REPORT DOCUMENTING FOUR QUARTERS OF MONITORING THREE GROUNDWATER MONITORING WELLS

for

FOWLER ANDERSON MORTUARY 2244 SANTA CLARA STREET ALAMEDA, CALIFORNIA

4-6-92

4-2-92

R. W. SREENSFELDER
No. 003011

рy

ZACCOR CORPORATION

Gary Zaccor

Project Manager

ENVIRONMENTAL TECHNICAL SERVICES

Helen Mawhinney

Senior Environmental Specialist

REGISTERED GEOLOGIST

Roger W. Greensfelder PhD

License #3011

March 22, 1992

**791 HAMILTON AVENUE** 

MENLO PARK, CA. 94025

(415) 363-2181

CORPORATION

A REPORT DOCUMENTING FOUR QUARTERS OF MONITORING THREE GROUNDWATER MONITORING WELLS

at

FOWLER ANDERSON MORTUARY 2244 SANTA CLARA STREET ALAMEDA, CALIFORNIA

March 22, 1992

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#### APPENDIX C

Anametrix, Inc.
Monitoring well Development & Sampling Reports
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5-30-91
9-20-91
12-19-91

#### APPENDIX D

Anametrix, Inc.
Monitoring Well Analytical Report
2-28-91
5-30-91
9-20-91
12-19-91

#### 1.0 INTRODUCTION

The following report documents the quarterly monitoring of three groundwater monitoring wells at Fowler Anderson Mortuary, 2244 Santa Clara Street, Alameda, California.

The wells were installed subsequent to the removal of three underground storage tanks and following the excavation of contaminated soil.

#### 2.0 BACKGROUND

#### 2.1 Site Description

The site is located in the City and County of Alameda. A mortuary is located on the property. The area is primarily residential with some small industrial related businesses.

#### 2.2 Tank Removal

Three underground storage tanks (USTs) were removed on January 8, 1991, by the Zaccor Corporation from the above referenced address. The tank sizes and contents were as follows; one 50-gallon fuel oil tank, one 350-gallon fuel oil tank and one 50 gallon hydraulic oil reservoir tank.

Certified laboratory analysis of a soil sample collected from beneath the 50-gallon hydraulic oil reservoir tank detected an amount of Total Petroleum Hydrocarbons as hydraulic oil at 1,400 ppm.

No detectable amount of petroleum hydrocarbons was detected beneath either of the two fuel oil tanks.

#### 2.3 Excavation of Contaminated Soil

Contaminated soil was excavated from the 50-gallon hydraulic oil tank pit by the Zaccor Corporation on January 21, 1991. Subsequently confirmatory soil samples were collected and found to be without detectable amounts of previously detected contaminants.

Refer to the Monitoring Well Installation Report, by Zaccor Corporation dated March 20, 1991, which includes the Zaccor Corporation Tank Removal and Excavation of Contaminated Soil Report.

# 2.4 Installation of Groundwater Monitoring Wells

The monitoring wells were installed by the Zaccor Corporation on February 2, 1991, in response to the detection of hydrocarbons within soil at the time of the hydraulic oil tank (UST) removal.

Three monitoring wells were installed to determine groundwater gradient and to be monitored on a quarterly basis to determine the impact, if any, of contaminants upon the first encountered aquifer.

# 3.0 QUARTERLY MONITORING OF GROUNDWATER

Anametrix Incorporated, a State Certified Hazardous Waste Analytical Laboratory, was retained by the Zaccor Corporation to develop the wells and perform groundwater sampling on a quarterly basis as requested by the Alameda County Department of Environmental Health.

# 3.1 Monitoring Well Development

At consistent intervals throughout the well purging, pH, conductivity, and temperature were monitored to evaluate stabilization of the wells. Upon stabilization the wells were sampled.

The monitoring well development and initial sample collection was conducted on February 28, 1991, by Mr. Taghi of Anametrix, Inc.

The 2nd quarter sampling performed on May 30, 1991, 3rd quarter sampling on September 20, 1991 and the fourth quarter sampling on December 19, 1991 were also performed by Mr. Taghi of Anametrix, Inc..

Refer to Appendix B, Quarterly Monitoring Report for the well sampling and development data.

# 3.2 Groundwater Sampling Procedures

A water sample was collected from each well using a clean Teflon bailer. The water sample was decanted from the bailer into two clean one-liter amber bottles with teflon septum to a positive meniscus. Each water sample container was labeled with the appropriate well number, sampler's name, time and date of collection, and recorded on a chain of custody for transport on blue ice to a certified hazardous waste analytical laboratory.

## 3.3 Groundwater Analysis

Each water sample was analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil, using EPA Method 3510.

TABLE I

GROUNDWATER SAMPLE ANALYTICAL RESULTS
all results are reported in ppb

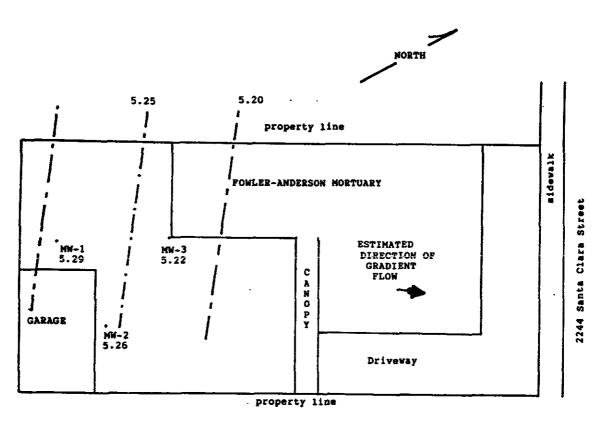
Date	Sample#	TPH as Hydraulic Oil
MW+1 2-28-91	MW-1	ND
5-30-91	MW-1	ND
9-20-91	MW-1	ND
12-19-91	MW-1	ND
145 - O		
MW-2 2-28-91	MW-2	ND
5-30-91	MW-2	ND
9-20-91	MW-2	ND
12-19-91	MW-2	ND
MW-3		
	MW-3	ND
5-30-91	MM-3	ND
9-20-91	MW-3	ND
12-19-91	MW-3	ND

## 3.5 Groundwater Gradient

TABLE II

HW	TOC ELEV. (ft)	DATE	WATER DEPTH	WATER ELEV.
1	14.39	3/12/91	(9.10)	5.29
2	14.32	3/12/91	9.06	5.25
3	13.86	3/12/91	(8.64	5.22

Datam= surveyors level assumed to be at 20



0 12.5 25 feet

# 4.0 RECOMMENDATIONS AND CONCLUSIONS

Groundwater samples collected within MW-1, MW-2 and MW-3 were analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil.

Therefore it is our recommendation that no further monitoring be required.

#### 5.0 REPORT

Copies of this report, chain of custody, and laboratory analytical reports should be submitted to the San Francisco Regional Water Quality Control Board, and the San Mateo County Department of Environmental Health, Division of Hazardous Materials.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 94612

Alameda County
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California

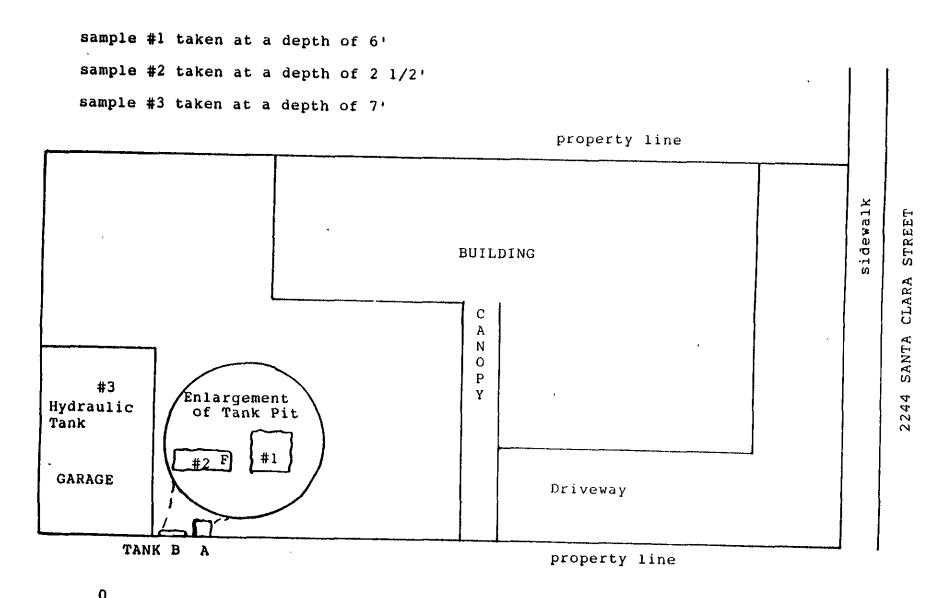
## APPENDIX A MAPS

- Figure 1. Site Location Map
- Figure 2. Tank & Sample Location Map
- Figure 3. Tank Pit Excavation
- Figure 4. Monitoring Well Locaton Map



FOWLER-ANDERSON MORTUARY
2244 Santa Clara Street
Alameda, California

Figure 1. Site Location Map

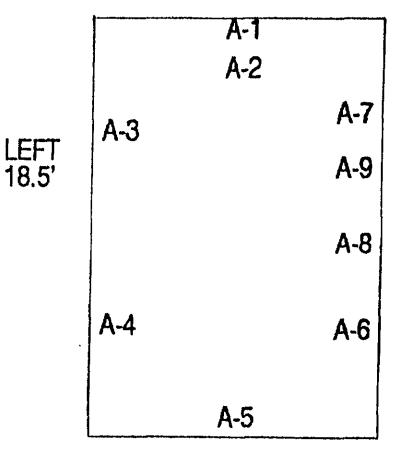


SCALE

A-1 7'	A-6 6.5'
A-2 11'	A-7 7'
A-3 10.5'	A-8 7'
A-4 7'	A-9 10.5
A-5 7'	

SITE LOCATION 2240 SANTA CLARA AVE. ALAMEDA, CA. SAMPLING DATE 1/24/91

FRONT 13.00'



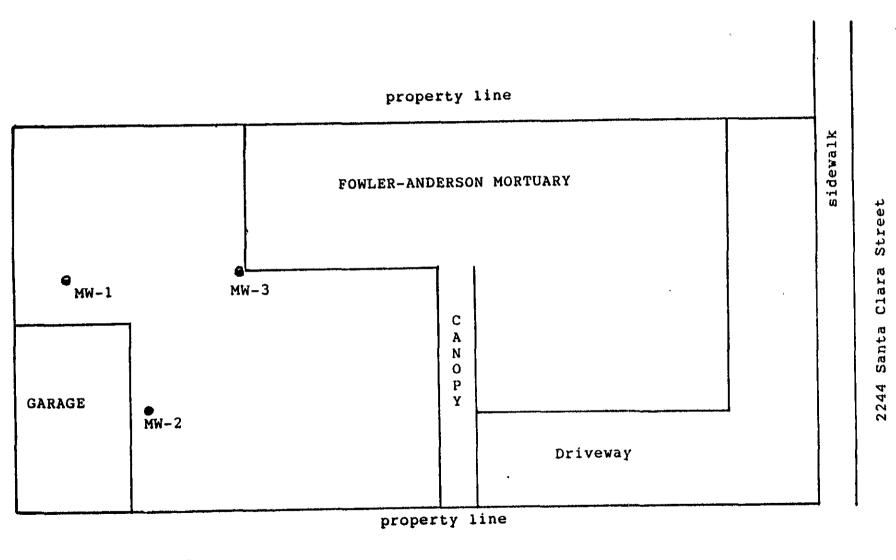
18.5'

RIGHT

18.5'

**BACK 10.00'** 

## NORTH



0 12.5 25 feet
scale

Figure 4. Monitoring Well Location Map

APPENDIX B
Report Documenting the Installation
of Three Monitoring Wells
Zaccor Corporation, March 20, 1991



ZACCOR CORPORATION MONITORING WELL INSTALLATION at:

FOWLER - ANDERSON MORTUARY

2244 SANTA CLARA STEET

ALAMEDA CALIFORNIA

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Appendix F Analytical Results



March 20, 1991

Ian Weber 1150 Ballena Boulevard Suite 211 Alameda, California 94501

Attention: Mr. Weber

# MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING REPORT

The following report documents the installation of three groundwater monitoring wells by S & G Drilling and Environmental Technical Services on February 2, 1991 at:

FOWLER ANDERSON MORTUARY 2244 SANTA CLARA STREET ALAMEDA, CALIFORNIA

#### BACKGROUND

## Tank Removal

On January 8, 1991, three underground storage tanks were removed from the above mentioned address. The tank sizes and contents were as follows; one 50-gallon fuel oil tank, one 350-gallon fuel oil tank, and one 50-gallon hydraulic reservoir underground tank.

Certified laboratory analysis revealed that soil samples collected from beneath the fuel oil tanks contained no detectable concentrations of petroleum hydrocarbons at their lower detection limit. Soil samples collected from beneath the 50-gallon hydraulic oil reservoir contained concentrations of total petroleum hydrocarbons as hydraulic oil at 1,400 ppm. For Tank Removal Report refer to Appendix B.

# Excavation of Contaminated Soil

Contaminated soil was excavated from the 50-gallon hydraulic oil tank pit by the Zaccor Corporation on January 21, 1991. Confirmatory samples were collected from the sidewalls and floor of the excavation. Collected soil samples were analyzed for total petroleum hydrocarbons as hydraulic oil (EPA Method 3550) using a hydraulic oil standard. All soil samples were found to be without detectable concentrations of total petroleum hydrocarbons as hydraulic oil. For the Excavation of Contamination report refer to Appendix C.

#### SCOPE OF SERVICES

The scope of services included the installation of three 2" groundwater monitoring wells. These wells were installed to determine the impact, if any, of contaminants upon the first encountered aquifer beneath the site. Soil samples were collected at 5' intervals within each soil boring. Soil was classified according to the Unified Soil Classification System. Upon completion of the monitoring well, groundwater gradient was surveyed. The well was developed and a water sample collected for analysis.

Construction, development and sampling of the wells was performed in accordance with guidelines set forth by the Regional Water Quality Control Board (RWQCB) San Francisco Bay Region and the Alameda County Department of Environmental Health Services.

The work was performed to comply with State and County Regulations in response to the presence of petroleum hydrocarbons discovered at the time of the Hydraulic oil reservoir tank removal.

## WELL INSTALLATION

Three soil borings were advanced using a truck mounted hydraulically driven drill rig equipped with 8" outside diameter augers and completed as two inch diameter monitoring wells.

Augers were decontaminated between borings using a high pressure wash heated to 248 degrees Fahrenheit.

For well locations, construction details and boring logs for each of the three wells, refer to Appendix D.

## SOIL SAMPLE COLLECTION

Soil samples were collected at five foot intervals using a California Modified Split Spoon Sampler driven by the drill rig. Immediately upon opening the sampler a brass sleeve was removed. Each end of the brass sleeve was covered with aluminum foil, fitted with plastic caps, sealed with duct tape, labeled, and placed on dry ice under chain of custody to be transported to a certified hazardous waste analytical laboratory. The sampler was decontaminated between samples using a tri-sodium phosphate wash and tap water rinse.

#### SOIL SAMPLE LOCATION

## MW-1 Soil samples were collected at: 6' - 6.5' 12' - 12.5' 16' - 16.5' 21 - 21.5' MW-2 Soil samples were collected at: 6' - 6.5' 11' - 11.5' 15' - 15.5' 21' - 21.5' MW-3 Soil samples were collected at: 6' - 6.5' 11' - 11.5' 16' - 16.5' 21' - 21.5'

#### SOIL SAMPLE ANALYSIS

#### MW-1

Soil Sample #MW-1 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-1 12' - 12.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 16' - 16.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 21' - 21.5' was placed on hold and not analyzed.

#### MW-2

Soil Sample #MW-2 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-2 11' - 11.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-2 15' - 15.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-1 20' - 20.5' was placed on hold and not analyzed.

DEAT 9

#### MW-3

Soil Sample #MW-3 6' - 6.5' was placed on hold and not analyzed.

Soil sample #MW-3 11' - 11.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-3 16' - 16.5' was analyzed for total petroleum hydrocarbons as hydraulic oil.

Soil sample #MW-3 21' - 21.5' was placed on hold and not analyzed.

#### ANALYTICAL RESULTS

All samples analyzed contained no detectable concentrations of total petroleum hydrocarbons as hydraulic oil at its lower detection limit.

#### WELL DEVELOPMENT

Development and sampling of the wells was performed on February 28, 1991. All well effluent was contained in Department of Transportation approved 17-H 55 gallon drums pending analysis of water samples.

MW-1 was developed by evacuating water using a B & K Pump. Approximately 60 liters of water was evacuated during development.

MW-2 was developed by evacuating water using a stainless steel bailer. Approximately 40 liters of water was evacuated during development.

MW-3 was developed by evacuating water using a stainless steel bailer. Approximately 60 liters of water was evacuated during development.

#### WELL SAMPLING

On February 28, 1991 each of the three wells was sampled immediately following development. Sampling was performed using a teflon bailer which was decontaminated between wells using a tri-sodium phosphate wash, tap water rinse followed by a de-ionized water rinse. At consistent intervals throughout the well purging pH, conductivity, and temperature was monitored to evaluate stabilization of the wells prior to sampling. Water was decanted into two one-liter amber bottles to a positive meniscus eliminating headspace.

MW-1 The total depth of MW-1 was 19.7 feet and depth to water was 9.88 feet. A volume of 60 liters of water was evacuated from the well prior to the collection of sample #MW-1.

MW-2 The total depth of MW-2 was 15.08 feet and depth to water was 9.86 feet. A volume of 40 liters of water was evacuated from the well prior to the collection of sample #MW-2.

MW-3 The total depth of MW-3 was 19.95 feet and depth to water was 9.56 feet. A volume of 60 liters of water was evacuated from the well prior to the collection of sample #MW-3.

#### ANALYTICAL RESULTS

Water sample were analyzed for total petroleum hydrocarbons as hydraulic oil (EPA Method 3550) using a hydraulic oil standard.

Water sample #MW-1, #MW-2, and #MW-3 contained no detectable concentrations of total petroleum hydrocarbons as hydraulic oil at its lower detection limit.

## GROUNDWATER GRADIENT

# TABLE 1. Depth and Elevation of Groundwater.

MW	TOC ELEV.(ft)	DATE	WATER DEPTH	WATER ELEV.
1	14.39	3/12/91	9.10	5.29
2	14.32	3/12/91	9.06	5.25
3	13.86	3/12/91	8.64	5.22

datum= surveyors level assumed to be 20'

#### RECOMMENDATIONS

As preceding reports indicate all soil contamination has been removed and groundwater appears to have not been impacted, no further soil/groundwater investigation or remediation is recommended at this time.

#### REPORTAGE

Copies of this report, chain of custody, and laboratory analytical reports should be submitted to the San Francisco Regional Water Quality Control Board, and the Alameda County Health Agency, Division of Environmental Health.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 994612

Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Rm 200 Oakland CA 94621

It has been my pleasure working with you. If you have any questions or if I may be of further service, please call me at (415) 363-2181.

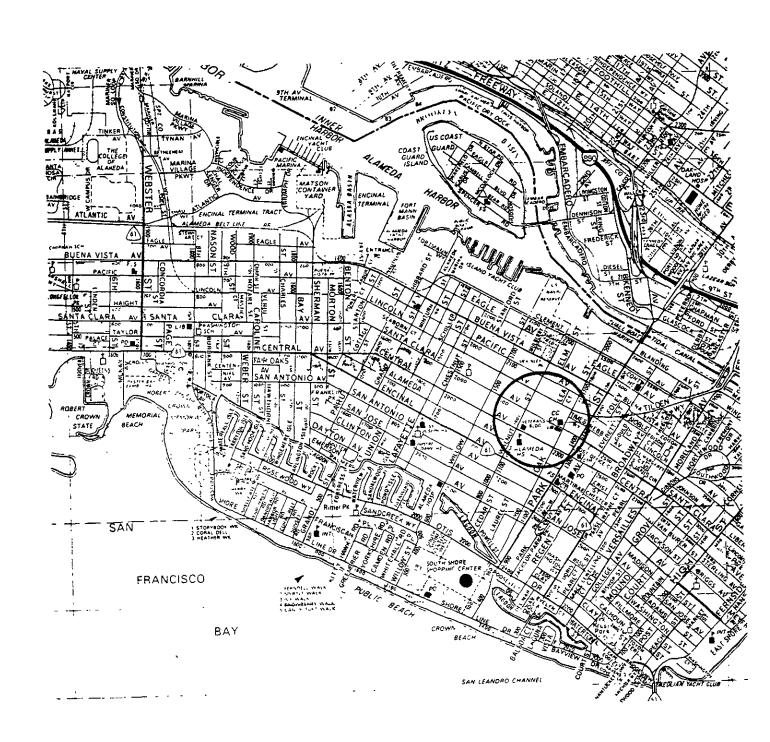
Scot Zaccor S & G Drilling Project Manager

Helen Mawhinney Environmental Technical Services

Roger Greensfelder/ Registered Geologist #3011

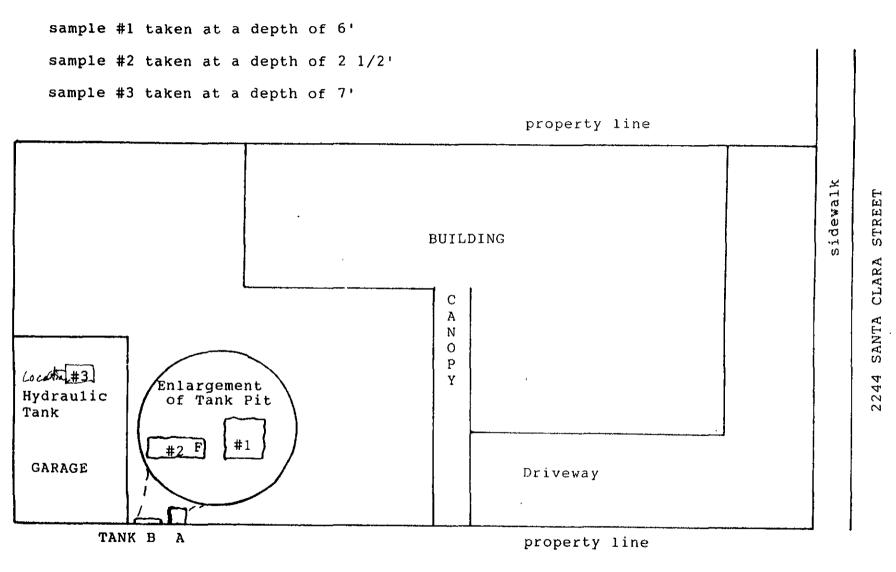
R. W. CREENSFELDER
Na. COBON

APPENDIX A MAPS

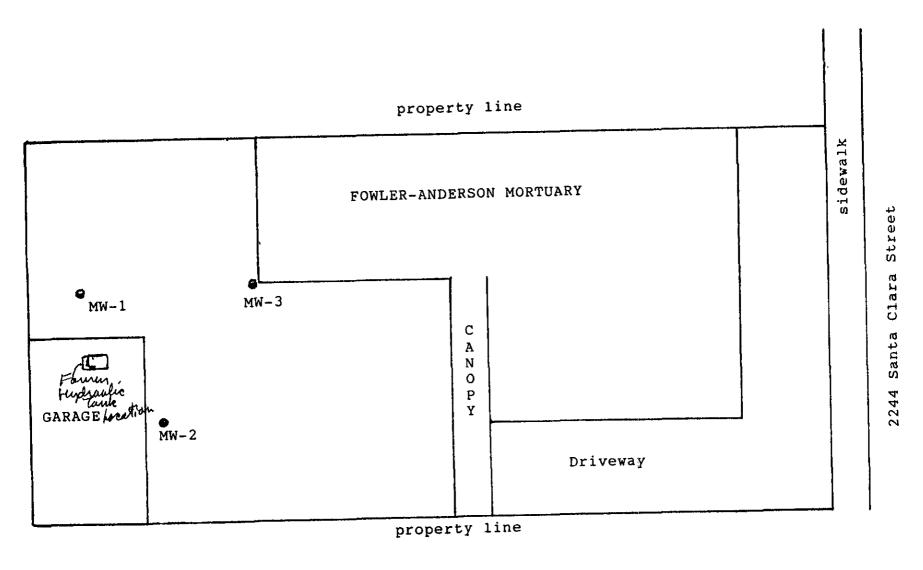


FOWLER-ANDERSON MORTUARY
2244 Santa Clara Street
Alameda, California

Figure 1. Site Location Map



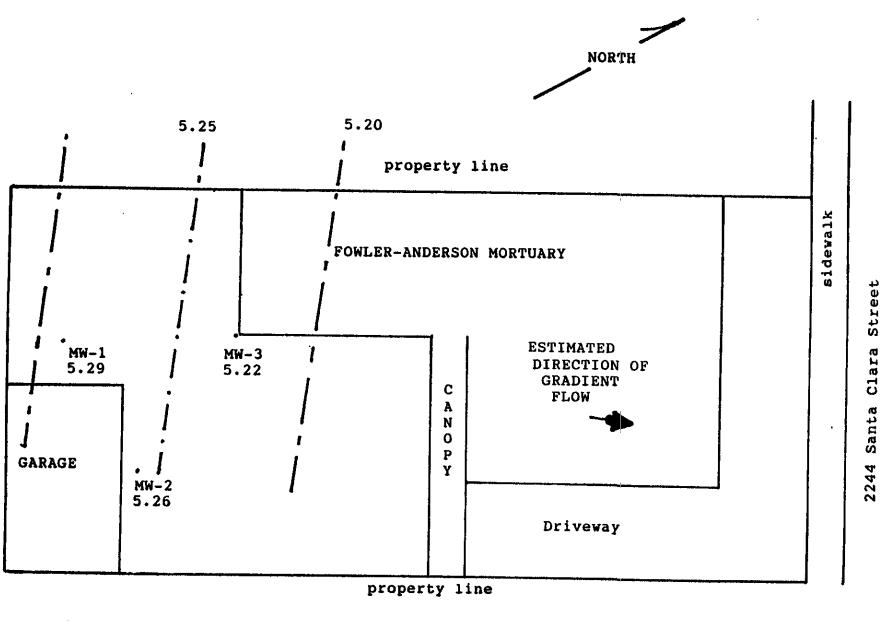
SCALE



12.5 25 feet 0 scale

Monitoring Well Location Map





12.5 25 feet

APPENDIX B
TANK REMOVAL REPORT



January 15, 1991

Ian Weber 1150 Ballena Boulevard Suite 211 Alameda, CA 94501

Project: #Z010891M1

RE: The Removal of Underground Strage Tanks and the Subsequent Field Sampling at Fowler-Anderson Mortuary @ 2244 Santa Clara Street, Alameda, CA

Dear Mr. Weber:

Field Sampling was performed in accordance with state and local agency approved methodology, under the auspices of William Faulhaber of the Alameda County Department of Environmental Health, Hazardous Materials Division.

See accompanying site diagram for the location of tanks prior to removal, field sampling designations, and sampling depths

#### TANK REMOVAL

On January 8, 1991, three (3) underground storage tanks were removed from the above mentioned address. The tank sizes and contents were as follows; one (1) 50 gallon fuel oil tank, one (1) 350 gallon fuel oil tank, and one (1) 50 gallon hydraulic reservoir underground tank.

Upon tank removal the following observations were noted; Tank A was a 350 gallon single wall fuel oil storage tank constructed with steel. Upon a visual inspection of the tank rust and pitting were observed though no holes were present. The fill material and native soil surrounding the tank were free of hydrocarbon odor.

Tank B was a 50 gallon single wall fuel oil storage tank constructed with steel. Pitting and rust were noted upon a visual inspection of the tank, though no holes were observed. Soil was slightly moist and discolored to a darker brown possibly caused by water runoff from a nearby down spout. The fill material and native soils surrounding the tank were free of hydrocarbon odor.

Tank C is a 50 gallon hydraulic reservoir tank used in conjunction with a hydraulic lift for the servicing of automobiles. The 5' long tank is buried vertically beneath the garage floor, the tank head being level with the garage floor and its foot lying 5' below the garage floor. The flaring of the tank bottom and limited access within the site garage prevented removal of the tank on this day. The tank was removed on January 9, 1991.

#### Sampling

Soil sample #1 was collected at a depth of 12" to 18" below the fill material/native soil interface, beneath the center of Tank A at a depth of 6'. This was accomplished by the clearing of fill material and slough from the designated sample area. A soil sample was then removed from the pit in a backhoe bucket. The surface four inches of soil was removed from the backhoe bucket and a clean brass sleeve driven into the remaining soil. Soil was then packed tightly into the sleeve to eliminate headspace.

Sample #2 was obtained from beneath the center of Tank B at a depth of 2 1/2 '. This was accomplished by the clearing of fill material from the designated sample area. A clean brass sleeve was driven by hand into the native sands. Soil was packed tightly into the brass sleeve to eliminate head space.

Sample #3 was obtained from the native soil beneath the hydraulic tank at a depth of 7' below grade and three inches away from the tank. This was accomplished by excavating the soil surrounding the hydraulic oil tank to a depth of 5' below grade using a backhoe bucket. A soil boring was then hand augered within the excavation to a depth of 6 1/2' below grade. A clean brass sleeve placed within a hand driven sampler was driven 6" into the soil boring to a total depth of 7'.

Immediately upon retrieval of each soil sample the brass sleeve was covered with aluminum foil, fitted with plastic caps, sealed with duct tape, labeled, and placed on dry ice under chain of custody to be transported to a certified hazardous waste analytical laboratory.

#### Sample Analysis

Sample #1 was analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Oil and Grease (TOG), benzene, total xylenes and ethylbenzene (BTX&E).

Sample #2 was analyzed for Total Petroleum Hydrocarbons as Diesel, Total Oil and Grease, benzene, toluene, total xylenes and ethylbenzene.

Sample #3 was analyzed as Hydraulic Oil using a Hydraulic Oil standard

#### Analytical Results

The following analytical results are based on a faxed copy of preliminary results from Anametrix Laboratory. A hard copy of the analytical results will be included in the final copy of this report to be forwarded to the regulatory agencys over seeing this project.

Sample #1 contained no detectable concentrations of TPH-D, TPH-G and BTX&E, at the respective detection limits for each constituent.

Sample #2 contained no detectable concentrations of TPH-D, TPH-G and BTX&E, at the respective detection limits for each constituent.

Sample #3 contained Total Petroleum Hydrocarbons as Hydraulic Oil at a concentration of 1,400 ppm.

#### Recommendations

The State Water Resources Control Board document, Leaking Under Ground Fuel Tank Field Manual (LUFT), defines appropriate action in treating contamination associated with an unauthorized fuel release from underground storage tanks.

The presence of Total Petroleum Hydrocarbons as Diesel beneath the Hydraulic Reservoir Tank would require further site characterization as to the lateral and vertical migration of contaminants in soil. In accordance with the LUFT manual site characterization would include an investigation of the contaminants impact, if any, on the first encountered aquifer and a determination of groundwater flow direction. The installation of one monitoring well would be required within ten feet of the former Hydraulic Reservoir Tank in a down gradient direction. Three reference points are necessary for the determination of groundwater gradient, therefore the installation of two additional wells may be required. It is acceptable to use a previously installed well on an adjacent property as a reference point providing it has been properly screened.

## Reportage

Copies of this report, chain of custody, and laboratory analytical report should be submitted to the San Francisco Regional Water Quality Control Board, and the Alameda County Health Agency, Division of Environmental Health.

It has been my pleasure working with you. If you have any questions or if I may be of further service, please call me at (415) 363-2181.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 994612

Alameda County Health Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Rm 200 Oakland CA 94621

Sincerely, ZACCOR CORPORATION

Gary Zaccor Project Manager

12.5' 25'

SCALE

STREET CLARA SANTA

North

# CLIENT CHAIN-OF-CUSTODY RECORD

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Sample Number	Date	Time	<u> </u>	Grab	Station Location  350 gal tank	+	Containers	1/1	F	TX	<b>₹</b>	+	+	+	+-	+-		+
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AMETRIX INC

fronmental & Analytical Chemistry M Concourse Drive, Suite E San Jose, CA 95131 (408) 432-8192 • Fox (408) 432-8198



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENIO PARK, CA 94025 Workorder # : 9101055
Date Received : 01/08/91

Project ID : 2244 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9101055- 1	#1
9101055- 2	#2
9101055- 3	#3

This report consists of 8 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. À 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 Laboratory Director

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101055 Date Received : 01/08/91

Project ID : 2244 SANTA CLARA Purchase Order: N/A

Purchase Order: N/A
Department : GC
Sub-Department: TPH

# SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101055- 1	#1	SOIL	01/08/91	BTEX
9101055- 2	#2	SOIL	01/08/91	BTEX
9101055- 1	#1	SOIL	01/08/91	TPHD
9101055- 2	#2	SOIL	01/08/91	TPHD
9101055- 3	#3	SOIL	01/08/91	TPHD

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

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

Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY:

- No QA/QC problems encountered for samples.

Cheugh Balma Department Supervisor

Date

- ma shor 1/11/9/ Date Chemist

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

Anametrix W.O.: 9101055

Matrix : SOIL
Date Sampled : 01/08/91

Project Number: 2244

Santa Clara

Date Released : 01/11/91

	Reporting Limit	Sample I.D.# #1	Sample I.D.# #2	Sample I.D.# 21B0109B	
COMPOUNDS	(mg/Kg)	-01	-02	BLANK	 
Benzene	0.005	ND	ND	ND	
Toluene	0.005	ND	ND	ND	
Ethylbenzene	0.005	ND	ND	ND	
Total Xylenes	0.005	ИD	ND	ND	
<pre>% Surrogate Re- Instrument I Date Analyze RIMF</pre>	.D	124% HP21 01/09/91	77% HP21 01/09/91	101% HP21 01/09/91 1	

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

I una Shok 1/h/9/
Analyst Date

Charle Balmer 1/11/2 Supervisor Date

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.

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

Anametrix W.O.: 9101055 Project Number: 2244 Santa Clara Date released: 01/11/91 Instrument I.D.: HP19

SOIL Matrix Date Sampled : 01/08/91

Date Extracted: 01/09/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-01	#1	01/09/91	10	ND
9101055-02	#2	01/09/91	10	ND
DSBL010991	Method Blank	01/09/91	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.

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

Anametrix W.O.: 9101055

SOIL

Project Number: 2244 Santa Clara Date released: 01/11/91

Date Sampled: 01/08/91

Date Extracted: 01/09/91

Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)	
9101055-03	#3	01/10/91	10	1400	
DSBL010991	Method Blank	01/10/91	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.

Cheryl Balmer 1/1/91 Supervisor

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : PREP

Sub-Department: PREP

## SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101055- 1	#1	SOIL	01/08/91	5520EF
9101055- 2	#2	SOIL	01/08/91	5520EF

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : PREP

Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

January, 14Th 1951.

Department Supervisor

Date

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

Project # : 2244 Santa Clara

: SOIL

Matrix Date sampled: 01/8/91 Date ext. TOG: 01/09/91 Date anl. TOG: 01/09/91

Anametrix I.D. : 9101055

Analyst

01/11/91 Supervisor Date released

Workorder # Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-01	30 30 30	ND ND ND

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

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

<sup>-</sup> Total Oil & Grease is determined by Standard Method 5520E&F. TOG

Char.	PROJECT NUMBER	ta Clara A	PROJECT N	AHE 4 541	ita (	CHAIN  YUZ AUL  CA  Verbal Due	- 0 F	- 0 0 8	<del></del>		· · · · · · · · · · · · · · · · · · ·	ılysis		C	O R	D	9/01055	(19)
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Month Day

Year

State of California—Health and Welfare Agency Form Approved OMB No. 2050—0039 (Expires 9-30-91) Department of Health Services Toxic Substances Control Division Sacramento, California Please print or type (Form designed for use on elite (12-pitch typewriter) UNIFORM HAZARDOUS 1. Generator's US EPA ID No 2. Page 1 Manufest information in the shaded areas Document No of / WASTE MANIFEST is not required by Federal law. 3. Generator's Name and Mailing Address A. State Manifest Document Number 8989134 B. State Generator's ID 4. Generator's Phone ( Transporter 1 Company Name US EPA ID Number C. State Transporter's ID /Uno TO COLOR D. Transporter's Phone 4/ <u>El</u>fficio 7. Transporter 2 Company Name US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address 10 US EPA ID Number G. State Facility's ID Erickson. Inc. 255 Parr Blvd. H. Facility's Phone (415) 235–1393 Richmond. Ca. 94801 12 Containers 13 Total 11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Quantity Type Wt/Vol , waste Empty Storage Tank 512 State EPA/Other NON-RCRA Hazardous \*aste Solid. NONE EPA/Other State EPA/Other State EPA/Other J Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above Fmpty Storage Tank (s) # 101, 32,
Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity. 15 Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around 24 Br. Contact Same & Phone GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Printed/Typed Name Signature Month Day Year 17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Year Signature Month Day 18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 19 Discrepancy Indication Space 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name

Signature

State of California—Health and Welfare Agency Form Approved OMB No. 2050—0039 (Expires 9-30-91) Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS 1, Generator WASTE MANIFEST	'S US EPA ID No	Manifest Document No	2 Page 1 of	1	on in the shaded area quired by Federal law.
3. Generator's Name and Mailing Address			A. State Manif	1023	9087
			B. State Gene		ن ر: ح
( Generator's Phone ( ``)					
5 Transporter 1 Company Name  CITT : IT : TT :	6 US EPA ID I	Number	C. State Trans D. Transporter	•	(408) 432-0
7 Transporter 2 Company Name	8 US EPA ID		E. State Trans		
		1 1 1 1 1	F Transporter	's Phone	
9 Designated Facility Name and Site Address	10 US EPA ID	Number	G. State Facili		
	·•		H. Facility's P		1 16 16 17 12 18
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		12 Cont		Total	14 l.
11. US DOT Description (Including Proper Shipping Name,	Hazard Class, and ID Number)	No	Type	Quantity \	Unit Waste
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J Additional Descriptions for Materials Listed Above			K Handling C	odes for Wa	stes Listed Above b
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15 Special Handling Instructions and Additional Informatio	n		<del></del>	1	
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16  GENERATOR'S CERTIFICATION. I hereby declare to	hat the contents of this consid	nment are fully and a	ccurately descri	bed above b	y proper shipping nat
and are classified packed marked and labeled and national government regulations	are in all respects in proper co	ondition for transport	by highway acc	ording to ap	plicable international
# t large aventus pagester ( and by that I have	a program in place to reduce t	he volume and toxici	ty of waste gene	rated to the	degree I have deter
to be economically practicable and that I have select present and future threat to human health and the en	vironment QR iflam a small (	quantity generator	nave made a go	od faith effor	rt to minimize my was
generation and select the best waste management me		nd that I can altere			Month Da
Printed/Typed Name	Signature				* 1 * 1
17 Transporter 1 Acknowledgement of Receipt of Materia	als				
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18 Transporter 2 Acknowledgement of Receipt of Materia	als				
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19 Discrepancy Indication Space					
20 Facility Owner or Operator Certification of receipt of I	nazardous materials covered b	y this manifest exce	pt as noted in its	em 19	Month Da

APPENDIX C EXCAVATION OF CONTAMINATION



January 29, 1991

Mr. Ian Weber 1150 Ballena Blvd. Alameda, CA 94501

RE: Fowler Anderson Mortuary 2244 Santa Clara Street Alameda, CA

Mr. Ian Weber

RE: The Excavation of Contaminated Soil and Subsequent Third Party Confirmatory Sampling at: 2244 Santa Clara Street, Alameda, California.

#### SITE OVERVIEW

The subject property is located in the City of Alameda, County of Alameda, California. A site location map is included in Figure 1. The site is operated as a mortuary which performs funeral services, body preparation and administrative functions. The property is presently owned by Fowler-Anderson Mortuary.

Mr. Ian Weber, Real Estate Agent for Pacific Financial Corp., who represents Fowler-Anderson Mortuary, contracted Zaccor Corporation to remove three (3) underground storage tanks located on site. Environmental Technical Services was retained to perform Third Party Confirmatory Sampling. Tank removal and subsequent soil sampling was performed in accordance with local and regional guidelines, under the auspices of the Alameda County Department of Environmental Health, and the Alameda Fire Prevention Bureau.

On January 8, 1991, three (3) underground storage tanks (UST's) were removed, including; one (1) 350 gallon motor oil tank, one (1) 50 gallon motor oil tank, and one (1) 50 gallon hydraulic oil reservoir tank (as diagramed in Figure 2). One soil interface sample was obtained from beneath the center of each tank.

No contamination was detected beneath the 350 gallon motor oil tank or the 50 gallon motor oil tank. Total Petroleum Hydrocarbons as Hydraulic Oil was detected at a concentration of 1,400 ppm beneath the hydraulic oil reservoir tank.

# **EXCAVATION OF CONTAMINATED SOILS**

On January 24, 1991, Zaccor Corporation proceeded to excavate soils contaminated with Total Petroleum Hydrocarbons as Hydraulic Oil, within the site garage. Anametrix Incorporated, retained by Zaccor Corporation performed third party confirmatory sampling upon completion of soil excavation.

Throughout the excavation of contaminated soil from the hydraulic oil tank pit, soil samples were acquired from the sidewalls and floor of the excavation with a backhoe bucket. The first 3 to 4 inches of soil was removed from the backhoe bucket and a clean brass sleeve (1.92 inches in diameter by 6.0 inches in length) was driven into the remaining soil most representative of the sample location desired. The sample tube was withdrawn, the ends wrapped with aluminum foil, covered with plastic caps, sealed with duct tape, labeled, placed on dry ice, and transported to a Certified Hazardous Waste Analytical Laboratory (Anametrix Laboratory, Inc.) under chain of custody. Soil samples were analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil using a Hydraulic Oil standard.

As such time as the boundaries of excavation were defined, clean imported fill material was placed within the tank pit excavation.

Excavated contaminated soil was placed on visqueen and covered with visqueen. A composite soil sample will be acquired to be analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil. A comprehensive work plan will then be developed for the remediation or disposal of contaminated soil.

#### SAMPLE LOCATIONS

Sample #A-1 was collected from the East wall at a depth of 7'

Sample #A-2 was collected from the excavation floor at a depth of 11'

Sample #A-3 was collected from the excavation floor at a depth of 10.5'

Sample #A-4 was collected from the North wall at a depth of 7'

Sample #A-5 was collected from the West wall at a depth of 7'

Sample #A-6 was collected from the South wall at a depth of 6.5'

Sample #A-7 was collected from the South wall at a depth of 7'

Sample #A-8 was collected from the South wall at a depth of 7'

Sample #A-9 was collected from the South wall at a depth of 7'

Sample #A-9 was collected from the South wall at a depth of 7'

#### ANALYTICAL RESULTS

Each sample was analyzed for Total Petroleum Hydrocarbons as Hydraulic Oil using a Hydraulic Oil Standard. All of the above samples were found to be non-detected at the respective detection limit, indicating all contaminated soil has been removed.

Copies of this report, chain of custody, and laboratory analytical report should be submitted to the San Francisco Regional Water Quality Control Board and the Alameda County Health Agency, Division of Environmental Health.

It has been a pleasure working with you. If you have any questions or if I may be of further assistance please do not hesitate to contact me at (415) 363-2181.

The following addresses have been included for your convenience:

Water Quality Control Board San Francisco Bay Region 1800 Harrison Street Room 700 Oakland, CA 94612

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

Sincerely,

**ZACCOR CORPORATION** 

Lary G. Zaccor Gary A. Zaccor

Project Manager

GAZ/Is

# ANAMETRIX INC

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



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9101244- 1	A-1
9101244- 2	A-2
9101244- 3	A-3
9101244- 4	A-4
9101244- 5	A-5
9101244- 6	A-6
9101244- 7	A-7
9101244- 8	A-8
9101244- 9	A-9

This report consists of 6 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

Laboratory Director

1-30-91

Date

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244 Date Received : 01/24/91 Project ID : 910124 Purchase Order: N/A
Department : GC
Sub-Department: TPH

## SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101244- 1	A-1	SOIL	01/24/91	TPHd
9101244- 2	A-2	SOIL	01/24/91	TPHd
9101244- 3	A-3	SOIL	01/24/91	TPHd
9101244- 4	A-4	SOIL	01/24/91	TPHd
9101244- 5	A-5	SOIL	01/24/91	TPHd
9101244- 6	A-6	SOIL	01/24/91	TPHd
9101244- 7	A-7	SOIL	01/24/91	TPHd
9101244- 8	A-8	SOIL	01/24/91	TPHd
9101244- 9	<b>A-</b> 9	SOIL	01/24/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : GC
Sub-Department: TPH

# QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Chauf Balmer 1/24/2 Department Supervisor Da Harth, Voigt 1/30/91
Chemist Date

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

Anametrix W.O.: 9101244 Project Number: 910124
Date released: 01/29/91 Matrix : SOIL Instrument I.D.: HP9

Date Sampled: 01/24/91 Date Extracted: 01/24/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101244-01	A-1	01/29/01	10	ND
9101244-01	A-2	01/28/91	10 10	
		01/28/91		ND
9101244-03	A-3	01/28/91	10	ND
9101244-04	A-4	01/28/91	10	ND
9101244-05	A-5	01/28/91	10	ND
9101244-06	A-6	01/28/91	10	ND
9101244-07	A-7	01/28/91	10	ND
9101244-08	A-8	01/28/91	10	ND
9101244-09	A-9	01/28/91	10	NĐ
DSBL012491	METHOD BLANK	01/28/91	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 hydraulic oil is determined by GCFID following sample extraction by EPA Method 3550.

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

Voret 1/30/91
Date

Chauf Balme 1/29/9/ Supervisor Date

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

## SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101244- 1	A-1	SOIL	01/24/91	418.1
9101244- 2	A-2	SOIL	01/24/91	418.1
9101244- 3	A-3	SOIL	01/24/91	418.1
9101244- 4	A-4	SOIL	01/24/91	418.1
9101244- 5	A-5	SOIL	01/24/91	418.1
9101244- 6	A-6	SOIL	01/24/91	418.1
9101244- 7	A-7	SOIL	01/24/91	418.1
9101244- 8	A-8	SOIL	01/24/91	418.1
9101244- 9	A-9	SOIL	01/24/91	418.1

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9101244
Date Received : 01/24/91
Project ID : 910124
Purchase Order: N/A
Department : PREP

Sub-Department: PREP

# QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor Date

Reach Davison 1-30-91
Chemist Date

## ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS EPA METHOD 418.1 ANAMETRIX, INC. (408) 432-8192

Project # : 910124
Matrix : SOIL
Date sampled : 01/24/91
Date ext. : 01/24/91
Date analyzed: 01/24/91

Anametrix I.D. : 9101244
Analyst : RD
Supervisor : 01/29/91

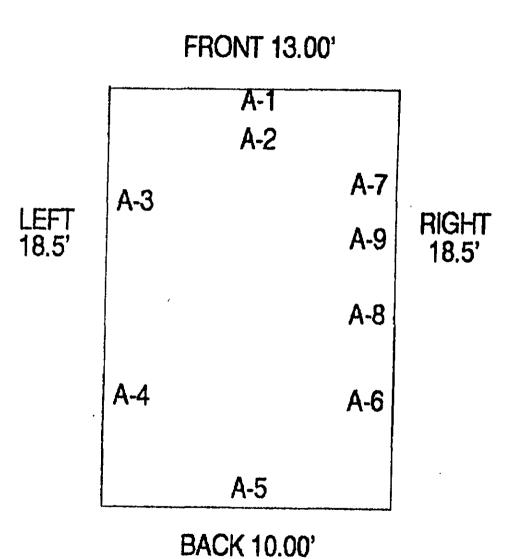
Workorder # Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101244-01	1 1 1 1 1 1 1 1 1	1.2 1.7 2.7 1.8 2.0 ND 3.3 2.0 2.0

- ND Not detected at or above the practical quantitation limit for the method.
- Reference Methods for Chemical Analysis of Water and Wastes, 3rd edition US EPA-600/4-79-020, March 1983.

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

A-1 7'	A-6 6.5'
A-2 11'	A-7 7'
A-3 10.5'	A-8 7'
A-4 7'	A-9 10.5
A-5 7'	

SITE LOCATION 2240 SANTA CLARA AVE. ALAMEDA, CA. SAMPLING DATE 1/24/91



PROJECT MANBER	Ն ՝	PROJECT NA 2240		TAC	LARA AV.				ne of Analysis		
Send Report At	tention of:	oR	'	part Ou / /	verbal Oue 125/91	Number	Type of	( <u>T</u> p#			Condition
Sample Number	Date	Time	Comp	Grab	Station Location	Cottnes	Containers	418		,	Samples
A-1	1-24-9	13:58			Front wall at 7	1	BL	X			Cold. No 14
A-2	ν,	14:05			11	М	d	X			
A-3	~	14:15			Left wall 10.5	עא	ø	X			
A-4	11	14,20			, , 7.0	N	1	1			
A-5	N	14.25			backwall 7.0	N	6	Ŋ			
A-6	11	14:30	ļ		Right well 6.5	· /	1	à			
A-7	N	14:35		<u> </u>	1 1 7.0	N N	N	1			
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APPENDIX D BORING LOGS

		<del></del>	LL BORING LOGS	1					
		CCOR CORI	ECHNICAL SERVICES PORATION	AT: FOWLER, ANDERSON MORTUARY					
ļ		er Greens	sfelder PHD #3011	2244 Santa Clara St MW-1 Alameda, California					
	Drilling Sample Split Method : Augers Method : Spoon					ager: Ga		ccor	2/21/91
D E P T	COL	AMPLE LECTED: SAMPLE#	Soi1	uscs	L O G	BLOW COUNTS 6"INCRE	WE	ELL ONSTRU	CTION
		MW-1 12-12.5 MW-1 16-16.5 MW-1 21-21.5	MEDIUM - FINE GRAIN SANDS WITH CLAY 10%, medium-brown or tan, damp.  MEDIUM - FINE GRAIN SANDS WITH CLAY 10%, medium - brown or tan, saturated.  MEDIUM - FINE GRAIN SANDS WITH VERY LITTLE CLAY, tan, saturated.  MEDIUM - FINE GRAIN SANDS WITH VERY LITTLE CLAY, tan, saturated.	sc		8,8,12 17,22,27 7,14,22 6,12,20	PVO	TOM G ING	CHRISTY BOX GROUT BENTO- NITE SEAL  LONESTAR #3 SAND FILTER PACK

,

r										
-	-	····	LL BORING LOGS ECHNICAL SERVICES	1				····		
		CCOR CORI		AT: FOWLER, ANDERSON MORTUARY						
	R.G. Roger Greensfelder PHD #3011				2244 Santa Clara St MW-2 Alameda, California					
Drilling Sample Split Method : Augers Method : Spoon			Sample Split Method Spoon	P			ager: Ga			2/21/91
D E P T H	COLI	AMPLE LECTED: SAMPLE#	Soil Description	•	uscs	L O G	BLOW COUNTS	W	ELL	UCTION
		MW-2 6'-6.5' MW-2 11'-11.5 MW-2 15'-15.5'	LITTLE CLAY 10% tan, moist, no odor.  FINE - MEDIUM CRAIN SAND WITH	, , , , , , , , , , , , , , , , , , , ,	sc sc		6,9,9 17,18,20 22,31,X	PVO CA:	C REEN 010" OT TTOM UG	CHRISTY BOX GROUT ITE SEAL  LONESTAR SAND FILTER PACK  CONTRICTOR

							· -	··		
MONITORING WELL BORING LOGS  ENVIRONMENTAL TECHNICAL SERVICES AT: FOWLER, ANDER								1		
1		PORATION	А	T: FOW		ANDERS UARY	ON			
1	R.G. Roger Greensfelder PHD #3011				2244 Santa Clara St MW-3 Alameda, California					
	Drilling Sample Split Method : Augers Method : Spoon					ager: G		<u> </u>	2/21/91	
E COLL	MPLE ECTED: SAMPLE#	Soil Description		uscs	L O G	BLOW COUNTS	W	ELL	UCTION	
-15	MW-3 11'-11.5'  MW-3 16'-16.5'	FINE - MEDIUM GRAIN SANDS WITH VERY LITTLE CLAY 2%, AND SMALL DARK PEBBLE tan mottled with darker sand, mois no odor.  FINE - MEDIUM GRAIN SAND, NO PEBBLES, tan mottled with orange, almost saturated, no odo  FINE - MEDIUM GRAIN SAND, WITH VERY LITTLE CLAY, tan, saturated, no odor.  FINE - MEDIUM GRAIN SAND WITH VERY LITTLE CLAY, saturated, no odo	t,	SP SC		5,6, 17,23,X 14,15,\$P	BICA PVCA 2"	REEN 010" OT TTOM P	CHRISTY BOX GROUT COBENTO- CONITE SEAL  LONESTAR H3 SAND FILTER PACK  ACK ACK ACK ACK ACK ACK ACK ACK ACK	

APPENDIX E GROUNDWATER DEVELOPMENT

# FIELD LOGBOOK ENTRY

					DATE: 2/2	8/91
SITE	:224	4 Santa Clara	IDIAL	DEPITI	:19.7'	
		MW-1		DEPIN		TIME:12:30
CODE NO	). :			IAMETER		
DQUIPME	NF NO.:	R-1	PURGE VOLUME :( 10 x) = 60 liter			
SAMPLER		Taghi		G RATE	:	<u>, , , , , , , , , , , , , , , , , , , </u>
	•		PUMPIN	G T'IME	<u></u>	
					Y: 1 liter	·····
				BAILS	:	
				IELD	:_Low	
				TIME	: 13:55	
•						
TIME.	VOLUME	TURBIDITY	pii	·	E.C.	T°C
12:45		>200	8.4		7430	17°
12:50		>200	7.9		609,0	16°
12:57		>200	8.0		5850	16°
13:05		>200	8.0		487,0	16°
13:10		>200	7.9		487,0	16°
13:15		>200	7.9		343.5	16°
13:20	7	>200	7.8		328.9	16°
13:24	88	>_200	8.0		328.9	16°
13:30	99	>200	7.9		280.1	16°
13:45	10	>200	7.9		255.8	16°
		B & K Pump		PUMP	PLACEMENT:	
		Teflon Bailer	·			
	EFFER:	CONTAINER (TY	PE/NUMBE	R):	PRESE	RVATIVE:
2 X 1	liter	TPHd			Cool	
	<u>-</u> -		<del></del>			
			·			
					<u> </u>	
		Water was mudd				<u>d.</u>
Toward	end of d	developement it	was al	most cl	ear.	
	Dime		<del></del>			
ECOVERY	<del></del>			RCENTAGE	* * P	AT HRS
TIMALIC	CONDITIONS	: Rainy and coo	01.			
		<del></del>				

# FIELD LOGBOOK ENTRY

					DATE: 2/	28/91	
SITE	:224	4 Santa Clara	TOTAL	DEPITI	:15.08'		
	D. :					TIME: 13	:55
CODE NO	. :		WELL D	IMETER	: 2"		
	NT NO.:		FURGE VOLUME		(10x) = 40		
	: 1		PUMPING RATE		:		
.=	, <del>' 1999, Talon</del>		PUMPINO		2		
					Y: 1 liter		
					: Vary	<u></u> -	
					: Low		
					: 15:00		
						<del></del>	
TIME	VOLUME	YTIGIBIUF	pli	,	E.C.		<u>•c</u>
14:05	1	>200	7.7	2	284.8		5°
14:10	2	>200	7.7		262:5		5°
14:15	3	>200	7.5	3	284.8		5°
14:20	4	>200	7.6		262.5		5°
14:25	5	>200	7.5	2	235.4		5°
14:30	6	>200	7.5		235.4	1.	5°
14:35	7	>200	7.4		211.9	1	5°
14:40	8	>200	7.4		211.9	1	5°
14:45	9	> 200	7.4		190.7	1	5°
14:50	10	>200	7.4		190.7	1	5°
PURGE PR	ROCEDURE :_	Bailer_		PUMI	PLACEMENT	<u>.                                      </u>	
SAMPLE I	PROCEDURE: 1	<u> Teflon Bailer</u>					
PARA	ÆFER:	CONTAINER (TY	PE/NUMBE	R):	PRESI	ERVATIVE:	
TPH	1	2 X 1 1:	iter		Cod	)1	
FIELD OF	SERVATIONS:	Water was mud	dy, sil	ty tow	ard end of	the	
_devel	ppement tu	urned almost cl	ear.				
RECOVERY	RATE:	REC	OVERY PE	RCENTAGE	E: <u>&amp;</u>	AT	HRS
CLIMATIC	CONDITIONS	Rainy, cool.					
<u> </u>		<del></del>					

# FIELD LOGBOOK ENTRY

					DATE: 2/2	8/91
SITE	:224	4 Santa Clara	JOIAL	DEPIII	:19.95'	
WELL I.	.D. :	MW-3	WATER	DEPITI	: 9.56'	TIME: 15:15
CODE NO	) <b>.</b> :		WELL D	IAMETER	: 2"	
EQUIPME	NT NO.:	R-3	PURGE	0 liters		
SAMPLER	: Ta	aghi		G RATE	:	<u> </u>
		· · · · · · · · · · · · · · · · · · ·	PUMPIN	G TIME	:	
					Y: 1 liter	
				BAILS	: 60	
			WELL Y		High	
				TIME	: 16:15	
•						
TIME	VOLUME	TURBIDITY	bit	7	E.C.	T*C
15:20	1	>200	7.9	<del></del>	98	18°
15:25	2	>200	7.8		84	18°
15:30		>200	7.8		88	18°
15:35		>200	7.9		131	18°
15:40		>200	7.8	388		18°
15:45	6	>200	7.8	3	388	18°
15:49	7	>200	7.8	3	351	18°
15:53	8	>200	7.7	3	328	18°
15:59	9	>200	7.7		314	18°
16:05	10	>200	7.7	3	314	18°
	OCEDURE :_		<del></del>	PUMP	PLACEMENT:	
Sample P	PROCEDURE: 1	Ceflon Bailer				
PARAM	EIER:	CONIVINER (TY	PE/NUMBE	R):	PRESE	RVATIVE:
ТРН	<u> </u>	2 X 1 liter		-	Co	01
<del></del>			<del></del>			
<del></del>						
<del></del>		·				
		Water was mudd	ly, sil	ty, it	turned cle	ear at end
of dev	<i>r</i> elopement	of the well.				
				<del></del>		<del></del>
ECOVERY	<del></del>			RCENTAGE:	3 7	T HRS
TIMATIC	CONDITIONS	Rainy, cool.				<del></del>

APPENDIX F
ANALYTICAL RESULTS

# ANAMETRIX INC

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



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

Workorder # : 9102316 Date Received : 02/28/91

Project ID : 2240 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9102316- 1	MW-1
9102316- 2	MW-2
9102316- 3	MW-3

This report consists of 3 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

Laboratory Director

3-11-91

Date

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

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

Workorder # : 9102316
Date Received : 02/28/91
Project ID : 2240 SANTA CLARA
Purchase Order: N/A
Department : GC Sub-Department: TPH

#### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9102316- 1	MW-1	WATER	02/28/91	TPHd
9102316- 2	MW-2	WATER	02/28/91	TPHd
9102316- 3	MW-3	WATER	02/28/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9102316
Date Received : 02/28/91
Project ID : 2240 SANTA CLARA
Purchase Order: N/A

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor Date

GC/TPH - PAGE 2

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

Anametrix W.O.: 9102316

Project Number: 2240 SANTA CLARA Date released: 03/08/91

Matrix : WATER

Date Sampled : 02/28/91

Instrument I.D.: HP9

Date Extracted: 03/04/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9102316-01	MW-1	03/07/91	50	ND
9102316-02	MW-2	03/07/91	50	ND
9102316-03	MW-3	03/07/91	50	ND
DWBL030491	METHOD BLANK	03/07/91	50	ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

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

TPHd - Total Petroleum Hydrocarbons as hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

PROJECT NUMBER	->	PROJECT NA	ME &	Clar	N St. Alamed	2		Type of Ana	lysis ,		
Send Report Atte	ention of:		Re	port Die	Verbal Due	Number of	Type of	Granlish	pp as ydrachi Oil	Condition of	Initial
Sample Number	Date	Time	Comp	Grab	Station Location	Cntnrs	Containers	### ###	Hort.	Samples	
mw-1 6-6/2	2/21/91			/		l	BRASS		How	none dispure, cold	ЫŞ
mw-112-121/2	11			/		ţ<			$\checkmark$		1
MW-1 16-161/2	И			/		(1		AOLD	Y		
mw-1 21-211/4	11			/		11		1)	Hala	J	
mw-2 6-6/2	11			/		10		HOLD	Hach	herel space, cold, proper container	
mw.2 11-11/2	14			/		15				nothered space, cold proper container	
Mw-2 15-15/6	11			/		11		R			
16.8/08 t-mu	11			/		Ic		HOLD	HOLD		
MW-3 6.66	(1					"			Hous	herdere, cold, proper cuntainer	
mw·3 11-11/2	, (					١(			1	no hand space, early	
nw-3 16-16/2	ļί			/		11			V		
11.2-12 E. WIM						١,٠	V		HOUP		
Relipquished by: ( Relipquished by: (	VIIII	Date/Time	10	anin	1/2	e/Time Of/S I/9/ e/Time	Remarks:	hr. K	) vsh		
Relinquished by:(	(Signature)	Date/Time	Recei	ved by:	(Signature) Dat	e/Time	COMPANY: ADDRESS: PHONE :	,	FAX :	÷ .	2066

CLIENT CHAIN OF CUSTOD



APPENDIX C
Anametrix, Inc.
Monitoring Well Development & Sampling Reports
02-28-91
05-30-91
09-20-91
12-19-91



March 4, 1991

Mr. Gary Zaccor ZACCOR CORPORATION 791 Hamilton Avenue Menlo Park, CA 94025

Dear Mr. Zaccor:

Enclosed are your copies of the Field Log sheets and the original Chain of Custody for the field sampling that we recently completed for your company.

The staff at Anametrix, Inc. would like to thank you for the opportunity to provide field and analytical services for Zaccor Corporation. If you have any additional questions, please don't hesitate to let me know.

Best Regards,

ANAMETRIX, INC.

Taghi Momarzadih

Taghi Memarzadeh Field Services

TM/mh/4579

Enclosures

					DWIE: 7/2	8/91	
SITE	:224	4 Santa Clara	JOINT	DEPITI	:19.7'		
		MW-1		DEPITI		TIME:12:30	
CODE NO	· :		WELL DIAMETER				
			FURGE VOLUME		(10  x) = 60  liters		
SAMPLER		Taghi		G RATE	:		
			FUMPIN		•		
					Y: <u> </u>		
			NO. OF		• •	<del></del>	
			WELL YI		Low		
				TIME	: 13:55	<del></del>	
			571 II - 5		. (3.22	~	
TIME	VOLUME	TURBIDITY	pii	7	E.C.	T*C	
12:45	1	>200	8.4		7430	17°	
12:50	2	>200	7.9		609,0	16°	
12:57	3	>200	8.0		5850	16°	
13:05	4	>200	8.0		487,0	16°	
13:10	5	>200	7.9		4870	16°	
13:15	66	>200	7.9		343.5	16°	
13:20	7	>200	7.8		328.9	16°	
13:24	8	>200	8.0		328.9	16°	
13:30	9	>200	7.9		280.1	16°	
13:45	10	>200	7.9		255.8	16°	
PURGE PR	OCEDURE :	B & K Pump		PUME	PLACEMENT:		
		Teflon Bailer					
PARAM	ETER:	CONTAINER (TY	PE/NUMBE	R):	PRESE	RVATIVE:	
2 X 1	liter	TPHd	<del> </del>		Cool	L	
				<del></del>			
		<del></del>					
FIELD OB	SERVATIONS:	Water was mudd	ly, sili	ty and	very turb.	id.	
Toward	end of	developement it	was al	most c	lear.		
		····	<del></del>				
RECOVERY	RATE:	RECO	OVERY PE	RCENTAGE	8	at hrs	
CLIMATIC	CONDITIONS	: Rainy and co	ol.				
		·			<del></del>		

					DATE: 2/2	28/91	
cire	• 2 2	44 Santa Clara	ግናንቦ <u>ል</u> ፣. 1	ודוספר	.15.08'		
	. <u></u>				9.86	TIME: 13	:55
						141.51	
=	• •				: 2"		
	WI NO.:		FURGE V		2(10x) = 41	<u>U</u>	
SAMPLER	. :	Tagni	PUMPING		<u>-</u>		
			PUMPING		•	<u> </u>	
		•			(: <u>1 liter</u>		
			NO. OF	BAILS	:_Vary		
			WELL YI	ELD	: Low	<del></del>	<del>,</del>
			SAMPLE	TIME	: 15:00	<del></del>	, <del>,_,</del>
TIME	VOLUME	TURBIDITY	Ы		E.C.	T	:*C
14:05	1	>200	7.7	2	284.8	1	5°
14:10	2	>200	7.7	2	262.5	1	5°
14:15	3	>200	7.5	2	284.8	1	15°
14:20	4	>200	7.6	2	262.5	1	ı 5°
14:25	5	>200	7.5	2	235.4	1	15°
14:30	6	>200	7.5		235.4	1	15°
14:35	7	>200	7.4		211.9	1	15°
14:40	8	>200	7.4		211.9		15°
14:45	9	>200	7.4		190.7		15°
14:50	10	>200	7.4		190.7		15°
		Bailer		PUMI	P PLACEMENT:		
		Teflon Bailer					
	ETER:	CONTAINER (T	(PE/NUMBI	ER):	PRESI	RVATIVE:	
ТРН		2 X 1 1	iter		Coc	)1	
						·	
FIELD OF	SERVATION	S: Water was mud	dy, sil	ty tow	ard end of	the	
		turned almost cl					
RECOVERY	RATE:	REC	OVERY PE	RCENIAGE	E:	AT	HRS
CLIMATIC	CONDITION	VS: Rainy, cool.					

					DATE: 2/4	28/91	
SITE	:224	4 Santa Clara	JOIAL	DEPIN	.19.95'		
WELL I.	.D. :	MW-3		DEPIH	9.56'	TIME:	15:15
CODE NO	). :			IAMETER			
<b>EQUIPME</b>	NI NO.:	R-3		VOLUME	$\frac{10x}{6} = 6$		
SAMPLER		aghi	PUMPIN		•	io TICE	<u>:LS</u>
			PUMPIN		•		
					: :		<u> </u>
				BAILS		<del>-</del>	
			WELL Y		: 60		
			SAMPLE		High	<del></del>	<del></del> -
			SAILTE	TIME	: 16:15		
TIME	VOLUME	TURBIDITY	рИ	<b>,</b>	E.C.		T*C
15:20	1	>200	7.9	6	98		18°
15:25	2	>200	7.8		84		18°
15:30	3	>200	7.8		188		18°
15:35	4	>200	7.9		131		18°
15:40	5	>200	7.8		888		18°
15:45	6	>200	7.8		888		18°
15:49	7	>200	7.8	3	351		18°
15:53	8	>200	7.7	3	328		18°
15:59	9	>200	7.7	3	114		18°
16:05	10	>200	7.7	3	114		18°
PURGE PR	ROCEDURE :_	Bailer		PUMP	PLACEMENT:		
sample p	PROCEDURE: 1	Teflon Bailer					
PARAM	ETER:	CONTAINER (TY	PE/NUMBE	R):	PRESE	RVATIVE	:
TPHO	1	2 X 1 liter			Co	ool	
			······································				
			·····				
FIELD OB	SERVATIONS:	Water was mudo	ly, sil	ty, it	turned cl	ear at	end
of dev	relopement	of the well.					
	<del></del>	· · · · · · · · · · · · · · · · · · ·					
ECOVERY	RATE:	RECO	OVERY PE	RCENTAGE	·8	ΛT	HRS
LIMATIC	CONDITIONS	Rainy cool.					
<del></del>							<del></del>

					DATE: 05/3	0/91	<del></del>
PROJECT NO.	:		TOTAL DE	PTH	: 19.16		
SITE	: 2244 Santa Cl	ara Avenue	WATER DE	EPTH	: 9.54'	TIMI	3: 9:50
WELL LD.	: MW-1		WELL DIAMETER : 2"			<u>-</u>	
CODE NO.	•		PURGE VOLUME :( 4 X)			24	
EQUIPMENT I	NO.: R-1		PUMPING 1	RATE	:	<del></del>	
SAMPLER NA		-	PUMPING '	TIME	•		
SIGNATURE	:		BAILER CA	PACITY	7: 1 liter		
0.0.0.			NO. OF BA	ILS	: 24		
			WELL YIE	LD	: High		
			SAMPLE T	IME	: 11:00		
TIME	VOLUME	TURBIDITY	pН		E.C		T°C_
10:15	1	>200	6.5		1628	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18
10:25	2	>200	6.5		1454		18
10:30	3	>200	6.5		1454		18
10:37	4	>200	6.5		1454		18
		-		<u>-</u>			
		m a . D. II.		ו פואות ומ	PLACEMENT	•	
	CEDURE : 1 Lite	<u> </u>		I OIVII	<u> </u>	<u>·</u>	
	CEDURE: 1 Liter	CONTAINER (TY	DE /NITIMIRED	١٠		PRESERVA'	 ПVE:
PARAME				·/·		Cool	
TPHd as Hyd	lrolic oil	2 X Liter					
<b></b> _							
			<del></del>				
			<del></del>	<del></del>			
				-			
FIELD OBSEL	RVATIONS: Locki	ng cap was submerged	under standing	water.	Water was ren	oved before	opening the
cap.							
RECOVERY	RATE: No draw of	lown RECO	VERY PERC	ENTAGI	3:	% AT	HR:
		ny and windy with temp	perature in the	mid 60's	•		

					DATE: 05/30	/91	
PROJECT NO	l. :		TOTAL DE	PTH	: 14.82'		
SITE	: 2244 Santa Clar	ra Avenue	WATER DE	EPTH	: 4.52'	: 4.52' TIME: 11:15	
WELL LD.	: MW-2		WELL DIAMETER : 2"		: 2"		
CODE NO.	•		PURGE VOLUME :( 5		(5 X) = 20	)	
EQUIPMENT	NO.: R-2		PUMPING 1		:		
SAMPLER NA			PUMPING '	TIME	:		<del></del>
SIGNATURE			BAILER CA	APACITY	l: 1 liter		<del></del>
			NO. OF BA	ILS	: 20		
			WELL YIE	LD	: High		
			SAMPLE T	IME	: 12:00		
TIME	VOLUME	TURBIDITY	_pH		E.C		<u>T°C</u>
11:20	1	>200	6.7		1818		19
11:30	2	>200	6.7		1570		18
11:37	3	>200	6.7		1570		18
11:40	4	>200	6.8		1511		18
11:44	5	>200	6.5		1511		18
11:46	6	>200	6.5		1511		18
		T. C P11		יו מאוזמ	PLACEMENT:		
	CEDURE : 1 Liter			I OIVII I	LACLINICIA		
	OCEDURE: 1 Liter '	CONTAINER (TY	PE /NI IMRER	١٠	P	RESERVAT	
PARAME				<u></u>		Cool	
TPHd as Hy	drolic oil	2 X Liter					
				_			
						<u>,,,</u>	
FIELD OBSE	RVATIONS: Water	was almost clear with	light brown col	lor and n	o sheen was see	en.	
				<u> </u>			
							_,
RECOVERY	RATE: .86' per min	nute RECO	VERY PERCI	ENTAGE	E:	6 AT	HRS
CLIMATIC C	CONDITIONS: Sunn	y and windy with temp	erature in the	low 70's.			

				DATE: 05/3	0/91				
PROJECT NO	) <b>.</b> :		TOTAL DEP	TH : 19.66'					
SITE	: 2244 Santa Clar	га Ауспис	WATER DEF	TH : 9.41'	TIME: 12:30				
WELL LD.	: MW-3		WELL DIAM						
CODE NO.	:		PURGE VOL	UME :( 4 X) = :	24				
EQUIPMENT	NO.: R-3		PUMPING R	ATE :	<u></u>				
SAMPLER NA			PUMPING TIME :						
SIGNATURE			BAILER CAPACITY: 1 liter						
<u> </u>			NO. OF BAII	LS : 24					
			WELL YIELI	D : High					
			SAMPLE TIN	ME : 13:05					
TIME	VOLUME	TURBIDITY	рН _	E.C	T°C				
12:35	1	>200	6.7	2282	21				
12;42	2	>200	6.7	2337	21				
12:49	3	>200	6.7	2337	21				
12:55	4	>200	6.7	2337	21				
1333									
				<u>-</u>					
	CEDURE : 1 Liter		P	UMP PLACEMENT	•				
SAMPLE PRO	OCEDURE: 1 Liter								
PARAME	ETER:	CONTAINER (TY	PE/NUMBER):		PRESERVATIVE:				
TPHd as Hy	drolic oil	2 X Liter			Cool				
				· ·					
			<u></u>						
					<u></u>				
	DILATIONS III 4		anion and no si	haan TIME CARD					
FIELD OBSE	RVATIONS: Water	was muddy with brown	color and no si	deen was seen.	, , , , , , , , , , , , , , , , , , ,				
DECOMED!	DATE: N. 4 4	BECO	VERY PERCE	TAGE:	% AT HRS				
	RATE: No draw do				//				
CLIMATIC C	יסווווטאס: פאטוווטאס:	y and windy with temp	ciature in the ic	ун 10 э.					

# ANAMETRIX INC Environmental & Analytical Chemistry



1961 Concourse Drive, Suite E San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198

September 25, 1991

Mr. Gary Zaccor ZACCOR CORPORATION 791 Hamilton Avenue Menlo Park, CA 94025

Dear Mr. Zaccor:

Enclosed are your copies of the Field Log sheets and the original Chain of Custody for the field sampling that we recently completed for your company.

The staff at Anametrix, Inc. would like to thank you for the opportunity to provide field and analytical services for the site at 2244 Santa Clara on September 20, 1991. If you have any additional questions, please don't hesitate to let me know.

Best Regards,

ANAMETRIX, INC.

Taghi Memarzadeh Field Services

TM/mh/6228

**Enclosures** 

					DATE: 09/20/91		
PROJECT NO	. <u>:</u>		TOTAL DE	PTH	: 19.16'		
SITE	: 2244 Santa Cl	ага	WATER DE	EPTH	: 10.78'	TIME: 11:45	
WELL I.D.	: MW-1		WELL DIAMETER		: 2"		
CODE NO.	<u>•</u>		PURGE VO	LUME	$(3 \ X) = 15$ liters		
EQUIPMENT	NO.: R-10		PUMPING	RATE	:		
SAMPLER NA	ME: Taghi		PUMPING '	TIME	:		
SIGNATURE	•		BAILER CA				
			NO. OF BA	ILS	: 15		
			WELL YIEI	Œ	: Mid.	<u> </u>	
			SAMPLE T	ME	: 12:25		
TIME	VOLUME	TURBIDITY	pН		E.C.	T°C_	
11:48	1	>200	6.3		1628	18	
_11:52	2	>200	6.3		1628	18	
11:59	3	>200	6.3		1628		
					`		
					·		
	CEDURE : 1 Liter	<del></del>	1	PUMP P	LACEMENT:		
	CEDURE: 1 Liter						
PARAME		CONTAINER (TYP	E/NUMBER)	<u> </u>	1	ERVATIVE:	
TPHd/Hyd	Irolic oil	2 X Liter				Cool	
<del></del>		<del></del>					
<del>-</del>						<del></del>	
		- <del></del>					
FIELD OBSER	VATIONS Water	was cloudy with light br	own color W	ell annro	ached drimess at en	d of third volume	
		collected after 80% re-		он аррго	action drynoss at one	i or and volume,	
			<u></u>	<del></del>		<del></del>	
RECOVERY R	ATE: 1.08' per mi	nute RECOV	ERY PERCEI	NTAGE:	% AT	HRS	
		cloudy with temperatu					
	<del></del>			<del>-</del>			

					DATE: 09/20/91	L	
PROJECT NO	). <u>:</u>		TOTAL DE	PTH	: 14.82'		
SITE	: 2244 Santa C	lara	WATER DI	EPTH	: 10.71'	TIME: 10	:00
WELL I.D.	: MW-2		WELL DIA	METER	: 2"		
CODE NO.	<u>:</u>		PURGE VO	DLUME	(4 X) = 12  li	ters	
EQUIPMENT	'NO.: B-9		PUMPING	RATE	•		
SAMPLER NA	AME: Taghi		PUMPING	TIME	<u>:</u>		
SIGNATURE	•	<u>-</u>	BAILER CA	APACITY	7: 1 liter		
			NO. OF BA	ILS	: 12		
			WELL YIE	LD	: High		
			SAMPLE T	IME	: 10:55		
TIME	VOLUME	TURBIDITY	pH		E.C.	T°	°C_
10:15	1	>200	6.3		2271	1	18
10:20	2	>200	6.4		1861	1	18
10:25	3	>200	6.4		1744	1	8
10:35	4	>200	6.4		1744	1	18
	·						
DIDCE DDO	CEDIDE . 1 Lie	- T-fl D-ll		DID (D.D)	LACENCENE.		
	CEDURE: 1 Lite			PUMP P	LACEMENT:	<u></u>	
PARAME	OCEDURE: 1 Liter	CONTAINER (TYP	DE /NII IN/DED	٠	DD F	SERVATIVE:	
			E/NUMBER	)	TRE		$\neg$
TPHd/Hy	drocil oil	2 X Liter	· · · · · · · · · · · · · · · · · · ·			Cool	
<del></del>			<u> </u>				
L							
FIELD OBSEI	RVATIONS: Water	was cloudy withlight bro	own color. No	sheen or	odor was present.	. Sample was t	aken
after 80% reco	overy.						
RECOVERY	RATE: .75' per mi	inute RECOV	ERY PERCE	NTAGE:	% AT		HRS
		udy with temperature in	the low 70's.	<u> </u>			
							_

				DATE	09/20/91			
PROJECT NO.	<u>•                                      </u>		TOTAL DEP	TH : 19.66'	: 19.66			
SITE	: 2244 Santa Clas	ra	WATER DEF	TH : 10.19°		TIME: 11:05		
WELL I.D.	: MW-3		WELL DIAM	ETER : 2"	: 2"			
CODE NO.	<u>:</u>		PURGE VOL					
EQUIPMENT I	NO. <u>:</u> R-9		PUMPING R	ATE :				
SAMPLER NA	ME: Taghi		PUMPING TI	ME :				
SIGNATURE	<u>:</u>		BAILER CAP	ACITY: 1 liter				
			NO. OF BAIL	S <u>: 24</u>				
			WELL YIELI	: High				
			SAMPLE TIM	Œ <u>: 11:35</u>		<del></del>		
TIME	VOLUME	TURBIDITY'	pН		E.C.	T°C_		
11:10	1	>200	6.3	211	2	20_		
11:15	2	>200	6.3	194	6	20		
11:20	3	>200	6.3	184	8	21		
11:25	4	>200	6.3	184	8	21		
DI ID CE DD CO		-d D.::-	n.	TACD DI ACEL	CC S PP.			
	EDURE : 1 Liter To	<del> </del>		JMP PLACEM	IENT:			
PARAMET	CEDURE: 1 Liter To	CONTAINER (TYP	E/MIMOED).		DDECED			
			E/NUMBER):			RVATIVE:		
TPHd/Hyd	rolic oil	2 X Liter	<del>- ,  - , , , , , , , , , , , , , , , , </del>		<u>C</u>	ool		
					<u> </u>			
			·					
<u></u>			<u> </u>					
FIELD OBSER	VATIONS: Water w	as muddy with brown	color. No sheen	or petroleum	odor was pres	ent.		
	<i>4</i>							
RECOVERY R	ATE: No draw dow	n RECOV	ERY PERCEN	ΓAGE:	% AT	HRS		
CLIMATIC CO	NDITIONS: Cloudy	with temperature in t						





1961 Concourse Drive, Suite E San Jose CA 95131 (408) 432-8192 • Fax (408) 432-8198

January 2, 1992

Mr. Gary Zaccor ZACCOR CORPORATION 791 Hamilton Avenue Menlo Park, CA 94025

Dear Mr. Zaccor:

Enclosed are your copies of the Field Log sheets and the original Chain of Custody for the field sampling that we recently completed for your company.

The staff at Anametrix, Inc. would like to thank you for the opportunity to provide field and analytical services for the site at 2244 Santa Clara on 12/19/91. If you have any additional questions, please don't hesitate to let me know.

Best Regards,

ANAMETRIX, INC.

Kilma Desai

Kilma Desai Field Services

KD/mh/6461

Enclosures

						DATE: 12/19	)/91				
PROJECT NO	D. :			TOTAL DE	EPTH	: 19.16'					
SITE	: 2244	Santa Clara		WATER D	EPTH	: 10.92	TIM	Œ: 10:30			
WELL I.D.	: MW-	1		WELL DIA	METER	: 2"	<u></u>				
CODE NO.	:			PURGE VOLUME :( 3 X) = 15 liters							
EQUIPMENT	NO.: B-8			PUMPING RATE :							
SAMPLER N	AME: Taghi			PUMPING	TIME	:	<u></u>				
SIGNATURE				BAILER C	APACIT	Y: 1 Liter					
	<u></u>			NO. OF BA	II.S	: 15					
				WELL YIE	LD	: Mid	<u>,                                      </u>				
				SAMPLE T	TME	: 11:35					
TIME	VOLU	МЕ	TURBIDITY	рН		E.C.		т°с			
10:50	1		>200	5.9	<b></b>	1828		16			
11:00	2		>200	6.1		1644		16			
11:08	3		> 200	6.1		1644		16			
PURGE PRO	CEDI IRF ·	1 Liter Teflo	n Bailer		PUMP F	PLACEMENT:					
SAMPLE PRO	•										
PARAMI	•		NTAINER (TYI	PE/NUMBER	):	P	RESERVAT	TIVE:			
TPHd as hydr			2Xliter		<u> </u>		Cool	,			
TTTTC as nydr	aune on		27 111.01					-			
		<del></del>									
					<u></u>						
					<u>,,                                     </u>						
FIELD OBSE	RVATIONS	S:Water was m	uddy with a brow	n color water l	level went	t down to 17.91	'. Sample w	as collected			
agter 80% rec	overy.		<del></del>			<del></del>		<del></del>			
DECOVERY	DATE: 44	2' ====================================	DECO	/EDV DEDCE	ENTAGE	. 01		HRS			
RECOVERY	· · · · · · · · · · · · · · · · · · ·			VERY PERCE			) A1	111/2			
CLIMATIC C	MOLLION	is: Sunny,win	ly with temperatu	Tes III the low	OU 5.						

				DATE: 12/19/	71					
PROJECT NO	D. :		TOTAL DEP	TH : 14.82'						
SITE	: 2244 Santa Clar	ra	WATER DEI	TH : 10.89	TIME: 11:46					
WELL I.D.	: MW-2		WELL DIAM	ETER : 2"	·····					
CODE NO.	:		PURGE VOI	.UME :( 3 X) 9 Lit	ers					
EQUIPMENT	NO.: B-9		PUMPING R	ATE :						
SAMPLER N	AME: Taghi		PUMPING TIME :							
SIGNATURE	:	<del></del>	BAILER CAI	PACITY: 1 Liter						
			NO. OF BAII	LS <u>:</u> 9						
			WELL YIEL	D : Mid.						
			SAMPLE TIM	ME : 12:40						
ТІМЕ	VOLUME	TURBIDITY	pΗ	E.C	T°C					
11:55	1	>200	6.1	2119						
12:00	2	>200	6.2	1827	16					
12:10	3	> 200	6.2	1827	16					
PURGE PRO	CEDURE: 1 Liter	Teflon Bailer	P	UMP PLACEMENT:						
SAMPLE PR	OCEDURE: 1 Liter	Teflon Bailer								
PARAM	ETER:	CONTAINER (TY	PE/NUMBER):	PI	RESERVATIVE:					
TPHd as	hydraulic oil	2Xliter			Cool					
<u> </u>										
FIELD OBSE	ERVATIONS:Water v	vas muddy with a brow	n color. Sample	e was collected after 80	% recovery.					
	RATE: 0.81' per mi	<del></del>	VERY PERCE		AT HE					
CLIMATIC (	CONDITIONS: Sudd	y, windy with temperat	ures in the low	60's						

				DATE: 12/19/01					
PROJECT NO.	:		TOTAL DEPT	H : 19.66'					
SITE	: 2244 Santa Clar	a	WATER DEPI	H : 10.51' TIME: 12:50					
WELL I.D.	: MW-3		WELL DIAME	TER : 2"					
CODE NO.	-		PURGE VOLU	ME :( 4 X) = 24 liters					
EQUIPMENT N	O.:B-10		PUMPING RATE :						
SAMPLER NAM			PUMPING TIN						
SIGNATURE	:		BAILER CAPA	CITY: 1 Liter					
			NO. OF BAILS	: 24					
			WELL YIELD	: High					
			SAMPLE TIM	E : 13:20					
TIME	VOLUME	TURBIDITY	pH	E.C. T°C					
12:55	1	>200	6.6	1534 19					
13:00	2	>200	6.6	1477 19					
13:05	3	>200	6.6	1477 19					
13:10	4	> 200	6.6	147719					
13.10									
PURGE PROCE	EDURE : 1 Liter 7	Teflon Bailer	PU	MP PLACEMENT:					
SAMPLE PROC	EDURE: 1 Liter T								
PARAMET	ER:	CONTAINER (TY	PE/NUMBER):	PRESERVATIVE:					
TPHd as hy	draulic oil	2Xliter		Cool					
		·							
		11 11 1	1-						
FIELD OBSERV	VATIONS: Water v	vas muddy with a brov	wn color.						
		DECO		TAGE: % AT H					
	ATE: No draw dov	<del></del>	VERY PERCENT						
CLIMATIC CO	NDITIONS: Sunny	, windy with temperat	ures in the low 60	·					

WATER DEPTH : 9.56' TIME: 15:15  CODE NO. : WELL DIAMETER : 2"  FURGE VOLUME : (10x) = 60 liters  SAMPLER : Taghi PURPING RATE :  PURPING TIME :  BAILER CAPACITY: 1 liter  NO. OF BAILS : 60  WELL YIELD : High  SAMPLE TIME : 16:15  TIME VOLUME TURBIDITY PH E.C. T*C  15:20 1 >200 7.9 698 18°  15:25 2 >200 7.8 584 18°  15:30 3 >200 7.8 488 18°  15:35 4 >200 7.9 431 18°  15:40 5 >200 7.8 388 18°  15:40 5 >200 7.8 388 18°  15:45 6 >200 7.8 388 18°  15:49 7 >200 7.8 388 18°  15:59 9 >200 7.8 388 18°  15:59 9 >200 7.7 314 18°  15:59 9 >200 7.7 314 18°  15:59 9 >200 7.7 314 18°  16:05 10 >200 7.7 314 18°  FURGE PROCEDURE: Bailer FUMP FLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer FUMP FLACEMENT:  TPHD 2 X 1 liter Cool  of developement of the well.					;	DATE: 2/28/91	
TIME VOLUME TURBIDITY ON E.C. T*C  15:20 1 >200 7.9 698 18°  15:25 2 >200 7.8 584 18°  15:30 3 >200 7.8 488 18°  15:35 4 >200 7.9 431 18°  15:40 5 >200 7.8 388 18°  15:45 6 >200 7.8 388 18°  15:45 6 >200 7.8 388 18°  15:49 7 >200 7.8 388 18°  15:53 8 >200 7.8 351 18°  15:53 8 >200 7.7 328 18°  15:59 9 >200 7.7 328 18°  16:05 10 >200 7.7 314 18°  PURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.	CODE NO.	O. : VI NO.:R	MW−3 −3	WATER E WELL DI FURGE V PUMPING PUMPING BALLER NO. OF	EPINI EPINI AMETER OLUME RATE TIME CAPACITY EALLS	19.95' 9.56' TIME: 2" (10x) = 60 lit  1 liter 60	
15:20 1 >200 7.9 698 18° 15:25 2 >200 7.8 584 18° 15:30 3 >200 7.8 488 18° 15:35 4 >200 7.9 431 18° 15:40 5 >200 7.8 388 18° 15:45 6 >200 7.8 388 18° 15:49 7 >200 7.8 388 18° 15:53 8 >200 7.8 381 18° 15:59 9 >200 7.7 328 18° 15:59 9 >200 7.7 328 18° 16:05 10 >200 7.7 314 18° 16:05 10 >200 7.7 314 18°  PURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teffon Bailer PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.				SAMPLE	TIME	16:15	<del></del>
15:20	TIME	VOLUME	TURBIDITY	pft		E.C	T°C
15:25 2 >200 7.8 584 18°  15:30 3 >200 7.8 488 18°  15:35 4 >200 7.9 431 18°  15:40 5 >200 7.8 388 18°  15:45 6 >200 7.8 388 18°  15:49 7 >200 7.8 351 18°  15:53 8 >200 7.7 328 18°  15:59 9 >200 7.7 328 18°  16:05 10 >200 7.7 314 18°  PURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.			>200	7.9	6	98	18°
15:35		2	>200	7.8	5	84	18°
15:35 4 >200 7.9 431 18°  15:40 5 >200 7.8 388 18°  15:45 6 >200 7.8 388 18°  15:49 7 >200 7.8 351 18°  15:53 8 >200 7.7 328 18°  15:59 9 >200 7.7 314 18°  15:59 10 >200 7.7 314 18°  FURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): FRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	15:30	3	>200	7.8	4	88	18°
15:45 6 >200 7.8 388 18°  15:49 7 >200 7.8 351 18°  15:53 8 >200 7.7 328 18°  15:59 9 >200 7.7 314 18°  16:05 10 >200 7.7 314 18°  PURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	F .	1	>200	7.9	4	31	18°
15:45   6	15:40	5	>200	7.8	3	88	18°
15:49		<u> </u>	>200	7.8	3	88	18°
15:53			>200_	7.8	3	51	18°
15:59 9 >200 7.7 314 18°  16:05 10 >200 7.7 314 18°  PURGE PROCEDURE: Bailer FUMP PLACEMENT:  SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS			>200	7.7	3	28	18°
PURGE PROCEDURE: Bailer	F		>200	7.7	3	14	
SAMPLE PROCEDURE: Teflon Bailer  PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	16:05	10	>200	7.7	3	14	18°
PARAMETER: CONTAINER (TYPE/NUMBER): PRESERVATIVE:  TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: \$ AT HRS	PURGE PI	ROCEDURE :_	Bailer		PUMP	PLACEMENT:	
TPHd 2 X 1 liter Cool  FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of development of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	SAMPLE I	PROCEDURE:	Teflon Bailer				
FIELD OBSERVATIONS: Water was muddy, silty, it turned clear at end of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	PARA	METER:	CONTAINER (	TYPE/NUMBI	R):		VE:
of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	TPH	d	2 X 1 lite	er		Cool	
of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	<b> </b>						
of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS				<del></del>			
of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS	<u> </u>						
of developement of the well.  RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS			11. how too m	ndan si	ltv it	turned clear	لــــــــــــــــــــــــــــــــــــ
RECOVERY RATE: RECOVERY PERCENTAGE: % AT HRS					LLY, IL	Edinea Cicai	
	OI GE	:verobemen	C OT CHE METT	<u> </u>			
	RECOVER	Y RATE:	R	ECOVERY PI	ERCENTAGE	:% AT	HRS
	CLIMATI	C CONDITION	S: Rainy, coo	1			

					DATE: 2	2/28/91	
WELL I.D CODE NO. EQUIPMEN	: 2244 :	R-2	WATER DIWELL DI PURGE V PUMPING PUMPING BAILER NO. OF WELL YI	epiii Ameter Olume Rate Time Capacit Bails Eld	: 9.86'	TIME:	13:55
TIME	VOLUME	TURBIDITY	рΗ		E.C.		T°C
14:05	1	>200	7.7		284.8		15°
14:10	2	>200	7.7		262.5		15°
14:15	3	>200	7.5		284.8		15°
14:20	4	>200	7.6		262.5		15°
14:25	5	>200	7.5		235.4		15°
14:30	6	>200	7.5		235.4		15°
14:35	7	>200	7.4		211.9		15°
14:40	8	>200	7.4		211.9		15°
14:45	9	>200	7.4		190.7		15°
14:50	10	>200	7.4		190.7		15°
	ROCEDURE :_	Bailer		PUM	IP PLACEME	enii:	
SAMPLE F	ROCEDURE:	Teflon Bailer					
	METER:	CONTAINER (T	YPE/NUMBI	ER):		RESERVATION	/E:
TPHO	1	2 X 1	liter			Cool	
			·	<del></del>			
				<del></del>			
<u> </u>							
						of the	
		: Water was mu		tty to	ward end	OI Che	<u> </u>
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13:05	4	>200	8.0		487.0	16°
13:10	5	>200	7.9		4870	16°
13:15	66	>200	7.9		343.5	16°
13:20	7	>200	7.8		328.9	16°
13:24	8	>200	8.0		328.9	16°
13:30	9	>200	7.9		280.1	16°
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9102316

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# APPENDIX D

Anametrix, Inc.
Monitoring Well Analytical Reports
02-28-91

05-30-91

09-20-91

12-19-91

# LAMETRIX INC

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



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9102316 Date Received: 02/28/91

Project ID : 2240 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9102316- 1	MW-1
9102316- 2	MW-2
9102316- 3	MW-3

This report consists of 3 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 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.

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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.

Laboratory Director

page 50

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9102316
Date Received : 02/28/91
Project ID : 2240 SANTA CLARA
Purchase Order: N/A

Department : GC Sub-Department: TPH

#### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9102316- 1	MW-1	WATER	02/28/91	трна
9102316- 2	MW-2	WATER	02/28/91	TPHd
9102316- 3	MM-3	WATER	02/28/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9102316

Date Received: 02/28/91 Project ID: 2240 SANTA CLARA

Purchase Order: N/A Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor

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

Project Number: 2240 SANTA CLARA Date released: 03/08/91

Instrument I.D.: HP9

Anametrix W.O.: 9102316
Matrix : WATER
Date Sampled : 02/28/91
Date Extracted: 03/04/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9102316-01	MW-1	03/07/91	50	ND
9102316-02	MW-2	03/07/91	50	ND
9102316-03	MW-3	03/07/91	50	ND
DWBL030491	METHOD BLANK	03/07/91	50	ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

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

TPHd - Total Petroleum Hydrocarbons as hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

PROJECT NUMBER	->	PROJECT NA	une 3 st	ira St. Alama	da		Type of Analy	/sis		
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# METRIX IN

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



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9105352 Date Received: 05/30/91

: 2244 SANTA CLARA Project ID

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9105352- 1	MW-1
9105352- 2	MW-2
9105352- 3	MW-3

This report consists of 3 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.

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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

6-17-91

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9105352
Date Received : 05/30/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : GC

Sub-Department: TPH

# CAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9105352- 1	MW-1	WATER	05/30/91	TPHd
9105352- 2	MW-2	WATER	05/30/91	TPHd
9105352- 3	MW-3	WATER	05/30/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP.

791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9105352

Date Received: 05/30/91
Project ID: 2244 SANTA CLARA

Purchase Order: N/A Department : GC Sub-Department: TPH

QA/QC SUMMARY :

No QA/QC problems encountered for these samples.

Department Supervisor

lew Just'sol 06-17-9/

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

Anametrix W.O.: 9105352 Matrix : WATER

Project Number: 2244 SANTA CLARA Date released: 06/14/91

Matrix

Date Sampled: 05/30/91

Instrument I.D.: HP9

Date Extracted: 06/03/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9105352-01	MW-1	06/06/91	50	ND
9105352-02	MW-2	06/06/91	50	ND
9105352-03	MW-3	06/06/91	50	ND
DWBLK060391	METHOD BLANK	06/06/91	50	ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

ND - Not detected at or above the practical quantitation limit for

the method.

TPHd - Total Petroleum Hydrocarbons as hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

6.17.91 Date

Supervisor

Signature & Title

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# ANAMETRIX INC

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



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9109198
Date Received : 09/20/91

Project ID : 2244 SANTA CLARA

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9109198- 1	MW-1
9109198- 2	MW-2
9109198- 3	MW-3

This report consists of 3 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.

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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 Date

10-03-91

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

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

Workorder # : 9109198
Date Received : 09/20/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : GC
Sub-Department: TDH Sub-Department: TPH

#### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9109198- 1	MW-1	WATER	09/20/91	TPHd
9109198- 2	MW-2	WATER	09/20/91	TPHd
9109198- 3	MW-3	WATER	09/20/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9109198
Date Received : 09/20/91

Project ID : 2244 SANTA CLARA

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheurl Balmer 10/1/9, Department Supervisor Date

Pleus Jurial 10-01-91
Chemist Date

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

Anametrix W.O.: 9109198

Project Number: 2244 SANTA CLARA Date Released: 10/01/91 Instrument I.D.: HP19

Matrix : WATER
Date Sampled : 09/20/91

Date Extracted: 09/26/91

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9109198-01	MW-1	10/01/91	50	ND
9109198-02	MW-2	10/01/91	50	ND
9109198-03	MW-3	10/01/91	50	ND
DWBL092691	METHOD BLANK	10/01/91	50	ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

ND - Not detected at or above the practical quantitation limit for

the method.

TPHd - Total Petroleum Hydrocarbons as hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

CHAIN-OF-CUBTODY CLIENT PROJECT MAHE 2244 SAWTA CLARA PROJECT NUMBER Type of Amalysis Report Due | Verbal Due. Send Report Attention of: Humber Type GARY ZACCOR of Witnessing Agency Inspector Name Date Containers Cotors Sample Humber Station Location Date 1 ime ! Comp ! Grab umber 9,20,91 12125 Liter .7 11135 1 CLIENT NAME, ADDRESS and PHONE NUMBER ZACCOR CORP. Relinquished by: (Signatury) Qate/Time, Received by: (Signature)

Jaghi Memorzadul 13,40 ... The following HUST BE completed by the laboratory accepting samples for analysis: Date/Time 1/20/9) 1340 1. Have all samples received for analysis been stored in ice? VCJ 2. Will samples remain refrigerated until analyzed? Relinquished by: (Signature) | Date/Time Received by: (Signature) Date/fime NIA 3. Did any samples received for analysis have headepace?\_ Relinquished by: (Signature) | Date/Ilme | Received by: (Signature) Date/Time mole Control Ciutodian Signature & little

# ANAMETRIX INC

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



MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9112205

Date Received: 12/19/91
Project ID: 2244 SANTA CLARA Project ID

Purchase Order: N/A

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

ANAMETRIX ID	CLIENT SAMPLE ID
9112205- 1	MW-1
9112205- 2	MW-2
9112205- 3	MW-3

This report consists of 4 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.

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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

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9112205
Date Received : 12/19/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A

Department : GC Sub-Department: TPH

#### SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9112205- 1	MW-1	WATER	12/19/91	TPHd
9112205- 2	MW-2	WATER	12/19/91	TPHd
9112205- 3	MW-3	WATER	12/19/91	TPHd

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

MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025 Workorder # : 9112205 Date Received : 12/19/91

Project ID : 2244 SANTA CLARA

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor Date

Luna Sher Chemist

Date

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

Anametrix W.O.: 9112205

Project Number: 2244 SANTA CLARA Date Released: 01/07/92

Matrix : WATER
Date Sampled : 12/19/91
Date Extracted: 12/26/91 Instrument I.D.: HP9

Anametrix I.D.  9112205-01 9112205-02 9112205-03 DWBLK122691	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9112205-02 9112205-03	MW-1 MW-2 MW-3 METHOD BLANK	01/03/92 01/03/92 01/03/92 01/03/92	50 50 50 50	ND ND ND ND

Note: Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

ND - Not detected at or above the practical quantitation limit for

the method.

TPHd - Total Petroleum Hydrocarbons as hydraulic oil is determined by GCFID following sample extraction by EPA Method 3510.

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

ANAMERIKIN 14 47 FB 9 112 205
Environmental & Analytical Chemistry
1961 Concourse Prive (AIR) 432-8198

(408)	) 432-8192 • Fax	(400) 432-819		#/V			<del></del>					<del></del>	<del></del>	<del></del>			, <del>,,</del>	T
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