9-18-96

MEMO

DATE:

TO: ALEXANDER Co. 02-01

SUBJECT:

App I - 5-6/7-96

		ppb
MW-1	1,1-dichloroethane	- 16
MW-2	1,1-dichloroethane	- 11
	cis-1,2-dichloroethene	- 5
MW-3	benzene	- 9
	1,1-dichloroethane	- 9
	cis-1,2-dichloroethene	- 13
	toluene	- 8
	xylenes	- 34
MW-4R	chloroethane	- 13
	1,1-dichloroethane	- 13
	cis-1,2 dichloroethene	- 10
MW-5	1,1-dichloroethane	- 16
	Cr	- 143
	Pb	- 20
	Ni	- 118
MW-6	Hg	- 2

= 2L violation

From:

North Carolina Department of Environment, Health, and Natural Resources

Printed on Recycled Paper

02-01
5-6-96

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

P.O. Box 97, Garner, North Carolina 27529 (919)772-5393

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

P.O. Box 349, Boone, North Carolina 28607 (704)262-1767

August 23, 1996

Larry Rose
Solid Waste Section
Division of Solid Waste Management
State of North Carolina Department of Environment,
Health, and Natural Resources
P.O. Box 27687
Raleigh, NC 27611-7687

Re: Alexander County
Sanitary Landfill
Taylorsville, NC

Dear Mr. Rose:

Municipal Engineering Services Company, PA (MESCO) in Garner, North Carolina, has completed the water sampling and testing for the sanitary landfill in Taylorsville, North Carolina. Please find enclosed the potentiometric map, laboratory analysis, and field data for this site.

Due to dramatic changes in the topography during the working phase, surface water locations 1, 2, and 5 have been graded out. MESCO recommends permanent removal of these sampling locations.

Very truly yours,
MUNICIPAL ENGINEERING SERVICES COMPANY, PA

Sean M. McLean

Cheryl Marks
Manager, Groundwater Section

CM:lch

Enclosure

cc: Mr. Charles Mashburn, County Manager

TABLE 1
HYDROLOGIC PROPERTIES AT MONITORING WELL LOCATIONS

Monitoring Well	Permeability (cm/sec)	Total Porosity (%)	Effective Porosity (%)	Groundwater Flow Rate (ft/yr)	Groundwater Flow Direction
1	5.60E-05	37	1	232	S 5° W
1A	5.60E-06	37	15	3	N 23° E
2	3.70E-06	30	1	15	S 46° W
3	3.90E-06	30	1	20	N 53° W
4R	4.90E-04	37	15	203	S 16° W
5	6.40E-05	37	15	22	S 23° E
6	2.40E-05	30	1	50	S 53° E
7	1.60E-06	20	1	7	S 38° W
8	1.30E-05	37	1	81	S 62° W

GAI Consultants, Inc.
Job #: 0596-42601

GAI SAMPLE #: **MW1A**
REIC SAMPLE #: **42601-1**

DATE SAMPLED: **05-07-96**
MATRIX: **LIQUID**

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW1A
REIC SAMPLE #: 42601-1

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	108
toluene-d8	100
4-bromofluorobenzene	102

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW1A
REIC SAMPLE #: 42601-1

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	33	ug/l	7191	10	05-15-96/JH
cobalt	16	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	61	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW1
REIC SAMPLE #: 42601-2

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	16	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW1
REIC SAMPLE #: 42601-2

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	103
toluene-d8	101
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW1
REIC SAMPLE #: 42601-2

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	ND	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	50	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW2
REIC SAMPLE #: 42601-3

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	11	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	5	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW2
REIC SAMPLE #: 42601-3

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	105
toluene-d8	101
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW2
REIC SAMPLE #: 42601-3

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	133	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	73	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI Consultants, Inc.
Job #: 0596-42601

GAI SAMPLE #: MW3
REIC SAMPLE #: 42601-4

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
[redacted]	[redacted]	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	9 [redacted]	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	13 [redacted]	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW3
REIC SAMPLE #: 42601-4

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	8	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	34	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	105
toluene-d8	101
4-bromofluorobenzene	102

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW3
REIC SAMPLE #: 42601-4

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	21	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	72	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	ND	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW4R
REIC SAMPLE #: 42601-5

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	13	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	13	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	10	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW4R
REIC SAMPLE #: 42601-5

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	103
toluene-d8	101
4-bromofluorobenzene	99

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW4R
REIC SAMPLE #: 42601-5

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	3	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	278	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	55	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	62	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW5
REIC SAMPLE #: 42601-6

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	16	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW5
REIC SAMPLE #: 42601-6

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	102
toluene-d8	100
4-bromofluorobenzene	99

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW5
REIC SAMPLE #: 42601-6

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	4	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
[redacted]	[redacted]	ug/l	7191	10	05-15-96/JH
cobalt	157	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
[redacted]	[redacted]	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
[redacted]	[redacted]	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	112	ug/l	7911	40	05-14-96/JH
zinc	363	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW6
REIC SAMPLE #: 42601-7

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW6
REIC SAMPLE #: 42601-7

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	103
toluene-d8	101
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW6
REIC SAMPLE #: 42601-7

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	19	ug/l	7191	10	05-15-96/JH
cobalt	34	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
[redacted]	[redacted]	ug/l	7470A	1	05-17-96/MS
nickel	69	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	ND	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW7
REIC SAMPLE #: 42601-8

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-14-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-14-96/TL
benzene	ND	ug/l	8260A	5	05-14-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-14-96/TL
bromoform	ND	ug/l	8260A	5	05-14-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-14-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-14-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
chloroethane	ND	ug/l	8260A	10	05-14-96/TL
chloroform	ND	ug/l	8260A	5	05-14-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-14-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-14-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-14-96/TL
1,1-dichloroethane	26	ug/l	8260A	5	05-14-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-14-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-14-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW7
REIC SAMPLE #: 42601-8

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-14-96/TL
2-hexanone	ND	ug/l	8260A	50	05-14-96/TL
methyl bromide	ND	ug/l	8260A	10	05-14-96/TL
methyl chloride	ND	ug/l	8260A	10	05-14-96/TL
methylene bromide	ND	ug/l	8260A	10	05-14-96/TL
methylene chloride	ND	ug/l	8260A	10	05-14-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-14-96/TL
methyl iodide	ND	ug/l	8260A	10	05-14-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-14-96/TL
styrene	ND	ug/l	8260A	10	05-14-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-14-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-14-96/TL
toluene	ND	ug/l	8260A	5	05-14-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-14-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-14-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-14-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-14-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-14-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-14-96/TL
xylenes	ND	ug/l	8260A	5	05-14-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	105
toluene-d8	101
4-bromofluorobenzene	99

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW7
REIC SAMPLE #: 42601-8

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	ND	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	ND	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW8
REIC SAMPLE #: 42601-9

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-15-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-15-96/TL
benzene	ND	ug/l	8260A	5	05-15-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromoform	ND	ug/l	8260A	5	05-15-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-15-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-15-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
chloroethane	ND	ug/l	8260A	10	05-15-96/TL
chloroform	ND	ug/l	8260A	5	05-15-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-15-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-15-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-15-96/TL
1,1-dichloroethane	12	ug/l	8260A	5	05-15-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-15-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW8
REIC SAMPLE #: 42601-9

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-15-96/TL
2-hexanone	ND	ug/l	8260A	50	05-15-96/TL
methyl bromide	ND	ug/l	8260A	10	05-15-96/TL
methyl chloride	ND	ug/l	8260A	10	05-15-96/TL
methylene bromide	ND	ug/l	8260A	10	05-15-96/TL
methylene chloride	ND	ug/l	8260A	10	05-15-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-15-96/TL
methyl iodide	ND	ug/l	8260A	10	05-15-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-15-96/TL
styrene	ND	ug/l	8260A	10	05-15-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-15-96/TL
toluene	ND	ug/l	8260A	5	05-15-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-15-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-15-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-15-96/TL
xylenes	ND	ug/l	8260A	5	05-15-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	104
toluene-d8	101
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: MW8
REIC SAMPLE #: 42601-9

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	ND	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
[redacted]	[redacted]	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	ND	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: E. BLANK
REIC SAMPLE #: 42601-10

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-15-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-15-96/TL
benzene	ND	ug/l	8260A	5	05-15-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromoform	ND	ug/l	8260A	5	05-15-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-15-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-15-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
chloroethane	ND	ug/l	8260A	10	05-15-96/TL
chloroform	ND	ug/l	8260A	5	05-15-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-15-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-15-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-15-96/TL
1,1-dichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-15-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: E. BLANK
REIC SAMPLE #: 42601-10

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-15-96/TL
2-hexanone	ND	ug/l	8260A	50	05-15-96/TL
methyl bromide	ND	ug/l	8260A	10	05-15-96/TL
methyl chloride	ND	ug/l	8260A	10	05-15-96/TL
methylene bromide	ND	ug/l	8260A	10	05-15-96/TL
methylene chloride	ND	ug/l	8260A	10	05-15-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-15-96/TL
methyl iodide	ND	ug/l	8260A	10	05-15-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-15-96/TL
styrene	ND	ug/l	8260A	10	05-15-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-15-96/TL
toluene	ND	ug/l	8260A	5	05-15-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-15-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-15-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-15-96/TL
xylenes	ND	ug/l	8260A	5	05-15-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	104
toluene-d8	101
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: E. BLANK
REIC SAMPLE #: 42601-10

DATE SAMPLED: 05-07-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	ND	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	ND	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: SW-3
REIC SAMPLE #: 42601-11

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
acetone	ND	ug/l	8260A	100	05-15-96/TL
acrylonitrile	ND	ug/l	8260A	200	05-15-96/TL
benzene	ND	ug/l	8260A	5	05-15-96/TL
bromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromodichloromethane	ND	ug/l	8260A	5	05-15-96/TL
bromoform	ND	ug/l	8260A	5	05-15-96/TL
carbon disulfide	ND	ug/l	8260A	100	05-15-96/TL
carbon tetrachloride	ND	ug/l	8260A	10	05-15-96/TL
chlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
chloroethane	ND	ug/l	8260A	10	05-15-96/TL
chloroform	ND	ug/l	8260A	5	05-15-96/TL
dibromochloromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2-dibromo-3-chloropropane	ND	ug/l	8260A	25	05-15-96/TL
1,2-dibromoethane	ND	ug/l	8260A	5	05-15-96/TL
o-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
p-dichlorobenzene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,4-dichloro-2-butene	ND	ug/l	8260A	100	05-15-96/TL
1,1-dichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,2-dichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
cis-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trans-1,2-dichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
1,2-dichloropropane	ND	ug/l	8260A	5	05-15-96/TL
cis-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL
trans-1,3-dichloropropene	ND	ug/l	8260A	10	05-15-96/TL

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: SW-3
REIC SAMPLE #: 42601-11

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

VOLATILE ORGANIC COMPOUNDS (continued)

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
ethylbenzene	ND	ug/l	8260A	5	05-15-96/TL
2-hexanone	ND	ug/l	8260A	50	05-15-96/TL
methyl bromide	ND	ug/l	8260A	10	05-15-96/TL
methyl chloride	ND	ug/l	8260A	10	05-15-96/TL
methylene bromide	ND	ug/l	8260A	10	05-15-96/TL
methylene chloride	ND	ug/l	8260A	10	05-15-96/TL
methyl ethyl ketone	ND	ug/l	8260A	100	05-15-96/TL
methyl iodide	ND	ug/l	8260A	10	05-15-96/TL
4-methyl-2-pentanone	ND	ug/l	8260A	100	05-15-96/TL
styrene	ND	ug/l	8260A	10	05-15-96/TL
1,1,1,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2,2-tetrachloroethane	ND	ug/l	8260A	5	05-15-96/TL
tetrachloroethylene	ND	ug/l	8260A	5	05-15-96/TL
toluene	ND	ug/l	8260A	5	05-15-96/TL
1,1,1-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
1,1,2-trichloroethane	ND	ug/l	8260A	5	05-15-96/TL
trichloroethylene	ND	ug/l	8260A	5	05-15-96/TL
trichlorofluoromethane	ND	ug/l	8260A	5	05-15-96/TL
1,2,3-trichloropropane	ND	ug/l	8260A	15	05-15-96/TL
vinyl acetate	ND	ug/l	8260A	50	05-15-96/TL
vinyl chloride	ND	ug/l	8260A	10	05-15-96/TL
xylenes	ND	ug/l	8260A	5	05-15-96/TL

Surrogates	% Recovery
1,2-dichloroethane-d4	107
toluene-d8	102
4-bromofluorobenzene	100

ND - None Detected at PQL
PQL - Practical Quantitation Limit

GAI SAMPLE #: SW-3
REIC SAMPLE #: 42601-11

DATE SAMPLED: 05-06-96
MATRIX: LIQUID

TOTAL METALS

PARAMETER	RESULT	UNIT	METHOD	PQL	ANALYZED/BY
antimony	ND	ug/l	7041	30	05-14-96/MS
arsenic	ND	ug/l	7060A	10	05-14-96/MS
barium	ND	ug/l	6010A	500	05-14-96/KC
beryllium	ND	ug/l	7091	2	05-15-96/JH
cadmium	ND	ug/l	7131A	1	05-14-96/JH
chromium	ND	ug/l	7191	10	05-15-96/JH
cobalt	ND	ug/l	7201	10	05-20-96/JH
copper	ND	ug/l	6010A	200	05-14-96/KC
lead	ND	ug/l	7421	10	05-14-96/MS
mercury	ND	ug/l	7470A	1	05-17-96/MS
nickel	ND	ug/l	6010A	50	05-14-96/KC
selenium	ND	ug/l	7740	20	05-16-96/JH
silver	ND	ug/l	7761	10	05-20-96/JH
thallium	ND	ug/l	7841	10	05-15-96/MS
vanadium	ND	ug/l	7911	40	05-14-96/JH
zinc	55	ug/l	6010A	50	05-14-96/KC

ND - None Detected at PQL
PQL - Practical Quantitation Limit

DATE 5-24-96

APPROVED Claude Scott
Claude Scott

Ray Erickson

Sampling Field Data Sheet

GAI CONSULTANTS, INC.

5-6, 9/6

PROJECT: Alexander

SAMPLERS: CLM

FIELD DATA SHEET

MONITORING PT. NUMBER	SAMPLE NUMBER	DATE OF COLLECT.	TIME SAMPLED	SAMPLING PARAMETERS					WATER QUALITY PARAMETERS				
				DTH-G.W.	REF. PT.	VOL. PUR.	SAMP. TY	SAMP.DTH	pH	TEMP.	SP. COND		
MW-1		5-7-96	8:55	34.7	TofC	2½gal			7.8	14.1	68	Bailed Dry	
1A		5-7-96	9:05	46.85		2½gal			7.7	13.8	10	Bailed Dry	
2		5-6	12:35	21.0		2gal			6.1	18.5	85		
3		5-6	3:00	25.4		2½gal			6.5	18.2	521	Bailed Dry	
4R		5-6	3:00	15.48		5gal			7.8	23.3	243		
5		5-6	3:25	38.5		3½gal			7.7	26.0	179	Bailed Dry	
6		5-6	4:35	28.35		8gal			6.7	16.8	40		
7		5-6	4:15	36.0		7gal			7.1	17.7	460		
8		5-6	4:50	11.87		9gal			7.4	18.2	60		
* SW-1		5-6		Dry									
2		5-7		Dry									
3		5-6	3:16	—					7.3	22.7	46		
4		5-7		Dry									
5		5-7		Dry									
E Blank		5-7	8:45						—	—	—		

COMMENTS

* Drainage feature graded out

REIC Laboratory

225 Industrial Park Road
P O Box 286 Beaver WV 25813

Custody № 33128

CHAIN OF CUSTODY RECORD

Date: 5-8-96

Customer Name GAI Consultants NC Inc.

Address 3812-H Tar Heel Dr.
Raleigh, NC 27609

Person to Contact Wendell Parker Telephone (919) 878-4478

Billing Address as above

Sample Collection Information

Sampling Site Alexander LF State NC

Project # 94213.02 Sampler CLM

Date of Sample Shipment _____ How Shipped _____

SAMPLE LOG AND ANALYSES REQUEST

Turnaround Requirements
✓ Regular
___ Rush
___ FAX Results

Analysis Requested: Do Not Filter / Organics by 8260 / Test for EPA 7470

Sample ID	Containers # and Type	Date	Time	Matrix	Grab / Comp.	Do Not Filter	Organics by 8260	Test for EPA 7470	Remarks
MW1A	4 Vials, 2 Plastic	5-7	~~8:50~~ 9:05	Water	Grab				
1		5-7	8:55						
2		5-6	12:35						
3		5-6	3:50						
4R		5-6	3:00						
5		5-6	3:25						
6		5-6	4:35						
7		5-6	4:15						
8		5-6	4:50						
E. Blank		5-7	8:45						
SW-3		5-6	3:15						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Cheryl Marks	5-9-96	[signature]			

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Condition on Arrival:
		Juanita Ritter	5/10/96 @ 10:30	OK

Comments Appendix 1

Possible Interfering Compounds _____

Requested by _____

Research, Environmental and Industrial Consultants, Incorporated
P O Box 286 Beaver WV 25813 / 1-800-999-0105 or 304-255-2500 / FAX: 304-255-2572