

ANANIA GEOLOGIC ENGINEERING

February 28, 1990

Mrs. Barbara B. Hagen
East Bay Municipal Utility District
Source Control Division, #59
Post Office Box 24055
Oakland, California 94623

RE: Wastewater Monthly Report/Sample Data for the Groundwater Treatment System at the Carnation Dairy Facility in Oakland

AGE Project Numbers: 004-88-059, 004-89-093, 004-89-096

Account No. 033-00572

Dear Mrs. Hagen:

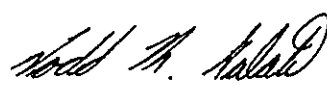
Enclosed are the laboratory analyses for the groundwater treatment system for the period of January 22, 1990 through February 16, 1990. The samples reported are for the 2-5 week of operation. The analyses were performed by Curtis and Tompkins, Ltd., Analytical Laboratories and Chromalab, Incorporated. The sample numbers 3053, 3491, 3493, 12204 refer to the influent wastewater stream, sample numbers 3054, 3489, 3494, 12205 refer to the effluent stream from carbon column 1, and sample numbers 3055, 3490, 3495, 12206 refer to the effluent stream from carbon column 2. The samples were analyzed for aromatic volatile organics (EPA 8020) as per the permit requirements. Sample numbers 12204, 12205, and 12206 were also analyzed for volatile organics (EPA 8240), semivolatile organics (EPA 8270), and PCB's (EPA 8080).


The total amount discharged to the sewer is 201,059 gallons.

If you have any questions concerning this information, please feel free to contact Jim Wallace or myself at (916) 631-0154.

Sincerely,

ANANIA GEOLOGIC ENGINEERING


Todd M. Galati
Project Manager


Jim Wallace
Senior Project Manager

cc: Mr. Howard Shmuckler, Carnation
Mr. Jim Person, Carnation
✓ Ms. Katherine Chesick, Alameda County Health Department



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

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LABORATORY NUMBER: 19385
CLIENT: ANANIA GEOLOGIC ENGINEERING
JOB NUMBER: 004-88-059

DATE RECEIVED: 01/22/90
DATE ANALYZED: 01/31/90
DATE REPORTED: 02/02/90

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
19385-1	3053	2,800	4,100	5,300	ND	100
19385-2	3054	ND	ND	ND	ND	1.0
19385-3	3055	ND	ND	ND	ND	1.0

ND = Not Detected.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

%RPD	4
%RECOVERY	100

M. E. Priddy

 QA/QC OFFICER

CS [Signature]

 LABORATORY DIRECTOR

Berkeley

Wilmington

Los Angeles

PROJECT NO. 004-88-059		LAB REPORT NO.		NO. OF CON- TAINERS	ANALYSES							REMARKS							
P.O. NO.		SAMPLERS: (signature) <i>Jamy Buenavista</i>			SAMPLE TYPE			8020672-X											
LAB LOG NO.	DATE	TIME	SAMPLE I.D.		SOIL		WATER												
					COMP	GRAB													
	1122190	1610	3053	2			X	X											
	1122190	1452	3054	2			X	X											
	1122190	1455	3055	2			X	X											
RELINQUISHED BY: (signature) <i>Jamy Buenavista</i>		DATE/TIME 11221901610		RECEIVED BY: (signature) <i>[Signature]</i>		REMARKS: Regular TAT					SEND RESULTS TO: ATTN: Jim Wallace Anania Geologic Eng. 1330 Sunrise Pk Dr., Suite C Rancho Cordova, CA 9572-6542 PHONE NO. (916) 451-0921								
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)															
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)															

CHAIN OF CUSTODY

White- AGE

Yellow - LAB Copy

Pink- File



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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 01/29/90
DATE REPORTED: 02/06/90
PAGE 1 OF 4

LAB NUMBER: 19439

CLIENT: ANANIA GEOLOGIC ENGINEERING

REPORT ON: 3 WATER SAMPLES

PROJECT #: 004-88-059

RESULTS: SEE ATTACHED

M.E. Prineas

QA/QC Officer
[Signature]

Laboratory Director

LABORATORY NUMBER: 19439-1
 CLIENT: ANANIA GEOLOGIC ENGINEERING
 JOB #: 004-88-059
 SAMPLE ID: 3489

DATE RECEIVED: 01/29/90
 DATE ANALYZED: 02/02/90
 DATE REPORTED: 02/06/90
 PAGE 2 OF 4

EPA 602: Volatile Aromatic Hydrocarbons in Water

COMPOUND	RESULT ug/L	DETECTION LIMIT ug/L
Benzene.....	ND	1.0
Toluene.....	ND	1.0
Ethyl Benzene.....	ND	1.0
Total Xylenes.....	ND	1.0
Chlorobenzene.....	ND	1.0
1,4-Dichlorobenzene.....	ND	1.0
1,3-Dichlorobenzene.....	ND	1.0
1,2-Dichlorobenzene.....	ND	1.0

ND = None Detected

QA/QC SUMMARY

RPD % 2
 SPIKE RECOVERY % 100

LABORATORY NUMBER: 19439-2
 CLIENT: ANANIA GEOLOGIC ENGINEERING
 JOB #: 004-88-059
 SAMPLE ID: 3490

DATE RECEIVED: 01/29/90
 DATE ANALYZED: 02/02/90
 DATE REPORTED: 02/06/90
 PAGE 3 OF 4

EPA 602: Volatile Aromatic Hydrocarbons in Water

COMPOUND	RESULT ug/L	DETECTION LIMIT ug/L
Benzene.....	ND	1.0
Toluene.....	ND	1.0
Ethyl Benzene.....	ND	1.0
Total Xylenes.....	ND	1.0
Chlorobenzene.....	ND	1.0
1,4-Dichlorobenzene.....	ND	1.0
1,3-Dichlorobenzene.....	ND	1.0
1,2-Dichlorobenzene.....	ND	1.0

ND = None Detected

QA/QC SUMMARY

.....
 RPD % 2
 SPIKE RECOVERY % 100

LABORATORY NUMBER: 19439-3
 CLIENT: ANANIA GEOLOGIC ENGINEERING
 JOB #: 004-88-059
 SAMPLE ID: 3491

DATE RECEIVED: 01/29/90
 DATE ANALYZED: 02/02/90
 DATE REPORTED: 02/06/90
 PAGE 4 OF 4

EPA 602: Volatile Aromatic Hydrocarbons in Water

COMPOUND	RESULT ug/L	DETECTION LIMIT ug/L
Benzene.....	1,200	100
Toluene.....	510	100
Ethyl Benzene.....	ND	100
Total Xylenes.....	1,500	100
Chlorobenzene.....	ND	100
1,4-Dichlorobenzene.....	ND	100
1,3-Dichlorobenzene.....	ND	100
1,2-Dichlorobenzene.....	ND	100

ND = None Detected

QA/QC SUMMARY

RPD %	3
SPIKE RECOVERY %	99

PROJECT NO.		LAB REPORT NO.		NO. OF CON- TAINERS	ANALYSES							REMARKS		
P.O. NO.		SAMPLERS: (signature)			SAMPLE TYPE			8020						
LAB LOG NO.	DATE	TIME	SAMPLE I.D.		SOIL		WATER							
					COMP	GRAB								
	1/29/90	0837	3489	2			X	X					regular TAT	
	1/29/90	0837	3490	2			X	X					" "	
	1/29/90	0846	3491	2			X	X					" "	
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)		REMARKS: Send verbal results to Todd Galati (916) 631-015A					SEND RESULTS TO: AGE ATTN: Todd Galati 1130 Sunrise Park Dr. Suite C, Rancho Cordova, Ca 95742 PHONE NO. (916) 451-0921			
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)										
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)										

CHAIN OF CUSTODY

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2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

LABORATORY NUMBER: 19508
CLIENT: ANANIA GEOLOGIC ENGINEERING
JOB NUMBER: 004-88-059

DATE RECEIVED: 02/06/90
DATE ANALYZED: 02/07/90
DATE REPORTED: 02/15/90

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
19508-1	3493	910	940	3,700	ND	100
19508-2	3494	ND	ND	ND	ND	1.0
19508-3	3495	ND	ND	ND	ND	1.0

ND = Not Detected.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

%RPD	10
%RECOVERY	90

M. E. Printz

 QA/QC OFFICER

[Signature]

 LABORATORY DIRECTOR

Berkeley

Wilmington

Los Angeles

PROJECT NO.		LAB REPORT NO.		NO. OF CON- TAINERS	ANALYSES							REMARKS		
P.O. NO.		SAMPLERS: (signature)			SAMPLE TYPE			802261EX						
LAB LOG NO.	DATE	TIME	SAMPLE I.D.		SOIL		WATER							
					COMP	GRAB								
	216190	1110	3493	2			X	X						
	216190	1100	3494	2			X	X						
	216190	1100	3495	2			X	X						
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)		REMARKS: Regular TAT				SEND RESULTS TO:				
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)						ATTN:				
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)						PHONE NO. (916) 451-0921				

CHAIN OF CUSTODY

White - AGE Yellow - LAB Copy Pink - File

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

February 21, 1990

ChromaLab File No.: 0290070

ANANIA GEOLOGIC ENGINEERING

Attn: Jim Wallace

RE: Three rush water samples for BTEX and PCB's analyses

Project Number: 004-88-059

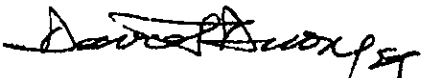
Duration of Analysis: February 19-21, 1990


RESULTS:

Sample No.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	PCB's (µg/L)
12204*	940	300	2.4	4000	N.D.
12205	N.D.	N.D.	N.D.	N.D.	N.D.
12206	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY	98.4%	96.1%	97.8%	97.4%	97.6%
DET. LIMIT	1.0	1.0	1.0	1.0	10
METHOD OF ANALYSIS	602	602	602	602	608

*Gasoline and Diesel detected in sample.

CHROMALAB, INC.


 David Duong
 Senior Chemist


 Eric Tam
 Laboratory Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

February 21, 1990

RECEIVED FEB 27 1990

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

ChromaLab File # 0290070 A


Client: Anania Geologic Eng.
Date Submitted: Feb. 16, 1990
Date of Analysis: Feb. 21, 1990

Attn: Jim Wallace

Project Name: 004-88-059
Sample I.D.: 12204
Method of Analysis: EPA 8240 Detection Limit: 10 µg/l

COMPOUND NAME	µg/l	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	101.2%
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	---
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	44	112.4%
CHLOROFORM	45	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
BENZENE	940	105.9%
1,2-DICHLOROETHANE	110	---
TRICHLOROETHENE	N.D.	---
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYL VINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
TOLUENE	300	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	97.8%
TETRACHLOROETHENE	N.D.	---
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	---
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	4000	100.7%

ChromaLab, Inc.


David Duong
Senior Chemist


Eric Tam
Lab Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

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February 21, 1990

ChromaLab File # 0290070 B

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

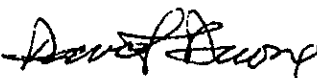
Client: Anania Geologic Eng.
Date Submitted: Feb. 16, 1990
Date of Analysis: Feb. 21, 1990

Attn: Jim Wallace

Project Name: 004-88-059
Sample I.D.: 12205
Method of Analysis: EPA 8240 Detection Limit: 2 ug/l

COMPOUND NAME	ug/l	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	101.2%
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	---
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	112.4%
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
BENZENE	N.D.	105.9%
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	---
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYL VINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
TOLUENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	97.8%
TETRACHLOROETHENE	N.D.	---
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	---
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	N.D.	100.7%

ChromaLab, Inc.


David Duong
Senior Chemist


Eric Tam
Lab Director

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- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

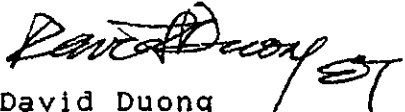
February 21, 1990

ChromaLab File # 0290070 C

Client: Anania Geologic Eng.Attn: Jim WallaceDate Submitted: Feb. 16, 1990Date of Analysis: Feb. 21, 1990Project Name: 004-88-059Sample I.D.: 12206Method of Analysis: EPA 8240 Detection Limit: 2 µg/l

COMPOUND NAME	µg/l	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	101.2%
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	---
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	112.4%
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
BENZENE	N.D.	105.9%
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	---
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYL VINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
TOLUENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	97.8%
TETRACHLOROETHENE	N.D.	---
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	---
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	N.D.	100.7%

ChromaLab, Inc.


 David Duong
 Senior Chemist


 Eric Tam
 Lab Director

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- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

February 21, 1990

ChromaLab File # 0290070 A

Client: Anania Geologic Eng.Attn: Jim WallaceDate Submitted: 2/16/90Date of Analysis: 2/21/90Project Number: 004-88-059Sample I.D.: 12204Method of Analysis: EPA 625/8270Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/L	Spike Recovery
PHENOL	N.D.	0.01	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.01	96.0%
2-CHLOROPHENOL	N.D.	0.01	-----
1,3-DICHLOROBENZENE	N.D.	0.01	-----
1,4-DICHLOROBENZENE	N.D.	0.01	-----
BENZYL ALCOHOL	N.D.	0.02	-----
1,2-DICHLOROBENZENE	N.D.	0.01	-----
2-METHYLPHENOL	0.02	0.01	96.2%
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.01	-----
4-METHYLPHENOL	0.01	0.01	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.01	-----
HEXACHLOROETHANE	N.D.	0.01	-----
NITROBENZENE	N.D.	0.01	-----
ISOPHORONE	N.D.	0.01	-----
2-NITROPHENOL	N.D.	0.01	-----
2,4-DIMETHYLPHENOL	0.08	0.01	93.7%
BENZOIC ACID	N.D.	0.05	-----
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.01	92.4%
2,4-DICHLOROPHENOL	N.D.	0.01	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.01	-----
NAPHTHALENE	0.16	0.01	-----
4-CHLOROANILINE	N.D.	0.02	-----
HEXACHLOROBUTADIENE	N.D.	0.01	-----
4-CHLORO-3-METHYLPHENOL	N.D.	0.02	-----
2-METHYLNAPHTHALENE	0.28	0.01	107.9%
HEXACHLOROCYCLOPENTADIENE	N.D.	0.01	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.01	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.01	-----
2-CHLORONAPHTHALENE	N.D.	0.01	-----
2-NITROANILINE	N.D.	0.05	-----
DIMETHYL PHTHALATE	N.D.	0.01	-----
ACENAPHTHYLENE	N.D.	0.01	-----
3-NITROANILINE	N.D.	0.05	-----
ACENAPHTHENE	N.D.	0.01	101.7%
2,4-DINITROPHENOL	N.D.	0.05	-----
4-NITROPHENOL	N.D.	0.05	-----
DIBENZOFURAN	N.D.	0.01	-----

(continued on next page)

CHROMALAB, INC.Analytical Laboratory
Specializing in GC-GC/MS

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- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

Page 2

ChromaLab File # 0290070 A

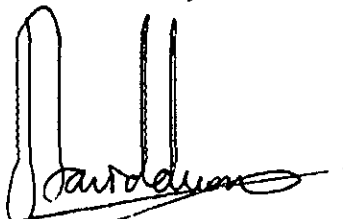
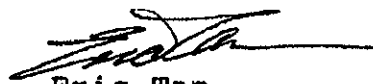
Project Number: 004-88-059

Sample I.D.: 12204

Method of Analysis: EPA 625/8270 Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.01	-----
2,6-DINITROTOLUENE	N.D.	0.01	104.8%
DIETHYL PHTHALATE	N.D.	0.01	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.01	-----
FLUORENE	N.D.	0.01	-----
4-NITROANILINE	N.D.	0.05	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.05	-----
N-NITROSODIPHENYLAMINE	N.D.	0.01	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.01	-----
HEXACHLOROBENZENE	N.D.	0.01	-----
PENTACHLOROPHENOL	N.D.	0.05	111.6%
PHENANTHRENE	0.05	0.01	-----
ANTHRACENE	N.D.	0.01	-----
DI-N-BUTYL PHTHALATE	0.12	0.01	-----
FLUORANTHENE	N.D.	0.01	-----
PYRENE	N.D.	0.01	-----
BUTYLBENZYLPHTHALATE	N.D.	0.01	-----
3,3'-DICHLOROBENZIDINE	N.D.	0.02	-----
BENZO(A)ANTHRACENE	N.D.	0.01	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.01	-----
CHRYSENE	N.D.	0.01	100.5%
DI-N-OCTYLPHTHALATE	N.D.	0.01	-----
BENZO(B)FLUORANTHENE	N.D.	0.01	-----
BENZO(K)FLUORANTHENE	N.D.	0.01	-----
BENZO(A)PYRENE	N.D.	0.01	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.01	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.01	-----
BENZO(G,H,I)PERYLENE	N.D.	0.01	89.5%

ChromaLab, Inc.


David Duong
Senior Chemist

Eric Tam
Lab Director

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Analytical Laboratory
Specializing in GC-GC/MS

February 21, 1990

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- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

ChromaLab File # 0290070 B

Client: Anania Geologic Eng.
Date Submitted: 2/16/90
Date of Analysis: 2/21/90

Attn: Jim Wallace

Project Number: 004-88-059

Sample I.D.: 12205

Method of Analysis: EPA 625/8270

Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/L	Spike Recovery
PHENOL	N.D.	0.01	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.01	96.0%
2-CHLOROPHENOL	N.D.	0.01	-----
1,3-DICHLOROBENZENE	N.D.	0.01	-----
1,4-DICHLOROBENZENE	N.D.	0.01	-----
BENZYL ALCOHOL	N.D.	0.02	-----
1,2-DICHLOROBENZENE	N.D.	0.01	-----
2-METHYLPHENOL	N.D.	0.01	96.2%
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.01	-----
4-METHYLPHENOL	N.D.	0.01	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.01	-----
HEXACHLOROETHANE	N.D.	0.01	-----
NITROBENZENE	N.D.	0.01	-----
ISOPHORONE	N.D.	0.01	-----
2-NITROPHENOL	N.D.	0.01	-----
2,4-DIMETHYLPHENOL	N.D.	0.01	93.7%
BENZOIC ACID	N.D.	0.05	-----
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.01	92.4%
2,4-DICHLOROPHENOL	N.D.	0.01	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.01	-----
NAPHTHALENE	N.D.	0.01	-----
4-CHLOROANILINE	N.D.	0.02	-----
HEXACHLOROBTADIENE	N.D.	0.01	-----
4-CHLORO-3-METHYLPHENOL	N.D.	0.02	-----
2-METHYLNAPHTHALENE	N.D.	0.01	107.9%
HEXACHLOROCYCLOPENTADIENE	N.D.	0.01	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.01	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.01	-----
2-CHLORONAPHTHALENE	N.D.	0.01	-----
2-NITROANILINE	N.D.	0.05	-----
DIMETHYL PHTHALATE	N.D.	0.01	-----
ACENAPHTHYLENE	N.D.	0.01	-----
3-NITROANILINE	N.D.	0.05	-----
ACENAPHTHENE	N.D.	0.01	101.7%
2,4-DINITROPHENOL	N.D.	0.05	-----
4-NITROPHENOL	N.D.	0.05	-----
DIBENZOFURAN	N.D.	0.01	-----

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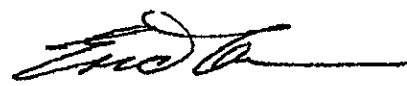
Page 2

ChromaLab File # 0290070 B

Project Number: 004-88-059Sample I.D.: 12205Method of Analysis: EPA 625/8270 Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.01	-----
2,6-DINITROTOLUENE	N.D.	0.01	104.8%
DIETHYL PHTHALATE	N.D.	0.01	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.01	-----
FLUORENE	N.D.	0.01	-----
4-NITROANILINE	N.D.	0.05	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.05	-----
N-NITROSODIPHENYLAMINE	N.D.	0.01	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.01	-----
HEXACHLOROBENZENE	N.D.	0.01	-----
PENTACHLOROPHENOL	N.D.	0.05	111.6%
PHENANTHRENE	N.D.	0.01	-----
ANTHRACENE	N.D.	0.01	-----
DI-N-BUTYL PHTHALATE	0.17	0.01	-----
FLUORANTHENE	N.D.	0.01	-----
PYRENE	N.D.	0.01	-----
BUTYLBENZYLPHTHALATE	0.02	0.01	-----
3,3'-DICHLOROBENZIDINE	N.D.	0.02	-----
BENZO(A)ANTHRACENE	N.D.	0.01	-----
BIS(2-ETHYLHEXYL)PHTHALATE	0.02	0.01	-----
CHRYSENE	N.D.	0.01	100.5%
DI-N-OCTYLPHTHALATE	N.D.	0.01	-----
BENZO(B)FLUORANTHENE	N.D.	0.01	-----
BENZO(K)FLUORANTHENE	N.D.	0.01	-----
BENZO(A)PYRENE	N.D.	0.01	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.01	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.01	-----
BENZO(G,H,I)PERYLENE	N.D.	0.01	89.5%

ChromaLab, Inc.


David Duong
Senior Chemist

Eric Tam
Lab Director

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- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

ChromaLab File # 0290070 C

Client: Anania Geologic Eng.
Date Submitted: 2/16/90
Date of Analysis: 2/21/90

Attn: Jim Wallace

Project Number: 004-88-059

Sample I.D.: 12206

Method of Analysis: EPA 625/8270

Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/L	Spike Recovery
PHENOL	N.D.	0.01	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.01	96.0%
2-CHLOROPHENOL	N.D.	0.01	-----
1,3-DICHLOROBENZENE	N.D.	0.01	-----
1,4-DICHLOROBENZENE	N.D.	0.01	-----
BENZYL ALCOHOL	N.D.	0.02	-----
1,2-DICHLOROBENZENE	N.D.	0.01	-----
2-METHYLPHENOL	N.D.	0.01	96.2%
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.01	-----
4-METHYLPHENOL	N.D.	0.01	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.01	-----
HEXACHLOROETHANE	N.D.	0.01	-----
NITROBENZENE	N.D.	0.01	-----
ISOPHORONE	N.D.	0.01	-----
2-NITROPHENOL	N.D.	0.01	-----
2,4-DIMETHYLPHENOL	N.D.	0.01	93.7%
BENZOIC ACID	N.D.	0.05	-----
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.01	92.4%
2,4-DICHLOROPHENOL	N.D.	0.01	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.01	-----
NAPHTHALENE	N.D.	0.01	-----
4-CHLOROANILINE	N.D.	0.02	-----
HEXACHLOROBUTADIENE	N.D.	0.01	-----
4-CHLORO-3-METHYLPHENOL	N.D.	0.02	-----
2-METHYLNAPHTHALENE	N.D.	0.01	107.9%
HEXACHLOROCYCLOPENTADIENE	N.D.	0.01	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.01	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.01	-----
2-CHLORONAPHTHALENE	N.D.	0.01	-----
2-NITROANILINE	N.D.	0.05	-----
DIMETHYL PHTHALATE	N.D.	0.01	-----
ACENAPHTHYLENE	N.D.	0.01	-----
3-NITROANILINE	N.D.	0.05	-----
ACENAPHTHENE	N.D.	0.01	101.7%
2,4-DINITROPHENOL	N.D.	0.05	-----
4-NITROPHENOL	N.D.	0.05	-----
DIBENZOFURAN	N.D.	0.01	-----

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- Environmental Analysis
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- Waste Water
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ChromaLab File # 0290070 C

Project Number: 004-88-059

Sample I.D.: 12206

Method of Analysis: EPA 625/8270

Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.01	-----
2,6-DINITROTOLUENE	N.D.	0.01	-----
DIETHYL PHTHALATE	N.D.	0.01	104.8%
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.01	-----
FLUORENE	N.D.	0.01	-----
4-NITROANILINE	N.D.	0.01	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.05	-----
N-NITROSODIPHENYLAMINE	N.D.	0.05	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.01	-----
HEXACHLOROBENZENE	N.D.	0.01	-----
PENTACHLOROPHENOL	N.D.	0.01	-----
PHENANTHRENE	N.D.	0.05	111.6%
ANTHRACENE	N.D.	0.01	-----
DI-N-BUTYL PHTHALATE	N.D.	0.01	-----
FLUORANTHENE	0.06	0.01	-----
PYRENE	N.D.	0.01	-----
BUTYLBENZYLPHthalate	N.D.	0.01	-----
3,3'-DICHLOROBENZIDINE	0.02	0.01	-----
BENZO(A)ANTHRACENE	N.D.	0.02	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.01	-----
CHRYSENE	N.D.	0.01	-----
DI-N-OCTYLPHthalate	N.D.	0.01	100.5%
BENZO(B)FLUORANTHENE	N.D.	0.01	-----
BENZO(K)FLUORANTHENE	N.D.	0.01	-----
BENZO(A)PYRENE	N.D.	0.01	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.01	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.01	-----
BENZO(G,H,I)PERYLENE	N.D.	0.01	89.5%

ChromaLab, Inc.


David Duong
Senior Chemist


Eric Tam
Lab Director

PROJECT NO. 004-88-059		LAB REPORT NO.		NO. OF CON- TAINERS	ANALYSES							REMARKS		
P.O. NO.		SAMPLERS: (signature) Robyn McKinney			SAMPLE TYPE			8020 BTX	8080 PCB'S	8240	8270			
LAB LOG NO.	DATE	TIME	SAMPLE I.D.		SOIL		WATER							
					COMP	GRAB								
	2/16/90	1320	12204	3			X	X	X	X				
	2/16/90	1325	12205	3			X	X	X	X				
	2/16/90	1330	12206	3			X	X	X	X				
RELINQUISHED BY: (signature) Robyn McKinney		DATE/TIME 2/16/90 1922		RECEIVED BY: (signature) [Signature]		REMARKS: 48 hour TAT handle sample 12204 carefully; it may contain PCB'S					SEND RESULTS TO: ATTN: Jim Wallace Rancho Cordoba PHONE NO. (916) 451-0921			
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)										
RELINQUISHED BY: (signature)		DATE/TIME		RECEIVED BY: (signature)										

CHAIN OF CUSTODY

White- AGE

Yellow- LAB Copy

Pink- File