SOIL SAMPLING REPORT

FOR

ZACCOR CORPORATION
791 HAMILTON AVENUE
MENLO PARK, CALIFORNIA

AT

RON GOODE TOYOTA
1825 PARK STREET
ALAMEDA, CALIFORNIA

PROJECT #003-163-02

PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC.

Brenda D. McNabb
Project Manager

Timothy M. Babcock
Environmental Scientist

April 30, 1991

1.0) INTRODUCTION

This report outlines the procedures and results of subsurface soil sampling carried out by Environmental Bio-Systems, Inc. (EBS) at the request of Zaccor Corporation on behalf of their client, the Estate of Bertha S. Keizer. The exploration was performed on March 21 and April 11, 1991 at 1825 Park Street in the City of Alameda, California. The purpose of the work performed was to attempt to delineate the vertical and horizontal extents of impacting constituents in the unsaturated zone surrounding the former locations of two underground storage tanks (USTs).

2.0) SITE DESCRIPTION

The Site is presently occupied by Ron Goode Toyota, a car dealership. Its location is shown on the Site Vicinity Map presented as Figure 1. Current uses of the site are predominantly related to the storage and display of new cars. According to Len Goode, general manager for Ron Goode Toyota, the present business has been in operation on the site since 1968. Prior to this time, the site was occupied by a Rambler car dealership.

Prior to December 1990, one 300 gallon waste oil UST was located just inside the warehouse portion of the building and one 500 gallon gasoline UST was located just outside the building (see Figure 2, Site Diagram). No records were provided which indicated the date of installation of the tanks or product inventory records. According to Len Goode, use of the USTs was discontinued sometime in the mid 1980's.

3.0) PREVIOUS EXPLORATIONS

In December 1990, the Estate retained Zaccor Corporation to excavate and remove the two USTs. Laboratory analysis conducted on samples collected from the soil surrounding the former waste oil UST indicated the presence of hydrocarbons in concentrations exceeding 1,000 parts per million (ppm). Such concentrations are in excess of allowable limits as defined in the guidelines of the San Francisco Regional Water Quality Control Board (RWQCB). Detectable concentrations of benzene, toluene, ethylbenzene, and xylenes were found in a sample collected from beneath the former gasoline UST. The report and follow up letter documenting tank removal sampling have been included in this report as Appendix A.

4.0) SCOPE OF WORK

EBS was retained by Zaccor Corporation to provide the following services:

- perform exploratory soil sampling at locations chosen by Zaccor Corporation to evaluate the vertical and lateral extents of impacting constituents in the unsaturated zone
- transport selected soil samples to a certified hazardous materials testing laboratory (Anametrix, Inc.) for analyses as requested
- prepare of a report describing methods, field observations, and the results of work performed

5.0) FIELD EXPLORATION

5.1) Approval of Work Plan

At the request of Zaccor Corporation, EBS submitted a Work Plan (#003-WP91016, dated March 11, 1991) describing proposed soil and groundwater explorations for review by the Alameda County Health Department (ACHD). All field work done under this scope of work was performed under the provisions of the Site Safety Plan prepared by Zaccor Corporation, dated March 21, 1991.

5.2) Soil Borings

The scope of the exploration included collecting, observing, and analyzing soil samples from borings advanced with hand augers. The proposed sampling protocol involved the advancement of borings in several initial locations chosen to approximate the limits of impacted soil where concentrations exceed allowable limits. Subsequent borings were positioned and sampled according to the observed condition of samples collected from the initial borings.

Sixty-four hand-augered soil borings were installed in positions to the north, south, east, and west of the two former tank excavations. Approximately three inches of concrete covered the entire area of exploration inside the buidling and approximately 1/2 to one inch of asphalt covered the area outside the building. Beneath the concrete, approximately six inches of fill rock was encountered. Soil beneath the fill consisted of sands and silts.

Table 1 includes a compilation of the depths at which staining and hydrocarbon odor were encountered as indicated through field observations of soil retrieved from each of the exploratory borings. The locations of site structures, the former tank pits, and the borings are shown on Figures 2, 3 and 4.

5.3) Soil Sampling Methodology

Soil samples collected for laboratory analysis were prepared by advancing the auger head through the soil to the desired point of sample acquisition. Once this depth was reached, the auger head was removed from the boring and a brass sampling tube was driven into the soil held within the auger head. Once soil had been packed into the brass tube, the ends of the tube were wrapped with aluminum foil and sealed with plastic caps. Duct tape was wrapped around the cap at its seam with the tube to attempt to reduce the loss of volatile constituents. The augers were cleaned using a trisodium phosphate detergent and rinsed prior to the advancement of each borehole to reduce the chances of cross contamination. The samples were labelled, stored on ice, and transferred with chain of custody documentation. Samples selected for analysis were delivered to Anametrix, Inc., a hazardous materials testing laboratory certified by the State of California, to perform the required tests.

5.4) Selection of Samples for Laboratory Analysis

Fourteen soil samples were collected for analysis. Table 2 lists the selected samples and indicates the analyses conducted on each sample. Samples were chosen for analysis based upon location and observed odor and/or discoloration.

6.0) RESULTS OF LABORATORY ANALYSES

Tables 3, 4, 5, and 6 show the results of analytical analyses conducted on selected samples.

7.0) REPORTAGE

Copies of this soil exploration report should be submitted to the RWQCB and the Alameda County Health Agency. The following addresses are listed for your convenience:

Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Room 700
Oakland, CA 94612
ATTN: Fuel Leaks Division

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
ATTN: Ms. Katherine Chesick

9.0) LIMITATIONS

The recommendations in this report were developed in accordance with generally accepted standards of current environmental practice in Northern California. These recommendations are time-dependant and should not be considered valid after one year from the date of issue of this report. After the one-year period, site conditions and these recommendations should be reviewed.

This study was done solely for the purpose of evaluating environmental conditions of the soil related to hydrocarbon product contamination at the subject site. No soil engineering or geotechnical references are implied or should be inferred.

Evaluation of the conditions of the site, for the purposes of this study, was made from a limited number of observation points. Subsurface conditions may deviate away from these points. Additional work, including further study of the subsurface, can reduce the inherent uncertainties associated with this type of study.

This study was performed and the report was prepared for the sole use of our client, Zaccor Corporation. It is the responsibility of the Client to convey these recommendations to regulatory agencies and other parties, as appropriate.

The recommendations herein are professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding our recommendations.

TABLE 1 - FIELD OBSERVATIONS OF SOIL FROM EXPLORATORY BOINGS (Depths in Feet)

Exploratory Boring	Approximate Total Depth	Approximate Depth Interval of Observed Soil Discoloration & Odor
EB-1	5.5	4 - 5.5
EB-2	5.5	3 - 5.5
EB-3	5.5	3.5 - 5.5
EB-4	5.5	4 - 5.5
EB-5	5.5	4 - 5.5
EB-6	5.5	3.5 - 5.5
EB-7	5.5	4 - 5.5
EB-8	5.5	3 - 5.5
EB-9	5.5	none
EB-10	5.5	none
EB-11	5.5	none
EB-12	5.5	none
EB-13	5.5	none
EB-14	5.5	5 - 5.5
EB-15	5.5	3 - 5.5
EB-16	5.5	4.5 - 5.5
EB-17	5.5	none
EB-18	5.5	none
EB-19	6	5-.5 - 6
EB-20	6	5.5 - 6
EB-21	5.5	4 - 5.5
EB-22	6	6
EB-23	5.5	none
EB-24	5.5	none
EB-25	5.5	none
EB-26	5.5	none
EB-27	5.5	2 - 5.5
EB-28	5.5	2 - 5.5
EB-29	5.5	1 - 5.5
EB-30	5.5	3 - 5.5
EB-31	5.5	4 - 5.5
EB-32	5.5	5 - 5.5
EB-33	5.5	4 - 5.5
EB-34	5.5	1.5 - 5.5
EB-35	5.5	4 - 5.5

TABLE 1 - Continued

Exploratory Boring	Approximate Total Depth	Approximate Depth Interval of Observed Soil Discoloration and/or Odor
EB-36	5.5	1 - 5.5
EB-37	5.5	2.5 - 5.5
EB-38	5.5	1- 2.
EB-39	5.5	none
EB-40	5.5	none
EB-41	5.5	1.5 - 5.5
EB-42	5.5	5 - 5.5
EB-43	5.5	0.5 - 5.5
EB-44	5.5	1 - 5-.5
EB-45	5.5	2.5 - 5.5
EB-46	5.5	none
EB-47	5.5	none
EB-48	5.5	1 - 5.5
EB-49	5.5	none
EB-50	5.5	none
EB-51	5.5	none
EB-52	5.5	none
EB-53	5.5	none
EB-54	5.5	1 - 5.5
EB-55	5.5	2.5 - 5.5
EB-56	5.5	1.5 - 5.5
EB-57	5.5	2 - 5.5
EB-58	5.5	3.5 - 5.5
EB-59	5.5	none
EB-60	5.5	none
EB-61	5.5	none
EB-62	5.5	3 - 5.5
EB-63	5.5	none
EB-64	5.5	3 - 5.5

TABLE 2 - SAMPLES SELECTED FOR ANALYSIS

SAMPLE I.D.	SAMPLE DEPTH	TPH AS GASOLINE & BTEX	TPH AS DIESEL	TOTAL OIL & GREASE		EPA 8240	EPA 8270	METALS
EB-6	5.5	X*	X	X		X		X
EB-9	6.75	X	X					
EB-12	6.0	X	X					
EB-23	7.0	X	X	X				
EB-24	6.0	X	X	X				
EB-26	6.0	X	X					
EB-27	4.0	X*	X	X	X	X		X
EB-38	6.0	X*	X	X	X			
EB-39	6.0	X	X	X				
EB-47	4.5	X		X				
EB-52	4.5	X		X				
EB-55	3.0	X		X				
EB-61	5.0	X						
EB-62	3.0	X		X				

* Analysis for TPH as gasoline did not include BTEX distinction. Refer to results of EPA 8240 analysis for quantification of BTEX constituents.

TABLE 3 - ANALYTICAL RESULTS - TPH AS GASOLINE, TPH AS DIESEL, AND TOG (results in mg/Kg)

SAMPLE I.D.	SAMPLE DEPTH	TPH AS GASOLINE	TPH AS DIESEL	TOTAL OIL & GREASE
EB-6	5.5	17	*ND	ND
EB-9	6.75	ND	ND	
EB-12	6.0	ND	ND	
EB-23	7.0	ND	ND	ND
EB-24	6.0	ND	ND	70
EB-26	6.0	ND	ND	
EB-27	4.0	1,900	250	80
EB-38	6.0	ND	ND	ND
EB-39	6.0	ND	ND	ND
EB-47	4.5	ND	ND	ND
EB-52	4.5	ND	ND	ND
EB-55	3.0	ND	ND	ND
EB-61	5.0	ND	ND	ND
EB-62	3.0	97	ND	380

*ND - Analyte not detected using given laboratory method

TABLE 4 - ANALYTICAL RESULTS - BTEX (results in ug/kg)

SAMPLE I.D.	SAMPLE DEPTH	Benzene	Toluene	Ethylbenzene	Xylenes
EB-6	5.5	*ND	ND	ND	140
EB-9	6.75	ND	ND	ND	ND
EB-12	6.0	ND	ND	ND	ND
EB-23	7.0	ND	ND	ND	ND
EB-24	6.0	ND	ND	ND	ND
EB-26	6.0	ND	ND	ND	ND
EB-27	4.0	ND	17,000	23,000	160,000
EB-38	6.0	ND	ND	ND	ND
EB-39	6.0	ND	ND	ND	ND
EB-47	4.5	ND	ND	ND	ND
EB-52	4.5	ND	ND	ND	ND
EB-55	3.0	ND	ND	ND	ND
EB-61	5.0	ND	ND	ND	ND
EB-62	3.0	ND	ND	310	100

*ND - Analyte not detected using given laboratory method

TABLE 5 - ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS DETECTED USING EPA METHOD 8240, AND SEMI-VOLATILE ORGANIC COMPOUNDS DETECTED USING EPA METHOD 8270 (results in ug/Kg)

SAMPLE I.D.	SAMPLE DEPTH	EPA 8240		EPA 8270	
EB-6	5.5	Xylenes -	140	*NA	
EB-27	4.0	Toluene-	17,000	Naphthalene-	3,000
		Ethylbenzene-	23,000	2-Methylnaphthalene-	3,600
		Xylenes-	160,000		
EB-38	6.0	**ND		NA	

*N/A - Sample not analyzed for the listed compound(s)
**ND - Analyte not detected using given laboratory method

TABLE 6 - ANALYTICAL RESULTS - METALS (results in ug/Kg)

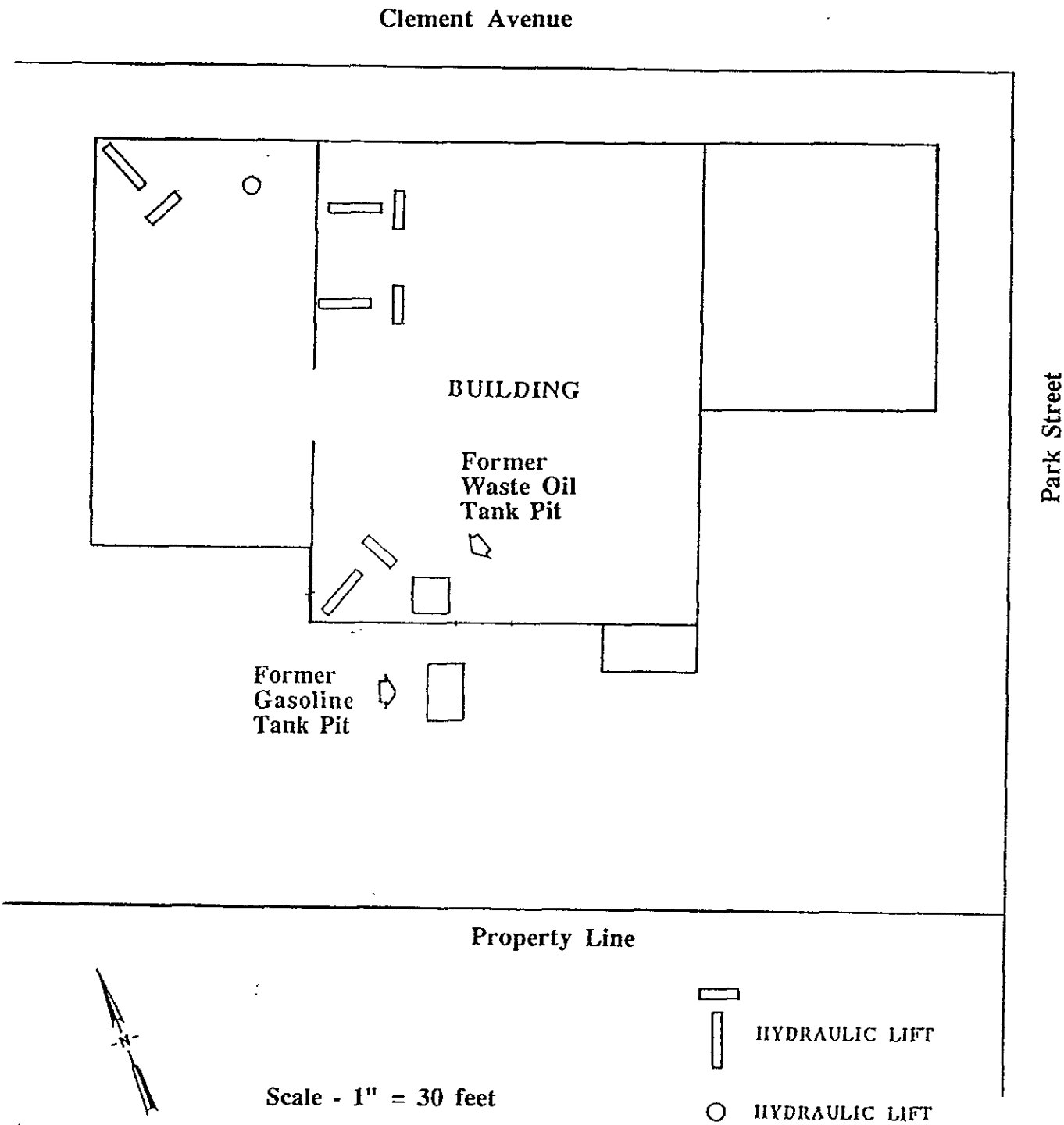
	EB-6 @ 5.5 Feet	EB-27 @ 4.0 Feet
ANTIMONY	—	*ND
ARSENIC	—	1.2
BERYLLIUM	—	ND
CADMIUM	ND	ND
CHROMIUM	41.0	55.4
COPPER	—	7.5
LEAD	ND	7.3
MERCURY	—	ND
NICKEL	30.8	38.2
SELENIUM	—	ND
THALLIUM	—	ND
ZINC	17.9	20.0

*ND - Analyte not detected using given laboratory method

Source: USGS Topographical Map, Oakland East and Oakland West Quadrangles. Scale - 1" = 2,000 feet

SITE LOCATION MAP

FIGURE 1



ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
30028 Industrial Pkwy., S.W.
Suite C
Hayward, CA 94544

DATE: MARCH 1991

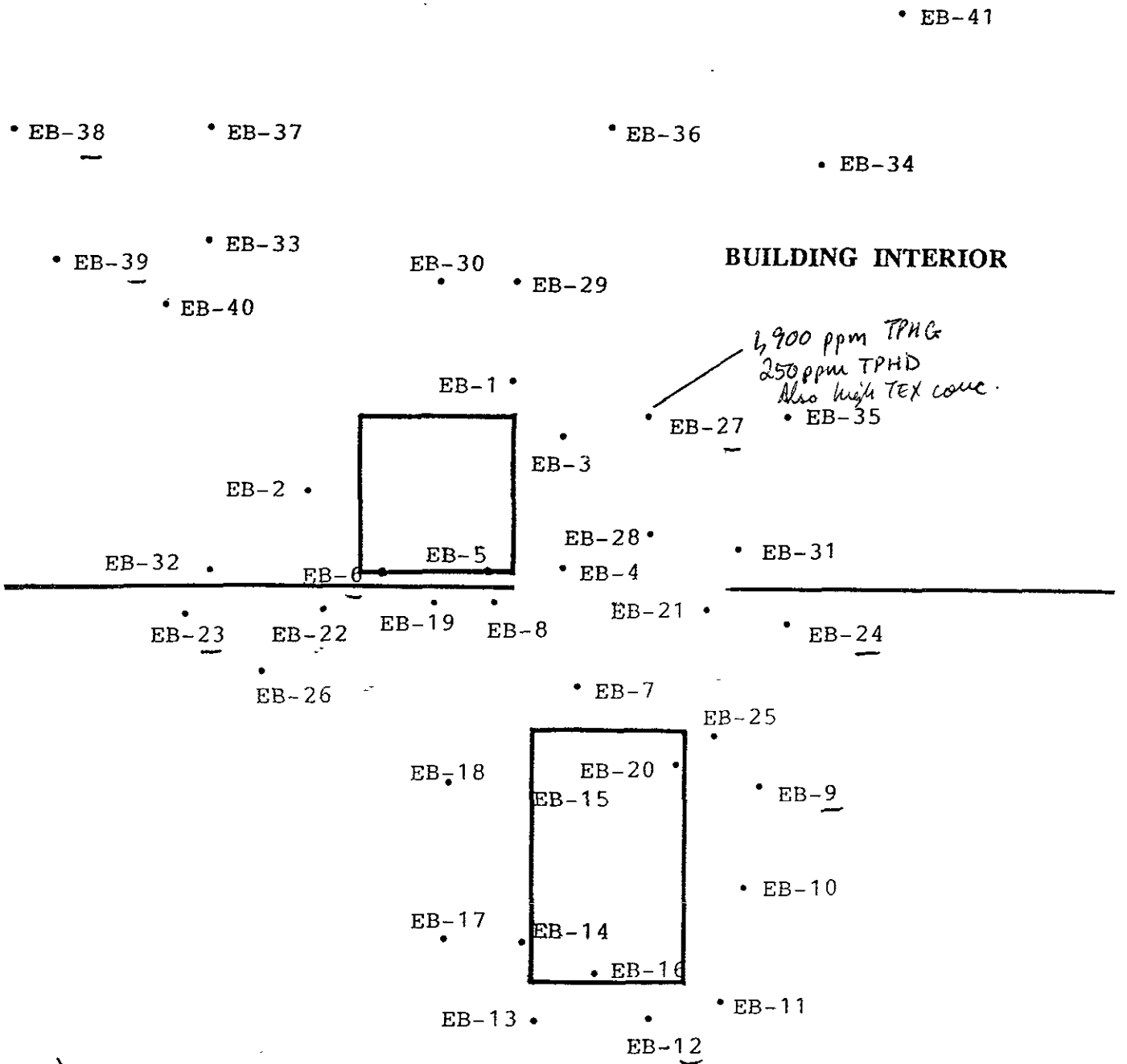
DRAWN BY: BDM

APPROV'D: TMB

SITE DIAGRAM A

KEIZER ESTATE
1825 PARK STREET
ALAMEDA, CALIFORNIA

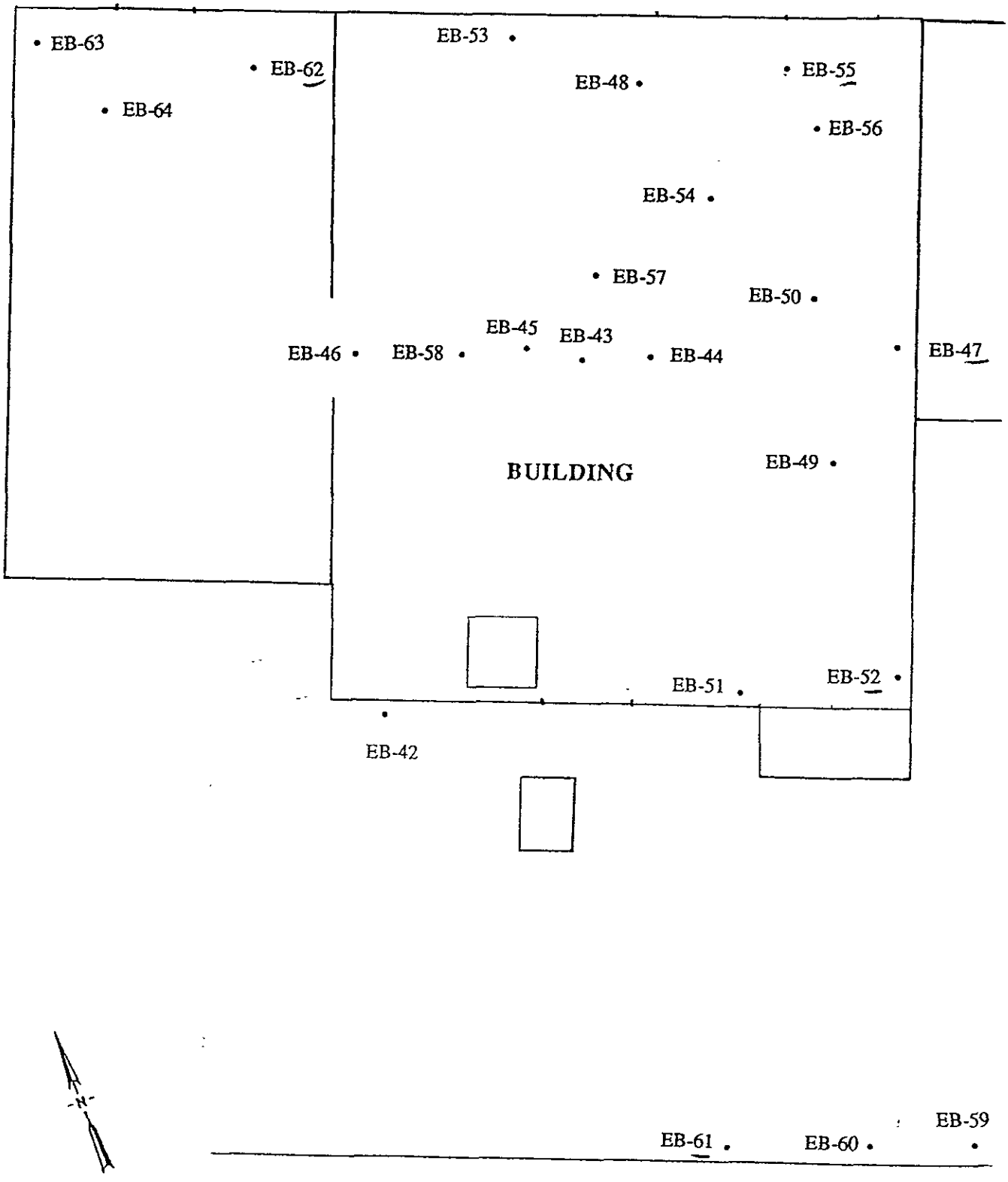
FIGURE 2



55 w/ Discoloration / odor collected for analysis

ENVIRONMENTAL BIO-SYSTEMS, INC. Innovative Solutions for a Better Environment 30028 Industrial Pkwy., S.W. Suite C Hayward, CA 94544	DATE: MARCH 1991 DRAWN BY: BDM APPROV'D: TMB	**SITE DIAGRAM B** KEIZER ESTATE 1825 PARK STREET ALAMEDA, CALIFORNIA

FIGURE 3



Scale - 1" = 20 feet

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
30028 Industrial Pkwy., S.W.
Suite C
Hayward, CA 94544

DATE: MARCH 1991
DRAWN BY: BDM
APPROV'D: TMB

SITE DIAGRAM C

KEIZER ESTATE
1825 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 4

April 30, 1991

Zaccor Corporation
Keizer Estate
1825 Park Street
Alameda, California

APPENDIX A

TANK REMOVAL SAMPLING REPORT AND ASSOCIATED LETTER

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment

January 15, 1991

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, California 94025

Attention: Mr. Gary Zaccor

SAMPLING REPORT

The following documentation concerns the initial tank removal sampling and assessment performed by Environmental Bio-Systems, Inc. for Zaccor Corporation, on December 27, 1990 at:

BURR PROPERTY
1825 PARK AVENUE
ALAMEDA, CALIFORNIA

EBS was retained by Zaccor Corporation to perform the following services:

- collect soil samples from beneath underground storage tanks (UST's) as indicated by the local implementing agency representative.
- collect composite samples from stockpiled soil generated during tank removal.
- transport all samples to Anametrix, Inc. and arrange for the specified analyses of samples.
- provide a written summary of observations, procedures, and analytical results including a diagram of sampling locations.

On the above specified date, one 300 gallon fuel oil UST and one 500 gallon gasoline UST (labelled A & B respectively on the Site Diagram, Figure 1) were removed. Subsequent sampling of the surrounding soil within the tank pit excavations was performed in accordance with the specifications of Inspector William Faulhaber of the Alameda County Department of Environmental Health.

30028 Industrial Pkwy., S.W., Suite C Hayward, CA 94544 (415) 429-9988 Fax (415) 429-9189

FIELD OBSERVATIONS

Please refer to the attached diagram (Figure 1) illustrating the positions of the tanks and the location and depth of each sample.

Upon arriving on site, it was noted that some of the soil around both tanks had been removed. A moderate hydrocarbon odor was noted in the exposed soil surrounding both tanks. Two stockpiles of soil had been generated during excavation. Both stockpiles exhibited a slight to moderate hydrocarbon odor.

Tank A was constructed of single walled steel. A visual inspection of the tank revealed the presence of several holes near the bottom of the fill end which were 1/4 to 3/4 inches in diameter. A moderate hydrocarbon odor was noted in the backfill and native soil underlying the tank.

Tank B was constructed of single walled steel with a tar wrap which was partially (70%) intact at the time of removal. Portions of the tank were rusted but no holes were observed. Hydrocarbon staining and odor was noted in the soil surrounding the tank with staining being most noticeable at the fill end of the excavation.

Approximately three inches of water was present in the depression left by tank A. The presence of a sheen on the water was not noted.

SAMPLING

At the request of Inspector Faulhaber, the following samples were collected.

Soil sample #S1 was collected from beneath the non-fill end of tank A at a depth of approximately 5 feet.

Soil sample #S2 was collected from beneath the fill end of tank A at a depth of approximately 4-1/2 feet.

Soil sample #S5 was collected from beneath the fill end of tank B at a depth of approximately 5-3/4 feet.

Soil sample #S6 was collected from beneath the non-fill end of tank B at a depth of approximately 5 feet.

At the request of the client, two additional samples were collected from the side walls of each pit to assist in the assessment of soil quality at these locations. Soil Sample #S3 was collected from the western wall of tank pit A at a depth of approximately 4-1/2 feet. Soil sample #S4 was collected from the eastern wall of tank pit A at a depth of approximately 4-1/2 feet. Soil Sample #S7 was collected from the western wall of tank pit B at a depth of approximately 5 feet and soil sample #S8 was collected from the eastern wall of tank pit B at a depth of approximately 5 feet.

Composite soil samples were collected from the stockpiled soil generated during excavation of the tanks. Composite soil sample #SC9 A-B, consisting of two brass tubes, was collected from the soil generated during removal of tank B. Composite soil sample #SC10 A-B, consisting of two brass tubes, was collected from the soil generated during removal of tank A. Each stockpile consisted of approximately ten cubic yards of soil.

SAMPLE ANALYSES

At the direction of the client, in concurrence with the approval of Inspector Faulhaber, the samples were analyzed as follows:

Soil samples #S1 and #S2 were analyzed for total oil and grease (TOG) using Environmental Protection Agency (EPA) method 5520 E&F, total petroleum hydrocarbons (TPH) as diesel using EPA method 3550/GCFID, TPH as gasoline using EPA method 5030/GCFID, and the hydrocarbon constituents benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA method 8020.

Soil samples #S5 and #S6 were analyzed for TPH as gasoline using EPA method 5030, BTEX using EPA method 8020, and total lead by atomic absorption (AA).

Composite soil sample #SC9 A-B, collected from the stockpile containing soil from tank pit B, was analyzed for TPH as diesel using EPA method 3550 to determine if high boiling point hydrocarbons were present in concentrations which would limit treatment and/or disposal options. Composite soil sample #SC10 A-B was analyzed for TPH as diesel using EPA method 3550.

Soil samples #S3, #S4, #S7, and #S8 were placed on hold and not analyzed.

All samples were transported to Anametrix, Inc., a hazardous materials testing laboratory certified by the State of California to perform the required tests (HMTL #151). Analytical methods used by Anametrix, Inc. were consistent with San Francisco Regional Water Quality Control Board (SFRWQCB) guidelines and approved analytical methodologies specified in EPA document SW-846.

SAMPLING METHODOLOGY

Soil for samples #S1, #S2, #S5, and #S6 was removed from the excavations using a backhoe bucket. The first three to four inches of soil just above the teeth of the bucket were removed and clean brass tubes were driven into the exposed layer of soil. Soil was packed into the tubes to eliminate the possibility of headspace. The ends of the tubes were wrapped with aluminum foil and sealed with plastic caps and duct tape to reduce the evaporative loss of volatile constituents.

Soil for samples #S3,#S4, #S7, and #S8 was obtained by driving brass tubes in the side walls of the excavations. Soil was packed tightly into the tubes which were then sealed as described in the previous paragraph.

Composite samples were contained by driving brass tubes into the soil lying approximately twelve inches within the piles. Soil was packed into the tubes to eliminate the possibility of headspace. The sample containers were then covered with foil, capped, and taped in the manner described above. All samples were placed on ice in a cooler and transported under chain of custody protocol to Anametrix, Inc.

RESULTS

The certified analytical report documenting the findings of sample analyses has been attached to this report.

TABLE 1 - ANALYTICAL RESULTS FOR SOIL SAMPLES (In ppm*)

SAMPLE	TOG	TPH DIESEL	TPH GASOLINE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL LEAD
S1	1,400	780	5,300	13	65	79	490	---
S2	2,100	300	1,900	8.6	18	16	81	---
S5	---	---	ND**	ND	ND	ND	ND	4.4
S6	---	---	ND	0.013	0.006	ND	0.006	2.6
SC9 A-B	---	180	---	---	---	---	---	---
SC10 A-B	---	880	---	---	---	---	---	---

* ppm = Parts per million.
** ND = Analyte not detected above laboratory detection limits.
Note: Detection limits: TOG - 30 ppm. TPH as diesel - 10 ppm. TPH as gasoline - 0.5 ppm. BTEX 0.005 ppm. Total Lead - 0.15 ppm.

CONCLUSIONS

Analytical results for samples #S1 and #S2, collected from beneath either end of tank A, indicate the presence of hydrocarbons in excess of State (SFRWQCB) actions limits. Analytical results for samples #S5 and #S6, collected from beneath either end of tank B, were found not to contain concentrations of hydrocarbons, or constituents of hydrocarbons, above SFRWQCB actions levels. Lead analysis of samples #S5, and #S6 indicate that total lead concentrations at these locations are below actions limits (total threshold limit concentrations) established by Title 22 of the California Administrative Code.

Soil samples #S7 and #S8 (not analyzed), collected from the sidewalls of tank pit B, exhibited an obvious hydrocarbon odor.

Composite samples #SC9 A-B and #SC10 A-B, collected from stockpiled soil excavated during the removal of tanks A and B, were found to contain concentrations of hydrocarbons in excess of 100 ppm, disallowing the on site reuse of this material without further remediation.

SFRWQCB guidelines state that the presence hydrocarbons in excess of 100 ppm in samples collected from beneath UST's mandates the performance of an exploration to determine the extent of further impact to soil and the shallow water bearing zone beneath the site.

RECOMMENDATIONS

The State Water Resources Control Board document, Leaking Underground Fuel Tank Field Manual (LUFT), supported by the SFRWQCB, and the guidelines of Alameda County, define acceptable limits and appropriate actions for addressing UST contamination within the County of Alameda.

Definition of Soil Contamination

In accordance with SFRWQCB and Alameda County guidelines, the presence of hydrocarbons in excess of 100 ppm in samples #S1 and #S2 mandates the performance of exploratory activities which will attempt to define the vertical and lateral extent of soil contamination. Exploratory activities can be conducted by utilization of a drilling rig, exploratory excavation, or other means that are deemed acceptable by the Alameda County Department of Environmental Health and the SFRWQCB.

Stockpiled Soil

There are several options for the treatment and/or disposition of the contaminated stockpiled soil. These options include treatment by bioremediation of soil contaminated with heavy hydrocarbons (TOG and TPH as diesel), uncontrolled aeration of soil contaminated with volatile hydrocarbons (TPH as gasoline and BTEX), or disposal by landfilling or reuse at an approved asphalt or cement production facility. The total anticipated volume of soil, contaminants involved, and degree of contamination are the variables that should be considered to determine the most efficient treatment and/or disposal option.

Groundwater Exploration

In accordance with LUFT guidelines, an exploration into the possible impact of contaminants on the shallow water bearing zone beneath the site must also be conducted. Groundwater exploratory actions should include the installation of at least one groundwater monitoring well within ten feet of tank pit A. Also in accordance with LUFT guidelines, the general direction of groundwater flow beneath the site must be determined. Such a determination requires a minimum of three groundwater reference points. Therefore, this requirement may be satisfied by the installation of two additional groundwater reference points, either peizometers or wells. The three reference points will allow triangulation and the subsequent estimation of groundwater gradient. Existing wells on adjacent properties, which have been properly installed and screened, may qualify as eligible reference points and consequently reduce the number of wells required. The use of existing wells to estimate gradient is subject to regulatory approval.

REPORTAGE

Copies of this sampling report should be submitted to the SFRWQCB and the Alameda County Department of Environmental Health.

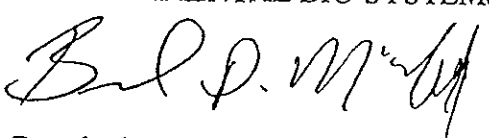
The following addresses have been listed for your convenience:

Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Room 700
Oakland, CA 94612
ATTN: Fuel Leaks Division

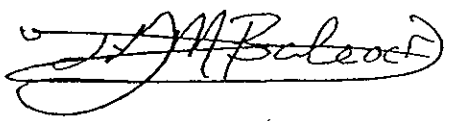
County of Alameda
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621
ATTN: William Faulhaber

If you have any questions, or if I may be of service please contact me at (415) 429-9988.

Sincerely,
ENVIRONMENTAL BIO-SYSTEMS, INC.



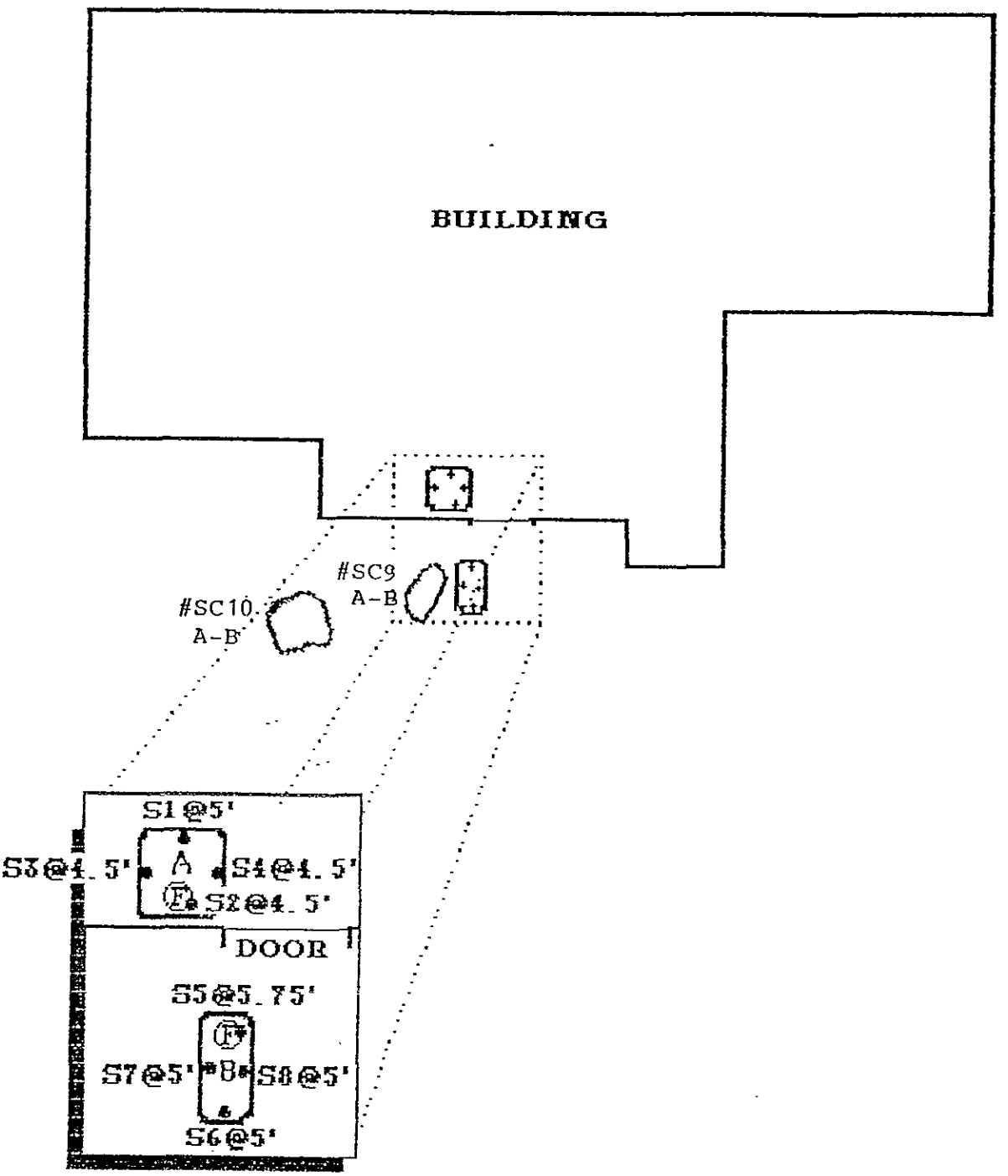
Brenda d. McNabb
Project Manager

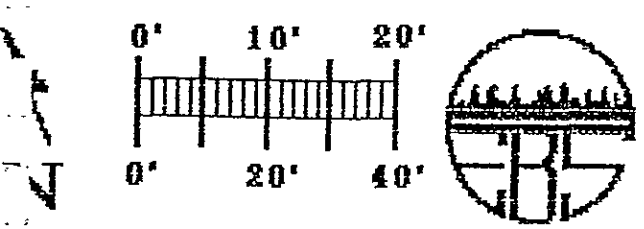


Timothy M. Babcock
Project Supervisor

BDM/so

FIGURE #1





ZACCOR CORP.@
BURR PROPERTY
1825 PARK STREET
ALAMEDA, CALIFORNIA
TANK PULL 12/27/90

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

REPORT

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9012240- 1	S1
9012240- 2	S2
9012240- 3	S3
9012240- 4	S4
9012240- 5	S5
9012240- 6	S6
9012240- 7	S7
9012240- 8	S8
9012240- 9	SC9A&B
9012240-10	SC10A&B

This report consists of 13 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

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

Burt Sutherland for
Burt Sutherland
Laboratory Director

1-16-91
Date

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9012240- 1	S1	SOIL	12/27/90	TPHd
9012240- 2	S2	SOIL	12/27/90	TPHd
9012240- 9	SC9A&B	SOIL	12/27/90	TPHd
9012240-10	SC10A&B	SOIL	12/27/90	TPHd
9012240- 1	S1	SOIL	12/27/90	TPHg/BTEX
9012240- 2	S2	SOIL	12/27/90	TPHg/BTEX
9012240- 5	S5	SOIL	12/27/90	TPHg/BTEX
9012240- 6	S6	SOIL	12/27/90	TPHg/BTEX

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- Concentrations reported as TPHd appear to be due to extractable components of gasoline.

Cheryl Balmes 1/10/91
Department Supervisor Date

Jesus Jurado 01-10-91
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9012240
Matrix : SOIL
Date Sampled : 12/27/90

Project Number : 003-163
Date Released : 01/09/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# S1 -01	Sample I.D.# S2 -02	Sample I.D.# S5 -05	Sample I.D.# S6 -06	Sample I.D.# 12B0103A BLANK
Benzene	0.005	13	8.6	ND	0.013	ND
Toluene	0.005	65	18	ND	0.006	ND
Ethylbenzene	0.005	79	16	ND	ND	ND
Total Xylenes	0.005	490	81	ND	0.006	ND
TPH as Gasoline	0.5	5300	1900	ND	ND	ND
% Surrogate Recovery		110%	160%	53%	105%	115%
Instrument I.D.		HP8	HP12	HP12	HP12	HP12
Date Analyzed		01/04/91	01/03/91	01/03/91	01/03/91	01/03/91
RLMF		2000	500	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 50-150%.

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

Gareth Voigt 1/10/91
Analyst Date

Cheryl Balmer 1/10/91
Supervisor Date

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- Concentrations reported as TPHd appear to be due to extractable components of gasoline.

Cheryl Balmes 1/10/91
Department Supervisor Date

Steve Jurasek 01-10-91
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9012240
Matrix : SOIL
Date Sampled : 12/27/90
Date Extracted: 12/28/90

Project Number : 003-163
Date released : 01/09/91
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9012240-01	S1	01/02/91	10	780
9012240-02	S2	01/02/91	10	300
DSBLK122890	METHOD BLANK	01/02/91	10	ND

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

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

Analyst 01-10-91 Date

Supervisor 1/10/91 Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9012240
Matrix : SOIL
Date Sampled : 12/27/90
Date Extracted: 01/03/91

Project Number : 003-163
Date released : 01/09/91
Instrument I.D.: HP19

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9012240-09	SC9A&B	01/03/91	10	180
9012240-10	SC10A&B	01/03/91	10	880
DSBLK010291	METHOD BLANK	01/03/91	10	ND

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

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

01-10-91 Irma Jurisich
Analyst Date

Cheryl Balmer 1/10/91
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/FID

Sample I.D. : S5 003-163
Matrix : SOIL
Date sampled : 12-27-90
Date analyzed : 01-03-91

Anametrix I.D. : 9012240-05
Analyst : GV
Supervisor : CB
Date Released : 01-09-91

COMPOUND	SPIKE AMT. (PPM)	MS (PPM)	%REC MS	MSD (PPM)	%REC MSD	RPD	%REC LIMITS
Gasoline	1	1.3	130%	1.2	120%	-8%	50-150

* Limits established by Anametrix, Inc.

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9012240- 1	S1	SOIL	12/27/90	5520EF
9012240- 2	S2	SOIL	12/27/90	5520EF

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

January, 10TH 1991
Department Supervisor Date

Reggie Davison 1-11-91
Chemist Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE
ANAMETRIX, INC. (408) 432-8192

Project # : 003-163
Matrix : SOIL
Date sampled : 12/27/90
Date ext. TOG: 12/28/90
Date anl. TOG: 12/28/90

Anametrix I.D. : 9012240
Analyst : R.D.
Supervisor : RP
Date released : 01/09/91

Workorder #	Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9012240-01	S-1	30	1400
9012240-02	S-2	30	2100
GSBLK122890	METHOD BLANK	30	ND

ND - Not detected at or above the practical quantitation limit for the method.
TOG - Total Oil & Grease is determined by Standard Method 5520E&F.

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

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9012240- 5	S5	SOIL	12/27/90	7420
9012240- 6	S6	SOIL	12/27/90	7420

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9012240
Date Received : 12/27/90
Project ID : 003-163
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor 1-16-91 Date

Chemist 1/16/91 Date

ANALYSIS DATA SHEET - ORGANIC LEAD
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9012240
Matrix : SOIL
Date Sampled : 12/27/90
Project Number: 003-163

Date Prepared : 01/02/91
Date Analyzed : 01/15/91
Date Released : 01/15/91
Instrument I.D.: AA1

ELEMENTS		Lead (Pb)
EPA METHOD		7420
REPORTING LIMIT		0.15
ANAMETRIX ID	CLIENT ID	(mg/Kg)
9012240-05	S5	4.4
9012240-06	S6	2.6
MB0102S	METHOD BLANK	ND

ND : Not detected at or above the practical quantitation limit for the method.

Organic Lead by Leaking Underground Fuel Tank (LUFT) Manual, 1987 California State Water Resources Control Board.

Chemist 1-16-91 Date

Chemist Hiza I Nagpurdala 1/16/91 Date

-1118

17:15

9012240 10/30

(2)

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS					TURNAROUND
S1	Soil	TPH G (5030)	BTEX (8020)	TOG (5520)	TPHD (3550)		Two Week
S2	"	"	"	"	"	"	"
S3	"	HOLD					
S4	"	"					
S5	"	TPH G (5030)	BTEX (8020)	Total Lead (AA)			Two Week
S6	"	"	"	"	"	"	"
S7	"	HOLD					

Sampling Performed By Brenda D. McHabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date	
Brenda D. McHabb	Michael Schley	4:57	12/27/90
			__/__/__
			__/__/__
			__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
S8	Soil	Hold	
SC9A&B (composite)	"	TPH G (No BTEX)	Two Week
SC10A&B	"	"	"

Sampling Performed By Brent D. McNabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date
Brent D. McNabb	Michael Schaff	4:57 pm 12/27/90
		__/__/__
		__/__/__
		__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS						TURNAROUND
S1	Soil	TPH G (503)	BTEX (8020)	TOG (5520)	TPHD (3550)			Two Week
S2	"	"	"	"	"	"	"	"
S3	"	HOLD						
S4	"	"						
S5	"	TPH-G (5030)	BTEX (8020)	Total Lead (AA)				Two Week
S6	"	"	"	"	"	"	"	"
S7	"	HOLD						

Sampling Performed By Brenda D. McHabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date	
Brenda D. McHabb	Michael Gurley	4:57	12/27/90
			__/__/__
			__/__/__
			__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
S8	Soil	Hold	
SC9A&B (composite)	"	TPH G (No BTEX)	Two Week
SC10A&B "	"	"	"

Sampling Performed By Brent D. McNabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date
Brent D. McNabb	Nicholas Scott	4:57 pm 12/27/90
		__/__/__
		__/__/__
		__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment

January 23, 1991

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, California 94025

Attention: Mr. Gary Zaccor

Regarding: Analysis of Samples Collected From Sidewalls of Tank Pit A.

The following documentation concerns the analysis of samples collected at the Burr Property located at 1825 Park Street, Alameda, California. The samples were collected on December 27, 1990 during the removal of one 300 gallon fuel oil underground storage tank (tank A) and one 500 gallon gasoline underground storage tank (tank B).

Seven soil samples were collected from the soil surrounding the tanks. The results of analyses conducted on samples collected from the interface zone beneath the two tanks (samples #S1,#S2, #S5, and #S6) are documented in the Environemntal Bio-Systems, Inc. report #003-163-01, dated January 16, 1991. This document discusses the results of analysis conducted on samples #S3 and #S4, which were collected from the sidewalls of tank pit A.

Please refer to the attached diagram (Figure 1) illustrating the positions of the tanks and the location and depth of each sample.

Sampling

At the request of the client, two additional samples were collected from the western and eastern sidewalls of tank pit A during tank removal to assist in the assessment of soil quality at these locations. Soil Sample #S3 was collected from the western wall at a depth of approximately 4-1/2 feet and soil sample #S4 was collected from the eastern wall at a depth of approximately 4-1/2 feet.

Sampling Methodology

Soil for samples #S3 and #S4 was collected by driving clean brass tubes into the side walls of tank pit A. Soil was packed tightly into the tubes to eliminate the possibility of headspace. The ends of the tubes were wrapped with aluminum foil and sealed with plastic caps and duct tape to reduce the evaporative loss of volatile constituents.

3O028 Industrial Pkwy., S.W., Suite C Hayward, CA 94544 (415) 429-9988 Fax (415) 429-9189

Sample Analysis

At the direction of Gary Zaccor of Zaccor Corporation on January 11, 1991, samples #S3 and #S4 were analyzed for total oil and grease (TOG) using Environmental Protection Agency method 5520 E&F.

Results

The certified analytical report documenting the findings of TOG analyses on samples #S3 and #S4 has been attached to this report.

Sample #S3 contained TOG at a concentration of 400 ppm.

Sample #S4 contained TOG at a concentration of 330 ppm.

Conclusions and Recommendations

Analytical results for samples #S3 and #S4, collected from the western and eastern walls of tank pit A, indicate the presence of hydrocarbons in excess of State actions limits. The confirmation of contamination at these locations indicates the migration of contaminants into soils to the west and east of the former tank pit.

This information should be used to formulate a remedial plan to address the exploration and removal of soil contaminated above acceptable limits which remains in place around the former tank pit.

Reportage

Copies of this document should be submitted to the SFRWQCB and the Alameda County Department of Environmental Health.

The following addresses have been listed for your convenience:

Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Room 700
Oakland, CA 94612
ATTN: Fuel Leaks Division

County of Alameda
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621
ATTN: William Faulhaber

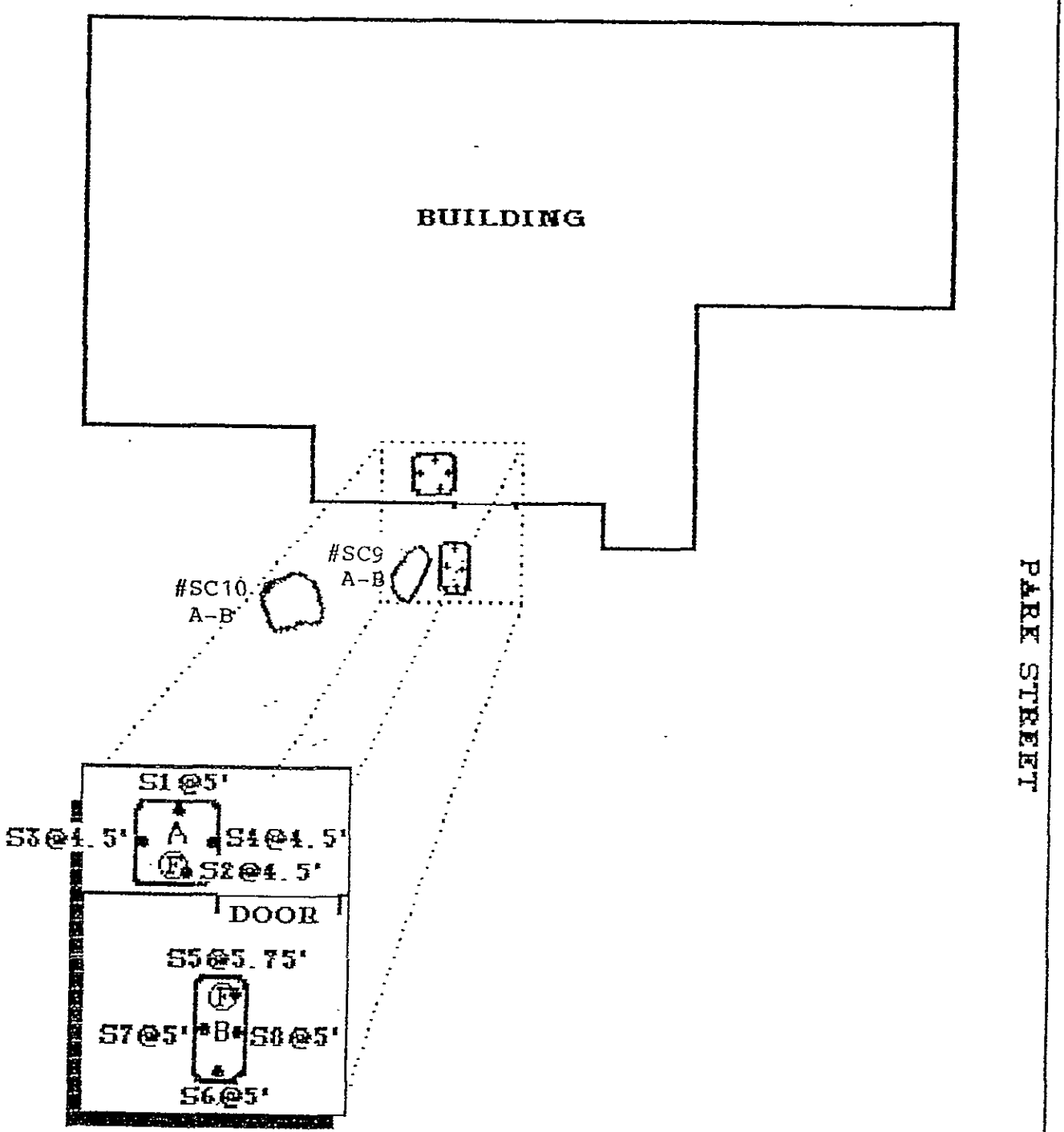
If you have any questions, or if I may be of service please contact me at (415) 429-9988.

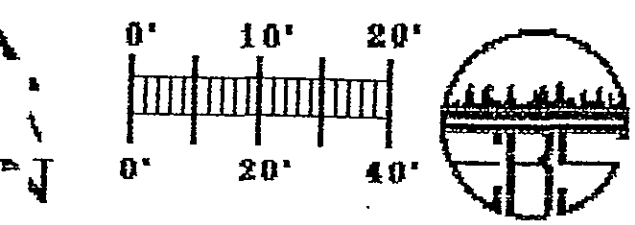
Sincerely,
ENVIRONMENTAL BIO-SYSTEMS, INC.

Brenda d. McNabb
Project Manager

BDM/so

FIGURE #1





ZACCOR CORP.@
BURR PROPERTY
1825 PARK STREET
ALAMEDA, CALIFORNIA
TANK PULL 12/27/90

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
S1	Soil	TPH G (5030) BTEX (8020) TOG (5520) TPHD (3550)	Two Week
S2	"	" " " " " "	" "
S3	"	HOLD	
S4	"	"	
S5	"	TPH G (5030) BTEX (8020) Total Lead (AA)	Two Week
S6	"	" " " " " " "	" "
S7	"	HOLD	

Sampling Performed By Brenda D. McHabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date
Brenda D. McHabb	Michael Schilling	4:57 12/27/90
		__/__/__
		__/__/__
		__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Burr Property
1825 Park
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163
DATE SAMPLED: 12/27/90

LABORATORY: Anametrix IIMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
S8	Soil	Hold	
SC9A&B (composite)	"	TPH G (No BTEX)	Two Week
SC10A&B "	"	"	"

Sampling Performed By Brent D. McNabb

Sampling Completed At 10:40 (AM)/PM

Released By:	Accepted By:	Time/Date
Brent D. McNabb	William Scott	4:57pm 12/27/90
		__/__/__
		__/__/__
		__/__/__

April 30, 1991

Zaccor Corporation
Keizer Estate
1825 Park Street
Alameda, California

APPENDIX B

ANALYTICAL REPORTS OF EXPLORATORY SOIL SAMPLING

ANAMETRIX INC
Environmental & Analytical Chemistry
'61 Concourse Drive, Suite E, San Jose, CA 95131
08) 432-8192 • Fax (408) 432-8198

REPORT

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9103297- 1	EB6-5.5'
9103297- 2	EB9-6.75'
9103297- 3	EB12-6'
9103297- 4	EB15-6'
9103297- 5	EB21-5'
9103297- 6	EB23-7'
9103297- 7	EB24-6'
9103297- 8	EB25-6'
9103297- 9	EB26-6'
9103297-10	EB27-4'
9103297-11	EB38-6'
9103297-12	EB39-6'
9103297-13	EB40-6'

This report consists of 32 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

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

Sarah Schoen, Ph.D.
Laboratory Manager

4-11-91
Date

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9103297- 1	EB6-5.5'	SOIL	03/21/91	8240
9103297-10	EB27-4'	SOIL	03/21/91	8240
9103297-11	EB38-6'	SOIL	03/21/91	8240
9103297-10	EB27-4'	SOIL	03/21/91	8270

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- Due to the high amounts of hydrocarbons present in sample EB6-5.5', the EPA Method 8240 analysis was not done at a lower dilution.

Paul Gowan 4-4-91
Department Supervisor Date

Laura Marsh 4-3-91
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : #003-163
Sample ID : EB6-5.5'
Matrix : SOIL
Date Sampled : 3/21/91
Date Analyzed : 4/ 1/91
Instrument ID : F1

Anametrix ID : 9103297-01
Analyst : LY
Supervisor : PG

Dilution Factor : 10.00
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	CHLOROMETHANE	100.	ND	U
75-01-4	VINYL CHLORIDE	100.	ND	U
74-83-9	BROMOMETHANE	100.	ND	U
75-00-3	CHLOROETHANE	100.	ND	U
75-69-4	TRICHLOROFLUOROMETHANE	50.	ND	U
75-35-4	1,1-DICHLOROETHENE	50.	ND	U
76-13-1	TRICHLOROTRIFLUOROETHANE	50.	ND	U
67-64-1	ACETONE	200.	ND	U
75-15-0	CARBON DISULFIDE	50.	ND	U
75-09-2	METHYLENE CHLORIDE	50.	ND	U
156-60-5	TRANS-1,2-DICHLOROETHENE	50.	ND	U
75-34-3	1,1-DICHLOROETHANE	50.	ND	U
78-93-3	2-BUTANONE	200.	ND	U
156-59-2	CIS-1,2-DICHLOROETHENE	50.	ND	U
67-66-3	CHLOROFORM	50.	ND	U
71-55-6	1,1,1-TRICHLOROETHANE	50.	ND	U
56-23-5	CARBON TETRACHLORIDE	50.	ND	U
71-43-2	BENZENE	50.	ND	U
107-06-2	1,2-DICHLOROETHANE	50.	ND	U
79-01-6	TRICHLOROETHENE	50.	ND	U
78-87-5	1,2-DICHLOROPROPANE	50.	ND	U
75-27-4	BROMODICHLOROMETHANE	50.	ND	U
110-75-8	2-CHLOROETHYLVINYL ETHER	50.	ND	U
108-05-4	VINYL ACETATE	100.	ND	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	50.	ND	U
108-10-1	4-METHYL-2-PENTANONE	100.	ND	U
108-88-3	TOLUENE	50.	ND	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	50.	ND	U
79-00-5	1,1,2,-TRICHLOROETHANE	50.	ND	U
127-18-4	TETRACHLOROETHENE	50.	ND	U
591-78-6	2-HEXANONE	100.	ND	U
124-48-1	DIBROMOCHLOROMETHANE	50.	ND	U
108-90-7	CHLOROBENZENE	50.	ND	U
100-41-4	ETHYLBENZENE	50.	ND	U
1330-20-7	XYLENE (TOTAL)	50.	140.	
100-42-5	STYRENE	50.	ND	U
75-25-2	BROMOFORM	50.	ND	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	50.	ND	U
541-73-1	1,3-DICHLOROBENZENE	50.	ND	U
106-46-7	1,4-DICHLOROBENZENE	50.	ND	U
95-50-1	1,2-DICHLOROBENZENE	50.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID	: #003-163	Anametrix ID	: 9103297-10
Sample ID	: EB27-4'	Analyst	: iY
Matrix	: SOIL	Supervisor	: PG
Date Sampled	: 3/21/91		
Date Analyzed	: 4/ 2/91	Dilution Factor	: 2000.00
Instrument ID	: F1	Conc. Units	: ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	CHLOROMETHANE	20000.	ND	U
75-01-4	VINYL CHLORIDE	20000.	ND	U
74-83-9	BROMOMETHANE	20000.	ND	U
75-00-3	CHLOROETHANE	20000.	ND	U
75-69-4	TRICHLOROFLUOROMETHANE	10000.	ND	U
75-35-4	1,1-DICHLOROETHENE	10000.	ND	U
76-13-1	TRICHLOROTRIFLUOROETHANE	10000.	ND	U
67-64-1	ACETONE	40000.	ND	U
75-15-0	CARBON DISULFIDE	10000.	ND	U
75-09-2	METHYLENE CHLORIDE	10000.	ND	U
156-60-5	TRANS-1,2-DICHLOROETHENE	10000.	ND	U
75-34-3	1,1-DICHLOROETHANE	10000.	ND	U
78-93-3	2-BUTANONE	40000.	ND	U
156-59-2	CIS-1,2-DICHLOROETHENE	10000.	ND	U
67-66-3	CHLOROFORM	10000.	ND	U
71-55-6	1,1,1-TRICHLOROETHANE	10000.	ND	U
56-23-5	CARBON TETRACHLORIDE	10000.	ND	U
71-43-2	BENZENE	10000.	ND	U
107-06-2	1,2-DICHLOROETHANE	10000.	ND	U
79-01-6	TRICHLOROETHENE	10000.	ND	U
78-87-5	1,2-DICHLOROPROPANE	10000.	ND	U
75-27-4	BROMODICHLOROMETHANE	10000.	ND	U
110-75-8	2-CHLOROETHYLVINYL ETHER	10000.	ND	U
108-05-4	VINYL ACETATE	20000.	ND	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	10000.	ND	U
108-10-1	4-METHYL-2-PENTANONE	20000.	ND	U
108-88-3	TOLUENE	10000.	17000.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10000.	ND	U
79-00-5	1,1,2,-TRICHLOROETHANE	10000.	ND	U
127-18-4	TETRACHLOROETHENE	10000.	ND	U
591-78-6	2-HEXANONE	20000.	ND	U
124-48-1	DIBROMOCHLOROMETHANE	10000.	ND	U
108-90-7	CHLOROBENZENE	10000.	ND	U
100-41-4	ETHYLBENZENE	10000.	23000.	
1330-20-7	XYLENE (TOTAL)	10000.	160000.	
100-42-5	STYRENE	10000.	ND	U
75-25-2	BROMOFORM	10000.	ND	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	10000.	ND	U
541-73-1	1,3-DICHLOROBENZENE	10000.	ND	U
106-46-7	1,4-DICHLOROBENZENE	10000.	ND	U
95-50-1	1,2-DICHLOROBENZENE	10000.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : #003-163
Sample ID : EB38-6'
Matrix : SOIL
Date Sampled : 3/21/91
Date Analyzed : 4/ 1/91
Instrument ID : F1

Anametrix ID : 9103297-11
Analyst : ry
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	CHLOROMETHANE	10.	ND	U
75-01-4	VINYL CHLORIDE	10.	ND	U
74-83-9	BROMOMETHANE	10.	ND	U
75-00-3	CHLOROETHANE	10.	ND	U
75-69-4	TRICHLOROFLUOROMETHANE	5.	ND	U
75-35-4	1,1-DICHLOROETHENE	5.	ND	U
76-13-1	TRICHLOROTRIFLUOROETHANE	5.	ND	U
67-64-1	ACETONE	20.	ND	U
75-15-0	CARBON DISULFIDE	5.	ND	U
75-09-2	METHYLENE CHLORIDE	5.	ND	U
156-60-5	TRANS-1,2-DICHLOROETHENE	5.	ND	U
75-34-3	1,1-DICHLOROETHANE	5.	ND	U
78-93-3	2-BUTANONE	20.	ND	U
156-59-2	CIS-1,2-DICHLOROETHENE	5.	ND	U
67-66-3	CHLOROFORM	5.	ND	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	ND	U
56-23-5	CARBON TETRACHLORIDE	5.	ND	U
71-43-2	BENZENE	5.	ND	U
107-06-2	1,2-DICHLOROETHANE	5.	ND	U
79-01-6	TRICHLOROETHENE	5.	ND	U
78-87-5	1,2-DICHLOROPROPANE	5.	ND	U
75-27-4	BROMODICHLOROMETHANE	5.	ND	U
110-75-8	2-CHLOROETHYLVINYL ETHER	5.	ND	U
108-05-4	VINYL ACETATE	10.	ND	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	ND	U
108-10-1	4-METHYL-2-PENTANONE	10.	ND	U
108-88-3	TOLUENE	5.	ND	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	ND	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	ND	U
127-18-4	TETRACHLOROETHENE	5.	ND	U
591-78-6	2-HEXANONE	10.	ND	U
124-48-1	DIBROMOCHLOROMETHANE	5.	ND	U
108-90-7	CHLOROBENZENE	5.	ND	U
100-41-4	ETHYLBENZENE	5.	ND	U
1330-20-7	XYLENE (TOTAL)	5.	ND	U
100-42-5	STYRENE	5.	ND	U
75-25-2	BROMOFORM	5.	ND	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	ND	U
541-73-1	1,3-DICHLOROBENZENE	5.	ND	U
106-46-7	1,4-DICHLOROBENZENE	5.	ND	U
95-50-1	1,2-DICHLOROBENZENE	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	: #003-163	Anametrix ID	: 9103297-10
Sample ID	: EB27-4'	Analyst	: JM
Matrix	: SOIL	Supervisor	: PG
Date Sampled	: 3/21/91		
Date Extracted	: 3/27/91		
Amount Extracted	: 30.0 g		
Date Analyzed	: 3/29/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	PHENOL	330.	ND	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	330.	ND	U
95-57-8	2-CHLOROPHENOL	330.	ND	U
541-73-1	1,3-DICHLOROBENZENE	330.	ND	U
106-46-7	1,4-DICHLOROBENZENE	330.	ND	U
100-51-6	BENZYL ALCOHOL	330.	ND	U
95-50-1	1,2-DICHLOROBENZENE	330.	ND	U
95-48-7	2-METHYLPHENOL	330.	ND	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	330.	ND	U
106-44-5	4-METHYLPHENOL	330.	ND	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	330.	ND	U
67-72-1	HEXACHLOROETHANE	330.	ND	U
98-95-3	NITROBENZENE	330.	ND	U
78-59-1	ISOPHORONE	330.	ND	U
88-75-5	2-NITROPHENOL	330.	ND	U
105-67-9	2,4-DIMETHYLPHENOL	330.	ND	U
65-85-0	BENZOIC ACID	1700.	ND	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	330.	ND	U
120-83-2	2,4-DICHLOROPHENOL	330.	ND	U
120-82-1	1,2,4-TRICHLOROBENZENE	330.	ND	U
91-20-3	NAPHTHALENE	330.	3000.	
106-47-8	4-CHLOROANILINE	330.	ND	U
87-68-3	HEXACHLOROBUTADIENE	330.	ND	U
59-50-7	4-CHLORO-3-METHYLPHENOL	330.	ND	U
91-57-6	2-METHYLNAPHTHALENE	330.	3600.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	330.	ND	U
88-06-2	2,4,6-TRICHLOROPHENOL	330.	ND	U
95-95-4	2,4,5-TRICHLOROPHENOL	1700.	ND	U
91-58-7	2-CHLORONAPHTHALENE	330.	ND	U
88-74-4	2-NITROANILINE	1700.	ND	U
131-11-3	DIMETHYLPHTHALATE	330.	ND	U
208-96-8	ACENAPHTHYLENE	330.	ND	U
606-20-2	2,6-DINITROTOLUENE	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	: #003-163	Anametrix ID	: 9103297-10
Sample ID	: EB27-4'	Analyst	: LM
Matrix	: SOIL	Supervisor	: RG
Date Sampled	: 3/21/91		
Date Extracted	: 3/27/91		
Amount Extracted	: 30.0 g		
Date Analyzed	: 3/29/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
99-09-2	3-NITROANILINE	1700.	ND	U
83-32-9	ACENAPHTHENE	330.	ND	U
51-28-5	2,4-DINITROPHENOL	1700.	ND	U
100-02-7	4-NITROPHENOL	1700.	ND	U
132-64-9	DIBENZOFURAN	330.	ND	U
121-14-2	2,4-DINITROTOLUENE	330.	ND	U
84-66-2	DIETHYLPHTHALATE	330.	ND	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	330.	ND	U
86-73-7	FLUORENE	330.	ND	U
100-01-6	4-NITROANILINE	1700.	ND	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1700.	ND	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	330.	ND	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	330.	ND	U
118-74-1	HEXACHLOROBENZENE	330.	ND	U
87-86-5	PENTACHLOROPHENOL	1700.	ND	U
85-01-8	PHENANTHRENE	330.	ND	U
120-12-7	ANTHRACENE	330.	ND	U
84-74-2	DI-N-BUTYLPHTHALATE	330.	ND	U
206-44-0	FLUORANTHENE	330.	ND	U
129-00-0	PYRENE	330.	ND	U
85-68-7	BUTYLBENZYLPHTHALATE	330.	ND	U
91-94-1	3,3'-DICHLOROBENZIDINE	670.	ND	U
56-55-3	BENZO(A)ANTHRACENE	330.	ND	U
218-01-9	CHRYSENE	330.	ND	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	330.	ND	U
117-84-0	DI-N-OCTYLPHTHALATE	330.	ND	U
205-99-2	BENZO(B)FLUOROANTHENE	330.	ND	U
207-08-9	BENZO(K)FLUOROANTHENE	330.	ND	U
50-32-8	BENZO(A)PYRENE	330.	ND	U
193-39-5	INDENO(1,2,3-CD)PYRENE	330.	ND	U
53-70-3	DIBENZ[A,H]ANTHRACENE	330.	ND	U
191-24-2	BENZO(G,H,I)PERYLENE	330.	ND	U
62-75-9	N-NITROSODIMETHYLAMINE	330.	ND	U
4165-61-1	ANILINE	330.	ND	U
103-33-3	AZOBENZENE	330.	ND	U
92-87-5	BENZIDINE	1700.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Analyzed : 4/ 1/91
Instrument ID : F1

Anametrix ID : 1CB0401V00
Analyst : LY
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	CHLOROMETHANE	10.	ND	U
75-01-4	VINYL CHLORIDE	10.	ND	U
74-83-9	BROMOMETHANE	10.	ND	U
75-00-3	CHLOROETHANE	10.	ND	U
75-69-4	TRICHLOROFLUOROMETHANE	5.	ND	U
75-35-4	1,1-DICHLOROETHENE	5.	ND	U
76-13-1	TRICHLOROTRIFLUOROETHANE	5.	ND	U
67-64-1	ACETONE	20.	ND	U
75-15-0	CARBON DISULFIDE	5.	ND	U
75-09-2	METHYLENE CHLORIDE	5.	7.	
156-60-5	TRANS-1,2-DICHLOROETHENE	5.	ND	U
75-34-3	1,1-DICHLOROETHANE	5.	ND	U
78-93-3	2-BUTANONE	20.	ND	U
156-59-2	CIS-1,2-DICHLOROETHENE	5.	ND	U
67-66-3	CHLOROFORM	5.	ND	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	ND	U
56-23-5	CARBON TETRACHLORIDE	5.	ND	U
71-43-2	BENZENE	5.	ND	U
107-06-2	1,2-DICHLOROETHANE	5.	ND	U
79-01-6	TRICHLOROETHENE	5.	ND	U
78-87-5	1,2-DICHLOROPROPANE	5.	ND	U
75-27-4	BROMODICHLOROMETHANE	5.	ND	U
110-75-8	2-CHLOROETHYLVINYL ETHER	5.	ND	U
108-05-4	VINYL ACETATE	10.	ND	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	ND	U
108-10-1	4-METHYL-2-PENTANONE	10.	ND	U
108-88-3	TOLUENE	5.	ND	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	ND	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	ND	U
127-18-4	TETRACHLOROETHENE	5.	ND	U
591-78-6	2-HEXANONE	10.	ND	U
124-48-1	DIBROMOCHLOROMETHANE	5.	ND	U
108-90-7	CHLOROBENZENE	5.	ND	U
100-41-4	ETHYLBENZENE	5.	ND	U
1330-20-7	XYLENE (TOTAL)	5.	ND	U
100-42-5	STYRENE	5.	ND	U
75-25-2	BROMOFORM	5.	ND	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	ND	U
541-73-1	1,3-DICHLOROBENZENE	5.	ND	U
106-46-7	1,4-DICHLOROBENZENE	5.	ND	U
95-50-1	1,2-DICHLOROBENZENE	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Analyzed : 4/ 2/91
Instrument ID : F1

Anametrix ID : 1CB0402V00
Analyst : LY
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	CHLOROMETHANE	10.	ND	U
75-01-4	VINYL CHLORIDE	10.	ND	U
74-83-9	BROMOMETHANE	10.	ND	U
75-00-3	CHLOROETHANE	10.	ND	U
75-69-4	TRICHLOROFLUOROMETHANE	5.	ND	U
75-35-4	1,1-DICHLOROETHENE	5.	ND	U
76-13-1	TRICHLOROTRIFLUOROETHANE	5.	ND	U
67-64-1	ACETONE	20.	ND	U
75-15-0	CARBON DISULFIDE	5.	ND	U
75-09-2	METHYLENE CHLORIDE	5.	ND	U
156-60-5	TRANS-1,2-DICHLOROETHENE	5.	ND	U
75-34-3	1,1-DICHLOROETHANE	5.	ND	U
78-93-3	2-BUTANONE	20.	ND	U
156-59-2	CIS-1,2-DICHLOROETHENE	5.	ND	U
67-66-3	CHLOROFORM	5.	ND	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	ND	U
56-23-5	CARBON TETRACHLORIDE	5.	ND	U
71-43-2	BENZENE	5.	ND	U
107-06-2	1,2-DICHLOROETHANE	5.	ND	U
79-01-6	TRICHLOROETHENE	5.	ND	U
78-87-5	1,2-DICHLOROPROPANE	5.	ND	U
75-27-4	BROMODICHLOROMETHANE	5.	ND	U
110-75-8	2-CHLOROETHYLVINYL ETHER	5.	ND	U
108-05-4	VINYL ACETATE	10.	ND	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	ND	U
108-10-1	4-METHYL-2-PENTANONE	10.	ND	U
108-88-3	TOLUENE	5.	ND	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	ND	U
79-00-5	1,1,2,-TRICHLOROETHANE	5.	ND	U
127-18-4	TETRACHLOROETHENE	5.	ND	U
591-78-6	2-HEXANONE	10.	ND	U
124-48-1	DIBROMOCHLOROMETHANE	5.	ND	U
108-90-7	CHLOROBENZENE	5.	ND	U
100-41-4	ETHYLBENZENE	5.	ND	U
1330-20-7	XYLENE (TOTAL)	5.	ND	U
100-42-5	STYRENE	5.	ND	U
75-25-2	BROMOFORM	5.	ND	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	ND	U
541-73-1	1,3-DICHLOROBENZENE	5.	ND	U
106-46-7	1,4-DICHLOROBENZENE	5.	ND	U
95-50-1	1,2-DICHLOROBENZENE	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Extracted : 3/27/91
Amount Extracted : 30.0 g
Date Analyzed : 3/28/91
Instrument ID : F2

Anametrix ID : 2CB0327C01
Analyst : UM
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	PHENOL	330.	ND	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	330.	ND	U
95-57-8	2-CHLOROPHENOL	330.	ND	U
541-73-1	1,3-DICHLOROBENZENE	330.	ND	U
106-46-7	1,4-DICHLOROBENZENE	330.	ND	U
100-51-6	BENZYL ALCOHOL	330.	ND	U
95-50-1	1,2-DICHLOROBENZENE	330.	ND	U
95-48-7	2-METHYLPHENOL	330.	ND	U
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	330.	ND	U
106-44-5	4-METHYLPHENOL	330.	ND	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	330.	ND	U
67-72-1	HEXACHLOROETHANE	330.	ND	U
98-95-3	NITROBENZENE	330.	ND	U
78-59-1	ISOPHORONE	330.	ND	U
88-75-5	2-NITROPHENOL	330.	ND	U
105-67-9	2,4-DIMETHYLPHENOL	330.	ND	U
65-85-0	BENZOIC ACID	1700.	ND	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	330.	ND	U
120-83-2	2,4-DICHLOROPHENOL	330.	ND	U
120-82-1	1,2,4-TRICHLOROBENZENE	330.	ND	U
91-20-3	NAPHTHALENE	330.	ND	U
106-47-8	4-CHLOROANILINE	330.	ND	U
87-68-3	HEXACHLOROBUTADIENE	330.	ND	U
59-50-7	4-CHLORO-3-METHYLPHENOL	330.	ND	U
91-57-6	2-METHYLNAPHTHALENE	330.	ND	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	330.	ND	U
88-06-2	2,4,6-TRICHLOROPHENOL	330.	ND	U
95-95-4	2,4,5-TRICHLOROPHENOL	1700.	ND	U
91-58-7	2-CHLORONAPHTHALENE	330.	ND	U
88-74-4	2-NITROANILINE	1700.	ND	U
131-11-3	DIMETHYLPHTHALATE	330.	ND	U
208-96-8	ACENAPHTHYLENE	330.	ND	U
606-20-2	2,6-DINITROTOLUENE	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID	:	Anametrix ID	: 2CB0327C01
Sample ID	: BLANK	Analyst	: LH
Matrix	: SOIL	Supervisor	: PG
Date Sampled	: 0/ 0/ 0		
Date Extracted	: 3/27/91		
Amount Extracted	: 30.0 g		
Date Analyzed	: 3/28/91	Dilution Factor	: 1.00
Instrument ID	: F2	Conc. Units	: ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
99-09-2	3-NITROANILINE	1700.	ND	U
83-32-9	ACENAPHTHENE	330.	ND	U
51-28-5	2,4-DINITROPHENOL	1700.	ND	U
100-02-7	4-NITROPHENOL	1700.	ND	U
132-64-9	DIBENZOFURAN	330.	ND	U
121-14-2	2,4-DINITROTOLUENE	330.	ND	U
84-66-2	DIETHYLPHTHALATE	330.	ND	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	330.	ND	U
86-73-7	FLUORENE	330.	ND	U
100-01-6	4-NITROANILINE	1700.	ND	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1700.	ND	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	330.	ND	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	330.	ND	U
118-74-1	HEXACHLOROBENZENE	330.	ND	U
87-86-5	PENTACHLOROPHENOL	1700.	ND	U
85-01-8	PHENANTHRENE	330.	ND	U
120-12-7	ANTHRACENE	330.	ND	U
84-74-2	DI-N-BUTYLPHTHALATE	330.	ND	U
206-44-0	FLUORANTHENE	330.	ND	U
129-00-0	PYRENE	330.	ND	U
85-68-7	BUTYLBENZYLPHTHALATE	330.	ND	U
91-94-1	3,3'-DICHLOROBENZIDINE	670.	ND	U
56-55-3	BENZO(A)ANTHRACENE	330.	ND	U
218-01-9	CHRYSENE	330.	ND	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	330.	ND	U
117-84-0	DI-N-OCTYLPHTHALATE	330.	ND	U
205-99-2	BENZO(B)FLUORANTHENE	330.	ND	U
207-08-9	BENZO(K)FLUORANTHENE	330.	ND	U
50-32-8	BENZO(A)PYRENE	330.	ND	U
193-39-5	INDENO(1,2,3-CD)PYRENE	330.	ND	U
53-70-3	DIBENZ[A,H]ANTHRACENE	330.	ND	U
191-24-2	BENZO(G,H,I)PERYLENE	330.	ND	U
62-75-9	N-NITROSODIMETHYLAMINE	330.	ND	U
4165-61-1	ANILINE	330.	ND	U
103-33-3	AZOBENZENE	330.	ND	U
92-87-5	BENZIDINE	1700.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : #003-163
Matrix : SOLID

Anametrix ID : 9103297
Analyst : [illegible]
Supervisor : [illegible]

	SAMPLE ID	SU1	SU2	SU3	TOTAL OUT
1	BLANK	84	101	88	0
2	EB6-5.5'	83	94	90	0
3	EB38-6'	84	98	82	0
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SU1 = 1,2-DICHLOROETHANE-D4	(73-130)
SU2 = TOLUENE-D8	(74-121)
SU3 = BROMOFLUOROBENZENE	(70-124)

* Values outside of Anametrix QC limits

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : #003-163
Matrix : SOLID

Anametrix ID : 9103297
Analyst : LT
Supervisor : PC

	SAMPLE ID	SU1	SU2	SU3	TOTAL OUT
1	BLANK	107	98	96	0
2	EB27-4'	97	98	103	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SU1 = 1,2-DICHLOROETHANE-D4	(73-130)
SU2 = TOLUENE-D8	(74-121)
SU3 = BROMOFLUOROBENZENE	(70-124)

* Values outside of Anametrix QC limits

SURROGATE RECOVERY SUMMARY -- EPA METHOD 625/8270
ANAMETRIX, INC. (408)432-8192

Project ID : #003-163
Matrix : SOLID

Anametrix ID : 9103297
Analyst : CM
Supervisor : PG

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6	TOTAL OUT
1	BLANK	44	32	48	46	80	45	0
2	EB27-4'	54	44	41	52	30	50	0
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
SU1 = 2-FLUOROPHENOL	(14-118)
SU2 = PHENOL-D5	(20-122)
SU3 = NITROBENZENE-D5	(11-101)
SU4 = 2-FLUOROBIPHENYL	(17-102)
SU5 = 2,4,6-TRIBROMOPHENOL	(14-151)
SU6 = TERPHENYL-D14	(10- 74)

* Values outside of Anametrix QC limits

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : GC
Sub-Department: TPH

AMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9103297- 1	EB6-5.5'	SOIL	03/21/91	TPHd
9103297- 2	EB9-6.75'	SOIL	03/21/91	TPHd
9103297- 3	EB12-6'	SOIL	03/21/91	TPHd
9103297- 6	EB23-7'	SOIL	03/21/91	TPHd
9103297- 7	EB24-6'	SOIL	03/21/91	TPHd
9103297- 9	EB26-6'	SOIL	03/21/91	TPHd
9103297-10	EB27-4'	SOIL	03/21/91	TPHd
9103297-11	EB38-6'	SOIL	03/21/91	TPHd
9103297-12	EB39-6'	SOIL	03/21/91	TPHd
9103297- 1	EB6-5.5'	SOIL	03/21/91	TPHg
9103297-10	EB27-4'	SOIL	03/21/91	TPHg
9103297-11	EB38-6'	SOIL	03/21/91	TPHg
9103297- 2	EB9-6.75'	SOIL	03/21/91	TPHg/BTEX
9103297- 3	EB12-6'	SOIL	03/21/91	TPHg/BTEX
9103297- 6	EB23-7'	SOIL	03/21/91	TPHg/BTEX
9103297- 7	EB24-6'	SOIL	03/21/91	TPHg/BTEX
9103297- 9	EB26-6'	SOIL	03/21/91	TPHg/BTEX
9103297-12	EB39-6'	SOIL	03/21/91	TPHg/BTEX

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as diesel for sample EB27-4' is primarily due to the presence of a lighter petroleum product, possibly gasoline.

Department Supervisor — Date 4/15/

Chemist — Date 04-10-91

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91

Project Number : #003-163-02
Date Released : 04/08/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# EB6-5.5' -01	Sample I.D.# EB9-6.75' -02	Sample I.D.# EB12-6' -03	Sample I.D.# EB23-7' -06	Sample I.D.# EB24-6' -07
Benzene	0.005	-	ND	ND	ND	ND
Toluene	0.005	-	ND	ND	ND	ND
Ethylbenzene	0.005	-	ND	ND	ND	ND
Total Xylenes	0.005	-	ND	ND	ND	ND
TPH as Gasoline	0.5	17	ND	ND	ND	ND
% Surrogate Recovery		113%	97%	102%	104%	57%
Instrument I.D.		HP8	HP4	HP4	HP4	HP4
Date Analyzed		03/28/91	03/28/91	03/28/91	03/28/91	03/28/91
RLMF		10	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

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

Inna Shor 4/3/91
Analyst Date

Cheryl Palmer 4/9/91
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91

Project Number : #003-163-02
Date Released : 04/08/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# EB26-6' -09	Sample I.D.# EB27-4' -10	Sample I.D.# EB38-6' -11	Sample I.D.# EB39-6' -12	Sample I.D.# 04B0328B BLANK
Benzene	0.005	ND	-	-	ND	ND
Toluene	0.005	ND	-	-	ND	ND
Ethylbenzene	0.005	ND	-	-	ND	ND
Total Xylenes	0.005	ND	-	-	ND	ND
TPH as Gasoline	0.5	ND	1900	ND	ND	ND
% Surrogate Recovery		106%	147%	129%	86%	100%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		03/28/91	03/29/91	03/28/91	03/28/91	03/28/91
RLMF		1	500	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

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

Inna Shar 4/9/91
Analyst Date

Cheryl Bauman 4/9/91
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91

Project Number : #003-163-02
Date Released : 04/08/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# 04B0329A BLANK	Sample I.D.# 08B0328A BLANK
Benzene	0.005	ND	ND
Toluene	0.005	ND	ND
Ethylbenzene	0.005	ND	ND
Total Xylenes	0.005	ND	ND
TPH as Gasoline	0.5	ND	ND
% Surrogate Recovery		111%	100%
Instrument I.D.		HP4	HP8
Date Analyzed		03/29/91	03/28/91
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

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

Irma Shor 4/9/91
Analyst Date

Cheryl Balmer 4/9/91
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91
Date Extracted: 03/26/91

Project Number : #003-163-02
Date released : 04/08/91
Instrument I.D.: HP19

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9103297-01	EB6-5.5'	03/27/91	10	ND
9103297-02	EB9-6.75'	03/27/91	10	ND
9103297-03	EB12-6'	03/27/91	10	ND
9103297-06	EB23-7'	03/27/91	10	ND
9103297-07	EB24-6'	03/27/91	10	ND
9103297-09	EB26-6'	03/27/91	10	ND
9103297-10	EB27-4'	03/27/91	10	250
9103297-11	EB38-6'	03/27/91	10	ND
9103297-12	EB39-6'	03/28/91	10	ND
DSBL032691	METHOD BLANK	03/27/91	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10mg/Kg.
ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

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

Analyst 09-10-91 Date

Supervisor 4/9/91 Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : #003-163-02 EB26-6
Matrix : SOIL
Date sampled : 03/21/91
Date analyzed : 03/28/91

Anametrix I.D. : 9103279-09
Analyst : IS
Supervisor : CB
Date Released : 04/08/91

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	RPD	%REC LIMITS
Gasoline	1.0	0.8	80%	0.8	80%	0%	48-145

* Limits established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 003-163-02 EB39-6'
Matrix : SOIL
Date sampled : 03/21/91
Date extracted: 03/26/91
Date analyzed : 03/28/91

Anametrix I.D. : 9103297-12
Analyst : IS
Supervisor : CB
Date Released : 04/08/91

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	RPD	%REC LIMITS
Diesel	83	66	80%	61	73%	-8%	50-130

* Limits established by Anametrix, Inc.

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9103297- 1	EB6-5.5'	SOIL	03/21/91	5520EF
9103297- 6	EB23-7'	SOIL	03/21/91	5520EF
9103297- 7	EB24-6'	SOIL	03/21/91	5520EF
9103297-10	EB27-4'	SOIL	03/21/91	5520EF
9103297-11	EB38-6'	SOIL	03/21/91	5520EF
9103297-12	EB39-6'	SOIL	03/21/91	5520EF

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

April, 10TH 1991.
Department Supervisor Date

4-10-91
Chemist Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE
ANAMETRIX, INC. (408) 432-8192

Project # : #003-163-02
Matrix : SOIL
Date sampled : 03/21/91
Date ext. TOG: 03/28/91
Date anl. TOG: 03/28/91

Anametrix I.D. : 9103297
Analyst : APK
Supervisor : [signature]
Date released : 04/09/91

Workorder #	Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9103297-01	EB6-5.5'	30	ND
9103297-06	EB23-7'	30	ND
9103297-07	EB24-6'	30	70
9103297-10	EB27-4'	30	80
9103297-11	EB38-6'	30	ND
9103297-12	EB39-6'	30	ND
GSBL032891	METHOD BLANK	30	ND

ND - Not detected at or above the practical quantitation limit for the method.
TOG - Total Oil & Grease is determined by Standard Method 5520EF.

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

TOTAL OIL AND GREASE MATRIX SPIKE REPORT
STANDARD METHOD 5520EF
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : #003-163-02 EB23-7'
Matrix : SOIL
Date sampled : 03/21/91
Date extracted: 03/28/91
Date analyzed : 03/28/91

Anametrix I.D. : 9103297-06
Analyst : AA
Supervisor : GP
Date Released : 04/09/91

COMPOUND	SPIKE AMT. (mg/Kg)	9103297 MS (mg/Kg)	%REC MS	9103297 MSD (mg/Kg)	%REC MSD	RPD	% REC LIMITS
Motor Oil	300	207	69%	210	70%	1.4%	48-114%

Quality control limits established by Anametrix, Inc.

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9103297- 1	EB6-5.5'	SOIL	03/21/91	6010
9103297-10	EB27-4'	SOIL	03/21/91	PP-MET

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

MR. GARY ZACCOR
ZACCOR CORP.
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Workorder # : 9103297
Date Received : 03/25/91
Project ID : #003-163-02
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- Spike recoveries for cadmium, nickel and antimony EPA Method 6010 were outside of Anametrix control limits due to matrix effects.
- Spike recoveries for chromium EPA Method 6010 were outside of Anametrix control limits due to relatively high levels present in the unspiked sample.

Department Supervisor — 4/8/91 Date

Chemist — Mona Kamel — 4/08/91 Date

ANALYSIS DATA SHEET - PRIORITY POLLUTANT METALS
ANAMETRIX, INC. - (408) 432-8192

Anametrix I.D.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91
Project Number: #003-163-02

Date Prepared : 03/26/91
Date Analyzed : 03/27/91
Date Released : 04/08/91
Instrument I.D.: AA1/ICP1

ELEMENTS	EPA Method#	Reporting Limit (mg/Kg)	Sample I.D.# EB27-4' -10	Sample I.D.# BLANK MB0326S			
Silver (Ag)	6010	0.50	ND	ND			
Arsenic (As)	7060	0.50	1.2	ND			
Beryllium (Be)	6010	0.25	ND	ND			
Cadmium (Cd)	6010	0.25	ND	ND			
Total Cr	6010	0.50	55.4	ND			
Copper (Cu)	6010	1.25	7.5	ND			
Mercury (Hg)	7471	0.025	ND	ND			
Nickel (Ni)	6010	2.0	38.2	ND			
Lead (Pb)	7421	0.15	7.3	ND			
Antimony (Sb)	6010	3.0	ND	ND			
Selenium (Se)	7740	0.25	ND	ND			
Thallium (Tl)	7841	0.50	ND	ND			
Zinc (Zn)	6010	1.0	20.0	ND			

ND : Not detected at or above the practical quantitation limit for the method.

All Metals by EPA Method 6010/7000, Test Methods for Evaluating Solid Waste, SW-846 3rd Edition November 1986.

Manny Nguyen 4/08/91
Chemist Date

Hmakamel 4/08/91
Chemist Date

ANALYSIS DATA SHEET - INDIVIDUAL METALS
ANAMETRIX, INC. - (408) 432-8192

Anametrix I.D.: 9103297
Matrix : SOIL
Date Sampled : 03/21/91
Project Number: #003-163-02

Date Prepared : 03/26/91
Date Analyzed : 03/27/91
Date Released : 04/08/91
Instrument I.D.: ICP1

ELEMENTS	EPA Method#	Reporting Limit (mg/Kg)	Sample I.D.# EB6-5.5' -01
Cadmium (Cd)	6010	0.25	ND
Total Cr	6010	0.50	41.0
Nickel (Ni)	6010	2.0	30.8
Lead (Pb)	6010	2.0	ND
Zinc (Zn)	6010	1.0	17.9

ND : Not detected at or above the practical quantitation limit for the method.

All Metals by EPA Method 6010/7000, Test Methods for Evaluating Solid Waste, SW-846 3rd Edition November 1986.

Manny Quyen 4/08/91
Chemist Date

Mona Kamel 4/08/91
Chemist Date

ANAMETRIX, INC.
1961 CONCOURSE DRIVE, SUITE E
SAN JOSE, CA 95131, (408) 432-8192

INORGANICS MATRIX SPIKE REPORT

Spike I.D. : 9103297-10MS,MD
Date Prepared: 03/26/91
Date Analyzed: 03/27/91
Assoc. WO # : 9103297

Inst. ID : ICP1/AA1
Date : 024/08/91
Matrix : SOIL
Conc. Units: mg/Kg

ELEMENTS	METHOD	SPIKE AMOUNT	SAMPLE CONC.	M S CONC.	% REC	M S D CONC.	% REC	R P D
Ag	6010	50.0	0.0	56.3	113	53.2	106	5.7
As	7060	100	1.2	86.9	85.7	93.3	92.1	7.2
Be	6010	2.50	0.0	2.8	113	2.8	112	1.1
Cd	6010	2.50	0.0	NR	NR	NR	NR	NR
TTl Cr	6010	10.0	55.4	60.2	48.0	59.4	40.0	18.2
Cu	6010	12.5	7.5	18.3	86.4	19.0	92.0	6.3
Hg	7471	0.250	0.0	0.301	120	0.301	120	0.0
Ni	6010	25.0	38.2	55.3	68.4	55.8	70.4	2.9
Pb	7421	25.0	7.3	28.2	83.6	28.1	83.2	0.5
Sb	6010	25.0	0.0	NR	NR	NR	NR	NR
Se	7740	100	0.0	82.6	82.6	95.2	95.2	14.2
Tl	7841	100	0.0	91.0	91.0	82.3	82.3	10.0
Zn	6010	25.0	20.0	41.5	86.0	43.2	92.8	7.6

COMMENT: Quality control limits for percent recovery are 75-125% and 25% for RPD.

NR : Not reported due to matrix effects.

Analyst 4/8/91 Date

Analyst 4/08/1991 Date

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

REPORT

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9104133
Date Received : 04/15/91
Project ID : 003-163-03
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9104133- 1	EB46-4
9104133- 2	EB47-4.5
9104133- 3	EB48-4
9104133- 4	EB52-4.5
9104133- 5	EB55-3
9104133- 6	EB62-3
9104133- 7	EB61-5

This report consists of 9 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

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

Sarah Schoen, Ph.D.
Laboratory Manager

4-25-91
Date

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9104133
Date Received : 04/15/91
Project ID : 003-163-03
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104133- 2	EB47-4.5	SOIL	04/11/91	TPHg/BTEX
9104133- 4	EB52-4.5	SOIL	04/11/91	TPHg/BTEX
9104133- 5	EB55-3	SOIL	04/11/91	TPHg/BTEX
9104133- 6	EB62-3	SOIL	04/11/91	TPHg/BTEX
9104133- 7	EB61-5	SOIL	04/11/91	TPHg/BTEX

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9104133
Date Received : 04/15/91
Project ID : 003-163-03
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor Date

Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9104133
Matrix : SOIL
Date Sampled : 04/11/91

Project Number : 003-163-03
Date Released : 04/18/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# EB47-4.5 -02	Sample I.D.# EB52-4.5 -04	Sample I.D.# EB55-3 -05	Sample I.D.# EB62-3 -06	Sample I.D.# EB61-5 -07
Benzene	0.005	ND	ND	ND	ND	ND
Toluene	0.005	ND	ND	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND	0.31	ND
Total Xylenes	0.005	ND	ND	ND	1.0	ND
TPH as Gasoline	0.5	ND	ND	ND	97	ND
% Surrogate Recovery		85%	77%	89%	102%	84%
Instrument I.D.		HP8	HP8	HP8	HP8	HP8
Date Analyzed		04/17/91	04/17/91	04/17/91	04/17/91	04/17/91
RLMF		1	1	1	10	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

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

Analyst Gerald Voigt 4/18/91 Date

Supervisor Cheryl Balman 4/18/91 Date

RESULTS - TPH - PAGE 1

BTEX MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 003-163-03 EB61-5
Matrix : SOIL
Date Sampled : 04/11/91
Date Analyzed : 04/17/91

Anametrix I.D.: 9104133-07
Analyst : GJ
Supervisor : CB
Date Released : 04/18/91

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	REC MS	MSD (mg/Kg)	REC MSD	RPD	%REC LIMITS
Benzene	0.010	0.010	98%	0.012	122%	21%	49-159
Toluene	0.010	0.009	93%	0.011	113%	19%	53-156
Ethylbenzene	0.010	0.010	99%	0.013	131%	27%	54-151
M+P-Xylenes	0.007	0.007	102%	0.009	128%	23%	56-157
O-Xylene	0.003	0.004	107%	0.004	127%	17%	58-154
P-BFB			85%		66%		53-147

* Limits established by Anametrix, Inc.

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9104133
Date Received : 04/15/91
Project ID : 003-163-03
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9104133- 2	EB47-4.5	SOIL	04/11/91	5520EF
9104133- 4	EB52-4.5	SOIL	04/11/91	5520EF
9104133- 5	EB55-3	SOIL	04/11/91	5520EF
9104133- 6	EB62-3	SOIL	04/11/91	5520EF

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

MR. GARY ZACCOR
ZACCOR CORP.
791 HAMILTON AVE.
MENLO PARK, CA 94025

Workorder # : 9104133
Date Received : 04/15/91
Project ID : 003-163-03
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

April 23rd 1991.
Department Supervisor Date

Chemist 4/23/91
Date

PREP/PREP - PAGE 2

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9104133
Matrix : SOIL
Date Sampled : 04/11/91

Project Number : 003-163-03
Date Released : 04/18/91

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# 08B0417A BLANK
Benzene	0.005	ND
Toluene	0.005	ND
Ethylbenzene	0.005	ND
Total Xylenes	0.005	ND
TPH as Gasoline	0.5	ND
% Surrogate Recovery		120%
Instrument I.D.		HP8
Date Analyzed		04/17/91
RLMF		1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.
RLMF - Reporting Limit Multiplication Factor.
Anametrix control limits for surrogate recovery are 53-147%.

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

Analyst Date

Supervisor Date

ANALYSIS DATA SHEET - TOTAL OIL AND GREASE
ANAMETRIX, INC. (408) 432-8192

Project # : 003-163-03
Matrix : SOIL
Date sampled: 04/11/91
Date ext. TOG: 04/16/91
Date anl. TOG: 04/16/91

Anametrix I.D. : 9104133
Analyst : APP
Supervisor : CEO
Date released : 04/22/91

Workorder #	Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9104133-02	EB47-4.5	30	ND
9104133-04	EB52-4.5	30	ND
9104133-05	EB55-3	30	ND
9104133-06	EB62-3	30	380
GSBL041691	METHOD BLANK	30	ND

ND - Not detected at or above the practical quantitation limit for the method.
TOG - Total Oil & Grease is determined by Standard Method 5520E&F.

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

TOTAL OIL AND GREASE MATRIX SPIKE REPORT
STANDARD METHOD 5520EF
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 003-163-03 EB52-4.5
Matrix : SOIL
Date sampled : 04/11/91
Date extracted: 04/16/91
Date analyzed : 04/16/91

Anametrix I.D. : 9104133-04
Analyst : APP.
Supervisor : AP
Date Released : 04/25/91

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	%RPD	% REC LIMITS
Motor Oil	300	230	77%	230	77%	0%	48-114%

* Quality control limits established by Anametrix, Inc.

Zaccor Corporation
Keizer Estate
1825 Park Street
Alameda, California

APPENDIX C

CHAIN OF CUSTODY FORMS

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Keizer Estate
1825 Park St.
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163-02
DATE SAMPLED: 3/21/91

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
EB6-5.5'	Soil		HOLD
EB9-6.75'	"		"
EB12-6'	"		"
EB15-6'	"		"
EB21-5'	"		"
EB23-7'	"		"
EB24-6'	"		"

Sampling Performed By Brenda D. McNabb

Sampling Completed At 2:30 AM/(PM)

Released By:	Accepted By:	Time/Date	
Brenda D. McNabb	Benny B. Carrejon	2:50	3/21/91
Benny B. Carrejon		1540	3/21/91
			__/__/__
			__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Keizer Estate
1825 Park St.
Alameda CA

CLIENT: Zaccor Corp.
EBS #: #003-163-02
DATE SAMPLED: 3/21/91

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
EB25-6'	Soil		HOLD
EB26-6'	"		"
EB27-4'	"		"
EB38-6'	"		"
EB39-6'	"		"
EB40-6'	"		"

Sampling Performed By Brenda D. McNabb

Sampling Completed At 2:30 AM/PM

Released By:	Accepted By:	Time/Date	
Brenda D. McNabb	Benny A. Carrizosa	2:50	3/21/91
			__/__/__
			__/__/__
			__/__/__

ENVIRONMENTAL BIO-SYSTEMS, INC.
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS: Keizer Estate
1825 Park St.
Alameda CA

CLIENT: Zaccor Corp.
EBS #:#003-163-03
DATE SAMPLED: 4/11/91

LABORATORY: Anametrix HMTL#: 151

SAMPLE #	MATRIX	ANALYSIS	TURNAROUND
EB46-4'	Soil	HOLD	
EB47-4.5'	"	"	
EB48-4'	"	"	
EB52-4.5'	"	"	
EB55-3'	"	"	
EB62-3'	"	"	
EB61-5'	"	"	

Sampling Performed By Brenda D. McNabb

Sampling Completed At 2:45 AM/(PM)

Released By:	Accepted By:	Time/Date	
Brenda D. McNabb	Michael Gibbs	7:03	4/11/91
			__/__/__
			__/__/__
			__/__/__

CC: Copy of Report to Environmental Bio-Systems, Inc.