



CROSBY & OVERTON, INC.

Environmental Management

8430 Amella Street
Oakland, California 94621

FAX (415) 633-0759
(415) 633-0336 • (800) 821-0424

deborah

FACSIMILE TRANSMITTAL

TO:

FROM:

NAME

SUSAN HUGO

NAME

RICHARD CAMPBELL

COMPANY

DATE/TIME

7/3/91

FACSIMILE PHONE NUMBER

415 568-3706

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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

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Abs'd

**REPORT**

MR. DAVE SADOFF
CROSBY & OVERTON ENVIRONMENTAL
8430 AMELIA STREET
OAKLAND, CA 94621

Workorder # : 9108140
Date Received : 08/15/91
Project ID : 8852-S
Purchase Order: 12034

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

ANAMETRIX ID	CLIENT SAMPLE ID
9108140- 1	AQ-1
9108140- 2	S-1
9108140- 3	S-2
9108140- 4	S-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. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

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

Sarah Schoen

Sarah Schoen, Ph.D.
Laboratory Manager

8-22-91

Date

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

MR. DAVE SADOFF
 CROSBY & OVERTON ENVIRONMENTAL
 8430 AMELIA STREET
 OAKLAND, CA 94621

Workorder # : 9108140
 Date Received : 08/15/91
 Project ID : 8852-S
 Purchase Order: 12034
 Department : GC
 Sub-Department: TPE

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9108140- 1	AQ-1	WATER	08/14/91	BTEX
9108140- 2	S-1	SOIL	08/14/91	BTEX
9108140- 3	S-2	SOIL	08/14/91	BTEX
9108140- 4	S-3	SOIL	08/14/91	BTEX
9108140- 1	AQ-1	WATER	08/14/91	TPHd
9108140- 2	S-1	SOIL	08/14/91	TPHd
9108140- 3	S-2	SOIL	08/14/91	TPHd
9108140- 4	S-3	SOIL	08/14/91	TPHd

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

MR. DAVE SADOFF
CROSBY & OVERTON ENVIRONMENTAL
8430 AMELIA STREET
OAKLAND, CA 94621

Workorder # : 9108140
Date Received : 08/15/91
Project ID : 8852-S
Purchase Order: 12034
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The recoveries for the diesel method spike and method spike duplicate were outside of Anametrix control limit.

Cheryl B. ... 8/22/91
Department Supervisor Date

Gene ... 8/22/91
Chemist Date

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

Anamatrix W.O.: 9109140
Matrix : SOIL
Date Sampled : 08/14/91

Project Number : 8852-S
Date Released : 08/22/91

Reporting Limit	Sample I.D.# S-1	Sample I.D.# S-2	Sample I.D.# S-3	Sample I.D.# 08B0819A
COMPOUNDS (mg/Kg)	-02	-03	-04	BLANK
Benzene	0.005	ND	ND	ND
Toluene	0.005	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND
Total Xylenes	0.005	ND	ND	ND
% Surrogate Recovery	64%	87%	103%	70%
Instrument I.D.	HP8	HP8	HP8	HP8
Date Analyzed	08/19/91	08/19/91	08/19/91	08/19/91
RLMF	1	1	25	1

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

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.

RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Lucia Suor 8/20/91
Analyst Date

Charles B. ... 8/20/91
Supervisor Date

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

Anamatrix W.O.: 9109140
Matrix : WATER
Date Sampled : 08/14/91

Project Number : 8852-S
Date Released : 08/22/91

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# AQ-1	Sample I.D.# 12B0819A
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	2	ND
% Surrogate Recovery		94%	112%
Instrument I.D.		HP12	HP12
Date Analyzed		08/19/91	08/19/91
RIMF		2	1

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

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.

RIMF - Reporting Limit Multiplication Factor.
Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Lucas Sloc 8/22/91
Analyst Date

Christine Berman 8/22/91
Supervisor Date

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

Sample I.D. : 8852-S S-3
 Matrix : SOIL
 Date Sampled : 08/14/91
 Date Analyzed : 08/19/91

Anametrix I.D.: 9108140-03
 Analyst : JJ
 Supervisor : CB
 Date Released : 08/22/91

COMPOUND	SPIKE AMT. (mg/kg)	MS (mg/kg)	REC MS	MSD (mg/kg)	REC MSD	RPD	%REC LIMITS
Benzene	0.010	0.009	90%	0.009	90%	0%	46-149
Toluene	0.010	0.009	90%	0.010	100%	11%	43-146
Ethylbenzene	0.010	0.010	100%	0.010	100%	0%	51-138
M+P-Xylenes	0.0067	0.0058	87%	0.006	90%	3%	39-161
O-Xylene	0.0033	0.0039	117%	0.0036	108%	-8%	37-156
P-BFB			88%		89%		53-147

* Limits established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 3510 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE
 Matrix : REAGENT WATER
 Date Sampled : N/A
 Date Extracted: 08/19/91
 Date Analyzed : 08/20/91

Anamatrix I.D. : SPK081991
 Analyst :
 Supervisor :
 Date Released : 08/22/91
 Instrument I.D.: HP23

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	%REC MS	MSD (ug/L)	%REC MSD	RPD	%REC LIMITS
Diesel	1250	1700	136%	1500	120%	-13%	35-109

* Limits established by Anamatrix, Inc.

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

Anamatrix W.O.: 9108140 ?
Matrix : SOIL
Date Sampled : 08/14/91
Date Extracted: 08/19/91

Project Number : 8852-S
Date Released : 08/22/91
Instrument I.D.: HP23

Water sample?

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9108140-01	AQ-1	08/20/91	200	88000
DWBLO81991	METHOD BLANK	08/20/91	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10mg/Kg.

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

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GC/FID following sample extraction by EPA Method 3550.

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

Quinn Stone 8/20/91
Analyst Date

Cheryl Bulmer 8/22/91
Supervisor Date

11/28/91

9/108140

(2) 10/8

PROJ. NO. 8852-S	PROJECT NAME Sutter Camp / Wells Fargo	P.O. NO. 12034	NO. OF CON-TAINERS
---------------------	---	-------------------	--------------------

SAMPLERS: Signature *[Signature]* Send report attention to *Send report attention to Matt Walraven*

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	TPH/D	RTX/E	REMARKS
1) AQ-1	8/14/91	11:50		x	Water in pit	4	x	1 can w/ 3 mbbble
2) S-1	"	12:05		x	North @ 6' BGS	1-2	x	no mud sp. etc.
3) S-2	"	12:15		x	South @ 6' BGS	1	x	
4) S-3	"	12:20		x	Stockpile	1	x	

Relinquished by: Signature <i>[Signature]</i>	Date/Time 9:38 / 8/15/91	Received by: Signature <i>[Signature]</i>	Date/Time 8-15-91 / 0938
Relinquished by: Signature <i>[Signature]</i>	Date/Time 8/15/91 / 1030	Received by: Signature <i>[Signature]</i>	Date/Time 8/15/91 / 1030
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time

REMARKS: Normal TAT
Keep Samples after Analyses

Company Name Anamatrix
Address Concourse Drive,
San Jose, CA



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

09/03/91 11:33 6415 633 0759 CROSBY OVERTON 011

TRANSMISSION REPORT

TIME : SEP 03 '91 11:44
TEL NUMBER : 415-568-3706
NAME : ALCO ENV HLTH HAZMAT

<u>NBR</u>	<u>CARD#</u>	<u>FILE</u>	<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PGS</u>	<u>TO</u>	<u>MODE</u>	<u>STATUS</u>
006		023	SEP 03	11:43	0:01'14"	2	4158295493	G3	00 OK

TRANSMISSION REPORT

TIME : SEP 03 '91 09:49
TEL NUMBER : 415-568-3706
NAME : ALCO ENV HLTH HAZMAT

<u>NBR</u>	<u>CARD#</u>	<u>FILE</u>	<u>DATE</u>	<u>TIME</u>	<u>DURATION</u>	<u>PGS</u>	<u>TO</u>	<u>MODE</u>	<u>STATUS</u>
005		020	SEP 03	09:44	0:04'56"	8	8185052129	EC	04 OK

ANAMETRIX INC

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

**REPORT**

MR. MARK AYALA
CROSBY & OVERTON ENVIRONMENTAL
8430 AMELIA STREET
OAKLAND, CA 94621

Workorder # : 9110161
Date Received : 10/16/91
Project ID : 8852-S
Purchase Order: 12437

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

ANAMETRIX ID	CLIENT SAMPLE ID
9110161- 1	S-10
9110161- 2	S-11

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

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

Sarah Schoen, Ph.D.
Laboratory Manager

10-22-91

Date

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

MR. MARK AYALA
CROSBY & OVERTON ENVIRONMENTAL
8430 AMELIA STREET
OAKLAND, CA 94621

Workorder # : 9110161
Date Received : 10/16/91
Project ID : 8852-S
Purchase Order: 12437
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9110161- 1	S-10	SOIL	10/15/91	BTEX
9110161- 2	S-11	SOIL	10/15/91	BTEX
9110161- 1	S-10	SOIL	10/15/91	TPHd
9110161- 2	S-11	SOIL	10/15/91	TPHd

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

MR. MARK AYALA
CROSBY & OVERTON ENVIRONMENTAL
8430 AMELIA STREET
OAKLAND, CA 94621

Workorder # : 9110161
Date Received : 10/16/91
Project ID : 8852-S
Purchase Order: 12437
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Charles Balmer 10/22/91
Department Supervisor Date

Lucia Shor 10/22/91
Chemist Date

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

Anamatrix W.O.: 9110161
 Matrix : SOIL
 Date Sampled : 10/15/91

Project Number : 8852-S
 Date Released : 10/22/91

	Reporting Limit	Sample I.D.# S-10	Sample I.D.# S-11	Sample I.D.# 12B1018A
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	ND	ND	ND
% Surrogate Recovery		103%	94%	103%
Instrument I.D.		HP12	HP12	HP12
Date Analyzed		10/18/91	10/18/91	10/18/91
RLMF		1	1	1

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

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020.

RLMF - Reporting Limit Multiplication Factor.
 Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Laura Star 10/22/91
 Analyst Date

Cheryl Balman 10/22/91
 Supervisor Date

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

Anamatrix W.O.: 9110161
Matrix : SOIL
Date Sampled : 10/15/91
Date Extracted: 10/17/91

Project Number : 8852-S
Date Released : 10/22/91
Instrument I.D.: HP23

<u>Anamatrix I.D.</u>	<u>Client I.D.</u>	<u>Date Analyzed</u>	<u>Reporting Limit (mg/Kg)</u>	<u>Amount Found (mg/Kg)</u>
9110161-01	S-10	10/17/91	10	ND
9110161-02	S-11	10/17/91	10	ND
DSBL101791	METHOD BLANK	10/17/91	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.

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

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

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

Lucia Sher 10/22/91
Analyst Date

Cheryl Balmer 10/22/91
Supervisor Date

