September 14, 1989

Ms. Katherine Chesick
Alameda County Health Department
Hazardous Materials Division
80 Swan, Room 200
Oakland, CA 94621

Re: Request for Abandonment Permit for Two Boiler Fuel Tanks Carnation Dairy Facility, 1310 14th Street, Oakland, CA 94607

AGE Project No. 004-88-059

Dear Ms. Chesick:

Anania Geologic Engineering (AGE), acting as the environmental agent for the Carnation Company, is requesting Alameda County to issue an abandonment permit for two boiler fuel tanks, located within the Carnation Dairy Facility, located at 1310 14th Street in Oakland. A site plan of the facility showing the location of the two boiler fuel tanks to be abandoned is shown on Plate 1.

We have recently received approval from the City of Oakland Fire Prevention Bureau to abandon the two boiler fuel tanks in-place. A copy of the letter with the signature of the Fire Marshall, Mr. Jerry Blueford, authorizing in-place abandonment of the tanks as well as the completed Underground Tank Closure Plan Form and Addendum to the Site Safety Plan are enclosed in Attachment A.

Four monitoring wells were installed around the boiler fuel tanks to evaluate if the soil and/or groundwater was contaminated due to the presence of these tanks. These wells will be abandoned and AGE will be requesting authorization to abandon these wells in a separate workplan.

Certified laboratory test results and Chain of Custody forms for your review and approval are enclosed in Attachment B. Test results indicate that TPH for both gasoline and diesel standards and oil and grease concentrations were below detection limits for both the soil and groundwater samples tested. Results from the priority pollutant analyses (8240 and 8270) indicate few constituents present. Acetone was detected in one sample and reported as 240 µg/kg. However, the method blank also indicated acetone at levels of 30 µg/kg. We suspect acetone presence could be a laboratory contaminant. Additionally, total lead was detected in MW-19 at a depth of 10 feet at a levels of 670 mg/kg. During drilling operations of this well, mechanical difficulties were encountered at a depth of 10 feet. Specifically, the flight auger was sheared and was unable to be immediately retrieved from the boring. It was necessary to leave the boring open for several days until

specialized equipment could be mobilized. It is our opinion this elevated lead concentration is due to materials which washed into the boring from the surface. Samples tested from above and below this sample reported very low concentrations of lead. It also should be noted Sample No. 33253 MW-23 was a water sample obtained from MW-17 during drilling operations, prior to well development, and was collected for preliminary information only.

After receiving approval of the tank closure plan, AGE will notify your office and the City of Oakland Fire Prevention Bureau 48 hours in advance of beginning abandonment procedures.

We trust this provides you with the information needed to issue an abandonment permit for the two boiler fuel tanks. Should you require any additional information, or have any questions regarding the information presented, please contact the undersigned at (916) 631-0154.

Sincerely,

Martha A. McDonnell, PE
Registered Civil Engineer No. 42560

MAD/SG

Attachments

cc: Mr. Howard Shmuckler, Carnation Company
Mr. Jim Person, Carnation Company
Mr. Lester Feldman, Regional Water Quality Control Board

Attachment A

AGE
11330 SUNRISE PARK DR., SUITE C • RANCHO CORDOVA, CA 95742
P.O. BOX 161148 • SACRAMENTO, CA 95816 • PHONE (916) 631-0154 FAX (916) 631-0528

July 12, 1989

Mr. Jerry Blueford
City of Oakland Fire Prevention Bureau
1 City Hall Plaza
Oakland, California 94612

RE: CONFIRMATION OF APPROVAL TO ABANDON THE TWO BOILER FUEL TANKS IN PLACE AT THE CARNATION DAIRY FACILITY LOCATED AT 1310 14TH STREET IN OAKLAND, CALIFORNIA

AGE Project No. 004-88-059

Dear Mr. Blueford:

On June 5, 1989, I sent a letter with attachments to Ms. Christine Myers requesting to abandon in place the two boiler fuel tanks as referenced above. As per our phone conversation today, you stated that you have reviewed my request and approved the abandonment in place of the two boiler fuel tanks.

As per your instructions, I havo prepared this letter that, with your signature, will serve as written confirmation that you have reviewed our request and documentation submitted on June 5, 1989 and approve of the abandonment in place of the two boiler fuel tanks. Upon receipt of your original signed copy of this letter, AGE will see that all required permits are completed and proper notification is made prior to the start of abandoning the two boiler fuel tanks in place.

Sincerely,

Thomas E. Edwards
General Partner

Date: 7-14-89

Jerry G. Blueford

Jerry Blueford
Fire Marshall

cc: Mr. Howard Shmuckler
Mr. Jim Person

Attachment B

AGE
11330 SUNRISE PARK DR., SUITE C • RANCHO CORDOVA, CA 95742
P.O. BOX 161148 • SACRAMENTO, CA 95816 • PHONE (916) 631-0154 FAX (916) 631-0528

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

RECEIVED MAY 22 1989

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 05/12/89
Reported: 05/16/89
Job No #: 70832

Attn: Mary Scruggs
Anania Geological Engineering
11330 Sunrise Park Drive, Suite C
Rancho Cordova, CA. 95742

Project: #004-88-059

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
Total Hydrocarbons Analysis: By Standard Method 503E
Polychlorinated BiPhenyls Analysis: By EPA 8080
mg/kg

Lab ID	Client ID	Gasoline	TPH as Diesel	Oil & Grease	PCB's	Total Hydro -carbons
70832-1	#4105 MW-17- 5'	ND<10	ND<10	<50	ND<0.5	10
70832-2	#4107 MW-17-10'	ND<10	ND<10	<50	ND<0.5	30
70832-3	#4109 MW-17-15'	ND<10	ND<10	<50	ND<0.5	40
70832-4	#4111 MW-17-20'	ND<10	ND<10	<50	ND<0.5	10
70832-5	#4113 MW-18- 5'	ND<10	ND<10	<50	ND<0.5	25
70832-6	#4115 MW-18-10'	ND<10	ND<10	<50	ND<0.5	25
70832-7	#4117 MW-18-15'	ND<10	ND<10	<50	ND<0.5	25
70832-8	#4119 MW-18-20'	ND<10	ND<10	<50	ND<0.5	10
70832-9	#4121 MW-19- 5'	ND<10	ND<10	<50	ND<0.5	30
70832-10	#3189 MW-18	ND<0.5	ND<0.5	<50	ND<0.5	1.0

QA/QC: Spike Recovery for Diesel: 114%
Spike Recovery for PCB's: 90%
Spike Recovery for Oil & Grease: 101%
Spike Recovery for Gasoline: 100%

Detection Limit for Diesel: 10
Detection Limit for Oil & Grease: 50
Detection Limit for Gasoline: 10
Detection Limit for PCB: 0.5

Jaime Chow
Laboratory Director

RECEIVED MAY 2 2 1989

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

cc Mary

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 05/12/89
Reported: 05/16/89
Job #: 70832

Attn: Mary Scruggs
Anania Geological Engineering
11330 Sunrise Park Drive, Suite C
Rancho Cordova, CA. 95742

Project: #00488-059

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID	Client ID	Total Lead	MDL	% SPIKE RECOVERY
70832-1	#4105 MW-17- 5'	ND<1.1	1.1	70
70832-2	#4107 MW-17-10'	ND<1.1	1.1	70
70832-3	#4109 MW-17-15'	1.5	1.1	70
70832-4	#4111 MW-17-20'	ND<1.1	1.1	70
70832-5	#4113 MW-18- 5'	1.6	1.1	70
70832-6	#4115 MW-18-10'	ND<1.1	1.1	70
70832-7	#4117 MW-18-15'	ND<1.1	1.1	70
70832-8	#4119 MW-18-20'	ND<1.1	1.1	70
70832-9	#4121 MW-19- 5'	ND<1.1	1.1	70

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID	Client ID	Total Lead	MDL	% SPIKE RECOVERY
70832-10	#3189 MW-18	0.13	0.044	74

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

RECEIVED MAY 2 2 1989

Clayton Environmental Consultants, Inc.

P.O. Box 9019 • 1252 Quarry Lane • Pleasanton, CA 94566 • (415) 426-2600

cc Mary

May 18, 1989

Ms. Mary Scruggs
ANANIA GEOLOGIC ENGINEERING
11330 Sunrise Drive
Rancho Cordova, CA 95742

Client Ref. No.: 8240/8270 SAMPLES
Lab Batch No.: 8905156
Clayton Project No.: 23724.00
Client Code No: 0636

Dear Ms. Scruggs:

Attached is our analytical laboratory report for the samples received on May 12, 1989. Results were sent to you by facsimile on May 16, 1989. A copy of the Chain of Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be retained at our facility for approximately 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,

Ronald H. Peters

Ronald H. Peters, CIH
Manager, Laboratory Services

RHP/tb
Attachment

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: MW-17 4105
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	5	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-17 4107
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-17 4109
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

RECEIVED MAY 2 2 1989

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: MW-17 4111
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-18 4113
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-05A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	6	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-18 4115
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-06A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-18 4117
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-07A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	10	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-18 4119
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-08A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	6	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: MW-19 4121
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-09A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	240	20
2-Butanone	78-93-3	80	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

RECEIVED MAY 2 2 1989

Sample I.D.: Method Blank
Sample Received: 05/12/89
Sample Analyzed: 05/15/89
Sample Matrix: SOIL_WATER

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-13A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	30	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

RECEIVED MAY 2 2 1989

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: MW-18 3189
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: WATER

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-10A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

RECEIVED MAY 2 2 1989

Sample I.D.: Method Blank
Sample Received: 05/12/89
Sample Analyzed: 05/12/89
Sample Matrix: WATER_SOIL

Client: ANANIA GEOLOGIC ENGINEERING
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636
Lab No.: 8905156-14A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	8	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	40	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-17 4105

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89

Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL

Lab No.: 8905156-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-17 4105 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-17 4107

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89

Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL

Lab No.: 8905156-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-17 4107 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-17 4109
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-17 4109 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-17 4111
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89
Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-17 4111 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-18 4113
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89
Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-05A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-18 4113 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-18 4115

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89

Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL

Lab No.: 8905156-06A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-18 4115 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-18 4117
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89
Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-07A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-18 4117 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-18 4119
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-08A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-18 4119 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-19 4121

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89

Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL

Lab No.: 8905156-09A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-19 4121 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: Method Blank
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/15/89
Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: SOIL
Lab No.: 8905156-11A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: Method Blank Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: MW-18 3189
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89
Client Ref. No.: 8240/8270 SAMPLES
Lab Client Code: 0636

Sample Matrix: WATER
Lab No.: 8905156-10C

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
ACID COMPOUNDS			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	5
Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	ND	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	ND	1

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: MW-18 3189 Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	1
Dimethyl phthalate	131-11-3	ND	10
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	ND	1
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	ND	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	ND	1
Anthracene	120-12-7	ND	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	ND	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	ND	1
Benzylbutylphthalate	85-68-7	17	1
3,3'-dichlorobenzidine	91-94-1	ND	40
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	1
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: Method Blank
Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 05/12/89
Sample Extracted: 05/13/89
Sample Analyzed: 05/16/89
Client Ref. No.: 8240/8270 SAMPLES

Lab Client Code: 0636

Sample Matrix: WATER
Lab No.: 8905156-12A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
ACID COMPOUNDS			
Phenol	108-95-2	ND	1
2-chlorophenol	95-57-8	ND	1
2-methyl phenol	95-48-7	ND	1
4-methyl phenol	106-44-5	ND	1
2-nitrophenol	88-75-5	ND	1
2,4-dimethylphenol	105-67-9	ND	1
2,4-dichlorophenol	120-83-2	ND	1
4-chloro-3-methylphenol	59-50-7	ND	1
2,4,5-trichlorophenol	95-95-4	ND	1
2,4,6-trichlorophenol	88-06-2	ND	1
2,4-dinitrophenol	51-28-5	ND	5
4-nitrophenol	100-02-7	ND	5
2-methyl-4,6-dinitrophenol	534-52-1	ND	1
Pentachlorophenol	87-86-5	ND	1
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	5
Bis(2-chloroethyl)ether	111-44-4	ND	1
1,3-dichlorobenzene	541-73-7	ND	1
1,4-dichlorobenzene	106-46-7	ND	1
1,2-dichlorobenzene	95-50-1	ND	1
Bis-(2-chloroisopropyl)ether	108-60-1	ND	1
N-nitrosodi-n-propylamine	621-64-7	ND	1
Hexachloroethane	67-72-1	ND	1
Nitrobenzene	98-95-3	ND	1
Isophorone	78-59-1	ND	1
Bis-(2-chloroethoxy)methane	111-91-1	ND	1
1,2,4-trichlorobenzene	120-82-1	ND	1
Naphthalene	91-20-3	ND	1
Hexachlorobutadiene	87-68-3	ND	1
2-chloronaphthalene	91-58-7	ND	1
2-methyl naphthalene	91-57-6	ND	1

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: Method Blank

Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	5
2-nitroaniline	88-74-4	ND	5
3-nitroaniline	99-09-2	ND	5
4-nitroaniline	100-01-6	ND	5
Hexachlorocyclopentadiene	77-47-4	ND	1
Dimethyl phthalate	131-11-3	ND	10
Acenaphthylene	208-96-8	ND	1
Acenaphthene	83-32-9	ND	1
2,4-dinitrotoluene	121-14-2	ND	1
2,6-dinitrotoluene	606-20-2	ND	1
Diethyl phthalate	84-66-2	ND	1
4-chlorophenylphenylether	7005-72-3	ND	1
Fluorene	86-73-7	ND	1
N-nitrosodiphenylamine	86-30-6	ND	1
4-bromophenylphenylether	101-55-3	ND	1
Hexachlorobenzene	118-74-1	ND	1
Phenanthrene	85-01-8	ND	1
Anthracene	120-12-7	ND	1
Di-n-butylphthalate	84-74-2	ND	1
Fluoranthene	206-44-2	ND	1
Benzidine	92-87-5	ND	30
Pyrene	129-00-0	ND	1
Benzylbutylphthalate	85-68-7	ND	1
3,3'-dichlorobenzidine	91-94-1	ND	40
Benzo(a)anthracene	56-55-3	ND	1
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	10
Chrysene	218-01-9	ND	2
Di-n-octylphthalate	117-84-0	ND	1
Benzo(b)fluoranthene	205-99-2	ND	2
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Benzo(ghi)perylene	191-24-2	ND	1

ND = Not detected at or above limit of detection

ANANIA GEOLOGIC ENGINEERING

AGE

PROJECT NO.	LAB REPORT NO.
004-88-059	

P.O. NO.	SAMPLERS: (signature)
	E. J. Ananía

LAB LOG NO.	DATE	TIME	SAMPLE I.D.	NO. OF CONTAINERS	SAMPLE TYPE: SOIL COMP	SOIL GRAB	WATER	8240	8270	8080	M8015	TTLC Lead	0.1 g grab		REMARKS
	5/11/89		MW-17 5' 4105	2		X		X	X	X	X	X	X		
			MW-17 10' 4107	2		X		X	X	X	X	X	X		
			MW-17 15' 4109	2		X		X	X	X	X	X	X		
			MW-17 20' 4111	2		X		X	X	X	X	X	X		
			MW-18 5' 4113	2		X		X	X	X	X	X	X		
			MW-18 10' 4115	2		X		X	X	X	X	X	X		
			MW-18 15' 4117	2		X		X	X	X	X	X	X		
			MW-18 20' 4119	2		X		X	X	X	X	X	X		
	V		MW-19 5' 4121	2		X		X	X	X	X	X	X		
	5/10/89		MW-18 3189	8			X	X	X	X	X	X	X		

RELINQUISHED BY: (signature)	DATE/TIME	RECEIVED BY: (signature)
E. J. Ananía 12:40 5/12/89	5/12/89 8:00	Donna Calinguin
RELINQUISHED BY: (signature)	DATE/TIME	RECEIVED BY: (signature)
RELINQUISHED BY: (signature)	DATE/TIME	RECEIVED BY: (signature)

REMARKS: Rush verbals by Tuesday 8:00 am
distinguish on Oil & Grease between animal/veg. fat & hydrocarbons

SEND RESULTS TO:
ATTN: Mary Scruggs
Anania Geologic Engineering
11330 Sunrise Park Dr. #C
Rancho Cordova, CA
PHONE NO. (916) ~~451-0821~~

CHAIN OF CUSTODY send org analysis not certified for!

631-0154

White- AGE Yellow – LAB Copy Pink- File

8905156

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Marry Scruggs

PROJECT NAME AND ADDRESS:
Anania Geologic Engineering
11330 Sunrise Park Dr #C
Rancho Cordova, Ca - (916) 631-0154

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS; BTX; VOC-EPA 8240; TOTAL OIL & GREASE; 8240; 8270

Rush verbals by Tuesday.

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	8240	8270	REMARKS
01A	5/11/89		X		MW-17 4105✓ 5'					✓	✓	1xBC
02	|		X		MW-17 4107✓ 10'					|	|	|
03	|		X		MW-17 4109✓ 15'					|	|	|
04	|		X		MW-17 4111✓ 20'					|	|	|
05	|		X		MW-18 4113✓ 5'					|	|	|
06	|		X		MW-18 4115✓ 10'					|	|	|
07	|		X		MW-18 4117✓ 15'					|	|	|
08	|		X		MW-18 4119✓ 20'					|	|	|
09	↓		X		MW-19 4121✓ 5'					|	|	↓
10A,B,C	5/12/89			*	MW-18 3189					↓	↓	2x40ml, 1x1L (CC4)

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
88dhu	DATE 5/12/89 TIME 1:0		DATE TIME
	DATE TIME		DATE TIME
	DATE TIME		DATE TIME
	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature) Tracy [illegible]	DATE 5/12/89 TIME 2:45pm