ENGINEERING TECTONICS, P.A.
ENGINEERS • GEOLOGISTS • HYDROLOGISTS
P.O. Box I, Winston-Salem, NC 27108 (910) 724-6994

November 27, 1995

North Carolina Department of Environment, Health and Natural Resources
Solid Waste Division
Post Office Box 27687
Raleigh, North Carolina 27611-7687

Subject: Groundwater Sampling Report
Avery County Landfill
Newland, North Carolina
Project No. 90-247.01

Dear Sir/Madam:

At the request of our client, Mr. Randall Fletcher, enclosed is a copy of the Groundwater Sampling Report from the Avery County Landfill site in Newland, North Carolina. A copy of the analytical results for this sampling event is attached.

If you have any questions regarding this report please contact us at (910) 724-6994 or (800) 384-8807.

Sincerely,

ENGINEERING TECTONICS, P.A.

J. Thomas Dade, Jr
Staff Geologist

Enclosures

DEC 1995
Received
Solid Waste
Section

Groundwater Sampling Report
Avery County Landfill
Newland, North Carolina
Project No.: 90-247.01

Prepared by:

ENGINEERING TECTONICS, P.A.
Winston-Salem, North Carolina

November 27, 1995

Groundwater Monitoring Well Sampling

On October 30, 1995 Engineering Tectonics personnel mobilized to the Avery County Landfill in Newland, North Carolina to sample three monitoring wells (MW-1, MW-2, and MW-3). Depth to water was measured in each monitoring well, and each well was developed prior to sampling with a new disposable Teflon bailer. A minimum of three well volumes of water was purged from each well, and water samples were collected according to EPA groundwater sampling protocols.

These samples were packed on ice, and sent to an analytical laboratory, using EPA approved chain of custody procedures. The samples were submitted for analysis using EPA Method 8270, EPA Method 8240, BOD, COD, specific conductance, chloride, fluoride, nitrate, pH, TDS, TOC, TOX, sulfate arsenic. barium, cadmium, chromium, copper, iron, lead, mercury, selenium, magnesium, silver, and zinc.

? why this test?

Due to the fact that Hydrologic, Inc. exceeded the EPA Method 8270 holding time outlined by EPA's sampling protocols, MW-1, MW-2, and MW-3 were resampled on November 17, 1995 to be analyzed for the 8270 constiuents only.

Water levels

Static water levels were measured as 8.55, 5.55, and 5.29 feet for monitoring wells MW-1, MW-2, and MW-3 respectively.

Laboratory Results

Included in tables 1, 2, and 3 are the laboratory results of both sampling events for the above mentioned tests on the three groundwater monitoring wells at the Avery County Landfill in Newland, North Carolina. Copies of the laboratory results are included in Attachment A. Copies of the laboratory results for EPA Method 8270 are included as Attachment B.

Limitations

This report has been prepared for the exclusive use of Avery County for specific application to the subject site. The report was prepared in accordance with generally accepted standards of practice for environmental services. No other warranty, either expressed or implied, is made. This report is not to be reproduced, either in whole or in part, without consent from ENGINEERING TECTONICS, P.A.

Our on-site observations pertain only to specific locations, at specific times, on specific dates. Our observations and conclusions do not reflect variations in unverified and/or subsurface conditions that may exist at or between sampling and/or observation locations, or at times other than those represented by our observations.

In providing this report, ENGINEERING TECTONICS, P.A. does not assume any responsibilities of the party, or parties, deemed legally responsible for the subject site. It is not the responsibility of ENGINEERING TECTONICS, P.A. to report our findings to any other person or persons, including conditions that may present a potential danger to public health, safety, or the environment, as may be required by law.

Prepared by: J. Thomas Dade, Jr. Date: 12-12-95

J. Thomas Dade, Jr.
Staff Geologist

Reviewed by: Tony L. Gillispie Date: 12-12-95

Tony L. Gillispie
Environmental Manager

TABLES

Table 1

Analysis	MW-1	MW-2	MW-3
BOD (Method 507)	9.8	9.7	9.8
COD	32.0	32	96.0
Specific Conductivity	964 umhos	1121 umhos	1025 umhos
Chloride	24.0	20	12.0
Fluoride	<0.5	<0.5	<0.5
Nitrate	0.12	0.09	0.14
pH	5.31	5.364	5.792
TDS	105.0	100	90.0
TOC	9.3	6.7	9.0
TOX	<0.1	<0.1	<0.1
Sulfate	2.9	4.2	1.5
Arsenic	0.018	0.009	0.010
Barium	0.7	0.1	0.1
Cadmium	<0.005	<0.005	<0.005
Chromium	0.004	<0.001	<0.001
Copper	0.009	0.180	0.007
Iron	22	13	54.0
Lead	0.037	0.014	0.002
Mercury	<0.0002	<0.0002	<0.0002
Selenium	<0.010	0.003	0.008
Magnesium	4.3	2.6	3.9
Silver	<0.010	<0.010	<0.010
Zinc	0.056	0.036	0.027

Results are presented parts per million (ppm) unless specified

Table 2
EPA Method 8240

Compound	MW-1	MW-2	MW-3
Acrolein	BDL	BDL	BDL
Acrylonitrile	BDL	BDL	BDL
Benzene	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL
Bromoethane	BDL	BDL	BDL
Carbon tetrachloride	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL
Chlorodibromomethane	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL
2-Chlorothyl vinyl ether	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL
m-Dichlorobenzene	BDL	BDL	BDL
o-Dichlorobenzene	BDL	BDL	BDL
p-Dichlorobenzene	BDL	BDL	BDL
1,1-Dichloroethane	BDL	6.6	BDL
1,2-Dichloroethane	BDL	BDL	BDL
1,1-Dichloroethylene	BDL	BDL	BDL
Trans-1,2-Dichloroethyl	BDL	BDL	BDL
Dichloroemethane	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL
cis-1,3-Dichloropropene	BDL	BDL	BDL
Ethel Benzene	BDL	BDL	BDL
1,1,2,2-Tetrachloroetha	BDL	BDL	BDL
Tetrachloroethylene	BDL	BDL	BDL
Toluene	BDL	BDL	BDL
Tribromomethane	BDL	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL
Trichloroethylene	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL

All concentrations in ppb (parts per billion)
BDL=below detectable limit

Table 3
EPA Method 8270

Compound	MW-1	MW-2	MW-3
Acenaphthene	BDL	BDL	BDL
Acenaphthylene	BDL	BDL	BDL
Anthracene	BDL	BDL	BDL
Benzidine	BDL	BDL	BDL
Benzo(a)Anthracene	BDL	BDL	BDL
Benzo(b)Fluoranthene	BDL	BDL	BDL
Benzo(k)Fluoranthene	BDL	BDL	BDL
Benzo(g,h,i)Perylene	BDL	BDL	BDL
Benzo(a)Pyrene	BDL	BDL	BDL
Bis(2-Chloroethoxy)Metha	BDL	BDL	BDL
Bis(2-Chloroethyl)Ether	BDL	BDL	BDL
Bis(2-Chloroisopropyl)Ethe	BDL	BDL	BDL
Bis(2-Ethylhexyl)Phthalate	BDL	BDL	BDL
4-Bromophenyl Phenyl Eth	BDL	BDL	BDL
Butyl Benzyl Phthalate	BDL	BDL	BDL
p-Chloro-Cresol	BDL	BDL	BDL
2-Chloronaphthalene	BDL	BDL	BDL
2-Chlorophenol	BDL	BDL	BDL
4-Chlorophenol Phenyl Eth	BDL	BDL	BDL
Chrysene	BDL	BDL	BDL
Dibenz(a,h)Anthracene	BDL	BDL	BDL
Di-N-Butylphthalate	BDL	BDL	BDL
3,3-Dichlorobenzidine	BDL	BDL	BDL
2,4-Dichorophenol	BDL	BDL	BDL
Diethylphthalate	BDL	BDL	BDL
2,4-Dimethylphenol	BDL	BDL	BDL
Dimethylphthalate	BDL	BDL	BDL
4,6-Dinitro-2-Mehtylphenol	BDL	BDL	BDL
2,4-Dinitrophenol	BDL	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL	BDL
Di-N-Ootylphthalate	BDL	BDL	BDL
1,2-Diphenylhydrazine	BDL	BDL	BDL
Di-n-Propylnitrosamine	BDL	BDL	BDL
Fluoranthene	BDL	BDL	BDL
Fluorene	BDL	BDL	BDL
Hexachlorobutadiens	BDL	BDL	BDL
Hexachlorothane	BDL	BDL	BDL

Table 3 Continued

Compound	MW-1	MW-2	MW-3
Indeno(1,2,3-od)Pyrene	BDL	BDL	BDL
Isophorone	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL
Nitrobenzene	BDL	BDL	BDL
2-Nitrophenol	BDL	BDL	BDL
4-Nitrophenol	BDL	BDL	BDL
N-Nitrosodimethylamine	BDL	BDL	BDL
N-Nitrosodiphenylamine	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL
Phenanthrene	BDL	BDL	BDL
Phenol	BDL	BDL	BDL
Pyrene	BDL	BDL	BDL
1,2,3-Trichlorobenzene	BDL	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL	BDL

BDL=below detectable limit

Attachment A

Analytical Results

H Y D R O L O G I C , I N C .

November 10, 1995

REPORTING:

Engineering TecTonics
1720 Vargrave Street
Winston Salem, NC 27107

INVOICING:

Engineering TecTonics
P.O. Box I
Winston Salem, NC 27108

PROJECT NUMBER: **FL9517204**

DATE COMPLETED: November 10, 1995
DATE RECEIVED: November 1, 1995

PROJECT DESCRIPTION:

#90-247--3 water samples analyzed for 8240/COND/TDS/TOX/TOC/COD/CL/FL/pH/Sulfate/Metals.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Jamie Fore. We appreciate your business and look forward to serving you again soon.

Respectfully,

Kimberly H. Martin
QA/QC Officer

1491 Twilight Trail ☐ Frankfort, KY 40601 ☐ 502/223-0251 ☐ FAX 502/875-60[illegible] ☐ Toll Free [illegible]

D R O L O G I

FINAL REPORT OF ANALYSES

droLogic, Inc. (FRANKFORT)
91 Twilight Trail
ankfort, KY 40601-
tn: Jamie Fore

REPORT DATE: 11/08/95

MPLE NUMBER- 11560 SAMPLE ID- MW-1
TE SAMPLED- 10/30/95
TE RECEIVED- 11/02/95 SAMPLER- Client
ME RECEIVED- 915 DELIVERED BY- Fed X

SAMPLE MATRIX- WA

RECEIVED BY- KAB

ge 1 of 1

IALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
I, LAB	EPA 150.1			11/08/95	JTA	5.310	std units	
)TAL DISSOLVED SOLIDS	EPA160.1			11/08/95	JTA	105	mg/l	1.0
ECIFIC CONDUCTIVITY	EPA 120.1			11/08/95	JTA	964	umhos	
HLORIDE	EPA 325.2			11/08/95	JTA	24	mg/l	2
HEMICAL OXYGEN DEMAND	HACH 8000			11/06/95	JTA	32	mg/l	10
)TAL ORGANIC CARBON	EPA 415.1			11/07/95	JTA	9.3	mg/l	1.0
LUORIDE	EPA 340.2			11/07/95	JTA	< 0.5	mg/l	0.5
RSENIC, TOTAL	206.3	11/02/95	ATR	11/04/95	ATR	0.018	mg/l	0.001
ARIUM,TOTAL	208.1	11/02/95	ATR	11/03/95	ATR	0.7	mg/l	0.1
ADMIUM, TOTAL	213.1	11/02/95	ATR	11/02/95	AKW	< 0.005	mg/l	0.005
HROMIUM, TOTAL	218.2	11/02/95	ATR	11/03/95	ATR	0.004	mg/l	0.001
OPPER, TOTAL	220.2	11/02/95	ATR	11/03/95	ATR	0.009	mg/L	0.001
RON, TOTAL	236.1	11/02/95	ATR	11/06/95	AKW	22	mg/l	0.03
EAD, TOTAL	239.2	11/02/95	ATR	11/02/95	ATR	0.037	mg/l	0.001
AGNESIUM, TOTAL	242.1	11/02/95	ATR	11/02/95	AKW	4.3	mg/l	0.001
ERCURY, TOTAL	245.1			11/02/95	AKW	< 0.0002	mg/l	0.0002
ELENIUM, TOTAL	270.2	11/02/95	ATR	11/03/95	ATR	0.010	mg/l	0.002
ILVER, TOTAL	272.1	11/02/95	ATR	11/02/95	AKW	< 0.010	mg/l	0.010
INC, TOTAL	289.1	11/02/95	ATR	11/02/95	AKW	0.056	mg/l	0.005
OTAL ORGANIC HALIDES				11/08/95	TWM	1.6	MG/L	0.005

LABORATORY DIRECTOR Teresa W McClanahan

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

HYDROLOGIC FRANKFORT
1491 TWILIGHT TRAIL
FRANKFORT, KY 40601-
Attn: JAMIE FORE

PROJECT NAME: ENGINEERING TEC
REPORT DATE: 11/04/95

SAMPLE NUMBER- 74590
DATE SAMPLED- 10/30/95
DATE RECEIVED- 11/02/95
TIME RECEIVED- 1030

SAMPLE ID- MW-1 ENG
LOCATION- ENGIN TEC 90-247
SAMPLER- DADE
DELIVERED BY- FEDEX

SAMPLE MATRIX- WW

RECEIVED BY- MLS

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
SULFATE	EPA 375.4	11/03/95	JMC	2.9	mg/l	1.0

LABORATORY DIRECTOR _____

P.O. BOX 13029 ASHEVILLE, NC 23814 122 LYMAN STREET ASHEVILLE, NC 23801 (704) 254-5169 FAX: (704) 252-9711 TOLL FREE: 1-800-231-8889

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517204
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 10/30/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 11/06/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrolein	107-02-8	50.0	BDL
Acrylonitrile	107-13-1	50.0	BDL
Benzene	71-43-2	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Bromomethane	74-83-9	10.0	BDL
2-Butanone	78-93-3	100.0	BDL
Carbon Disulfide	75-15-0	5.0	BDL
Carbon Tetrachloride	56-23-5	5.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Chloromethane	74-87-3	10.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
Dibromomethane	74-95-3	5.0	BDL
1,4-Dichloro-2-Butane		5.0	BDL
Dichlorodifluoromethane	75-71-8	10.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethene	75-35-4	5.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517204
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 10/30/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
trans-1,2-Dichloroethene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	5.0	BDL
trans-1,3-Dichloropropene	10061-02-6	5.0	BDL
Ethanol	64-17-5	100.0	BDL
Ethylbenzene	100-41-4	5.0	BDL
Ethyl Methacrylate	97-63-2	10.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Iodomethane	74-88-4	10.0	BDL
Methylene Chloride	75-09-2	5.0	BDL
4-Methyl-2-Pentanone	108-10-1	50.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	10.0	BDL
Tetrachloroethylene	127-18-4	10.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylene (Total)	1330-20-7	5.0	BDL
Surrogate Recoveries:			
1,2-Dichloroethane-D4			115%
Toluene-D8			93%
Bromofluorobenzene			92%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

D R O L O G I

FINAL REPORT OF ANALYSES

droLogic, Inc. (FRANKFORT)
91 Twilight Trail
ankfort, KY 40601-
tn: Jamie Fore

REPORT DATE: 11/08/95

MPLE NUMBER- 11561 SAMPLE ID- MW-2
TE SAMPLED- 10/30/95
TE RECEIVED- 11/02/95 SAMPLER- Client
ME RECEIVED- 915 DELIVERED BY- Fed X

SAMPLE MATRIX- WA

RECEIVED BY- KAB

ge 1 of 1

ALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
H, LAB	EPA 150.1			11/08/95	JTA	5.364	std units	
TAL DISSOLVED SOLIDS	EPA160.1			11/08/95	JTA	100	mg/l	1.
ECIFIC CONDUCTIVITY	EPA 120.1			11/08/95	JTA	1121	umhos	
LORIDE	EPA 325.2			11/08/95	JTA	20	mg/l	
EMICAL OXYGEN DEMAND	HACH 8000			11/06/95	JTA	32	mg/l	1
TAL ORGANIC CARBON	EPA 415.1			11/07/95	JTA	6.7	mg/l	1.
LUORIDE	EPA 340.2			11/07/95	JTA	< 0.5	mg/l	0.
RSENIC, TOTAL	206.3	11/02/95	ATR	11/04/95	ATR	0.009	mg/l	0.00
ARIUM,TOTAL	208.1	11/02/95	ATR	11/03/95	ATR	0.1	mg/l	0.
ADMIUM, TOTAL	213.1	11/02/95	ATR	11/02/95	AKW	< 0.005	mg/l	0.00
HROMIUM, TOTAL	218.2	11/02/95	ATR	11/03/95	ATR	< 0.001	mg/l	0.00
OPPER, TOTAL	220.2	11/02/95	ATR	11/03/95	ATR	0.180	mg/L	0.00
RON, TOTAL	236.1	11/02/95	ATR	11/06/95	AKW	13	mg/l	0.0
EAD, TOTAL	239.2	11/02/95	ATR	11/02/95	ATR	0.014	mg/l	0.00
AGNESIUM, TOTAL	242.1	11/02/95	ATR	11/02/95	AKW	2.6	mg/l	0.00
ERCURY, TOTAL	245.1			11/02/95	AKW	< 0.0002	mg/l	0.000
ELENIUM, TOTAL	270.2	11/02/95	ATR	11/03/95	ATR	0.003	mg/l	0.00
ILVER, TOTAL	272.1	11/02/95	ATR	11/02/95	AKW	< 0.010	mg/l	0.0
INC, TOTAL	289.1	11/02/95	ATR	11/02/95	AKW	0.036	mg/l	0.00
OTAL ORGANIC HALIDES				11/08/95	TWM	0.098	MG/L	0.00

LABORATORY DIRECTOR Teresa W McClanahan

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

HYDROLOGIC FRANKFORT
1491 TWILIGHT TRAIL
FRANKFORT, KY 40601-
Attn: JAMIE FORE

PROJECT NAME: ENGINEERING TEC
REPORT DATE: 11/04/95

SAMPLE NUMBER- 74591
DATE SAMPLED- 10/30/95
DATE RECEIVED- 11/02/95
TIME RECEIVED- 1030

SAMPLE ID- MW-2 ENG
LOCATION- ENGIN TEC 90-247
SAMPLER- DADE
DELIVERED BY- FEDEX

SAMPLE MATRIX- WW

RECEIVED BY- MLS

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
SULFATE	EPA 375.4	11/03/95	JMC	4.2	mg/l	1.0

LABORATORY DIRECTOR

[illegible] ASHEVILLE, NC [illegible] 122 LYMAN STREET ASHEVILLE, NC [illegible] (704) 254-[illegible] FAX: (704) 252-97[illegible] TOLL FREE: 1-800-231-8889

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517205
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 10/30/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 11/06/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrolein	107-02-8	50.0	BDL
Acrylonitrile	107-13-1	50.0	BDL
Benzene	71-43-2	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Bromomethane	74-83-9	10.0	BDL
2-Butanone	78-93-3	100.0	BDL
Carbon Disulfide	75-15-0	5.0	BDL
Carbon Tetrachloride	56-23-5	5.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Chloromethane	74-87-3	10.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
Dibromomethane	74-95-3	5.0	BDL
1,4-Dichloro-2-Butane		5.0	BDL
Dichlorodifluoromethane	75-71-8	10.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,1-Dichloroethane	**75-34-3**	**5.0**	**6.6**
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethene	75-35-4	5.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517205
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 10/30/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
trans-1,2-Dichloroethene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	5.0	BDL
trans-1,3-Dichloropropene	10061-02-6	5.0	BDL
Ethanol	64-17-5	100.0	BDL
Ethylbenzene	100-41-4	5.0	BDL
Ethyl Methacrylate	97-63-2	10.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Iodomethane	74-88-4	10.0	BDL
Methylene Chloride	75-09-2	5.0	BDL
4-Methyl-2-Pentanone	108-10-1	50.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	10.0	BDL
Tetrachloroethylene	127-18-4	10.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylene (Total)	1330-20-7	5.0	BDL
Surrogate Recoveries:			
1,2-Dichloroethane-D4			110%
Toluene-D8			93%
Bromofluorobenzene			98%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

FINAL REPORT OF ANALYSES

IroLogic, Inc. (FRANKFORT)
)1 Twilight Trail
ınkfort, KY 40601-
:n: Jamie Fore

REPORT DATE: 11/08/95

IPLE NUMBER- 11562 SAMPLE ID- MW-3 SAMPLE MATRIX- WA
TE SAMPLED- 10/30/95
TE RECEIVED- 11/02/95 SAMPLER- Client RECEIVED BY- KAB
IE RECEIVED- 915 DELIVERED BY- Fed X

ALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
, LAB	EPA 150.1			11/08/95	JTA	5.792	std units	
TAL DISSOLVED SOLIDS	EPA160.1			11/08/95	JTA	90	mg/l	1.0
ECIFIC CONDUCTIVITY	EPA 120.1			11/08/95	JTA	1025	umhos	
LORIDE	EPA 325.2			11/08/95	JTA	12	mg/l	2
EMICAL OXYGEN DEMAND	HACH 8000			11/06/95	JTA	96	mg/l	10
TAL ORGANIC CARBON	EPA 415.1			11/07/95	JTA	9.0	mg/l	1.0
UORIDE	EPA 340.2			11/07/95	JTA	< 0.5	mg/l	0.5
SENIC, TOTAL	206.3	11/02/95	ATR	11/04/95	ATR	0.010	mg/l	0.001
RIUM,TOTAL	208.1	11/02/95	ATR	11/03/95	ATR	0.1	mg/l	0.1
DMIUM, TOTAL	213.1	11/02/95	ATR	11/02/95	AKW	< 0.005	mg/l	0.005
ROMIUM, TOTAL	218.2	11/02/95	ATR	11/03/95	ATR	< 0.001	mg/l	0.001
PPER, TOTAL	220.2	11/02/95	ATR	11/03/95	ATR	0.007	mg/L	0.001
ON, TOTAL	236.1	11/02/95	ATR	11/06/95	AKW	54	mg/l	0.03
AD, TOTAL	239.2	11/02/95	ATR	11/02/95	ATR	0.002	mg/l	0.001
GNESIUM, TOTAL	242.1	11/02/95	ATR	11/02/95	AKW	3.9	mg/l	0.001
RCURY, TOTAL	245.1			11/02/95	AKW	< 0.0002	mg/l	0.0002
LENIUM, TOTAL	270.2	11/02/95	ATR	11/03/95	ATR	0.008	mg/l	0.002
LVER, TOTAL	272.1	11/02/95	ATR	11/02/95	AKW	< 0.010	mg/l	0.010
NC, TOTAL	289.1	11/02/95	ATR	11/02/95	AKW	0.027	mg/l	0.005
)TAL ORGANIC HALIDES				11/08/95	TWM	0.076	MG/L	0.005

LABORATORY DIRECTOR Teresa W. McClanahan

FINAL REPORT OF ANALYSES

HYDROLOGIC FRANKFORT
1491 TWILIGHT TRAIL
FRANKFORT, KY 40601-
Attn: JAMIE FORE

PROJECT NAME: ENGINEERING TEC
REPORT DATE: 11/04/95

SAMPLE NUMBER- 74592 SAMPLE ID- MW-3 ENG SAMPLE MATRIX- WW
DATE SAMPLED- 10/30/95 LOCATION- ENGIN TEC 90-247
DATE RECEIVED- 11/02/95 SAMPLER- DADE RECEIVED BY- MLS
TIME RECEIVED- 1030 DELIVERED BY- FEDEX

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
SULFATE	EPA 375.4	11/03/95	JMC	1.5	mg/l	1.0

LABORATORY DIRECTOR _____

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517206
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 10/30/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 11/06/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrolein	107-02-8	50.0	BDL
Acrylonitrile	107-13-1	50.0	BDL
Benzene	71-43-2	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Bromomethane	74-83-9	10.0	BDL
2-Butanone	78-93-3	100.0	BDL
Carbon Disulfide	75-15-0	5.0	BDL
Carbon Tetrachloride	56-23-5	5.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Chloromethane	74-87-3	10.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
Dibromomethane	74-95-3	5.0	BDL
1,4-Dichloro-2-Butane		5.0	BDL
Dichlorodifluoromethane	75-71-8	10.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethene	75-35-4	5.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247

HYDROLOGIC PROJECT NUMBER: FL9517204
HYDROLOGIC SAMPLE NUMBER: 9517206
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 10/30/95

METHOD SW 846 8240

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
trans-1,2-Dichloroethene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	5.0	BDL
trans-1,3-Dichloropropene	10061-02-6	5.0	BDL
Ethanol	64-17-5	100.0	BDL
Ethylbenzene	100-41-4	5.0	BDL
Ethyl Methacrylate	97-63-2	10.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Iodomethane	74-88-4	10.0	BDL
Methylene Chloride	75-09-2	5.0	BDL
4-Methyl-2-Pentanone	108-10-1	50.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	10.0	BDL
Tetrachloroethylene	127-18-4	10.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylene (Total)	1330-20-7	5.0	BDL
Surrogate Recoveries:			
1,2-Dichloroethane-D4			112%
Toluene-D8			98%
Bromofluorobenzene			96%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

Chain of Custody Record

HYDROLOGIC, INC.

Page ___ of ___

F19517204

☐ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 410 New Salem Highway #106, Murfreesboro, TN 37129, (615) 848-6810, FAX (615) 848-6805
☒ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ 263 Branchview Drive SE, Concord, NC 28025, (704) 786-3322, FAX (704) 786-2999
☐ 2500 Gateway Centre, Morrisville, NC [illegible], (919) 380-9699, FAX (919) 38[illegible]
☐ 4875 Riverside Drive, Macon, GA [illegible], (912) 757-081[illegible], FAX (912) 757-0149
☐ 2082 Trade Ctr Way #103, Naples, FL 3394[illegible], (813) 5[illegible]-605[illegible], FAX (813) 5[illegible]7-7056

Client: Engineering Tectonics
Project No.: 90-247
Report Address: 1720 Vargrave, Winston Salem NC 27107
Invoice Address:
Attn: T. Dade
Attn: T. Dade
Phone No.: (910) 724-6994
Fax No.: (910) 724-7095
P.O. No: 90-247

TURNAROUND TIME

☐ 24 Hours ☐ 48 Hours Date Needed: ___
☒ 5 Days ☐ 10 Days ☐ Other ___

REQUESTED PARAMETERS

Sample ID	Date	Time	Comp/Grab	Matrix	Preserv.	Containers	8270	8240	BOD, Cond, TDS	TOX, TOC, COD	Cl, Fl, pH, sulfate	Nitrate 48hr	Metals				REMARKS
MW-1	10/30/95		↓	H_2O	Yes	14	X	X	X	X	X	X	X				*per T. Dade → to resample BOD and Nitrate JRF 10/1/95
MW-2	↓		↓	↓	↓	14	X	X	X	X	X	X	X				
MW-3	↓		↓	↓	↓	14	X	X	X	X	X	X	X				
																	→ Metals to include: Ar, Ba, Cd, Ch total, Co, Fe, Pb, Hg, Se, Mg, Sil, Zn
							K	K	T	T	A-sulfate T	T	T				

LAB CODE I.D.
A = Asheville, NC
C = Concord, NC
D = Denver, CO
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Naples, FL
S = Subcontracted
T = Murfreesburo, TN

Lab Use Only — Custody Seal: ☐Yes ☐No ☐N/A

Init Lab Temp. — Rec. Lab Temp <4.0

COMMENTS:

Relinquished By	Date	Time	Received By	Date	Time
J Thomas Dade Jr. (ET)	10/31/95	8:30	FED Ex	10/31/95	
			J Ramsey	11/1/95	11:00
J Ramsey	11/1/95	4:00			

Lab Use Only

Attachment B

Analytical Results

November 21, 1995

REPORTING:

Engineering TecTonics
1720 Vargrave Street
Winston Salem, NC 27107

INVOICING:

Engineering TecTonics
P.O. Box I
Winston Salem, NC 27108

PROJECT NUMBER: **FL9518287**

DATE COMPLETED: November 21, 1995
DATE RECEIVED: November 20, 1995

PROJECT DESCRIPTION:

#90-247.03--3 water samples analyzed for 8270.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Jamie Fore. We appreciate your business and look forward to serving you again soon.

Respectfully,

Jackie Tinnell

Jackie Tinnell
Organics Manager

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518287
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 11/16/95
DATE EXTRACTED: 11/20/95
DATE/TIME ANALYZED: 11/20/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acenaphthene	83-32-9	10.0	BDL
Acenaphthylene	208-96-8	10.0	BDL
Aniline	62-53-3	10.0	BDL
Anthracene	120-12-7	10.0	BDL
Benzidine	92-87-5	10.0	BDL
Benzoic Acid	65-85-0	50.0	BDL
Benzo(a)Anthracene	56-55-3	10.0	BDL
Benzo(b)Fluoranthene	205-99-2	10.0	BDL
Benzo(k)Fluoranthene	207-08-9	10.0	BDL
Benzo(g,h,i)Perylene	191-24-2	10.0	BDL
Benzo(a)Pyrene	50-32-8	10.0	BDL
Benzyl Alcohol	100-51-6	20.0	BDL
Bis(2-Chloroethoxy)Methane	111-91-1	10.0	BDL
Bis(2-Chloroethyl)Ether	111-44-4	10.0	BDL
Bis(2-Chloroisopropyl)Ether	39638-32-9	10.0	BDL
Bis(2-Ethylhexyl)Phthalate	117-81-7	10.0	BDL
4-Bromophenyl Phenyl Ether	101-55-3	10.0	BDL
Butyl Benzyl Phthalate	85-68-7	10.0	BDL
4-Chloroaniline	106-47-8	20.0	BDL
1-Chloronaphthalene		10.0	BDL
2-Chloronaphthalene	91-58-7	10.0	BDL
4-Chloro-3-Methyl Phenol	59-50-7	10.0	BDL
2-Chlorophenol	95-57-8	10.0	BDL
4-Chlorophenyl Phenyl Ether	7005-72-3	10.0	BDL
Chrysene	218-01-9	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518287
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Dibenz(a,h)Anthracene	53-70-3	10.0	BDL
Dibenzofuran	132-64-9	10.0	BDL
Di-N-Butylphthalate	84-74-2	10.0	BDL
1,3-Dichlorobenzene	541-73-1	10.0	BDL
1,4-Dichlorobenzene	106-46-7	10.0	BDL
1,2-Dichlorobenzene	95-50-1	10.0	BDL
3,3'-Dichlorobenzidine	91-94-1	20.0	BDL
2,4-Dichlorophenol	120-83-2	10.0	BDL
2,6-Dichlorophenol	87-65-0	10.0	BDL
Diethylphthalate	84-66-2	10.0	BDL
A,A-Dimethylphenethylamine	122-09-8	10.0	BDL
2,4-Dimethylphenol	105-67-9	10.0	BDL
Dimethylphthalate	131-11-3	10.0	BDL
4,6-Dinitro-2-Methylphenol	534-52-1	50.0	BDL
2,4-Dinitrophenol	51-28-5	10.0	BDL
2,4-Dinitrotoluene	121-14-2	10.0	BDL
2,6-Dinitrotoluene	606-20-2	10.0	BDL
Diphenylamine	122-39-4	20.0	BDL
Di-N-Octylphthalate	117-84-0	10.0	BDL
Fluoranthene	206-44-0	10.0	BDL
Fluorene	86-73-7	10.0	BDL
Hexachlorobenzene	118-74-1	10.0	BDL
Hexachlorobutadiene	87-68-3	10.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518287
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Hexachloroethane	67-72-1	10.0	BDL
Indeno(1,2,3-cd)Pyrene	193-39-5	10.0	BDL
Isophorone	78-59-1	10.0	BDL
2-Methylnaphthalene	91-57-6	10.0	BDL
2-Methylphenol	95-48-7	10.0	BDL
4-Methylphenol	106-44-5	10.0	BDL
Naphthalene	91-20-3	10.0	BDL
2-Nitroaniline	88-74-4	50.0	BDL
3-Nitroaniline	99-09-2	50.0	BDL
4-Nitroaniline	100-01-6	50.0	BDL
Nitrobenzene	98-95-3	10.0	BDL
2-Nitrophenol	88-75-5	10.0	BDL
4-Nitrophenol	100-02-7	10.0	BDL
N-Nitroso-Di-N-Butylamine	924-16-3	50.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
N-Nitrosodipropylamine	621-64-7	10.0	BDL
Pentachlorophenol	87-86-5	50.0	BDL
Phenanthrene	85-01-8	10.0	BDL
Phenol	108-95-2	10.0	BDL
Pyrene	129-00-0	10.0	BDL
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	BDL
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	BDL
1,2,4-Trichlorobenzene	120-82-1	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518287
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
2,4,5-Trichlorophenol	95-95-4	10.0	BDL
2,4,6-Trichlorophenol	88-06-2	10.0	BDL
Surrogate Recovery:			
2-Fluorobiphenyl			72%
Nitrobenzene-d5			78%
4-Terphenyl-D14			87%
2-Fluorophenol			56%
Phenol-D5			63%
2,4,6-Tribromophenol			62%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518288
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 11/16/95
DATE EXTRACTED: 11/20/95
DATE/TIME ANALYZED: 11/20/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acenaphthene	83-32-9	10.0	BDL
Acenaphthylene	208-96-8	10.0	BDL
Aniline	62-53-3	10.0	BDL
Anthracene	120-12-7	10.0	BDL
Benzidine	92-87-5	10.0	BDL
Benzoic Acid	65-85-0	50.0	BDL
Benzo(a)Anthracene	56-55-3	10.0	BDL
Benzo(b)Fluoranthene	205-99-2	10.0	BDL
Benzo(k)Fluoranthene	207-08-9	10.0	BDL
Benzo(g,h,i)Perylene	191-24-2	10.0	BDL
Benzo(a)Pyrene	50-32-8	10.0	BDL
Benzyl Alcohol	100-51-6	20.0	BDL
Bis(2-Chloroethoxy)Methane	111-91-1	10.0	BDL
Bis(2-Chloroethyl)Ether	111-44-4	10.0	BDL
Bis(2-Chloroisopropyl)Ether	39638-32-9	10.0	BDL
Bis(2-Ethylhexyl)Phthalate	117-81-7	10.0	BDL
4-Bromophenyl Phenyl Ether	101-55-3	10.0	BDL
Butyl Benzyl Phthalate	85-68-7	10.0	BDL
4-Chloroaniline	106-47-8	20.0	BDL
1-Chloronaphthalene		10.0	BDL
2-Chloronaphthalene	91-58-7	10.0	BDL
4-Chloro-3-Methyl Phenol	59-50-7	10.0	BDL
2-Chlorophenol	95-57-8	10.0	BDL
4-Chlorophenyl Phenyl Ether	7005-72-3	10.0	BDL
Chrysene	218-01-9	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518288
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Dibenz(a,h)Anthracene	53-70-3	10.0	BDL
Dibenzofuran	132-64-9	10.0	BDL
Di-N-Butylphthalate	84-74-2	10.0	BDL
1,3-Dichlorobenzene	541-73-1	10.0	BDL
1,4-Dichlorobenzene	106-46-7	10.0	BDL
1,2-Dichlorobenzene	95-50-1	10.0	BDL
3,3'-Dichlorobenzidine	91-94-1	20.0	BDL
2,4-Dichlorophenol	120-83-2	10.0	BDL
2,6-Dichlorophenol	87-65-0	10.0	BDL
Diethylphthalate	84-66-2	10.0	BDL
A,A-Dimethylphenethylamine	122-09-8	10.0	BDL
2,4-Dimethylphenol	105-67-9	10.0	BDL
Dimethylphthalate	131-11-3	10.0	BDL
4,6-Dinitro-2-Methylphenol	534-52-1	50.0	BDL
2,4-Dinitrophenol	51-28-5	10.0	BDL
2,4-Dinitrotoluene	121-14-2	10.0	BDL
2,6-Dinitrotoluene	606-20-2	10.0	BDL
Diphenylamine	122-39-4	20.0	BDL
Di-N-Octylphthalate	117-84-0	10.0	BDL
Fluoranthene	206-44-0	10.0	BDL
Fluorene	86-73-7	10.0	BDL
Hexachlorobenzene	118-74-1	10.0	BDL
Hexachlorobutadiene	87-68-3	10.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518288
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Hexachloroethane	67-72-1	10.0	BDL
Indeno(1,2,3-cd)Pyrene	193-39-5	10.0	BDL
Isophorone	78-59-1	10.0	BDL
2-Methylnaphthalene	91-57-6	10.0	BDL
2-Methylphenol	95-48-7	10.0	BDL
4-Methylphenol	106-44-5	10.0	BDL
Naphthalene	91-20-3	10.0	BDL
2-Nitroaniline	88-74-4	50.0	BDL
3-Nitroaniline	99-09-2	50.0	BDL
4-Nitroaniline	100-01-6	50.0	BDL
Nitrobenzene	98-95-3	10.0	BDL
2-Nitrophenol	88-75-5	10.0	BDL
4-Nitrophenol	100-02-7	10.0	BDL
N-Nitroso-Di-N-Butylamine	924-16-3	50.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
N-Nitrosodipropylamine	621-64-7	10.0	BDL
Pentachlorophenol	87-86-5	50.0	BDL
Phenanthrene	85-01-8	10.0	BDL
Phenol	108-95-2	10.0	BDL
Pyrene	129-00-0	10.0	BDL
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	BDL
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	BDL
1,2,4-Trichlorobenzene	120-82-1	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518288
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
2,4,5-Trichlorophenol	95-95-4	10.0	BDL
2,4,6-Trichlorophenol	88-06-2	10.0	BDL
Surrogate Recovery:			
2-Fluorobiphenyl			58%
Nitrobenzene-d5			60%
4-Terphenyl-D14			70%
2-Fluorophenol			64%
Phenol-D5			66%
2,4,6-Tribromophenol			57%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518289
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 11/16/95
DATE EXTRACTED: 11/20/95
DATE/TIME ANALYZED: 11/20/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acenaphthene	83-32-9	10.0	BDL
Acenaphthylene	208-96-8	10.0	BDL
Aniline	62-53-3	10.0	BDL
Anthracene	120-12-7	10.0	BDL
Benzidine	92-87-5	10.0	BDL
Benzoic Acid	65-85-0	50.0	BDL
Benzo(a)Anthracene	56-55-3	10.0	BDL
Benzo(b)Fluoranthene	205-99-2	10.0	BDL
Benzo(k)Fluoranthene	207-08-9	10.0	BDL
Benzo(g,h,i)Perylene	191-24-2	10.0	BDL
Benzo(a)Pyrene	50-32-8	10.0	BDL
Benzyl Alcohol	100-51-6	20.0	BDL
Bis(2-Chloroethoxy)Methane	111-91-1	10.0	BDL
Bis(2-Chloroethyl)Ether	111-44-4	10.0	BDL
Bis(2-Chloroisopropyl)Ether	39638-32-9	10.0	BDL
Bis(2-Ethylhexyl)Phthalate	117-81-7	10.0	BDL
4-Bromophenyl Phenyl Ether	101-55-3	10.0	BDL
Butyl Benzyl Phthalate	85-68-7	10.0	BDL
4-Chloroaniline	106-47-8	20.0	BDL
1-Chloronaphthalene		10.0	BDL
2-Chloronaphthalene	91-58-7	10.0	BDL
4-Chloro-3-Methyl Phenol	59-50-7	10.0	BDL
2-Chlorophenol	95-57-8	10.0	BDL
4-Chlorophenyl Phenyl Ether	7005-72-3	10.0	BDL
Chrysene	218-01-9	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518289
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Dibenz(a,h)Anthracene	53-70-3	10.0	BDL
Dibenzofuran	132-64-9	10.0	BDL
Di-N-Butylphthalate	84-74-2	10.0	BDL
1,3-Dichlorobenzene	541-73-1	10.0	BDL
1,4-Dichlorobenzene	106-46-7	10.0	BDL
1,2-Dichlorobenzene	95-50-1	10.0	BDL
3,3'-Dichlorobenzidine	91-94-1	20.0	BDL
2,4-Dichlorophenol	120-83-2	10.0	BDL
2,6-Dichlorophenol	87-65-0	10.0	BDL
Diethylphthalate	84-66-2	10.0	BDL
A,A-Dimethylphenethylamine	122-09-8	10.0	BDL
2,4-Dimethylphenol	105-67-9	10.0	BDL
Dimethylphthalate	131-11-3	10.0	BDL
4,6-Dinitro-2-Methylphenol	534-52-1	50.0	BDL
2,4-Dinitrophenol	51-28-5	10.0	BDL
2,4-Dinitrotoluene	121-14-2	10.0	BDL
2,6-Dinitrotoluene	606-20-2	10.0	BDL
Diphenylamine	122-39-4	20.0	BDL
Di-N-Octylphthalate	117-84-0	10.0	BDL
Fluoranthene	206-44-0	10.0	BDL
Fluorene	86-73-7	10.0	BDL
Hexachlorobenzene	118-74-1	10.0	BDL
Hexachlorobutadiene	87-68-3	10.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL

COMPANY NAME: Engineering TecTonics
COMPANY PROJECT NUMBER: #90-247.03

HYDROLOGIC PROJECT NUMBER: FL9518287
HYDROLOGIC SAMPLE NUMBER: 9518289
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 11/16/95

METHOD SW 846 8270

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
2,4,5-Trichlorophenol	95-95-4	10.0	BDL
2,4,6-Trichlorophenol	88-06-2	10.0	BDL
Surrogate Recovery:			
2-Fluorobiphenyl			64%
Nitrobenzene-d5			68%
4-Terphenyl-D14			84%
2-Fluorophenol			59%
Phenol-D5			56%
2,4,6-Tribromophenol			61%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

Chain of Custody Record

HYDROLOGIC, INC.

Page ___ of ___

☐ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 410 New Salem Highway #106, Murfreesboro, TN 37129, (615) 848-6810, FAX (615) 848-6805
☒ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ 263 Branchview Drive SE, Concord, NC 28[illegible], (7[illegible]) 786-[illegible]32[illegible], FAX (70[illegible]) 786-2[illegible]9
☐ 2500 Gateway Centre, Morrisville, NC 27560, (919) [illegible]-[illegible]69[illegible], FAX (919) [illegible]-[illegible]717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) [illegible]7-0811, FAX (912) 757-0149
☐ 2082 Trade Ctr Way #103, Naples, FL 33942, (813) 597-6059, FAX (813) 597-7056

H951628

Client: Engineering Tectonics	Project No.: 90-247.03
Report Address: 1720 Vargrave St. W/S NC 27107	Invoice Address: 1720 Vargrave W/S NC 27107
Attn: T. Dade	Attn: T. Dade
Phone No: (910) 724-6994	
Fax No: (910) 724-7095	P.O. No:

TURNAROUND TIME

☐ 24 Hours ☐ 48 Hours Date Needed: ASAP

☐ 5 Days ☐ 10 Days ☐ Other

REQUESTED PARAMETERS

8270

LAB CODE I.D.

A = Asheville, NC
C = Concord, NC
D = Denver, CO
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Naples, FL
S = Subcontracted
T = Murfreesburo, TN

Sample ID	Date	Time	Comp/Grab	Matrix	Preserv.	Containers	8270										REMARKS
MW-1	11/16/95	9:00	X	H_2O	–	2	X										
MW-2	11/16/95	↓	X	H_2O	–	2	X										
MW-3	11/16/95	1:00	X	H_2O	–	2	X										
																	**resample on ① sample at No charge!

Lab Use Only Custody Seal: ☐Yes ☐No ☐N/A

Init Lab Temp. Rec. Lab Temp <4.0

COMMENTS:

Relinquished By: J. Thomas Dade, Jr. (ETPA)	Date 11/17/95	Time	Received By: FCD, SX	Date 11/17/95 Time
Relinquished By:	Date	Time	Received By: [signature]	Date 11/20/95 Time 11:00
Relinquished By:	Date	Time	Received By:	Date Time

Lab Use Only