Fac/Perm/Co ID #	Date	Doc ID#
Bc	6/4/08	DIN

IMPORTANT

To Bobby 10:40

Date 8-20-92 Time 9:50

WHILE YOU WERE OUT

M Jeff Wyatt

of Eng. Techtonics

Phone 1-800-394-8807

AREA CODE NUMBER EXTENSION

TELEPHONED		PLEASE CALL	X
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message Avery Co.
due any time (mailed 14th)

Chain of Custody ~~6/26~~
5/6 6/30

Allegheny Co. / Person Co.

Signed

N.C. Dept. of Environment, Health, and Natural Resources

Printed on Recycled Paper

06-01

ENGINEERING TECTONICS, P.A.
ENGINEERS • GEOLOGISTS • HYDROLOGISTS
P.O. Box I, Winston-Salem, NC 27108 (919) 724-6994

RECEIVED
AUG 26 1992
DIV. OF ENVIRONMENTAL HEALTH
SOLID WASTE SECTION
AUG 28 1992

August 14, 1992

North Carolina Department of Environment, Health and Natural Resources
Division of Health Services
P.O. Box 2091
Raleigh, N.C. 27602

To whom it may concern:

Please find enclosed a copy of the results of the analyses on the groundwater samples obtained from the Avery County Landfill on June 30, 1992.

Feel free to contact me at 919-724-6994 if you have any questions.

Sincerely,

ENGINEERING TECTONICS P.A.

R. Jeff Wyatt

No Surface Water Samples ?

R. Jeff Wyatt
Hydrogeologic Technician

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690

TEST REPORT NO. A82414

July 16, 1992

Prepared for:

Engineering Tectonics
P.O. Box 11846
1720 Vargrave
Winston Salem, NC 27107

Attention: Jeffery Wyatt

Project: Avery County

Reviewed &
Approved by: _____

Name: Carmine M. Fioriglio

Title: QA/QC Manager

AnalytiKEM

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AnalytiKEM

I. Certification

AnalytiKEM, Inc.
Current Certifications/Regulatory Approvals

Tabulated below are the current laboratory certifications that are held by each AnalytiKEM Laboratory. Analyses performed at multiple AnalytiKEM locations will be noted in the test report.

Cherry Hill, NJ		Rock Hill, SC		Houston Analytical, Tx	
State	Cert #	State	Cert #	State	Cert #
Arkansas	*	S. Carolina	46067	N. Dakota	R-006
Connecticut	PH-0715	N. Carolina	316	Oklahoma	8403
Florida	880985G	New Jersey	79795	Texas Water Commission *	
Massachusetts	NJ117			Louisiana *	
New Jersey	04012				
New York	10815				
N. Carolina	258				
N. Dakota	R-038				
Pennsylvania	68366				
S. Carolina	94004				
Tennessee	02908				
Vermont	*				

* No certification numbers are issued for these states.

AnalytiKEM

II. Definition of Terms

Term	Definition
D	Detected; result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

AnalytiKEM

III. Sample Designations

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A82414-1	MW-1	Aqueous	6/30/92
A82414-2	MW-2	Aqueous	6/30/92
A82414-3	MW-3	Aqueous	6/30/92

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

AnalytiKEM

IV. Methodology

Volatiles

Method 5030, Purge and Trap, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Second Edition, USEPA.

Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Second Edition, USEPA.

Semivolatiles

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, Physical Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 8270, Gas Chromatography/Mass Spectrometry for Semivolatile Organics: Capillary Column Technique, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Metals

Method 3010, Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Flame Atomic Absorption Spectroscopy or Inductively Coupled Plasma Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Furnace Atomic Absorption Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 6010, Inductively Coupled Plasma Atomic Emission Spectroscopy, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 7000, Atomic Absorption Methods, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

- Method 7060, Arsenic, AA, Furnace
- Method 7470, Mercury in Liquid (Manual Cold-Vapor Technique)
- Method 7740, Selenium, AA, Furnace

IV. Methodology (Cont'd)

AnalytiKEM

General Chemistry

Method 9050, Conductance (Specific Conductance, umhos at 25 degrees C), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 405.1, Oxygen Demand (Biochemical), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Methods 410.1, 410.2, 410.3, Chemical Oxygen Demand, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9252, Chloride (Titrimetric, Mercuric Nitrate), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 340.2, Fluoride (Potentiomentric, Ion Selective Electrode), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9200, Nitrate, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9040, pH Electrometric Measurement, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9038, Sulfate (Turbidimetric), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9060, Total Organic Carbon, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9020, Total Organic Halides (TOX), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 160.1, Total Dissolved Solids (Dried at 180 degrees C), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

V. Analytical Results

AnalytiKEM

Volatile Organics

Parameter	Method Blank	A82414-1 MW-1	A82414-2 MW-2	A82414-3 MW-3
		Sample Designation		
Chloromethane	< 10	< 10	< 10	< 10
Bromomethane	< 10	< 10	< 10	< 10
Vinyl Chloride	< 10	< 10	< 10	< 10
Chloroethane	< 10	< 10	< 10	< 10
Methylene Chloride	< 5.0	< 5.0	< 5.0	< 5.0
2-Propanone (Acetone)	< 100	< 100	< 100	< 100
Carbon Disulfide	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	< 100	< 100	< 100	< 100
1,1,1-Trichloroethane	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Acetate	< 50	< 50	< 50	< 50
Bromodichloromethane	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethyl Vinyl Ether	< 10	< 10	< 10	< 10
Bromoform	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone (MIBK)	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50
Tetrachloroethene	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	< 5.0	< 5.0	< 5.0	< 5.0
m-Xylene	< 5.0	< 5.0	< 5.0	< 5.0
o,p-Xylenes	< 5.0	< 5.0	< 5.0	< 5.0
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

V. Analytical Results (Cont'd)

AnalytiKEM

Semivolatile Organics (Page 1 of 2)

Parameter	Method Blank	A82414-1 MW-1	A82414-2 MW-2	A82414-3 MW-3
		Sample Designation		
N-Nitrosodimethylamine	< 10	< 10	< 10	< 10
Phenol	< 10	< 10	< 10	< 10
Bis(2-chloroethyl) Ether	< 10	< 10	< 10	< 10
2-Chlorophenol	< 10	< 10	< 10	< 10
1,3-Dichlorobenzene	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 10	< 10	< 10	< 10
Benzyl Alcohol	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene	< 10	< 10	< 10	< 10
2-Methylphenol	< 10	< 10	< 10	< 10
Bis(2-chloroisopropyl) Ether	< 10	< 10	< 10	< 10
3+4-Methylphenol	< 10	< 10	< 10	< 10
N-Nitrosodipropylamine	< 10	< 10	< 10	< 10
Hexachloroethane	< 10	< 10	< 10	< 10
Nitrobenzene	< 10	< 10	< 10	< 10
Isophorone	< 10	< 10	< 10	< 10
2-Nitrophenol	< 10	< 10	< 10	< 10
2,4-Dimethylphenol	< 10	< 10	< 10	< 10
Benzoic Acid	< 50	< 50	< 50	< 50
Bis(2-chloroethoxy)methane	< 10	< 10	< 10	< 10
2,4-Dichlorophenol	< 10	< 10	< 10	< 10
1,2,4-Trichlorobenzene	< 10	< 10	< 10	< 10
Naphthalene	< 10	< 10	< 10	< 10
4-Chloroaniline	< 10	< 10	< 10	< 10
Hexachlorobutadiene	< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	< 10	< 10	< 10	< 10
2-Methylnaphthalene	< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	< 50	< 50	< 50	< 50
2-Chloronaphthalene	< 10	< 10	< 10	< 10
2-Nitroaniline	< 50	< 50	< 50	< 50
Dimethyl Phthalate	< 10	< 10	< 10	< 10
Acenaphthylene	< 10	< 10	< 10	< 10
3-Nitroaniline	< 50	< 50	< 50	< 50
Acenaphthene	< 10	< 10	< 10	< 10
2,4-Dinitrophenol	< 50	< 50	< 50	< 50
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Note: The Semivolatile Organics analysis was performed at our Cherry Hill, NJ facility.

V. Analytical Results (Cont'd)

AnalytiKEM

Semivolatile Organics (Page 2 of 2)

Parameter	Method Blank	A82414-1 MW-1	A82414-2 MW-2	A82414-3 MW-3
		Sample Designation		
4-Nitrophenol	< 50	< 50	< 50	< 50
Dibenzofuran	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	< 10	< 10	< 10	< 10
Diethyl Phthalate	< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether	< 10	< 10	< 10	< 10
Fluorene	< 10	< 10	< 10	< 10
4-Nitroaniline	< 50	< 50	< 50	< 50
4,6-Dinitro-2-methylphenol	< 50	< 50	< 50	< 50
N-Nitrosodiphenylamine	< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether	< 10	< 10	< 10	< 10
Hexachlorobenzene	< 10	< 10	< 10	< 10
Pentachlorophenol	< 50	< 50	< 10	< 10
Phenanthrene	< 10	< 10	< 10	< 10
Anthracene	< 10	< 10	< 10	< 10
Dibutyl Phthalate	< 10	< 10	< 10	< 10
Fluoranthene	< 10	< 10	< 10	< 10
Benzidine	< 100	< 100	< 100	< 100
Pyrene	< 10	< 10	< 10	< 10
Butylbenzyl Phthalate	< 10	< 10	< 10	< 10
3,3'-Dichlorobenzidine	< 20	< 20	< 20	< 20
Benzo(a)anthracene	< 10	< 10	< 10	< 10
Bis(2-ethylhexyl) Phthalate	< 10	29	25	36
Chrysene	< 10	< 10	< 10	< 10
Dioctyl Phthalate	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	< 10	< 10	< 10	< 10
Benzo(a)pyrene	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	< 10	< 10	< 10	< 10
Benzo(g,h,i)perylene	< 10	< 10	< 10	< 10
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Note: The Semivolatile Organics analysis was performed at our Cherry Hill, NJ facility.

V. Analytical Results (Cont'd)

AnalytiKEM

Metals

Parameter	Method Blank	A82414-1 MW-1	A82414-2 MW-2	A82414-3 MW-3
	Sample Designation			
Arsenic, total	< 10	< 10	< 10	< 10
Barium, total	< 200	270	< 200	200
Cadmium, total	< 5.0	< 5.0	< 5.0	< 5.0
Chromium, total	< 50	< 50	< 50	< 50
Copper, total	< 50	< 50	78	< 50
Iron, total	< 100	21,000	22,000	46,000
Lead, total	< 50	< 50	150	< 50
Manganese, total	< 15	1,500	4,900	4,100
Mercury, total	< 1.1	< 1.1	< 1.1	< 1.1
Selenium, total	< 10	< 10	< 10	< 10
Silver, total	< 40	< 40	< 40	< 40
Zinc, total	< 20	130	< 20	35
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Note: The Metals analysis was performed at our Cherry Hill, NJ facility.

V. Analytical Results (Cont'd)

AnalytiKEM

General Chemistry

Parameter	Method Blank	A82414-1 MW-1	A82414-2 MW-2	A82414-3 MW-3
		Sample Designation		
pH, units	--	7.2	6.1	5.9
Total Dissolved Solids	< 10,000	110,000	130,000	100,000
Conductivity, umhos/cm @ 25°C	--	54	170	120
Nitrate - N	< 100	100	< 100	230
Sulfate	--	1,600	4,500	< 1,000
Chloride	--	54,000	19,000	12,000
Fluoride	< 150	< 150	< 150	< 150
Total Organic Halogen	< 5.0	11	< 5.0	< 5.0
Chemical Oxygen Demand	--	< 10,000	< 10,000	< 10,000
Biochemical Oxygen Demand, 5-Day	< 1,000	< 1,000	2,300	2,500
Total Organic Carbon	--	< 1,000	3,200	3,600
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Note: The General Chemistry analyses were performed at our Cherry Hill, NJ facility.

VI. Quality Control Data

AnalytiKEM

Volatile Organics

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A82351-8

Parameter	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
1,1-Dichloroethene	0.25	90	94	4	79-121	10
Trichloroethene (TCE)	0.25	86	91	5	82-120	7
Benzene	0.25	86	92	6	70-136	8
Toluene	0.25	90	95	5	74-128	15
Chlorobenzene	0.25	88	94	6	78-118	5
Units	(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 10 outside control limits

RPD: 0 out of 5 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

Volatile Organics

Aqueous Surrogate Recovery Data

Sample Designation	Surrogate Recovery: 1,2-Dichloroethane-d_4 (50 ppb Added)	Toluene-d_8 (50 ppb Added)	4-Bromofluorobenzene (50 ppb Added)
Method Blank	112	103	112
A82351-8 Spike	88	90	84
A82351-8 Spike Dup.	94	96	90
A82414-1	109	103	111
A82414-2	111	104	113
A82414-3	111	105	112
Units	(%)	(%)	(%)
Control Limits	87-130	74-121	71-137

0 out of 18 surrogate recoveries are outside control limits.

VI. Quality Control Data (Cont'd)

AnalytiKEM

Semivolatile Organics

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A27821-2

Parameter	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
1,4-Dichlorobenzene	100	70	86	21	14-114	31
N-Nitrosodipropylamine	100	72	83	14	20-100	33
1,2,4-Trichlorobenzene	100	86	108	23	29-112	26
Acenaphthene	100	96	111	14	29-117	20
2,4-Dinitrotoluene	100	104	110	6	21-118	38
Pyrene	100	100	127	24	40-133	25
Phenol	200	36	47	27	26-133	39
2-Chlorophenol	200	48	50	41	33-102	18
4-Chloro-3-methylphenol	200	71	95	29	27-108	32
4-Nitrophenol	200	59	84	35	10-175	50
Pentachlorophenol	200	37	45	20	28-120	43
Units	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 22 outside control limits

RPD: 0 out of 11 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

Semivolatile Organics

Aqueous Surrogate Recovery Data

Sample Designation	Surrogate Recovery 2-Fluorophenol (200 ug Added)	Phenol-d_5 (200 ug Added)	2,4,6-Tribromophenol (200 ug Added)
Method Blank	47	37	121
A27821-2 Spike	45	41	53
A27821-2 Spike Dup.	66	62	64
A82414-1	31	26	106
A82414-2	29	26	91
A82414-3	33	28	112
Units	(%)	(%)	(%)
Control Limits	10-109	13-104	27-122

Sample Designation	Surrogate Recovery Nitrobenzene-d_5 (100 ug Added)	2-Fluorobiphenyl (100 ug Added)	Terphenyl-d_{14} (100 ug Added)
Method Blank	32	39	76
A27821-2 Spike	83	92	100
A27821-2 Spike Dup.	98	105	110
A82414-1	64	61	74
A82414-2	72	71	81
A82414-3	67	66	82
Units	(%)	(%)	(%)
Control Limits	23-103	27-114	32-116

__0__ out of __36__ surrogate recoveries are outside control limits.

VI. Quality Control Data (Cont'd)

AnalytiKEM

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A82414-2

Parameter	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	100	75	70	7	80-109	10
Arsenic ϕ	100	90	--	--	80-109	10
Barium	300	94	98	4	50-125	14
Cadmium	300	90	90	0	71-108	10
Chromium	300	91	93	2	73-109	10
Copper	300	100	102	2	74-107	14
Iron	300	101	108	7	69-112	10
Lead	300	88	89	1	69-107	10
Manganese	300	82	88	7	82-105	10
Mercury	20	113	109	4	75-125	20
Selenium	100	106	108	2	64-117	12
Silver	300	91	91	0	10-100	38
Zinc	300	91	92	1	70-105	10
Units	(ug)	(%)	(%)	(%)	(%)	(%)

ϕ Spiked performed on DI Water.

Recovery: 2 out of 25 outside control limits

RPD: 0 out of 12 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Nitrate-N	A82414-1	50	112	109	3	87-112	5
Sulfate	A82414-2	200	126	129	2	66-141	8
Chloride	A82414-3	50	101	101	0	68-128	9
Fluoride	A82414-3	25	88	92	4	63-135	7
Chemical Oxygen Demand	A27810-1	50	107	107	0	62-122	9
Biochemical Oxygen Demand	DI Water	200	88	90	2	68-109	5
Total Organic Carbon	A73750-1	10	114	114	0	49-158	36
Total Organic Halogen	A82409-1	10	91	92	1	64-128	36
Units		(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 16 outside control limits

RPD: 0 out of 8 outside control limits

AnalytiKEM An American NuKEM Company

10872

Chain-of-Custody Record

8244

Program Area: Drinking Water Wastewater (Groundwater) Solid and Hazardous Waste

Client: ENGINEERING TECTONICS **Sample Collector:** [illegible]

Project: AVERY CO. LANDFILL **AnalytiKEM Contact:** G. WHITMANN

Laboratory	Sales Office
2324 Vernsdale Road Rock Hill, South Carolina 29731 (803) 324-5310 Fax: (803) 324-8378	454 South Anderson Road BTC 532 Rock Hill, South Carolina 29730 (803) 329-9690 Fax: (803) 329-9689

ITEM NUMBER	SAMPLE DESIGNATION	DATE	TIME	MATRIX	Grab or Composite	40 ml vials	950 ml Org. Pres.	950 ml Unpres.	250 ml HNO_3	250 ml H_2SO_4	ml NaOH	ml HCL	500 ml Amber	500 ml Clear		PARAMETERS
	MW-1	1/6/92	1:05	H_2O	G	4	1	2	1	2			1	1		8270 8240 BOD COD
	MW 2		1:35			4	2	2	2	2			1	1		TOC TOX TDS NITRATE
	MW 3		2:05			4	2	2	2	2			1	1		SULFATE CHLORIDE FLUORIDE
																pH SPEC. COND. AR BA CD.
																CR CU FE MN Pb Hg
																SE Ag ZN

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-3	[signature]	Grady Lane	2-1-92	1215
2	1-3	Grady Lane	Daniel Pope	2-1-92	1530
3					
4					

REMARKS: ~~BOTTLE LABELS STATE 6/30~~ LIMITED SAMPLE ON MW-1 FOR SVOA
1.1 ppb ON MERCURY
5.0 ppb ON CADIMUM

SAMPLER'S SIGNATURE: [signature]

Reorder: PJ Associates 803-329-2300 White Laboratory Copy Yellow Client Copy AKEM #1 12/89