ARTESIAN ENVIRONMENTAL CONSULTANTS

Transmittal Letter

From: Mr Jim Jacobs **Date:** 3/8/93

To: Dr. Ravi Arulanantham
Alameda Co. Dept. of
Environmental Health

Via: X First Class
__ UPS
__ Fed - Ex
__ Courier

Subject: Subsurface
Investigation
Report

Job: Mr. Sherman Baleh
site: Wehener Property
1384 Russ Ln
Hayward

As:
__ We discussed on the telephone on _____
__ You requested _____
__ We believe you may be interested
X Is required

We Are Sending:
X Enclosed
__ Under Separate Cover Via _____

The noted
report.

For:
X Your information
__ Your use
__ Your review & comments
__ Return to you

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X Keep this material
__ Return within 2 weeks
__ Acknowledge Receipt

Message:
Best Regards
Pancak'

Should you have any questions please contact Olivia Jacobs or Kathy Yamamoto
3175 Kerner Blvd., Suite E · San Rafael, CA · 94901 · (415) 257-4801 · FAX (415) 257-4805

ARTESIAN ENVIRONMENTAL CONSULTANTS

March 9, 1993

Dr. Ravi Arulanatham
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Assessment of Public Hazards
Hohener Property
1384 Ruus Lane
Hayward, California

Dear Dr. Arulanatham:

An Essenes Environmental, Inc., Subsurface Investigation report dated March 1, 1993 was submitted to you for the above mentioned site. Based on that work, the following statements can be made based on the analyses performed and the sample locations selected:

SUMMARY

• Shallow soils were impacted by motor oil, kerosene, diesel, toluene, ethylbenzene, xylenes, chlordane, dieldrin, and DDD. The extent of contamination is not fully known at this time. The highest concentrations appear to be associated with surface staining.

• Migration of soil contaminants onto adjacent properties does not appear to have occurred based on the soil samples collected at approximately 10 feet below ground surface.

• Groundwater was not impacted on the property and therefore the groundwater of adjacent properties should not be impacted from the subject property.

ACTION LEVELS

The highest concentrations of chemicals detected on the property are the low volatility chemicals: motor oil, diesel and kerosene. These chemicals do not have State Action levels described in Title 22 or Title 26. The other chemicals such as chlorinated pesticides (chlordane, dieldrin, DDE and methyoxychlor) are below the TTLC concentrations. The TTLC levels are listed for metals in the soil are listed on Tables 2

and 4 in the Subsurface Investigation report. All concentrations are on an order of magnitude below the listed TTLC and do not appear to pose health problems.

HEALTH RISKS

As described in the health and safety literature, the main routes of contamination migration appear to be through ingestion, inhalation, and dermal contact. Migration of contaminants onto adjacent properties through the wind appears remote due to the relatively low concentrations and low volatility of the contaminants. Migration of the contaminants through the shallow soils or groundwater appears to be unlikely based on the concentrations detected during the Subsurface Incestigation. Based on the Subsurface Investigation, it is in my professional opinion that the Hohener Property does not pose a threat to the public health for residents living on adjacent properties or nearby properties.

MITIGATION

Mitigation of soil contamination on the Hohener Property can be accomplished by removing the shallow contaminated soils using a backhoe or excavator and transporting the soils to the appropriate Class III landfill.

Please call me at (415) 257-4801 if you have further questions.

Sincerely,

James A. Jacobs, R.G. #4815
Principal Geologist

Olivia Jacobs, R.E.A. # 3219
Principal Environmental Assessor

Essenes Environmental, Inc.

SUBSURFACE INVESTIGATION

Site:

Hohener Property
1384 Ruus Lane
Hayward, California

Prepared For:

Mr. Sherman Balch
Balch Enterprises
30960 Huntwood Avenue
Hayward, CA 94544

March 1, 1993

REGISTERED GEOLOGIST
JAMES A. JACOBS
NO. 4815
STATE OF CALIFORNIA

Olivia Jacobs
Dennis Judd, R.E.A., R.E.H.S.
President

James A. Jacobs, R.G# 4815
Principal Geologist

5500 Burnside Road • Sebastopol, California 95472 • (707) 829-9331

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EXECUTIVE SUMMARY

Essenes Environmental, Inc. (Essenes) conducted a subsurface investigation on the Hohener property at 1384 Ruus Lane in Hayward, California. The purpose of the investigation was to evaluate whether the groundwater and shallow soil on the property had been impacted from the on-site activities and to evaluate the potential environmental risks posed by the subject property to adjacent properties.

Twelve soil borings, designated as B-1 through B-8, and B-1A through B-4A, were drilled on the property on February 17, 1993. All borings were drilled into native material.

Boring B-1A through B-4A were drilled by licensed driller GUESS Drilling of San Rafael, California. Boring B-1 was drilled with a Mobile B-53 hollow stem auger rig. Due to drilling in inaccessible locations, borings B-1 through B-8 were drilled by licensed driller Artesian Environmental Consultants (#624461) using a 2-inch diameter hand augering tool. The soil borings B-1 through B-8 were drilled to a depth of 3 feet below ground surface. One alternate boring B-8' was drilled to 0.5 feet and abandoned due to resistance.

The soils were logged by a project geologist under the supervision of a California-registered geologist. Soil samples were collected in borings B-1 through B-8 at 6 inches, 18 inches and 36 inches below ground surface for lithologic, hydrologic and characterization and possible chemical analysis. Soil samples were collected in borings B-1A through B-4A at least every 5 feet for lithologic, hydrologic and characterization and possible chemical analysis.

Groundwater was measured to occur at about 11 feet below ground surface. Grab groundwater samples were collected in borings B-1A through B-4A. The samples were collected using a Teflon bailer in temporary well casings on February 17, 1993.

Selected soil and water samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) diesel (TPH-d), kerosene (TPH-k), motor oil (TPH-mo) by EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. Samples were also analyzed for purgeable halocarbons by EPA Method 8010/601, chlorinated pesticides by EPA Method 8080/608 and the CAM 17 metals by EPA Methods 3010/6010/7470.

CONCLUSIONS

SOILS- Purgeable halocarbons and gasoline (TPH-g) were not detected in the soils. Motor oil (TPH-mo) was detected in 9 borings (B-1, B-2, B-4, B-5, B-6, B-7, B-1A, B-2A and B-3A) at levels as high as 230 parts per million (ppm). Kerosene (TPH-k) was detected in B-6 at 5.5 ppm. Diesel (TPH-d) was detected in borings B-6 and B-2A at levels as high as 60 ppm. Toluene, ethylbenzene and xylenes were detected in boring B-5 at levels of 10, 8.7 and 58 ppm,

respectively. Chlorinated pesticides were detected in 2 borings: B-6 contained 7.3 parts per billion (ppb) of p,p' methyoxychlor and B-1A contained 2.7 ppb of dieldrin, 1.2 ppb p,p DDD and 77 ppb chlorodane. Metals were detected at concentrations associated with native soil conditions.

WATER- None of the target analytes were detected, except metals which were at concentrations associated with native conditions.

SUMMARY:

- Shallow soils were impacted by motor oil, kerosene, diesel, toluene, ethylbenzene, xylenes, chlorodane, dieldrin, and DDD. The extent of contamination is not fully known at this time. The highest concentrations appear to be associated with surface staining.

- Migration of contaminants onto adjacent properties through the wind appears remote due to the relatively low concentrations and low volatility of the contaminants.

- Migration of soil contaminants onto adjacent properties does not appear to have occurred based on the soil samples collected at approximately 10 feet below ground surface.

- Groundwater was not impacted.

1 INTRODUCTION

Essenes Environmental Inc. has been retained by Mr. Sherman Balch of Balch Development to conduct a subsurface investigation at the Honeher property at 1384 Ruus Lane in Hayward, California (Figures 1 and 2).

The purpose of the investigation was to evaluate whether the groundwater and shallow soil on the property had been impacted from the on-site activities and to evaluate the potential environmental risks posed by the subject property to adjacent properties. All activities were performed under the supervision of a California-registered geologist.

1.1 Scope of Work

The scope of work for the project was as follows:

1) Drill twelve soil borings and collect soil samples in all the borings for lithologic and hydrologic characterization and possible chemical analysis;

2) Analyze selected soil and grab groundwater samples for total petroleum hydrocarbons as gasoline (TPH-g) diesel (TPH-d), kerosene (TPH-k), motor oil (TPH-mo) by EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. Samples were also analyzed for purgeable halocarbons by EPA Method 8010/601, chlorinated pesticides by EPA Method 8080/608 and the CAM 17 metals by EPA Methods 3010/6010/7470.

3) Review all field and laboratory data and prepare a report of this investigation.

2 BACKGROUND

2.1 SITE DESCRIPTION

The property is a 2.26 acre vacant lot located at 1384 Ruus Lane in Hayward, California in an industrial zone. The property is bordered to the north by Ruus Land, to the east by a portable sanitary service business; to the south by a vacant lot fronting on Industrial Boulevard; and to the west by a vacant lot fronting on Stratford Road.

2.2 SITE HISTORY

The property is believed to have been used for the storage of various types of junk. Soil staining is present. On June 1, 1992, Essenes conducted surface soil sampling. Four soil samples were analyzed for TPH-g, TPH-d, purgeable halocarbons, chlorinated pesticides and CAM 17 metals. Diesel at levels as high as 7.4 ppm, chlordane as high as 150 ppb, aldrin at 0.61 ppb and DDE at 0.69 ppb were detected on the property. Metals were detected at concentrations associated with naturally occurring levels.

3 SUBSURFACE INVESTIGATION

Essenes obtained permission to drill the borings through Alameda Flood Control - Zone 7, the Alameda County Environmental Health Department and the Hayward Fire Department. The boring permit is included in Appendix A. Underground service alert was notified prior to drilling. Essenes developed a health and safety plan and a magnetic line location survey was conducted prior to field activities.

Essenes supervised the drilling of twelve soil borings on the property. The borings, designated B-1 through B-8, and B-1A through B-4A, were drilled on February 17, 1993. All borings were drilled into native material. Borings B-1A through B-4A were drilled by licensed driller GUESS Drilling of San Rafael, California with a Mobile B-53 hollow stem auger rig. Borings B-1A through B-4A were drilled to a maximum depth of 15 feet below ground surface with an 8-inch diameter hollow stem augers. Due to inaccessible drilling locations, borings B-1 through B-8 were drilled by licensed driller Artesian Environmental Consultants using a 2-inch diameter hand augering tool. The soil borings B-1 through B-8 were drilled to a depth of 3 feet below ground surface. One alternate boring B-8' was drilled to 0.5 feet and abandoned due to resistance.

Field work was performed by a project geologist under the supervision of a California-registered geologist. Soil samples were collected in borings B-1 through B-8 at 6 inches, 18 inches and 36 inches below ground surface and at least every 5 feet in borings B-1A through B-4A. The samples were logged in the field for lithologic, hydrologic characteristics using the Unified Soil Classification System. Boring logs and the Unified Soil Classification System are included in Appendix B. Standard operating procedures for hollow stem auger soil sampling and continuous core sampling are included in Appendix C.

Groundwater was measured to occur at about 11 feet below ground surface. Grab groundwater samples were collected in borings B-1A through B-4A. The samples were collected using a Teflon bailer in temporary well casings on February 17, 1993.

Drilling equipment was decontaminated between borings using a steam cleaner for hollow stem augers or Alconox wash and two deionized water rinses for the hand augering equipment. The rinse water and drill cuttings were stored on site in labeled, 55-gallon, DOT 17-H drums in a manner consistent with agency regulations and guidelines. Borings B-1A through B-4A were abandoned on February 17, 1993 using a neat cement grout. The grout was placed in the bottom of the borehole with a tremie pipe. Shallow 2-inch diameter borings B-1 through B-8 were filled with low permeability native soils.

4 LABORATORY ANALYSES

All soil samples were labeled and packed on crushed ice for transportation to Chromalab, Inc of San Ramon, California, a State certified hazardous materials laboratory. Selected soil and water samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) diesel (TPH-d), kerosene (TPH-k), motor oil (TPH-mo) by EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. Samples were also analyzed for purgeable halocarbons by EPA Method 8010/601, chlorinated pesticides by EPA Method 8080/608 and the CAM 17 metals by EPA Methods 3010/6010/7470. Chain of Custody documentation included in Appendix D accompanied all samples to the laboratory.

5 ANALYTIC RESULTS

5.1 SOIL ANALYSIS

The soil sample analyses are summarized in Tables 1 and 2. Purgeable halocarbons and gasoline (TPH-g) were not detected in the soils. Motor oil (TPH-mo) was detected in 9 borings (B-1, B-2, B-4, B-5, B-6, B-7, B-1A, B-2A and B-3A) at levels as high as 230 parts per million (ppm). Kerosene (TPH-k) was detected in B-6 at 5.5 ppm. Diesel (TPH-d) was detected in borings B-6 and B-2A at levels as high as 60 ppm. Toluene, ethylbenzene and xylenes were detected in boring B-5 at levels of 10, 8.7 and 58 ppm, respectively. Chlorinated pesticides were detected in 2 borings: B-6 contained 7.3 parts per billion (ppb) of p,p' methyoxychlor and B-1A contained 2.7 ppb of dieldrin, 1.2 ppb p,p DDD and 77 ppb chlordane. Metals were detected at concentrations associated with native soil conditions.

5.2 GROUNDWATER ANALYSIS

The groundwater sample analysis is summarized in Tables 3 and 4. None of the target analytes were detected, except metals which were at concentrations associated with native conditions.

6 DISTRIBUTION

Essenes recommends that the client forward copies of this report to the appropriate regulatory agencies and representatives. Copies of this report have been included for this purpose. Copies sent to the regulators should include a cover letter from the client attesting the validity of this report to the best of the client's knowledge. This letter must be prepared on the client's letterhead and signed by the appropriate individual.

Dr. Ravi Arulanatham
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

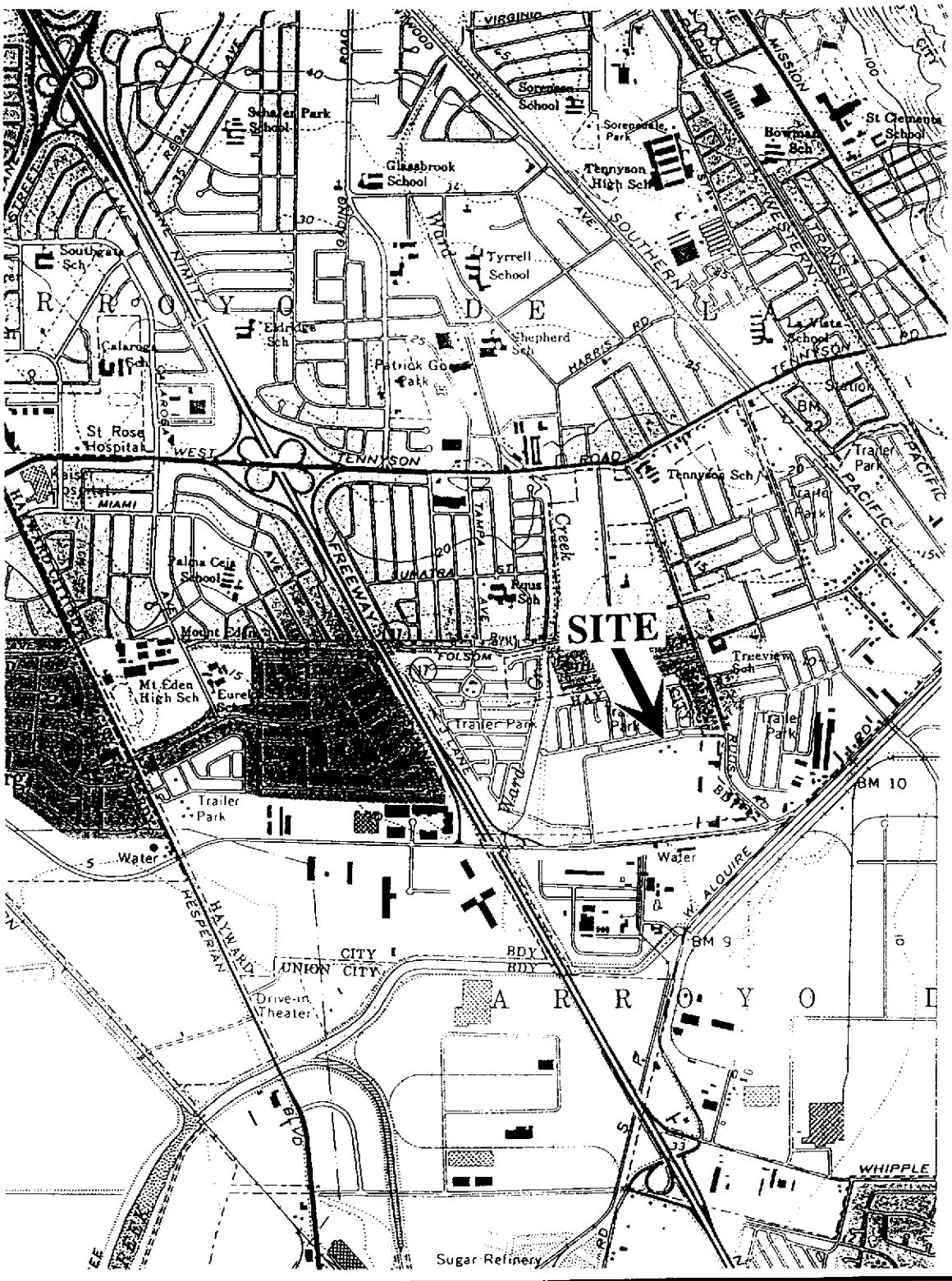
Mr. Hugh Murphy
Hayward Fire Department
25151 Clawiter Road
Hayward, CA 94545-2731

7 LIMITATIONS

The authors and firm offer no assurance and assume no responsibility for site conditions or activities which were beyond the scope of work requested by the client and referenced in the introduction of this report. The compensation agreed to by the client and the firm corresponds to the scope of work defined, with the associated limitations which are an integral and important part of this report. This report was prepared with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely as a tool in assessing environmental conditions of the soil and/or groundwater with respect to relative hydrocarbon product contamination in the immediate vicinity of the former underground storage tank. No soil engineering or geotechnical recommendations are implied or should be inferred. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. There may be variations in subsurface conditions away from the sample points available. There are no representations, warranties, or guarantees that the points selected for sampling are in anyway representative of the entire site. Data from this report reflects the sample conditions at specific locations at a specific point in time. No other interpretations, representations, warranties, guarantees, express or implied, are included or intended by this report. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. There are no guarantees or warranties, express or implied, that undocumented, nonpermitted, illegally or improperly abandoned subsurface containers (such as underground storage tanks or drums) or other sources of contamination or contaminated soil or groundwater itself, or covered, encapsulated, inaccessible or unobservable hazardous materials either do or do not exist on the property.

This project involved hazardous or toxic compounds and there are certain inherent risk factors involved (such as limitations on laboratory or analytical methods or equipment, variations in subsurface conditions, and risks associated with specific analysis not requested by the client), which may adversely affect the results of the project, even though the services were performed with such skill and care as are generally accepted professional standards for the environmental geology profession.

This report and all matters contained herein were prepared for the sole and exclusive benefit of the client specified herein, and is intended only for the use of the client. Neither all, nor any part of the contents of this report, or copy thereof, shall be used for any purpose by anyone but the client specified herein nor shall it be conveyed or disseminated by anyone without the express written consent of the authors. No one, except for the client specified herein, may rely on this report for any purpose. Any person or entity who obtains or reads this report, or a copy thereof, other than the client specified herein, expressly assumes all risk of damages to himself or third persons arising out of reliance thereon or use thereof and waives the right to bring any action based on this report, directly or indirectly, and the authors shall have no liability to any such person or entity.



0 1/4

Approximate Scale (mile)

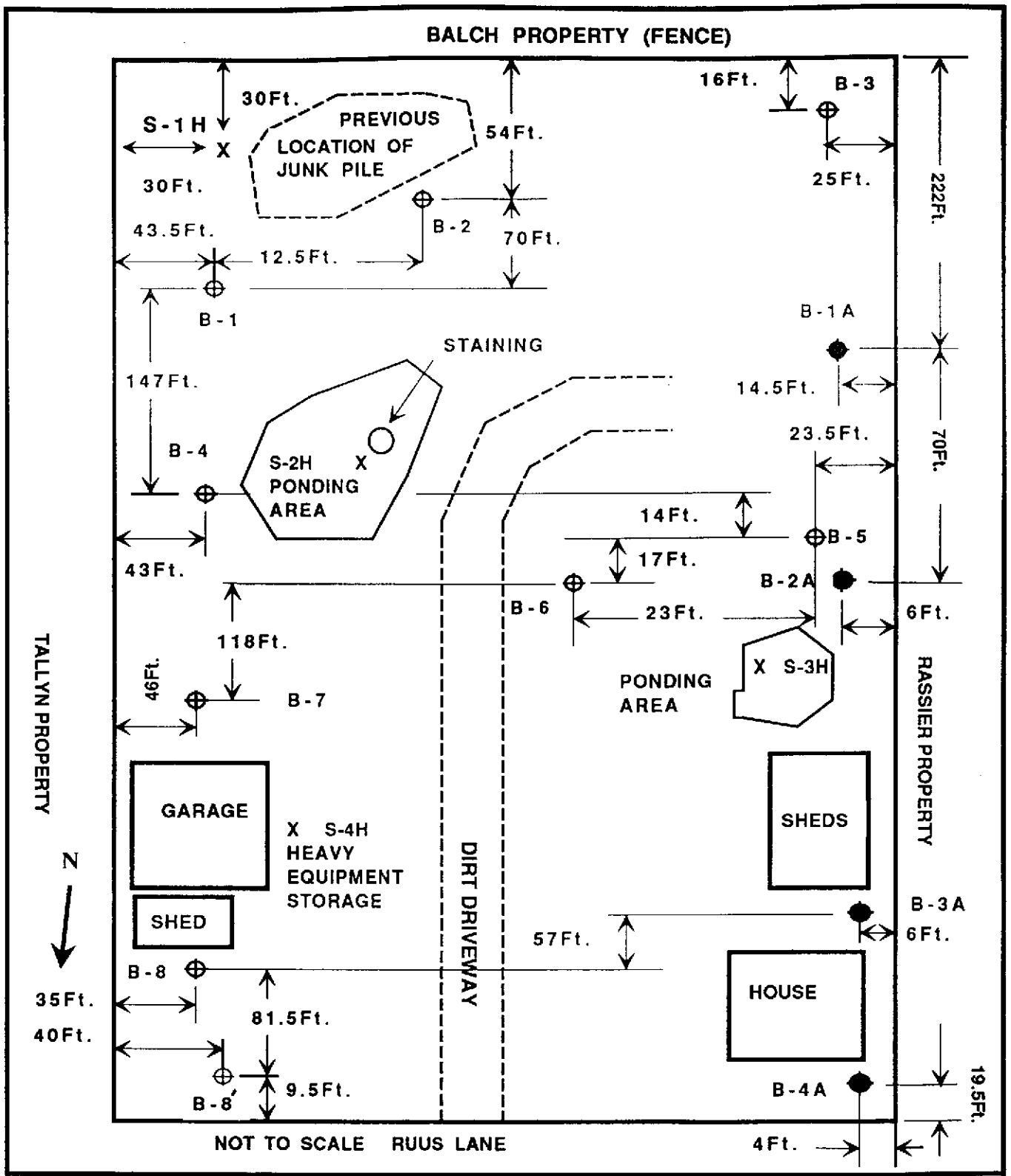
1959/PhotoRev 1980
USGS 1: 24,000 Scale
Newark/Hayward Quadrangle Topographic Map

VICINITY MAP

BALCH ENTERPRISES, INC.
Hohener Property
1384 Ruus Lane
Hayward, California

Project No. 033-008-01	Date: 3/2/93	Drawn by: PDS	Figure 1

Essenes Environmental Inc., 5500 Burnside Rd., Sebastopol CA 95472



Boring Key			
● 8"Dia.	2/17/93	ESSENES ENVIRONMENTAL, INC. 5500 Burnside Road Sebastopol, CA 95472 707-829-9331	**BALCH ENTERPRISES, INC.** **Hohener Property** **1384 Ruus Lane** **Hayward, California**
⊕ 3"Dia.	2/17/93		
X	5/5/93		

Project No. 033-008-01	Date: 2/18/93	Drawn by: ML	Plan View

Table 1- Summary of Laboratory Data - Soils
Hohener Property
1384 Ruus Lane
Hayward, California
Sample Date: 2/17/93

Sample I.D.	Depth	TPH-k	TPH-D	TPH-mo	Purg. Hal.	TPH-g	B-T-E-X	Chl. Pest.
	ft	ppm	ppm	ppm	ppb	ppm	ppb	ppb
B-1-1	0-0.5	ND	ND	93	ND	ND	ND-ND-ND-ND	ND
B-2-1	0-0.5	ND	ND	14	ND	ND	ND-ND-ND-ND	ND
B-3-1	0-0.5	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-4-1	0-0.5	ND	ND	31	ND	ND	ND-ND-ND-ND	ND
B-5-1	0-0.5	ND	ND	21	ND	ND	ND-10-8.7-58	ND
B-6-1	0-0.5	5.5	60*	230	ND	ND	ND-ND-ND-ND	7.3 p,p' methyoxychlor
B-7-1	0-0.5	ND	ND	26	ND	ND	ND-ND-ND-ND	ND
B-8-1	0-0.5	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-1A-6	0-0.5	ND	ND	140	ND	ND	ND-ND-ND-ND	2.7 dieldrin; 1.2 p,p'- DDE; 77 chlorodane
B-1-A-11.0-11.5	11.0-11.5	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-2 A-6	0-0.5	ND	3	26	ND	ND	ND-ND-ND-ND	ND
B-2-A-10.5-11.0	10.5-11.0	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-3 A-6	0-0.5	ND	ND	25	ND	ND	ND-ND-ND-ND	ND
B-3-A-10.5-11.0	10.5-11.0	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-4 A-6	0-0.5	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-4-A-11.0-11.5	11.0-11.5	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND

*= unknown hydrocarbon on diesel range

Table 2- Summary of Laboratory Data - Metals
Hohener Property
1384 Ruus Lane
Hayward, California
Sample Date: 2/17/93

Sample I.D.	Depth ft	Sb ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Pb ppm	Hg ppm	Mo ppm	Ni ppm	Se ppm	Ab ppm	Tl ppm	V ppm	Zn ppm
B-1-1	0-0.5	2.5	5.2	104	0.44	ND	11	24	45	140	0.11	ND	40	ND	ND	ND	39	120
B-2-1	0-0.5	1.2	5.2	83	0.40	ND	9.1	22	17	11	ND	ND	36	ND	ND	ND	23	29
B-3-1	0-0.5	1.3	4.3	100	0.51	ND	11	24	60	22	0.12	ND	41	ND	ND	ND	54	58
B-4-1	0-0.5	1.6	1.0	106	0.42	ND	12	17	52	36	0.14	ND	36	ND	ND	ND	34	77
B-5-1	0-0.5	1.1	10	91	0.40	ND	13	28	68	42	0.89	ND	43	ND	ND	ND	46	220
B-6-1	0-0.5	ND	ND	70	0.40	ND	16	60	72	15	0.15	ND	ND	ND	ND	ND	30	43
B-7-1	0-0.5	ND	7.4	91	0.42	ND	11	27	46	14	0.059	ND	38	ND	ND	ND	30	73
B-8-1	0-0.5	ND	7.8	114	0.74	ND	18	8.3	87	39	0.26	ND	31	ND	ND	ND	105	101
B-1A-6	0-0.5	1.6	3.7	91	0.47	ND	12	41	36	35	0.12	ND	39	ND	ND	ND	43	60
B-1-A-11.0-11.5	11.0-11.5	ND	1.7	89	0.19	ND	5.3	27	18	6.1	ND	ND	28	ND	ND	ND	31	33
B-2 A-6	0-0.5	1.1	1.5	68	0.29	ND	11	22	39	61	0.14	ND	31	ND	ND	ND	23	107
B-2-A-10.5-11.0	10.5-11.0	1.2	6.1	92	0.40	ND	9.6	24	20	8.9	ND	ND	41	ND	ND	ND	20	36
B-3 A-6	0-0.5	2.2	6.5	66	0.34	ND	11	37	67	44	0.15	ND	64	ND	ND	ND	32	170
B-3-A-10.5-11.0	10.5-11.0	1.6	5.1	96	0.33	ND	8.5	23	20	9.6	ND	ND	37	ND	ND	ND	17	300
B-4 A-6	0-0.5	ND	2.4	150	0.70	ND	20	68	61	14	0.24	ND	102	ND	ND	ND	72	62
B-4-A-11.0-11.5	11.0-11.5	1.3	ND	95	0.38	ND	9.6	22	20	9	ND	ND	43	ND	ND	ND	24	35
TTLC- (ppm)		500.0	500.0	10000	75.00	100	8000	500	2500	1000	20	3500	2000	100	500	700	2400	5000

Table 3- Summary of Laboratory Data - Groundwater
Hohener Property
1384 Ruus Lane
Hayward, California

Sample I.D.	Sample Date	TPH-k ppb	TPH-D ppb	TPH-mo ppb	Purg. Hal. ppb	TPH-g ppb	B-T-E-X ppb	Chl. Pest. ppb
B-1 A-AQ	2/17/93	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-2-A-AQ	2/17/93	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-3 A-AQ	2/17/93	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND
B-4 A-AQ	2/17/93	ND	ND	ND	ND	ND	ND-ND-ND-ND	ND

Table 4- Summary of Laboratory Data - Groundwater: Metals
Hohener Property
1384 Ruus Lane
Hayward, California
Sample Date: 2/17/93

Sample I.D.	Depth ft	Sb ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Pb ppm	Hg ppm	Mo ppm	Ni ppm	Se ppm	Ab ppm	Tl ppm	V ppm	Zn ppm
B-1A-AQ	0-0.5	ND	ND	0.07	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.03	0.02
B-2A-AQ	0-0.5	ND	0.01	0.07	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.03	0.03
B-3A-AQ	0-0.5	ND	ND	0.11	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.02	0.02
B-4A-AQ	0-0.5	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
STLC- (ppm)		15.0	5.0	100	0.75	1	80	5	25	5	0.2	350	20	1	5	7	24	250

11-12'

ABBREVIATIONS USED IN THE TABLES

ppb= parts per billion
ppm= parts per million
TPH-d= total petroleum hydrocarbons as diesel
TPH-g= total petroleum hydrocarbons as gasoline
TPH-k= total petroleum hydrocarbons as kerosene
TPH-mo= total petroleum hydrocarbons as motor oil
Chl. Pest.= chlorinated pesticides
Purg. Hal.= purgeable halocarbons
B= benzene
T= toluene
E= ethylbenzene
X= xylenes
Sb= antimony
As= arsenic
Ba= barium
Be= beryllium
Cd= cadmium
Co= cobalt
Cr= chromium
Cu= copper
Pb= lead
Hg= mercury
Mo= molybdenum
Ni= nickel
Se= selenium
Ag= silver
Tl= thallium
V= vanadium
Zn= zinc
NA= not analyzed
ND= below measured laboratory detection level

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600 FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Hohener Property
1384 Russ Lane
Hayward CA

CLIENT
Name Dennis Judd
Address 1 Essex Ent. Phone 707-829-9331
City 5500 Bonneville Rd Zip 95472
Sebastopol CA

APPLICANT
Name Jim Jacobs
Artesian Environmental Consultants
Address 3175 Kerner Blvd E Phone 415-257-4801
City San Rafael CA Zip 94901

TYPE OF PROJECT
Well Construction
Cathodic Protection ___
Water Supply ___
Monitoring ___
Soil boring to 9 to 20 feet
Geotechnical Investigation
General X
Contamination ___
Well Destruction ___

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other None
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C-629461 (C-57)

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter None in. Depth 20 ft.
Surface Seal Depth ___ ft. Number 12
grout w/ neat cement

GEOTECHNICAL PROJECTS
Number of Borings 12 Maximum
Hole Diameter 8 in. Depth 20' ft.

ESTIMATED STARTING DATE 2/12/93
ESTIMATED COMPLETION DATE 2/12/93

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] Date 2/10/93

FOR OFFICE USE

PERMIT NUMBER 93067
LOCATION NUMBER ___

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
(3.) Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 10 Feb 93
Wyman Hong

file - Essenes Aliquot

MISSION DIVISION
24300 CLAWITER RD
HAYWARD CA 94545

02-12-93

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BL STE "E"
SAN RAFAEL, CA 94901

Dear Customer,

Thank you for notifying us and other utilities through Underground Service Alert (USA) of your intent to work in the vicinity of our underground facilities. Surface markings have been, or will be, provided at the work site.

The material contained in this letter shall apply to all your jobs in our service area which may involve our facilities.

Pacific Gas and Electric Company exercises due care in making these surface markings as complete and accurate as reasonably possible. However, because of the nature of underground construction, the precise location of underground facilities can only be determined by you through careful probing or hand digging in compliance with Article 6 of the California Occupational Safety and Health Administration (Cal/OSHA) Construction Safety Orders.

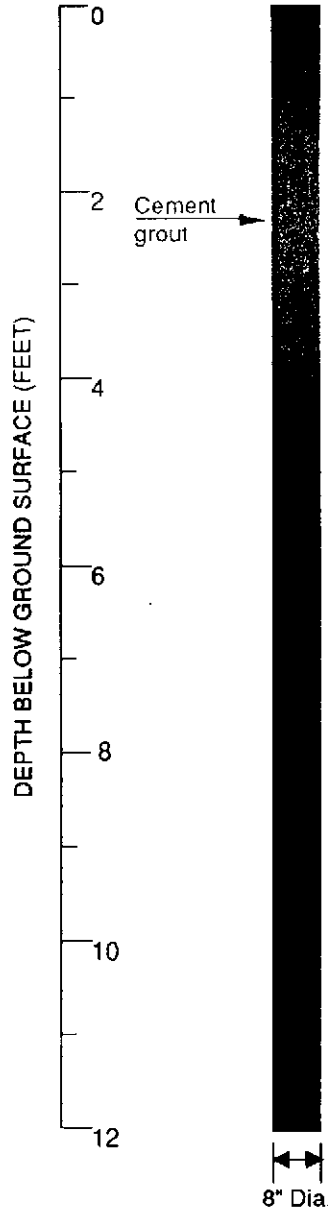
USA markings are only valid for 14 days; therefore, please renew your request with USA every 2 week period until the project is complete. We would like to emphasize the requirement for notifying USA at least two working days prior to the start of the actual construction.

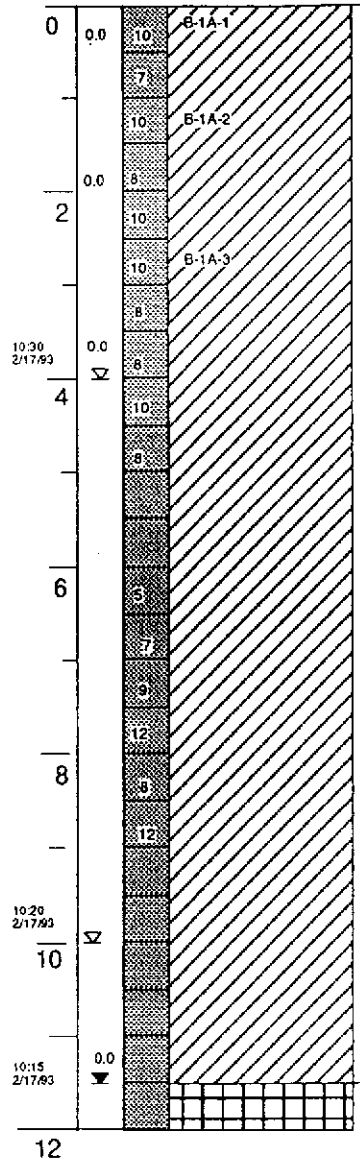
If you have any questions concerning USA, please call Don Baker at (510) 784-3227.

Thank you for your cooperation.

Sincerely,

IRENE DEGL'INNOCENTI
DIVISION GAS ENGINEER





DESCRIPTION

Gravels silty sand, black, moist.

Silty sandy clay, brown to black(CL).

Clayey sand, brown, moist(CL).

Silty clay, minor gravel, brown, moist, no odor, minor sand lenses(CL).

Lite brown sandy clay, increasing sand(CL).

Lite brown sandy clay, increasing sand(CL).

Moisture, standing water @ 10:20.

Brown sandy clay, moist(CL). Saturated zone 11.5Ft. @10:15.

Brown clayey, silty sand(SC).

Logged By:	Tom Magney	Drilling Company:	Guess Drilling	Well Head Completion:	None
Inspector:		Drilling Method:	Mobile B-S3	Type of Sampler:	California Split Spoon
Dates Drilled:	2/17/93	Driller:	Ed Svoboda	TD(Total Depth):	15Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

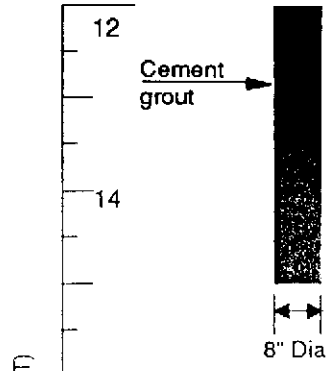
Boring B-1A
Balch Enterprises
1362 Russ Lane
Hayward California

BORING

B-1A

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01



DEPTH BELOW GROUND SURFACE (FEET)

PID (ppmv)	Blow Counts	GRAPHIC LOG	DESCRIPTION
			Brown clayey, silty sand(SC).
			Boring terminated at 15Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K: Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR: No recovery

Boring Log and Well Completion Details

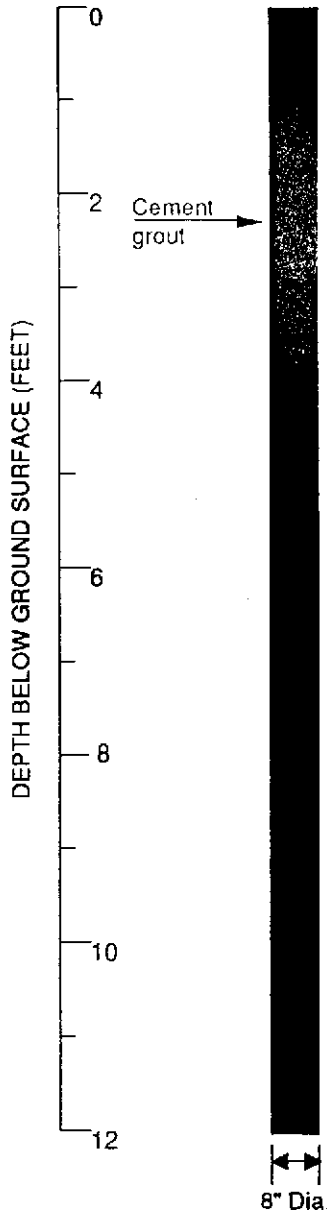
Boring B-1A
Balch Enterprises
1362 Russ Lane
Hayward California

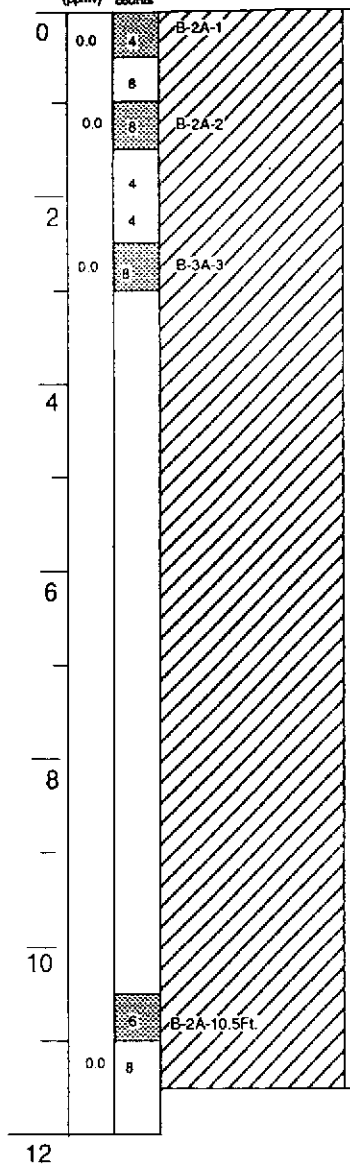
Boring

B-1A

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





GRAPHIC LOG

DESCRIPTION

Silty sand, with gravel and some asphalt chunks to 1/2" Dia. contains organic matter.

Silty clay, brown, moist, tight, light grey to brown.(CL).

Silty clay, minor gravel, brown, moist, no odor, minor sand lenses(CL).

Silty clayey sand, brown, fine grained, wet.

Boring teminated @11.5Ft.

Logged By:	Tom Magney	Drilling Company:	Guess Drilling	Well Head Completion:	None
Inspector:		Drilling Method:	Mobile B-S3	Type of Sampler:	California Split Spoon
Dates Drilled:	2/17/93	Driller:	Ed Svoboda	TD(Total Depth):	11.5Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

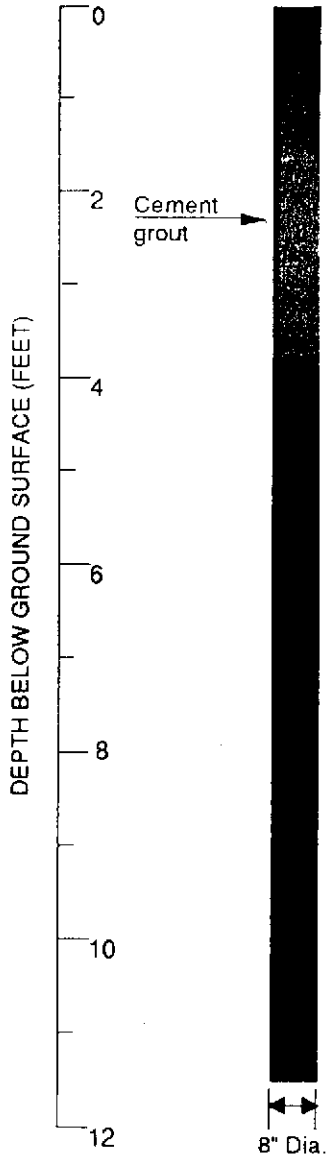
Boring B-2A
Balch Enterprises
1362 Russ Lane
Hayward California

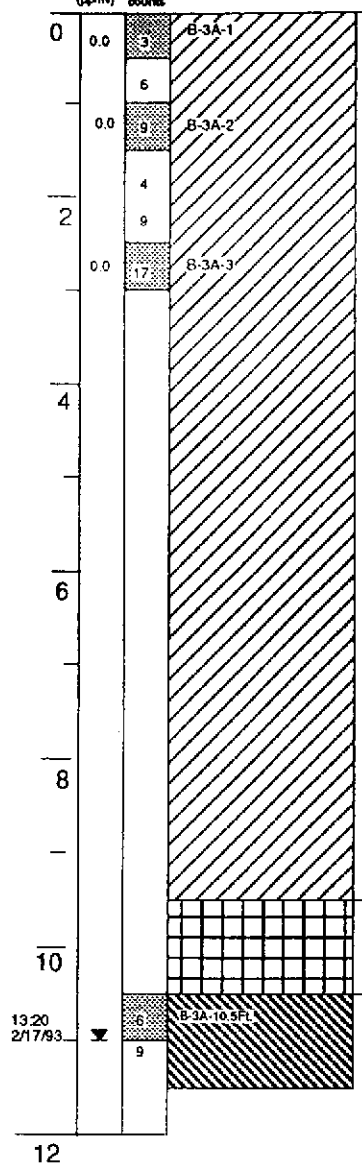
BORING

B-2A

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Gravelly sand, some asphalt pieces organic material(grass roots) moist coarse silty sand, brown, wet(CL).

Brown sandy silty clay interlayered with black sandy silty clay(CL).

Greyish brown clayey sand(SC)

Brown clayey silty sand(SM)

Saturated

Boring terminated @11.5ft.

Logged By: Tom Magney	Drilling Company: Guess Drilling.	Well Head Completion: None	
Inspector:	Drilling Method: Mobile B-S3	Type of Sampler: California Split Spoon	
Dates Drilled: 2/17/93	Driller: Ed Svoboda	TD(Total Depth): 11.5Ft.	

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

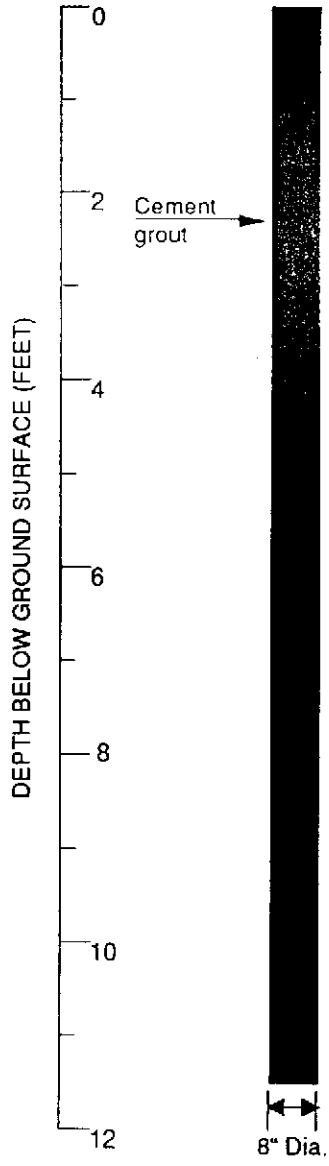
Boring B-3A
Balch Enterprises
1362 Russ Lane
Hayward California

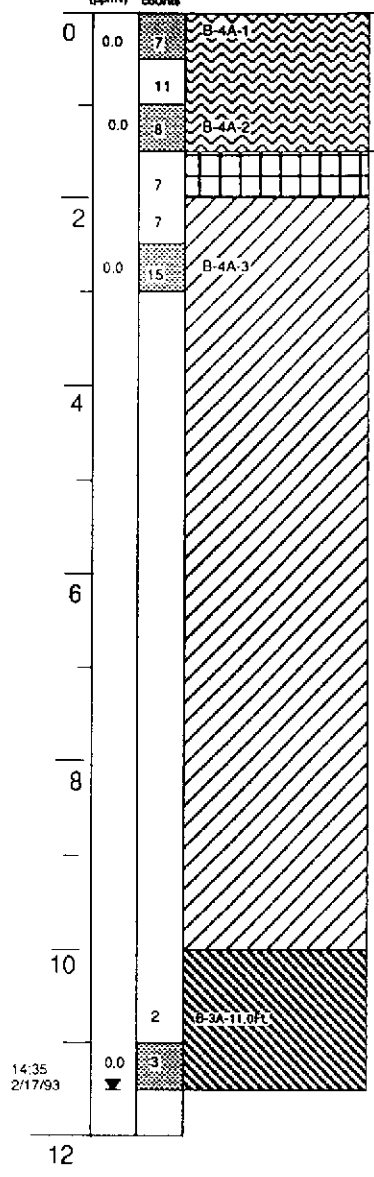
BORING

B-3A

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Black clayey silty sand, gravel, moist (GM), well graded, organic debris, no odor.

Black clayey sand(SC) moist.

Black sandy clay(CL) sand very fine grained.

Brown sandy clay(CL), moist, medium plasticity. Alternates with black silty, sandy clay(CL) of high plasticty.

Brown clayey silty sand(SM)

Brown clayey sand(SC) fine grained wet.

Boring terminated @11.5Ft.

Logged By: Tom Magney	Drilling Company: Guess Drilling	Well Head Completion: None	
Inspector:	Drilling Method: Mobile B-S3	Type of Sampler: California Split Spoon	
Dates Drilled: 2/17/93	Driller: Ed Svoboda	TD(Total Depth): 11.5Ft.	

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

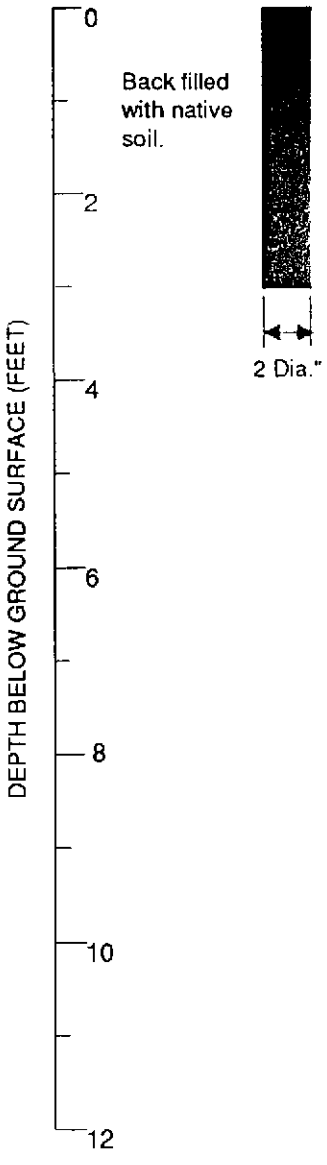
Boring B-4A
Balch Enterprises
1362 Russ Lane
Hayward California

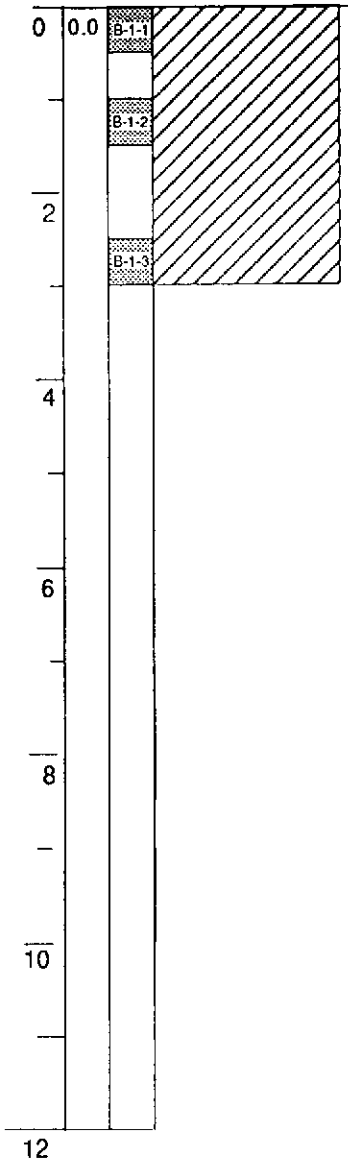
BORING

B-4A

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Yellow, brown , silty, gravelly, clay (CL), moist.

Boring terminated at 3 Ft.

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

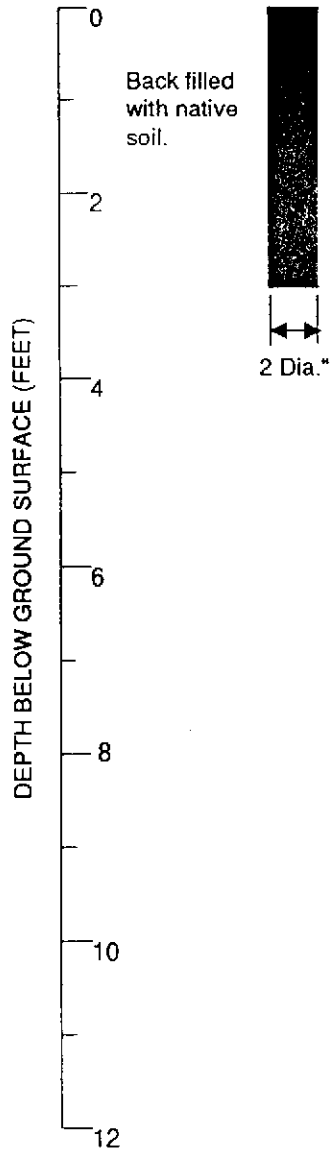
Boring B-1
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

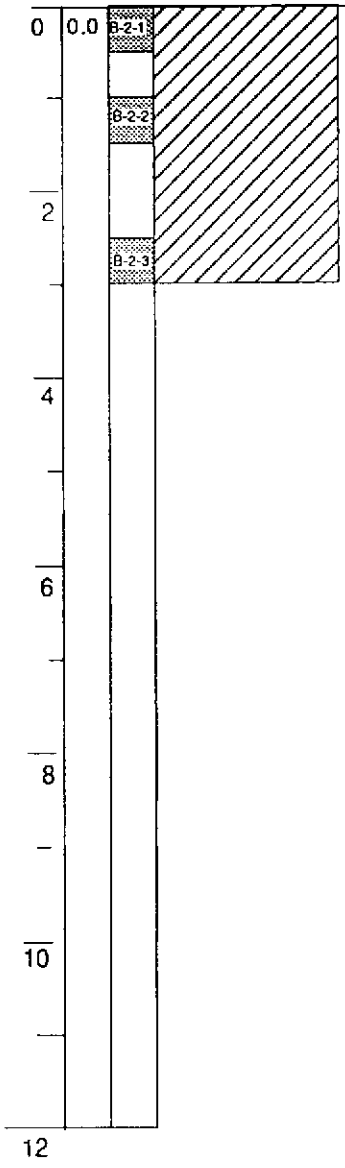
BORING

B-1

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn 2/17/93 | By ML | 033-008-01





DESCRIPTION

Yellow, brown , silty, gravelly, clay(CL), moist.

Boring terminated at 3 Ft.

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

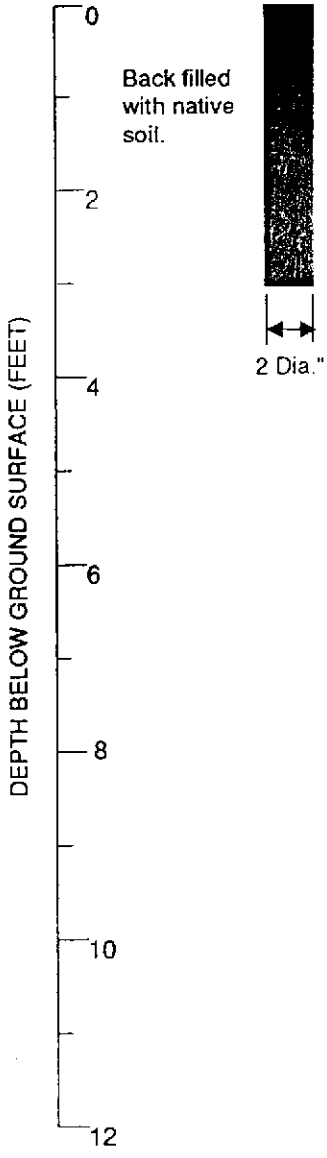
Boring B-2
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

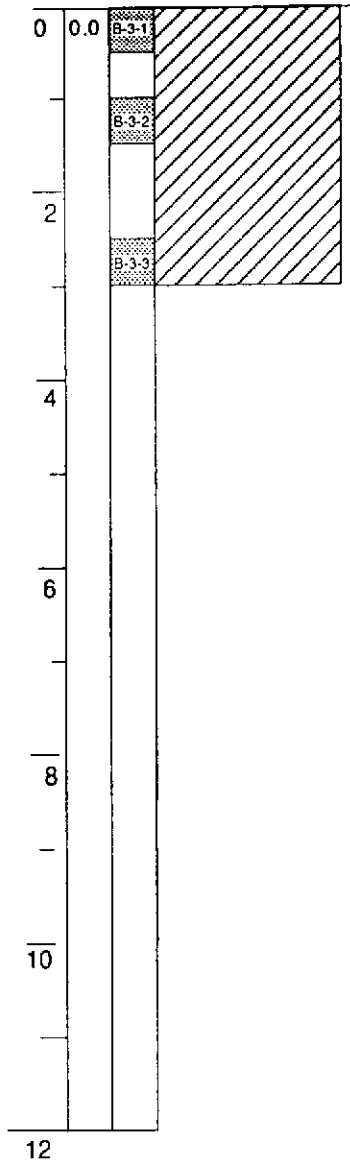
BORING

B-2

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Brown, black , silty, gravelly, clay (CL), moist.

Boring terminated at 3 Ft.

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

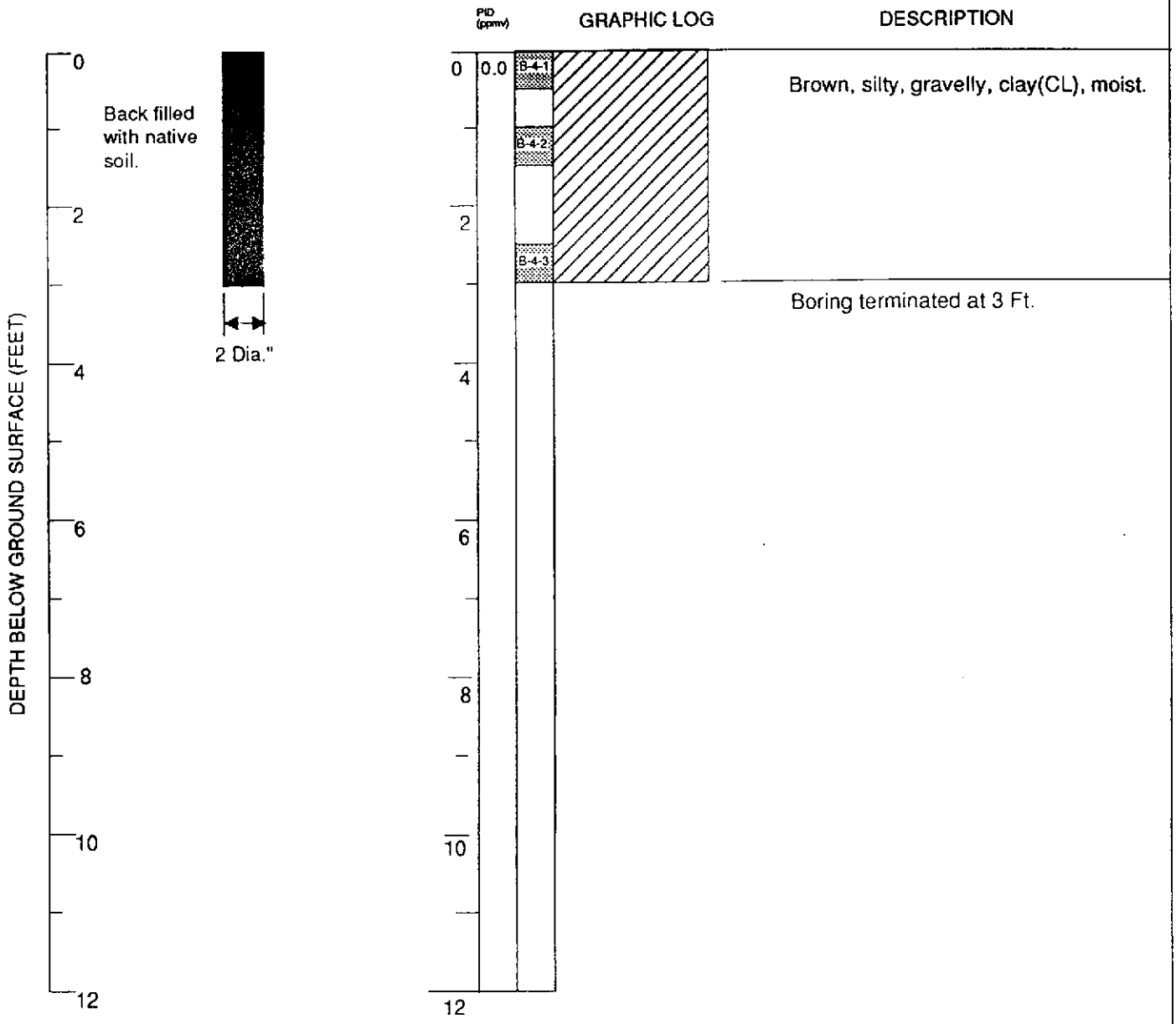
Boring B-3
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

BORING

B-3

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01



Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

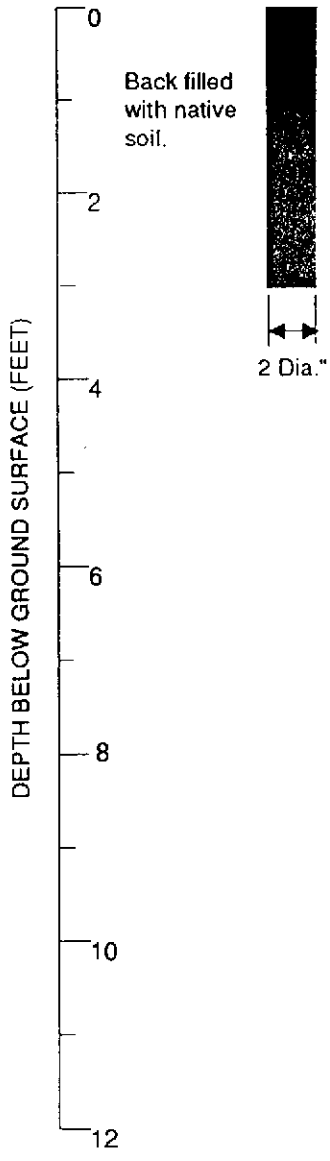
Boring B-4
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

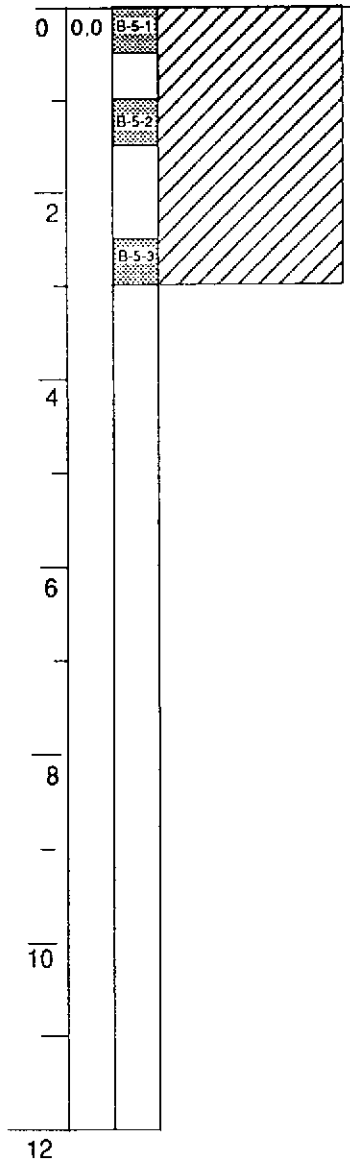
BORING

B-4

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Brown, black, silty, gravelly, clay (CL), moist.

Boring terminated at 3 Ft.

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

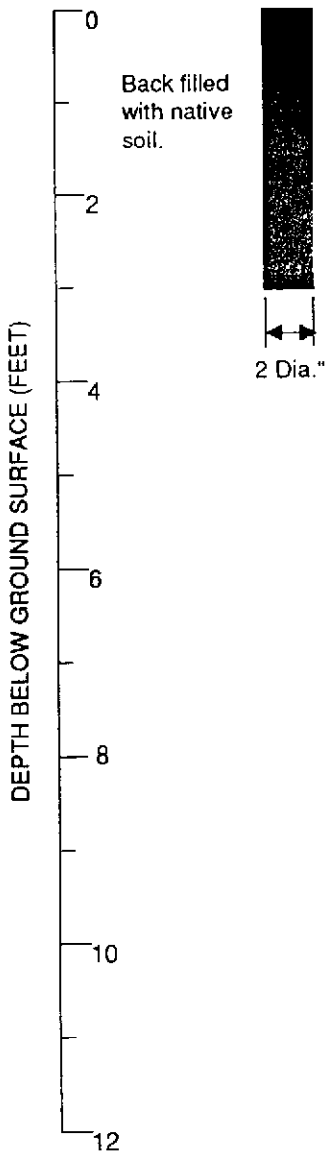
Boring B-5
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

BORING

B-5

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01



PID (ppmv)	GRAPHIC LOG	DESCRIPTION
0.0	B-6-1, B-6-2, B-6-3	Brown, black,silty,gravelly, clay(CL), moist.
		Boring terminated at 3 Ft.

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3Fft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

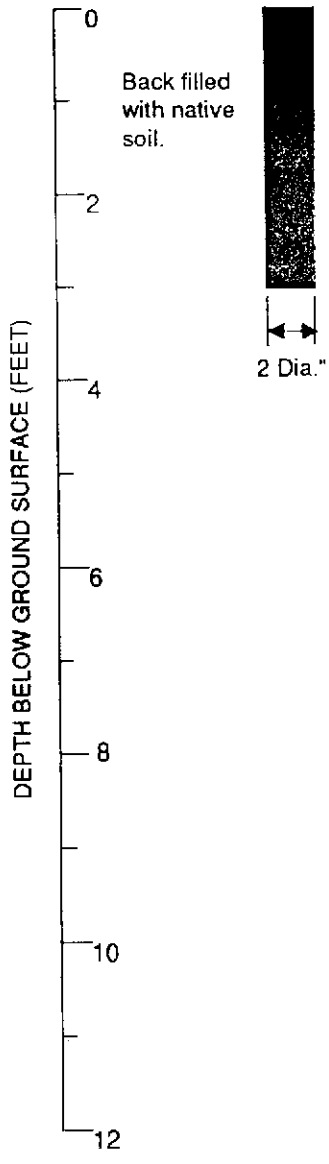
Boring B-6
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

BORING

B-6

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01



PID (ppmv)	GRAPHIC LOG	DESCRIPTION
0.0	B-7-1, B-7-2, B-7-3	Brown, black, silty, gravelly, clay(CL), moist.
		Boring terminated at 3 Ft.

Pg 1 of 1

Logged By:	Tom Magney	Drilling Company:	Artesian Environmental Con.	Well Head Completion:	None
Inspector:		Drilling Method:	Hand Auger	Type of Sampler:	Slide Hammer Samplecup
Dates Drilled:	2-17-93	Driller:	Mason Latch	TD(Total Depth):	3 Ft.

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

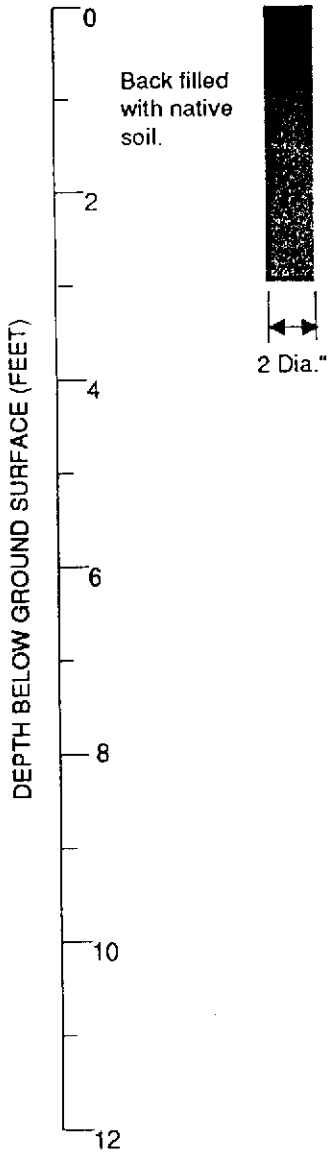
Boring B-7
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

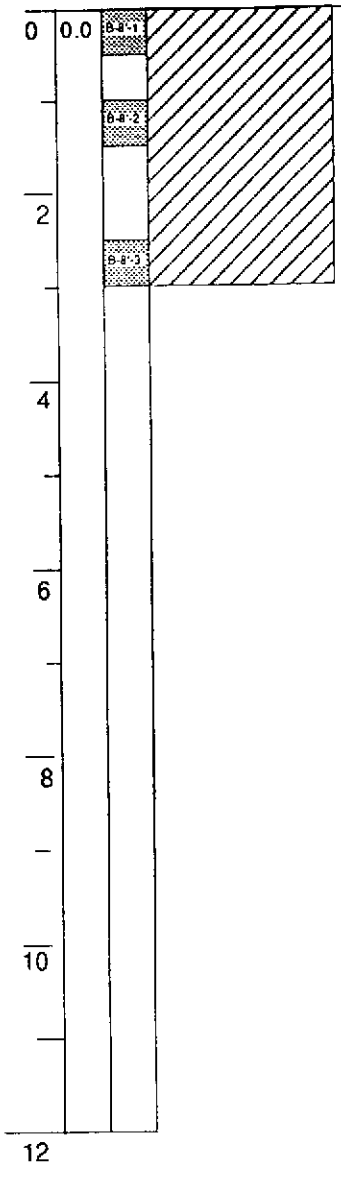
BORING

B-7

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01





DESCRIPTION

Brown, black, silty,gravelly, clay(CL), moist.

Boring terminated at 3Ft.

Logged By: Tom Magney	Drilling Company: Artesian Environmental Con.	Well Head Completion: None	
Inspector:	Drilling Method: Hand Auger	Type of Sampler: Slide Hammer Samplecup	
Dates Drilled: 2-17-93	Driller: Mason Latch	TD(Total Depth): .5 Ft.	

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample

Contacts:
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational

- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

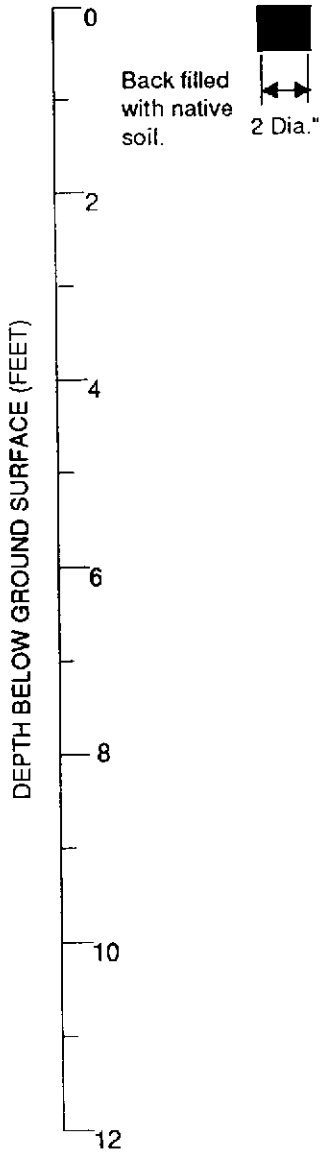
Boring B-8
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

BORING

B-8

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01



PID (ppmv)	GRAPHIC LOG	DESCRIPTION
0.0		Brown, black, silty, gravelly, moist (CL).
		Resistance met at 6 inch.

Logged By: Tom Magney	Drilling Company: Artesian Environmental Con.	Well Head Completion: None	
Inspector:	Drilling Method: Hand Auger	Type of Sampler: Slide Hammer Samplecup	
Dates Drilled: 2-17-93	Driller: Mason Latch	TD(Total Depth): 0.5 Ft.	

EXPLANATION

- Water level in completed well
- Water level during drilling
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K — Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR — No recovery

Boring Log and Well Completion Details

Boring B-8'
Balch Enterprises, Inc.
1384 Russ Lane
Hayward, CA

BORING

B-8'

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BLVD. SAN RAFAEL, CALIFORNIA 94941 (415) 257-4801

Date drawn	By	
2/17/93	ML	033-008-01

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

KEY TO LOG OF BORINGS

SAMPLES & BLOWCOUNTS

30 — HAMMER BLOWS PER FOOT OF PENETRATION

■ INDICATES UNDISTURBED SAMPLE

⊠ INDICATES DISTURBED SAMPLE

◪ STANDARD PENETRATION TEST SAMPLE

NR - INDICATES NO RECOVERY

SAMPLES DRIVEN WITH A 140-POUND HAMMER DROPPING 30 INCHES

LABORATORY TESTS

AL	ATTERBERG LIMITS TEST
DSCU	DIRECT SHEAR TEST (Consolidated, Undrained)
CBR	CALIFORNIA BEARING RATIO TEST
COMP	COMPACTION TEST
CON	CONFINED COMPRESSION (Consolidation Test)
-200	PERCENT PASSING NO. 200 SIEVE (Test Results in Parentheses)

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: Sixteen soil samples for Gasoline and BTEX analysis

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS:

Sample I.D.	Gasoline (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)
B-1-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-2-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-3-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-4-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-5-1	N.D.	N.D.	10	8.7	58
B-6-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-7-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-8-1	N.D.	N.D.	N.D.	N.D.	N.D.
B-1A-6	N.D.	N.D.	N.D.	N.D.	N.D.
B-1A-11.0-11.5	N.D.	N.D.	N.D.	N.D.	N.D.
B-2A-6	N.D.	N.D.	N.D.	N.D.	N.D.
B-2A-10.5-11.0	N.D.	N.D.	N.D.	N.D.	N.D.
B-3A-6	N.D.	N.D.	N.D.	N.D.	N.D.
B-3A-10.5-11.0	N.D.	N.D.	N.D.	N.D.	N.D.
B-4A-6	N.D.	N.D.	N.D.	N.D.	N.D.
B-4A-11.0-11.5	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	108%	98%	99%	91%	91%
DUP SPIKE RECOVERY	----	98%	96%	93%	93%
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/8015	8020	8020	8020	8020

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

cc

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File No.: 0293186

ESSENES

RE: Four water samples for Gasoline and BTEX analysis

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Analyzed: Feb. 23, 1993

Date Submitted: Feb. 18, 1993

RESULTS:

Sample I.D.	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
B-1A-AQ	N.D.	N.D.	N.D.	N.D.	N.D.
B-2A-AQ	N.D.	N.D.	N.D.	N.D.	N.D.
B-3A-AQ	N.D.	N.D.	N.D.	N.D.	N.D.
B-4A-AQ	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	96%	98%	98%	90%	93%
DUP SPIKE RECOVERY	---	96%	98%	93%	95%
DETECTION LIMIT	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/8015	602	602	602	602

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File No.: 0293186
(REVISED)

ESSENES

RE: Sixteen soil samples for TEPH analysis

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993
Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS:

Sample I.D.	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
B-1-1	N.D.	N.D.	93
B-2-1	N.D.	N.D.	14
B-3-1	N.D.	N.D.	N.D.
B-4-1	N.D.	N.D.	31
B-5-1	N.D.	N.D.	21
B-6-1	5.5	60*	230
B-7-1	N.D.	N.D.	26
B-8-1	N.D.	N.D.	N.D.
B-1A-6	N.D.	N.D.	140
B-1A-11.0-11.5	N.D.	N.D.	N.D.
B-2A-6	N.D.	3.0	26
B-2A-10.5-11.0	N.D.	N.D.	N.D.
B-3A-6	N.D.	N.D.	25
B-3A-10.5-11.0	N.D.	N.D.	N.D.
B-4A-6	N.D.	N.D.	N.D.
B-4A-11.0-11.5	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.
SPIKE RECOVERY	---	90%	---
DUP SPIKE RECOVERY	---	93%	---
DETECTION LIMIT	1.0	1.0	10.0
METHOD OF ANALYSIS	3550/8015	3550/8015	3550/8015

* Unknown hydrocarbon found on diesel range quantified as diesel.

ChromaLab, Inc.

Yiu Tam
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: Four water samples for TEPH analysis

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Extracted: Feb. 24, 1993 Date Analyzed: Feb. 24, 1993

RESULTS:

Sample I.D.	Kerosene (µg/L)	Diesel (µg/L)	Motor Oil (mg/L)
B-1A-AQ	N.D.	N.D.	N.D.
B-2A-AQ	N.D.	N.D.	N.D.
B-3A-AQ	N.D.	N.D.	N.D.
B-4A-AQ	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.
SPIKE RECOVERY	---	87%	---
DUP SPIKE RECOVERY	---	93%	---
DETECTION LIMIT	50	50	0.5
METHOD OF ANALYSIS	3510/8015	3510/8015	3510/8015

ChromaLab, Inc.

Yiu Tam
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 A

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.:B-7-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

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Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 B

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-8-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 C

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-1A-6

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 D

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-1A-11.0-11.5

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 — ChromaLab File # 0293186 E

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-2A-6

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 F

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-2A-10.5-11.0

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 G

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-3A-6

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 H

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-3A-10.5-11.0

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 I

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-4A-6

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 J

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-4A-11.0-11.5

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 K

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-1-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 L

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 23, 1993
Sample I.D.: B-2-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 M

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-5-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 N

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-3-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 O

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-4-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186 P

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-6-1

Project No: 033-008-01
Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	102% 101%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 96%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	99% 91%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	104% 91%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-1A-AQ

Project No: 033-008-01
Method of Analysis: EPA 601
Matrix: Water
Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	84% 99%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	97% 104%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	93% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 99%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-2A-AQ

Project No: 033-008-01
Method of Analysis: EPA 601
Matrix: Water
Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	84% 99%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	97% 104%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	93% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 99%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-3A-AQ

Project No: 033-008-01
Method of Analysis: EPA 601
Matrix: Water
Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	84% 99%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	97% 104%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	93% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 99%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993

ChromaLab File # 0293186

ESSENES

Project Name: BALCH-HAYWARD
Date Sampled: Feb. 17, 1993
Date Submitted: Feb. 18, 1993
Date of Analysis: Feb. 24, 1993
Sample I.D.: B-4A-AQ

Project No: 033-008-01
Method of Analysis: EPA 601
Matrix: Water
Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	84% 99%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	97% 104%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	93% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 99%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-7-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	N.D.	1.00
Arsenic (As)	7.4	0.25
Barium (Ba)	91	0.25
Beryllium (Be)	0.42	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	11	0.50
Chromium (Cr)	27	0.50
Copper (Cu)	46	0.25
Lead (Pb)	14	0.50
Mercury (Hg)	0.059	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	38	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	30	0.50
Zinc (Zn)	73	0.25

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Inorganic Supersvisor

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-6-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	N.D.	1.00
Arsenic (As)	N.D.	0.25
Barium (Ba)	70	0.25
Beryllium (Be)	0.40	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	16	0.50
Chromium (Cr)	60	0.50
Copper (Cu)	72	0.25
Lead (Pb)	15	0.50
Mercury (Hg)	0.15	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	N.D.	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	30	0.50
Zinc (Zn)	43	0.25

Method of Analysis: 3050/6010/7471

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: One water sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-1A-AQ

Metals	Concentration (mg/L)	Detection Limit (mg/L)
Antimony (Sb)	N.D.	0.020
Arsenic (As)	N.D.	0.005
Barium (Ba)	0.07	0.005
Beryllium (Be)	N.D.	0.001
Cadmium (Cd)	N.D.	0.001
Cobalt (Co)	N.D.	0.01
Chromium (Cr)	N.D.	0.01
Copper (Cu)	0.01	0.005
Lead (Pb)	N.D.	0.010
Mercury (Hg)	N.D.	0.001
Molybdenum (Mo)	N.D.	0.005
Nickel (Ni)	N.D.	0.020
Selenium (Se)	N.D.	0.01
Silver (Ag)	N.D.	0.005
Thallium (Tl)	N.D.	0.01
Vanadium (V)	0.03	0.01
Zinc (Zn)	0.02	0.005

Method of Analysis: 3010/6010/7470

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: One water sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-2A-AQ

Metals	Concentration (mg/L)	Detection Limit (mg/L)
Antimony (Sb)	N.D.	0.020
Arsenic (As)	0.01	0.005
Barium (Ba)	0.07	0.005
Beryllium (Be)	N.D.	0.001
Cadmium (Cd)	N.D.	0.001
Cobalt (Co)	N.D.	0.01
Chromium (Cr)	N.D.	0.01
Copper (Cu)	0.01	0.005
Lead (Pb)	N.D.	0.010
Mercury (Hg)	N.D.	0.001
Molybdenum (Mo)	N.D.	0.005
Nickel (Ni)	N.D.	0.020
Selenium (Se)	N.D.	0.01
Silver (Ag)	N.D.	0.005
Thallium (Tl)	N.D.	0.01
Vanadium (V)	0.03	0.01
Zinc (Zn)	0.03	0.005

Method of Analysis: 3010/6010/7470

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: One water sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-3A-AQ

Metals	Concentration (mg/L)	Detection Limit (mg/L)
Antimony (Sb)	N.D.	0.020
Arsenic (As)	N.D.	0.005
Barium (Ba)	0.11	0.005
Beryllium (Be)	N.D.	0.001
Cadmium (Cd)	N.D.	0.001
Cobalt (Co)	N.D.	0.01
Chromium (Cr)	N.D.	0.01
Copper (Cu)	0.01	0.005
Lead (Pb)	N.D.	0.010
Mercury (Hg)	N.D.	0.001
Molybdenum (Mo)	N.D.	0.005
Nickel (Ni)	N.D.	0.020
Selenium (Se)	N.D.	0.01
Silver (Ag)	N.D.	0.005
Thallium (Tl)	N.D.	0.01
Vanadium (V)	0.02	0.01
Zinc (Zn)	0.02	0.005

Method of Analysis: 3010/6010/7470

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab File No.: 0293186

ESSENES

RE: One water sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-4A-AQ

Metals	Concentration (mg/L)	Detection Limit (mg/L)
Antimony (Sb)	N.D.	0.020
Arsenic (As)	N.D.	0.005
Barium (Ba)	0.06	0.005
Beryllium (Be)	N.D.	0.001
Cadmium (Cd)	N.D.	0.001
Cobalt (Co)	N.D.	0.01
Chromium (Cr)	N.D.	0.01
Copper (Cu)	N.D.	0.005
Lead (Pb)	N.D.	0.010
Mercury (Hg)	N.D.	0.001
Molybdenum (Mo)	N.D.	0.005
Nickel (Ni)	N.D.	0.020
Selenium (Se)	N.D.	0.01
Silver (Ag)	N.D.	0.005
Thallium (Tl)	N.D.	0.01
Vanadium (V)	N.D.	0.01
Zinc (Zn)	0.01	0.005

Method of Analysis: 3010/6010/7470

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-4A-11-11.5

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.3	1.00
Arsenic (As)	N.D.	0.25
Barium (Ba)	95	0.25
Beryllium (Be)	0.38	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	9.6	0.50
Chromium (Cr)	22	0.50
Copper (Cu)	20	0.25
Lead (Pb)	9.0	0.50
Mercury (Hg)	N.D.	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	43	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	24	0.50
Zinc (Zn)	35	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-1-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	2.5	1.00
Arsenic (As)	5.2	0.25
Barium (Ba)	104	0.25
Beryllium (Be)	0.44	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	11	0.50
Chromium (Cr)	24	0.50
Copper (Cu)	45	0.25
Lead (Pb)	140	0.50
Mercury (Hg)	0.11	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	40	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	39	0.50
Zinc (Zn)	120	0.25

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Inorganic Supersvisor

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-2A-6"

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.1	1.00
Arsenic (As)	1.5	0.25
Barium (Ba)	68	0.25
Beryllium (Be)	0.29	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	11	0.50
Chromium (Cr)	22	0.50
Copper (Cu)	39	0.25
Lead (Pb)	61	0.50
Mercury (Hg)	0.14	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	31	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	23	0.50
Zinc (Zn)	107	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-2A-10.5-11

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.2	1.00
Arsenic (As)	6.1	0.25
Barium (Ba)	92	0.25
Beryllium (Be)	0.40	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	9.6	0.50
Chromium (Cr)	24	0.50
Copper (Cu)	20	0.25
Lead (Pb)	8.9	0.50
Mercury (Hg)	N.D.	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	41	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	20	0.50
Zinc (Zn)	36	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-3A-6"

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	2.2	1.00
Arsenic (As)	6.5	0.25
Barium (Ba)	66	0.25
Beryllium (Be)	0.34	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	11	0.50
Chromium (Cr)	37	0.50
Copper (Cu)	67	0.25
Lead (Pb)	44	0.50
Mercury (Hg)	0.15	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	64	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	32	0.50
Zinc (Zn)	170	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-3A-10.5-11.0

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.6	1.00
Arsenic (As)	5.1	0.25
Barium (Ba)	96	0.25
Beryllium (Be)	0.33	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	8.5	0.50
Chromium (Cr)	23	0.50
Copper (Cu)	20	0.25
Lead (Pb)	9.6	0.50
Mercury (Hg)	N.D.	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	37	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	17	0.50
Zinc (Zn)	300	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-4A-6"

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	N.D.	1.00
Arsenic (As)	2.4	0.25
Barium (Ba)	150	0.25
Beryllium (Be)	0.70	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	20	0.50
Chromium (Cr)	68	0.50
Copper (Cu)	61	0.25
Lead (Pb)	14	0.50
Mercury (Hg)	0.24	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	102	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	72	0.50
Zinc (Zn)	62	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-8-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	N.D.	1.00
Arsenic (As)	7.8	0.25
Barium (Ba)	114	0.25
Beryllium (Be)	0.74	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	18	0.50
Chromium (Cr)	8.3	0.50
Copper (Cu)	87	0.25
Lead (Pb)	39	0.50
Mercury (Hg)	0.26	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	31	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	105	0.50
Zinc (Zn)	101	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-1A-6"

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.6	1.00
Arsenic (As)	3.7	0.25
Barium (Ba)	91	0.25
Beryllium (Be)	0.47	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	12	0.50
Chromium (Cr)	41	0.50
Copper (Cu)	36	0.25
Lead (Pb)	35	0.50
Mercury (Hg)	0.12	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	39	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	43	0.50
Zinc (Zn)	60	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-1A-11.-11.5

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	N.D.	1.00
Arsenic (As)	1.7	0.25
Barium (Ba)	89	0.25
Beryllium (Be)	0.19	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	5.3	0.50
Chromium (Cr)	27	0.50
Copper (Cu)	18	0.25
Lead (Pb)	6.1	0.50
Mercury (Hg)	N.D.	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	28	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	31	0.50
Zinc (Zn)	33	0.25

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-2-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.2	1.00
Arsenic (As)	5.2	0.25
Barium (Ba)	83	0.25
Beryllium (Be)	0.40	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	9.1	0.50
Chromium (Cr)	22	0.50
Copper (Cu)	17	0.25
Lead (Pb)	11	0.50
Mercury (Hg)	N.D.	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	36	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	23	0.50
Zinc (Zn)	29	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-3-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.3	1.00
Arsenic (As)	4.3	0.25
Barium (Ba)	100	0.25
Beryllium (Be)	0.51	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	11	0.50
Chromium (Cr)	24	0.50
Copper (Cu)	60	0.25
Lead (Pb)	22	0.50
Mercury (Hg)	0.12	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	41	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	54	0.50
Zinc (Zn)	58	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-4-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.6	1.00
Arsenic (As)	1.0	0.25
Barium (Ba)	106	0.25
Beryllium (Be)	0.42	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	12	0.50
Chromium (Cr)	17	0.50
Copper (Cu)	52	0.25
Lead (Pb)	36	0.50
Mercury (Hg)	0.14	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	36	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	34	0.50
Zinc (Zn)	77	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1993 ChromaLab file number: 0293186

ESSENES

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Received: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993

RESULTS: Sample I.D.: B-5-1

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	1.1	1.00
Arsenic (As)	10	0.25
Barium (Ba)	91	0.25
Beryllium (Be)	0.40	0.05
Cadmium (Cd)	N.D.	0.05
Cobalt (Co)	13	0.50
Chromium (Cr)	28	0.50
Copper (Cu)	68	0.25
Lead (Pb)	42	0.50
Mercury (Hg)	0.89	0.05
Molybdenum (Mo)	N.D.	0.25
Nickel (Ni)	43	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	N.D.	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	46	0.50
Zinc (Zn)	220	0.25

Method of Analysis: 3050/6010/7471

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 26, 1993 ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993 Date Submitted: Feb. 18, 1993
Date Extracted: Feb. 23, 1993 Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-1-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-2-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-3-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-4-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-5-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-6-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	7.3	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-7-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-8-1

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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February 26, 1993

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ESSENES

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Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-1A-6

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	2.7	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	1.2	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	77	5

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Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-1A-11.0-11.5

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p′ - DDT	N.D.	5
p,p′ - DDE	N.D.	1
p,p′ - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p′ - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

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Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-2A-6

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-2A-10.5-11.0

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-3A-6

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

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Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-3A-10.5-11.0

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

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Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-4A-6

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 23, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 23, 1993
Dilution Factor: None

Sample I.D.: B-4A-11-11.5

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/kg)	Reporting Detection Limit (µg/kg)
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 24, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993
Dilution Factor: None

Sample I.D.: B-1A-AQ

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/L)	Reporting Detection Limit (µg/L)
ALDRIN	N.D.	.10
DIELDRIN	N.D.	.10
ENDRIN ALDEHYDE	N.D.	.50
ENDRIN	N.D.	.10
HEPTACHLOR	N.D.	.10
HEPTACHLOR EPOXIDE	N.D.	.10
p,p' - DDT	N.D.	.50
p,p' - DDE	N.D.	.10
p,p' - DDD	N.D.	.50
ENDOSULFAN I	N.D.	.50
ENDOSULFAN II	N.D.	.50
α - BHC	N.D.	.10
β - BHC	N.D.	.10
γ - BHC (LINDANE)	N.D.	.10
δ - BHC	N.D.	.10
ENDOSULFAN SULFATE	N.D.	.50
p,p' - METHOXYCHLOR	N.D.	.50
TOXAPHENE	N.D.	.50
PCB'S	N.D.	.50
CHLORDANE	N.D.	.50

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5 DAYS TURNAROUND

February 26, 1993

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ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 24, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993
Dilution Factor: None

Sample I.D.: B-2A-AQ

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/L)	Reporting Detection Limit (µg/L)
ALDRIN	N.D.	.10
DIELDRIN	N.D.	.10
ENDRIN ALDEHYDE	N.D.	.50
ENDRIN	N.D.	.10
HEPTACHLOR	N.D.	.10
HEPTACHLOR EPOXIDE	N.D.	.10
p,p' - DDT	N.D.	.50
p,p' - DDE	N.D.	.10
p,p' - DDD	N.D.	.50
ENDOSULFAN I	N.D.	.50
ENDOSULFAN II	N.D.	.50
α - BHC	N.D.	.10
β - BHC	N.D.	.10
γ - BHC (LINDANE)	N.D.	.10
δ - BHC	N.D.	.10
ENDOSULFAN SULFATE	N.D.	.50
p,p' - METHOXYCHLOR	N.D.	.50
TOXAPHENE	N.D.	.50
PCB'S	N.D.	.50
CHLORDANE	N.D.	.50

ChromaLab, Inc.

Yiu Tam
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 26, 1993

ChromaLab File No.: 0293186

ESSENES

Project Name: BALCH-HAYWARD
Project Number: 033-008-01
Date Sampled: Feb. 17, 1993
Date Extracted: Feb. 24, 1993

Date Submitted: Feb. 18, 1993
Date Analyzed: Feb. 24, 1993
Dilution Factor: None

Sample I.D.: B-3A-AQ

CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/L)	Reporting Detection Limit (µg/L)
ALDRIN	N.D.	.10
DIELDRIN	N.D.	.10
ENDRIN ALDEHYDE	N.D.	.50
ENDRIN	N.D.	.10
HEPTACHLOR	N.D.	.10
HEPTACHLOR EPOXIDE	N.D.	.10
p,p' - DDT	N.D.	.50
p,p' - DDE	N.D.	.10
p,p' - DDD	N.D.	.50
ENDOSULFAN I	N.D.	.50
ENDOSULFAN II	N.D.	.50
α - BHC	N.D.	.10
β - BHC	N.D.	.10
γ - BHC (LINDANE)	N.D.	.10
δ - BHC	N.D.	.10
ENDOSULFAN SULFATE	N.D.	.50
p,p' - METHOXYCHLOR	N.D.	.50
TOXAPHENE	N.D.	.50
PCB'S	N.D.	.50
CHLORDANE	N.D.	.50

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CHLORINATED PESTICIDE ANALYSIS

Compounds	Concentration (µg/L)	Reporting Detection Limit (µg/L)
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ENDRIN ALDEHYDE	N.D.	.50
ENDRIN	N.D.	.10
HEPTACHLOR	N.D.	.10
HEPTACHLOR EPOXIDE	N.D.	.10
p,p' - DDT	N.D.	.50
p,p' - DDE	N.D.	.10
p,p' - DDD	N.D.	.50
ENDOSULFAN I	N.D.	.50
ENDOSULFAN II	N.D.	.50
α - BHC	N.D.	.10
β - BHC	N.D.	.10
γ - BHC (LINDANE)	N.D.	.10
δ - BHC	N.D.	.10
ENDOSULFAN SULFATE	N.D.	.50
p,p' - METHOXYCHLOR	N.D.	.50
TOXAPHENE	N.D.	.50
PCB'S	N.D.	.50
CHLORDANE	N.D.	.50

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CHAIN OF CUSTODY

SAMPLERS: (Signature) Thomas Meyny

PROJECT NAME: BALCH - HAYWARD

JOB NUMBER: 033-008-01

DESCRIPTION: 14 BORING - SOIL & WATER SAMPLES

ADDRESS: 1384 ~~HOMESTEAD~~ RUUS LANE, HAYWARD CA.

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER		STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS-GAS, ~~DIESEL~~	BTX & E	VOC - EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	TEPH for MOTOR OIL/DIESEL/KEROSENE	CAM 17 METALS 8010, 8080	REMARKS
B-1-1	2/17/93		X			BORING B-1	✓							RUN
B-1-2	"		X			"	✓							HOLD
B-1-3	"		X			"	✓							HOLD
B-2-1	"		X			BORING B-2	✓							RUN
B-2-2	"		X			"	✓							HOLD
B-2-3	"		X			"	✓							HOLD
B-3-1	"		X			BORING B-3	✓							RUN
B-3-2	"		X			"	✓							HOLD
B-3-3	"		X			"	✓							HOLD
B-4-1	"		X			BORING B-4	✓							RUN
B-4-2	"		X			"	✓							HOLD
B-4-3	"		X			"	✓							↓
B-5-1	"		X			BORING B-5	✓							RUN
B-5-2	"		X			"	✓							HOLD
B-5-3	"		X			"	✓							↓
B-6-1	"		X			BORING B-6	✓	✓			✓	✓	✓	RUN

RELINQUISHED BY: (Signature) Thomas Meyny	DATE 2/18/93 TIME 11:35	RECEIVED BY: (Signature)	DATE TIME
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 FOR LABORATORY BY: (Signature)	DATE 2-18-93 TIME 11:35

CHAIN OF CUSTODY

SAMPLERS: (Signature) Thomas Mayes

PROJECT NAME: BALCH - HAYWARD

JOB NUMBER: 033-008-01

DESCRIPTION: 14 BORINGS - SOIL & WATER SAMPLES

ADDRESS: 1384 ROOS LANE, HAYWARD CA

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS - DIESEL & GAS; BTX & E; VOC - EPA 8240; TOTAL OIL & GREASE; TETRAETHYL LEAD; TEPH for MOTOR OIL/DIESEL/KEROSENE; CAM 17 METALS 8010 + 8080

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER		STATION LOCATION	REMARKS
B-1A-6"	2/17/93	9:30	X			BORING B-1A	RUN
B-1A-18"	"	9:30	X			"	HOLD
B-1A-36"	"	9:40	X			"	↓
B-1A-11-11.5	"	10:35	X			"	RUN
B-2A-6"	"	11:10	X			BORING B2A	RUN
B-2A-18"	"	11:10	X			"	HOLD
B-2A-36"	"	11:10	X			"	↓
B-2A-10.5-11	"	11:30	X			"	RUN
B-3A-6"		13:10	X			BORING B-3A	RUN
B-3A-18"		13:10	X			"	HOLD
B-3A-36"		13:10	X			"	↓
B-3A-10.5-11.0		13:20	X			"	RUN
B-4A-6"		14:20	X			BORING B-4A	RUN
B-4A-18"		14:20	X			"	HOLD
B-4A-36"		14:25	X			"	↓
B-4A-11-11.5		14:35	X			"	RUN

RELINQUISHED BY: (Signature) Thomas Mayes	DATE 2/18/93 TIME 11:35	RECEIVED BY: (Signature)	DATE TIME
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 FOR LABORATORY BY: (Signature)	DATE 2-16-93 TIME 11:35

CHROMALAB FILE # 293186
ORDER # 10617

)DY

SAMPLERS: (Signature) Thomas Magaj

PROJECT NAME: BALCH - HAYWARD

JOB NUMBER: 033-008-01

DESCRIPTION: 14 BORINGS - SOIL & WATER SAMPLES

ADDRESS: 1384 RUUS LANE, HAYWARD CA.

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER		STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS GAS-MOBIL	BTX & E	VOC - EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	YETT MOTOR OIL/DIESEL/KEROSENE	CAM17 METALS 8010, 8080	REMARKS
B-6-2	2/17/93		X			BORING B-6	✓	✓						HOLD
B-6-3	"		X			"	✓	✓						↓
B-7-1	"		X			BORING B-7	✓	✓						RUN
B-7-2	"		X			"	✓	✓						HOLD
B-7-3	"		X			"	✓	✓						↓
B-8-1	"		X			BORING B-8 (PRIME)	✓	✓						RUN
B-8-2	"		X			"	✓	✓						HOLD
B-8-3	"		X			"	✓	✓						↓
B-8-1	"		X			BORING B-8	✓	✓						↓
B-1A-AQ	2/17/93			X										RUN
B-2A-AQ	2/17/93			X										RUN
B-3A-AQ	2/17/93			X										RUN
B-4A-AQ	2/17/93			X			✓	✓			✓	✓	✓	RUN

RELINQUISHED BY: (Signature) Thomas Magaj	DATE 2/18/93 TIME 11:35	RECEIVED BY: (Signature)	DATE TIME
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 FOR LABORATORY BY: (Signature)	DATE 2-18-93 TIME 11:35