No problems were encountered with the analysis for this job.

Pease refer to the attached Case Narrative Summary for sample identifications and analytical requests.

If you have any questions, please call Mr. John Todd or Ms. Belinda Feuerbacher at (214) 238-5591.

Jacqueline Mayhew
Data Review Coordinator

CASE NARRATIVE SUMMARY - PAGE 1

JOB ID : D94-10555
CUSTOMER : Anametrix, Inc.
PROJECT : 9410058

SAMPLE ID : D94-10555-1 DATE SAMPLED : 7-OCT-1994
ID MARKS : SB4-1.5

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
FORMALD_S /1			P_F	10-OCT-1994	958023A
SOLID_TPER /1			PSS	10-OCT-1994	29141C

SAMPLE ID : D94-10555-2 DATE SAMPLED : 7-OCT-1994
ID MARKS : SB5-1.5

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
FORMALD_S /1			P_F	10-OCT-1994	958023A
SOLID_TPER /1			PSS	10-OCT-1994	29141C

ANALYSIS	DESCRIPTION
FORMALD_S	Formaldehyde, Solid, Colorimetric
SOLID_TPER	Total Solids, Soil/Sludge, %

Inchcape Testing Services
NDRC Laboratories

1089 E. Collins BLVD.
Richardson, TX 75081
Tel. 214 238 5591
Fax. 214 238 5592

DATE RECEIVED : 8-OCT-1994

REPORT NUMBER : D94-10555-1
REPORT DATE : 11-OCT-1994

SAMPLE SUBMITTED BY : Anametrix, Inc.
ADDRESS : 1961 Concourse Drive, Ste. E
: San Jose, CA 96131
ATTENTION : Ms. Cristina Rayburn

SAMPLE MATRIX : Soil
ID MARKS : SB4-1.5
PROJECT : 9410058
DATE SAMPLED : 7-OCT-1994

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Formaldehyde	/1	1 mg/Kg	2 mg/Kg
Dilution Factor : 10 Analyzed using AOAC 20.079 on 10-OCT-1994 by P_F QC Batch No : 958023A			
Total Solids	/1	0.01 %	86.9 %
Analyzed using ASTM D2216 mod. on 10-OCT-1994 by PSS QC Batch No : 29141C			

Martin Jeffus jm
Martin Jeffus
General Manager

Inchcape Testing Services
NDRC Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214 238 5591
Fax. 214 238 5592

DATE RECEIVED : 8-OCT-1994

REPORT NUMBER : D94-10555-2
REPORT DATE : 11-OCT-1994

SAMPLE SUBMITTED BY : Anametrix, Inc.
ADDRESS : 1961 Concourse Drive, Ste. E
: San Jose, CA 96131
ATTENTION : Ms. Cristina Rayburn

SAMPLE MATRIX : Soil
ID MARKS : SB5-1.5
PROJECT : 9410058
DATE SAMPLED : 7-OCT-1994

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Formaldehyde	/1	1 mg/Kg	< 1 mg/Kg
Dilution Factor : 10 Analyzed using AOAC 20.079 on 10-OCT-1994 by P_F QC Batch No : 958023A			
Total Solids	/1	0.01 %	93.8 %
Analyzed using ASTM D2216 mod. on 10-OCT-1994 by PSS QC Batch No : 29141C			

Martin Jeffus jm
Martin Jeffus
General Manager

Inchcape Testing Services
NDRC Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED: 8-OCT-1994

REPORT NUMBER: D94-10555

REPORT DATE: 11-OCT-1994

SUBMITTED BY: Anametrix, inc.

LABORATORY QUALITY CONTROL REPORT

ANALYTE	Formaldehyde
BATCH No.	958023A
LCS LOT No.	----
PREP METHOD	----
PREP DATE	----
PREP TECHNICIAN	----
ANALYSIS METHOD	AOAC 20.079
ANALYSIS DATE	10/10/94
ANALYST	PF
METHOD BLANK	< 0.10 mg/Kg
MS % RECOVERY	111
MSD % RECOVERY	107
LCS % RECOVERY	----
DUPLICATE RPD	NC
MS/MSD RPD	3.67
SPIKE LEVEL	7.40 mg/Kg
SPIKED SAMPLE ID No.	D94-10555-2
DUPLICATE SAMPLE ID No.	D94-10555-2

----: Not Applicable
NC: Not Calculable

MS: Matrix Spike
MSD: Matrix Spike Duplicate

LCS: Laboratory Control Sample
RPD: Relative Percent Difference

COMMENTS:

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
9410058	

Send Report Attention of:	Report Due	Verbal Due
CRISTINA V. RAYBURN	10/10/94	/ /

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: Formaldehyde	Condition of Samples	Initial
9410058	10-7-94	10:15		Soil	SB4-1.5	1	1xBL	X	10555-1	
9410058	10-7-94	10:26		Soil	SB5-1.5	1	1xBL	X	2	

DUE 10-10-94
W/C

COOLER TEMPERATURE WHEN RECEIVED: 5 °C

ORIGINAL

Level II QC

PRI 3

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Cristina Rayburn	10-7-94 12:30		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time
		Doralyn Cargill	10.8.94 10

Remarks: PLEASE SEND ORIGINAL CHAIN OF CUSTODY ALONG WITH THE REPORT. SUBBED TO ITS- DALLAS

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

Inchcape Testing Services
Anametrix Laboratories

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

October 7, 1994

Mr. Fred Hayden
Recon Environmental Corporation
7000 Marina Blvd.
Brisbane, CA 94005

Project ID: Former Bank
Anametrix Workorder: 9409103

Dear Fred:

After review of your request, we are reissuing this report because it was lost/not received.

If there is anything more that we can do, please contact our Client Services Department immediately. Thank you for using Inchcape Testing Services, Anametrix Laboratories.

Sincerely,

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES

Lance Wakida
Project Manager

Encl.

Inchcape Testing Services
Anametrix Laboratories

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409103
Date Received : 09/13/94
Project ID : ~~FORMER BANK~~ Russ Lane
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9409103- 1	MW1-5
9409103- 2	MW1-12
9409103- 3	MW1-20
9409103- 4	SB4-1.5
9409103- 5	SB4-3.0
9409103- 6	SB5-1.5
9409103- 7	SB5-3.0

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

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Doug Robbins
Laboratory ~~Director~~

10-7-94
Date

This report consists of 7 pages.

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409103
Date Received : 09/13/94
Project ID : FORMER BANK
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9409103- 2	MW1-12	SOIL	09/12/94	418.1
9409103- 4	SB4-1.5	SOIL	09/12/94	418.1
9409103- 6	SB5-1.5	SOIL	09/12/94	418.1

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409103
Date Received : 09/13/94
Project ID : FORMER BANK
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems were encountered for these samples.

Department Supervisor Date

Chemist Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

PROJECT #	: ~~FORMER BANK~~	ANAMETRIX I.D.	: 9409103
MATRIX	: SOIL	ANALYST	:
DATE SAMPLED	: 09/12/94	SUPERVISOR	:
DATE EXTRACTED	: 09/14/94	DATE RELEASED	: 10/07/94
DATE ANALYZED	: 09/14/94		

WORKORDER #	SAMPLE I.D.	REPORTING LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)
9409103-02	MW1-12	5.0	ND
9409103-04	SB4-1.5	10	94
9409103-06	SB5-1.5	100	1,300
BS14H1WN	METHOD BLANK	5.0	ND

ND - Not detected above the reporting limit for the method.

Reference - Methods for Chemical Analysis of Water and Wastes, 3rd edition, US EPA-600/4-79-020, March 1983.

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

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE I.D.	: LAB CONTROL SAMPLE	ANAMETRIX I.D.	: MS14H1WN
MATRIX	: SOIL	ANALYST	:
DATE EXTRACTED	: 09/14/94	SUPERVISOR	:
DATE ANALYZED	: 09/14/94	DATE RELEASED	: 10/07/94

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	% REC LCS	%REC LIMITS
PETROLEUM HYDROCARBONS	33	31	94	81-119

#3759

9409103 (1012)

CHAIN OF CUSTODY RECORD

CERTIFIED

Environmental Consultants & Laboratory Services
A SHP GROUP COMPANY

Certified Engineering & Testing® Company
~~25 Mathewson Drive~~ ~~Weymouth, MA 02189~~ 7000 MARINA BLVD BRISBANE CA, 94005
~~(617) 337-7887~~ (415) 742-9818 • Fax (617) 337-8237

SAMPLE SERIES #: ____-____-____

DUE DATE: 9-24-94

COMPANY: RECON ENVIRONMENTAL CORP
7000 MARINA BLVD 4/F
BRISBANE CA 94005

PHONE #: ( ) FAX #: ( )

P.O. #:

CLIENT CONTACT:

CERTIFIED PROJECT #:

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	ANALYSES: EPA 8015 Extended w/ 418.1 TRPH	COMMENTS
1	MW1-5	SOIL	2x6	BR	1	9/12/94			X	HOLD
2	MW1-12	SOIL								HOLD
3	MW1-20	SOIL							XX	
4	SB4-1.5	SOIL								HOLD
5	SB4-3.0	SOIL							XX	
6	SB5-1.5	SOIL								HOLD
7	SB5-3.0	SOIL								

RELINQUISHED BY:	DATE: 9/13/94	RECEIVED BY:	DATE: 9/13/94	SPECIAL INSTRUCTIONS:
RELINQUISHED BY:	TIME: 1645	RECEIVED BY:	TIME: 1645	☐ RUSH DATE REQUIRED (ADDITIONAL COST MAY APPLY)
	DATE: 9/13/94		DATE: 9/13/94	☐ REGULAR (10 BUSINESS DAYS)
	TIME: 1810		TIME: 1810	

Shaded areas for laboratory use only

Inchcape Testing Services
Anametrix Laboratories

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409127
Date Received : 09/16/94
Project ID : ~~FORMER BANK~~ Ross Lane
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9409127- 1	SB14-1.5

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

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

[signature] for
Doug Robbins
Laboratory Director

10/04/94
Date

This report consists of 8 pages.

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409127
Date Received : 09/16/94
Project ID : ~~FORMER BANK~~ Rec's Lane
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9409127- 1	SB14-1.5	SOIL	09/15/94	418.1

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9409127
Date Received : 09/16/94
Project ID : ~~FORMER BANK~~ Brisbane
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- Due to the high concentration of Total Recoverable Petroleum Hydrocarbons in sample SB14-1.5, the percent recovery of the Matrix Spike is outside of Quality Control Limits.

Department Supervisor 9/27/94 Date

Chemist 9/27/94 Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

PROJECT #	: ~~FORMER BANK~~ Russ Lane Proj	ANAMETRIX I.D.	: 9409127
MATRIX	: SOIL	ANALYST	: BJ
DATE SAMPLED	: 09/15/94	SUPERVISOR	: CM
DATE EXTRACTED	: 09/21/94	DATE RELEASED	: 09/26/94
DATE ANALYZED	: 09/21/94		

WORKORDER #	SAMPLE I.D.	REPORTING LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)
9409127-01	SB14-1.5	100	870
BS21H1WN	METHOD BLANK	5.0	ND

ND - Not detected above the reporting limit for the method.

Reference - Methods for Chemical Analysis of Water and Wastes, 3rd edition, US EPA-600/4-79-020, March 1983.

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

MATRIX SPIKE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE I.D. : SB14-1.5MS
MATRIX : SOIL
DATE SAMPLED : 09/15/94
DATE EXTRACTED : 09/21/94
DATE ANALYZED : 09/21/94

ANAMETRIX I.D. : 9409127-01
ANALYST : [illegible]
SUPERVISOR : [illegible]
DATE RELEASED : 09/27/94

COMPOUND	SPIKE AMT. (mg/Kg)	SAMPLE CONC. (mg/Kg)	REC MS (mg/Kg)	% REC MS	%REC LIMITS
Petroleum Hydrocarbons	33	870	1500	1909	75-125

* Quality control limits established by Anametrix Laboratories.

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE I.D.	: LAB CONTROL SAMPLE	ANAMETRIX I.D.	: MS21H1WN
MATRIX	: SOIL	ANALYST	: JD
DATE EXTRACTED	: 09/21/94	SUPERVISOR	: CW
DATE ANALYZED	: 09/21/94	DATE RELEASED	: 09/26/94

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	% REC LCS	%REC LIMITS
PETROLEUM HYDROCARBONS	33	28	85	81-119

DUPLICATE ANALYSIS SUMMARY SHEET

INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432 - 8192

PROJECT I.D. : ~~FORMER BANK~~ Kris Lane mw

METHOD : 418.1

MATRIX : SOIL

SDG No : N/A

DATE : 09/21/94

UNITS : mg/Kg

SAMPLE I.D.	ANALYTICAL RESULTS		RPD	RPD LIMITS
	SAMPLE	DUPLICATE		
SB14-1.5	870	800	8	35

CERTIFIED

Environmental Consultants & Laboratory Services
A SHP GROUP COMPANY

2000 Marina Boulevard
Brisbane, CA 94005 415-742-9900

9409127

Certified Engineering & Testing® Company

~~25 Mathewson Drive • Weymouth, MA 02189~~
~~(617) 337-7887~~ • Fax (617) 337-8237

(1/3)

SAMPLE SERIES #: ____-____-____

DUE DATE: ____-____-____

COMPANY: Recon Environmental Corp
7000 Marina blvd 4/F
Brisbane CA 94005

PHONE #: (415) 7429900 FAX #: (415) 742-1033

P.O. #:

CLIENT CONTACT: Fred Hayden

CERTIFIED PROJECT #:

SAMPLE TYPE
1. WATER
2. SOIL
3. SLUDGE
4. OIL

CONTAINER TYPE
P - PLASTIC
G - GLASS
V - VOA

ANALYSES: 418.1; EPA 8315 Extended range

CERTIFIED SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	418.1	EPA 8315 Extended range											COMMENTS
	SB-14-1.5	soil	2x6	brass	1	9/15/94			X	X											

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
Fred Hayden	DATE: 9/15/94 TIME: 1700	[signature]	DATE: 9/15/94 TIME: 1700
[signature]	DATE: 9/16/94 TIME: 0925	Oleg Nemchenko	DATE: 09/15/94 TIME: 9:25

SPECIAL INSTRUCTIONS:
- ☐ RUSH DATE REQUIRED (ADDITIONAL COST MAY APPLY)
- ☐ REGULAR (10 BUSINESS DAYS)

Shade areas for laboratory use only
Retain Pink copy and submit White and Yellow copies to the Laboratory

Rec Calvin Nelson
10:30 9-16-94

ACCUFORMS, INC., BRAINTREE, MA (617) 356-2626

Inchcape Testing Services
Anametrix Laboratories

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9410059
Date Received : 10/07/94
Project ID : TALLYN PAIR
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9410059- 1	SB4-3.0
9410059- 2	SB5-3.0

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

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Susan Kraska Yeager
Laboratory Director

10/14/94
Date

This report consists of 6 pages.

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9410059
Date Received : 10/07/94
Project ID : TALLYN PAIR
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410059- 1	SB4-3.0	SOIL	09/12/94	418.1
9410059- 2	SB5-3.0	SOIL	09/12/94	418.1

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

MR. DON BRANSFORD
RECON ENVIRONMETAL CORP.
7000 MARINA BLVD.
BRISBANE, CA 94005

Workorder # : 9410059
Date Received : 10/07/94
Project ID : TALLYN PAIR
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems were encountered for these samples.

Department Supervisor 10/13/94 Date

Chemist 10/13/94 Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

PROJECT #	: TALLYN PAIR	ANAMETRIX I.D.	: 9410059
MATRIX	: SOIL	ANALYST	: HE
DATE SAMPLED	: 09/12/94	SUPERVISOR	: CW
DATE EXTRACTED	: 10/10/94	DATE RELEASED	: 10/14/94
DATE ANALYZED	: 10/10/94		

WORKORDER #	SAMPLE I.D.	REPORTING LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)
9410059-01	SB4-3.0	25	190
9410059-02	SB5-3.0	200	1,500
BO10H1WN	METHOD BLANK	5.0	ND

ND - Not detected above the reporting limit for the method.

Reference - Methods for Chemical Analysis of Water and Wastes, 3rd edition, US EPA-600/4-79-020, March 1983.

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

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
EPA METHOD 418.1
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE I.D.	: LAB CONTROL SAMPLE	ANAMETRIX I.D.	: MO10H1WN
MATRIX	: SOIL	ANALYST	:
DATE EXTRACTED	: 10/10/94	SUPERVISOR	:
DATE ANALYZED	: 10/10/94	DATE RELEASED	: 10/12/94

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	% REC LCS	%REC LIMITS
PETROLEUM HYDROCARBONS	33	33	100	81-119

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

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER:

PROJECT NAME: Former Bank

Send Report Attention of: Mr. Don Bransford

Report Due: 10/14/94

Verbal Due: 10/14/94

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: 418.1	Condition of Samples	Initial
SB4-3.0	9/12/94			S		1	BL	X		
SB5-3.0	9/12/94			S		1	BL	X		

Relinquished by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by:(Signature)	Date/Time	Received by Lab:	Date/Time
		[signature]	10/7/94 0855

Remarks: These samples were previously on workorder 9409103.

COMPANY: Recon Environmental Corp
ADDRESS: 2000 Marina Boulevard, 4th Floor
B. Isbome, CA 94005
PHONE: (415) 742-9900 FAX: (415) 742-1033

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

RECON
Attn: Marc Papineau

Project S40109
Reported 04-November-1994

TOTAL PETROLEUM HYDROCARBONS BY EPA METHOD 418.1

Chronology

Laboratory Number 58904

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SB17-3	11/02/94	11/02/94	11/03/94	11/03/94		3
SB12-5	11/02/94	11/02/94	11/03/94	11/03/94		4
SB12-7	11/02/94	11/02/94	11/03/94	11/03/94		5
SB12-10	11/02/94	11/02/94	11/03/94	11/03/94		6

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

RECON
Attn: Marc Papineau

Project S40109
Reported 04-November-1994

TOTAL PETROLEUM HYDROCARBONS BY EPA METHOD 418.1

Laboratory Number	Sample Identification	Matrix
58904- 3	SB17-3	Soil
58904- 4	SB12-5	Soil
58904- 5	SB12-7	Soil
58904- 6	SB12-10	Soil

RESULTS OF ANALYSIS

Laboratory Number:	58904- 3	58904- 4	58904- 5	58904- 6
PETROLEUM HYDROCARBONS:	160	ND<10	ND<10	ND<10
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

TOTAL PETROLEUM HYDROCARBONS BY EPA METHOD 418.1
Quality Assurance and Control Data - Soil

Laboratory Number 58904

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
PETROLEUM HYDROCARBONS:	ND<10	10	100/97	50-137	3%

Definitions:
ND = Not Detected
RPD = Relative Percent Difference
RL = Reporting Limit
mg/kg = Parts per million (ppm)
QC File No. 58904

11/4/94
Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

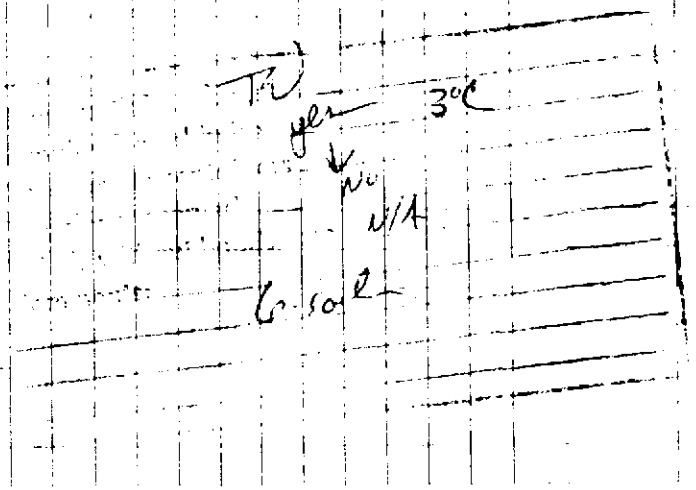
58104

RECON ENVIRONMENTAL CORP.
7000 Marina Boulevard, 4th Floor, Brisbane, California 94005
Phone: 415-742-9900; Fax: 415-742-1033

CHAIN OF CUSTODY RECORD

Project Name: TALLYN PARCEL 1362 RUUS LN HAYWARD
Project Number: 540109
Send Report Attention of: M. PAPINEAU
Analytical Laboratory: SUPERIOR PRECISION ANALYTICAL

Sample Number	Date	Time	Matrix	Location	No. of Containers	Type of Containers	Preservative	Type of Analysis: PETROLEUM OIL EPA 418.1	Condition of Samples
SB13-3	11/2/94	0935	Soil		1	1x6 Brass	No	HOLD	
SB13-5	11/2/94	0945	Soil		1	1x6 Brass	No	HOLD	
SB17-3	11/2/94	0959	Soil		1	1x6 Brass	No	X	
SB12-5	11/2/94	1020	Soil		1	1x6 Brass	No	X	
SB12-7	11/2/94	1028	Soil		1	1x6 Brass	No	X	
SB12-10	11/2/94	1035	Soil		1	1x6 Brass	No	X	



Relinquished by:	Date/Time:	Received by:	Date/Time:
	11/2/94 2:15 PM	Mark Howe	11-2-94 2:15PM
Relinquished by: Mark Howe	Date/Time: 11-2-94 3:00 PM	Received by:	Date/Time: 11-2-94 3:00
Relinquished by:	Date/Time:	Received by:	Date/Time: 11-2-94 3:00pm

Remarks:
48-HOUR TURNAROUND
RESULTS BY FRIDAY 11/4/94

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Recon Environmental Corp.
7000 Marina Blvd
Brisbane, CA 94005

Client Proj. ID: Tallyn Pair

Lab Proj. ID: 9410H27

Attention: Marc Papineau

Sampled: 10/27/94
Received: 10/27/94
Analyzed: see below

Reported: 11/08/94

LABORATORY ANALYSIS

Analyte		Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9410H27-01					
Sample Desc : LIQUID,MW1-A					
1197	Formaldehyde	mg/L	11/03/94	0.10	N.D.
Lab No: 9410H27-02					
Sample Desc : LIQUID,TB-F					
1197	Formaldehyde	mg/L	11/03/94	0.10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ELAP Number
SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Recon Environmental Corp.
7000 Marina Blvd
Brisbane, CA 94005

Attention: Marc Papineau

Client Proj. ID: Tallyn Pair
Sample Descript: MW1-B
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9410H27-03

Sampled: 10/27/94
Received: 10/27/94
Extracted: 11/01/94
Analyzed: 11/01/94
Reported:

Instrument ID: GCHP-5A

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern:	50	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	103

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686 9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Recon Environmental Corp.
7000 Marina Blvd
Brisbane, CA 94005

Attention: Marc Papineau

Client Proj. ID: Tallyn Pair
Sample Descript: TB-FF
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9410H27-04

Sampled: 10/27/94
Received: 10/27/94
Extracted: 11/01/94
Analyzed: 11/01/94
Reported:

Instrument ID: GCHP-5A

Fuel Fingerprint

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern:	50	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364 9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686 9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921 0100

Recon Environmental Corp.
7000 Marina Blvd.
Brisbane, CA 94005
Attention: Marc Papineau

Client Project ID: Tallyn Pair
Matrix: Liquid
Work Order #: 9410H27 03, 04
Reported: Nov 4, 1994

COC #:

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC1031940HBPEXA
Analy. Method:	EPA 8015 Mod
Prep. Method:	EPA 3510

Analyst:	B. Ali
MS/MSD #:	9410E9003
Sample Conc.:	N.D.
Prepared Date:	10/31/94
Analyzed Date:	10/31/94
Instrument I.D.#:	GCHP5A
Conc. Spiked:	600 µg/L
Result:	489
MS % Recovery:	82
Dup. Result:	470
MSD % Recov.:	78
RPD:	4.0
RPD Limit:	

LCS #:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
LCS Result:	
LCS % Recov.:	

MS/MSD LCS Control Limits	38-122

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Recon Environmental Corp.
000 Marina Blvd
risbane, CA 94005
Attention: Marc Papineau

Client Proj. ID: Tallyn Pair

Lab Proj. ID: 9410H27

Received: 10/27/94

Reported: 11/09/94

LABORATORY NARRATIVE

The fuel fingerprint analysis consisted of sample preparation for extractable hydrocarbons via EPA method 3510 and for TPH-Gas by purge and trap; the

samples were analyzed by EPA 8015 mod. The chromatograms were then compared and quantitated against standards for diesel, gasoline, jet fuel, kerosene, and lubricating oil.

SEQUOIA ANALYTICAL

dd Olive
oject Manager

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- ❑ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- ❑ 819 West Striker Ave. • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- ❑ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

NOV 07 '94 12:45PM SEQUOIA ANALYTICAL P.5

Company Name: RECON / CERTIFIED	Project Name: Tallyn Pair
Address: 2000 Marina Blvd	Billing Address (if different):
City: Brisbane State: CA Zip Code: 94005	
Telephone: (415) 7429900 FAX #:	P.O. #:
Report To: Fred Hayden/Mgr Pl Sampler: FH	QC Data: ❑ Level A (Standard) ❑ Level B ❑ Level C ❑ Level D

Turnaround Time: ☒ 10 Working Days ❑ 3 Working Days ❑ 2 - 8 Hours ❑ 7 Working Days ❑ 2 Working Days ❑ 5 Working Days ❑ 24 Hours

❑ Drinking Water ❑ Waste Water ❑ Other

Analyses Requested

9410H27

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Forward to Lab EPA 8315	Mod 8015 Fuel Fingerprint								Comments
1. MW1-A	10/27/94	Water	1	1 L glass amber		X					1				Please see
2. TB-F	|	|	1	|		X					2				Todd
3. MW1-B	|	|	1	|			X				3				Olive
4. TB-FF	|	|	1	|			X				4				
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: Fred Hayden	Date: 10/27/94	Time: 1503	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: OBn	Date: 10/27/94	Time: 1503

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment Page of

Pink - Client Yellow - Sequoia White - Sequoia