Fac/Permit/Co ID # | Date | Doc ID#
60 | 6/21/95 | DIN

MONITORING WELL SAMPLING ACTIVITIES
SECOND HALF 1994

NORTH MECKLENBURG LANDFILL
15300 HOLBROOKS ROAD
HUNTERSVILLE, NORTH CAROLINA

PREPARED BY:

Carl H. Hewett
and
Ronald C. Gilkerson
Ecological Services, Inc.
P. O. Box 12146
Charlotte, North Carolina 28220

ESI Project No. ES-531

October 27, 1994

STATUS REPORT

Semi-annual monitoring well sampling activities were performed by Mr. Mike Magnetti of Ecological Services, Inc. (ESI) on September 12, 1994 on wells MW-1, MW-2, MW-3, MW-4, and MW-5. During the initial sampling event, monitoring well MW-2 was inaccessible due to the presence of surface water around the well casing. Monitoring well MW-10 was sampled in lieu of MW-2; however, in reporting the samples to the lab, the groundwater sample was mislabeled MW-2 instead of MW-10.

Laboratory results indicated the presence of acetone, 2-butanone, and toluene in MW-10 (MW-2). Since the detected constituents are commonly observed as laboratory contamination and no compounds had been detected in any previous sampling events, a confirmatory round of monitoring well sampling was scheduled. Monitoring well MW-10 was resampled on October 11, 1994, which included the collection of a field blank labeled MW-20.

No free product was noted in any of the monitoring wells. Hope not!

A site location map is included in Appendix A as Figure 1.

A summary of the monitoring well field parameters is included as Table 1. Results of EPA Method 8260 volatile organics analysis is provided as Table 2. A summary of inorganics analysis is included as Table 3. The tables are attached in Appendix B.

The laboratory analysis data sheets are included in Appendix C.

LABORATORY RESULTS

Laboratory analysis by EPA Method 8260 yielded the following results:

In the September 1994 sampling round

Chloroform was detected in monitoring well MW-1 at a concentration of 6 parts per billion (ppb). Acetone, 2-butanone, and toluene were detected in monitoring well MW-2 (actually MW-10) at concentrations of 190 ppb, 190 ppb, and 47 ppb, respectively. No other compounds were noted above their respective minimum laboratory detection limits.

In the October 1994 sampling round

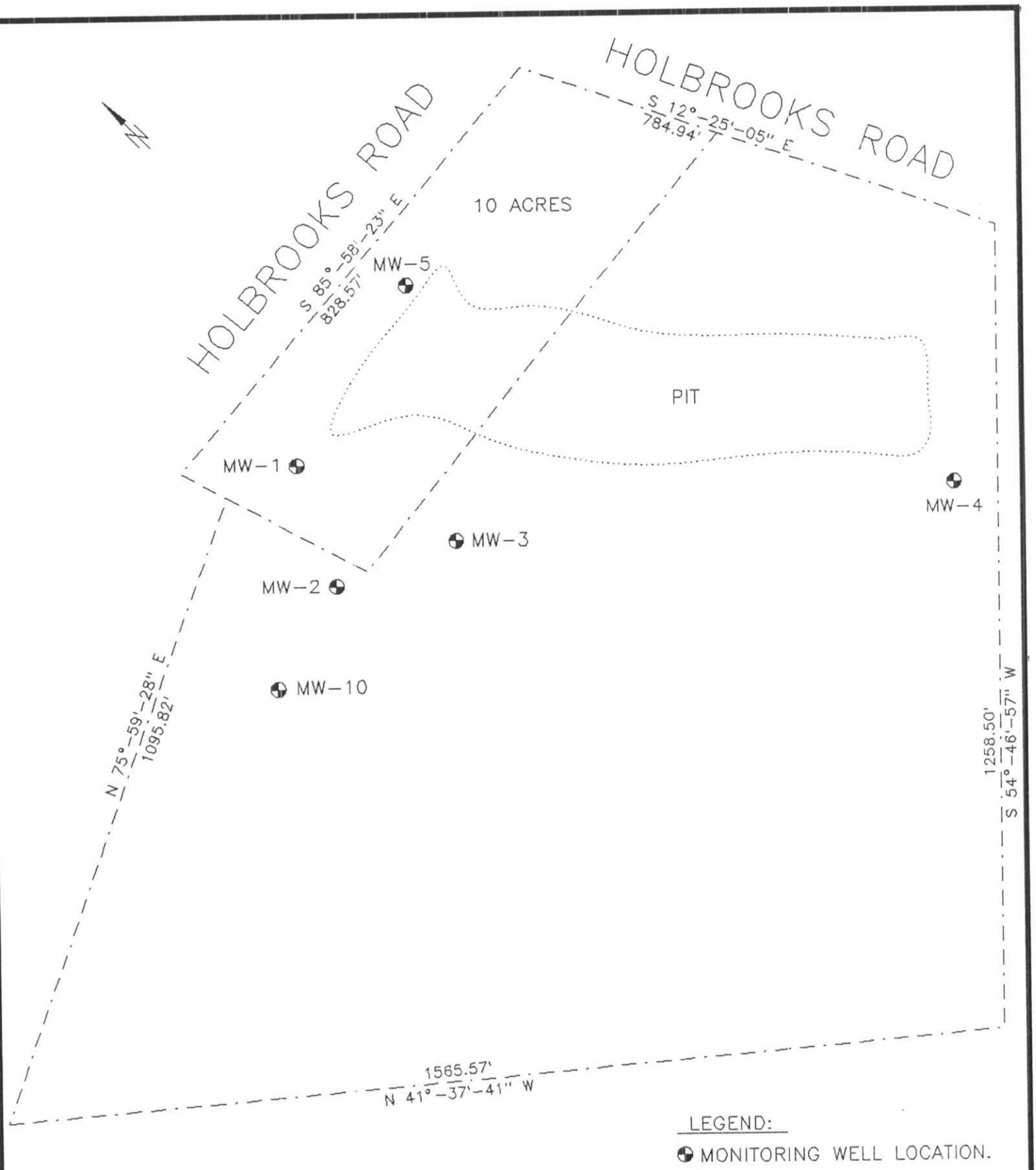
Toluene was detected in monitoring well MW-10 at a concentration of 9 ppb.

Laboratory analysis for the required inorganics yielded the following results:

The results of laboratory analysis for the required inorganics is provided in Table 3. Total lead concentrations exceed the North Carolina Department of Environment, Health and Natural Resources, Division of Environmental Management (NCDEM) groundwater standards in wells MW-3, MW-4, and MW-5.

APPENDIX A

Figure



SCALE: 1" = 200'
DWG. NO.: ES-531-2

ESI

FIGURE 1: SITE MAP
N. MECKLENBURG LANDFILL
HUNTERSVILLE, NC

APPENDIX B

Tables

TABLE 1
SUMMARY OF FIELD PARAMETERS
North Mecklenburg Landfill
Huntersville, North Carolina

Well ID	Depth to Water (ft)	pH	Temperature (oC)
MW-1	14.31	6	20
MW-10 (MW-2)	9.36	6	21
MW-3	16.93	6	19
MW-4	30.08	6	17
MW-5	26.41	6	27

Data collected on September 12, 1994.

TABLE 2
SUMMARY OF EPA 8260 ANALYSIS RESULTS
North Mecklenburg Landfill
Huntersville, North Carolina

Well ID	Chloroform (ppb)	Acetone (ppb)	2-Butanone (ppb)	Toluene (ppb)
NCDEM 2L QUALITY STANDARD	0.19	700	170	1000
Sampling event performed September 12, 1994				
MW-1	6	BDL	BDL	BDL
MW-10 (MW-2)	BDL	190	190	47
MW-3	BDL	BDL	BDL	BDL
MW-4	BDL	BDL	BDL	BDL
MW-5	BDL	BDL	BDL	BDL
Sampling event performed October 11, 1994				
MW-10	BDL	BDL	BDL	9
MW-20 (Field Blank)	BDL	BDL	BDL	BDL

BDL = Below Laboratory Detection Limits

ppb = Parts Per Billion

TABLE 3
SUMMARY OF INORGANICS ANALYSIS
North Mecklenburg Landfill
Huntersville, North Carolina

Constituent	MW-1	MW-10 (MW-2)	MW-3	MW-4	MW-5	NCDEM Standard
Antimony, total in gw	BDL	BDL	BDL	BDL	BDL	NE
Arsenic, total in gw	0.02	0.02	0.02	0.02	0.02	0.05
Barium, total in gw	0.06	0.07	0.03	0.02	0.11	2.0
Chromium, total in gw	BDL	BDL	BDL	BDL	BDL	0.05
Cobalt, total	BDL	BDL	BDL	BDL	BDL	NE
Copper, total in gw	0.020	0.050	0.020	0.020	BDL	1.0
Cadmium, total in gw	0.0042	0.002	BDL	0.002	0.005	0.005
Lead, total in gw	0.006	0.003	0.046	0.036	0.016	0.015
Selenium, total in gw	BDL	0.02	BDL	BDL	BDL	0.05
Nickel, total in gw	0.012	0.013	BDL	0.018	BDL	0.1
Thallium, total	BDL	BDL	BDL	BDL	BDL	NE
Zinc, total in gw	0.080	0.020	0.020	0.030	0.020	2.1
Vanadium, total	BDL	BDL	BDL	BDL	BDL	NE
Beryllium, total	BDL	BDL	BDL	BDL	BDL	NE
Silver, total in gw	BDL	BDL	BDL	BDL	BDL	0.18

BDL = Below Laboratory Detection Limits
NE = Not Established
gw = Groundwater

All data is listed is parts per billion (ppb).

APPENDIX C

Laboratory Analysis Data Sheets

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

September 29, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
920 Blairhill Road, Ste.106
Charlotte, NC 28220
Job# ES-531

Dear: Mr. Hewett:

Below are results of analysis of the sample received for examination on September 12, 1994:

Sample I.D. AA24277 Customer Code: ESI
Login Group #: 5283A5 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-1
Sample collection date: 09/12/94 Time: 12:25
Lab submittal date: 09/12/94 Time: 15:10

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
ANTIMONY, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
ARSENIC, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
BARIUM, TOTAL IN GROUNDWATER	mg/L	0.06	0.01
CHROMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.050
COBALT, TOTAL	mg/L	Less than	0.050
METALS DIGESTION METHOD 3030C		Completed	
COPPER, TOTAL IN GROUNDWATER	mg/L	0.020	0.020
CADMIUM, TOTAL IN GROUNDWATER	mg/L	.0042	0.002
LEAD, TOTAL IN GROUNDWATER	mg/L	0.006	0.002
SELENIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
NICKEL, TOTAL IN GROUNDWATER	mg/L	0.012	0.010
THALLIUM, TOTAL	mg/L	Less than	0.002
ZINC, TOTAL IN GROUNDWATER	mg/L	0.080	0.020
VANADIUM, TOTAL	mg/l	Less than	0.050
BERYLLIUM, TOTAL	mg/L	Less than	0.004
SILVER, TOTAL IN GROUNDWATER	mg/L	Less than	0.02
Multicomponent analysis: VOLATILE ORGANICS BY GCMS			
4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	6	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	Not detected	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

Sample comments:

Project Name: ES-531 (N. Meck)
AA24277
Method 8260 subcontracted to NC Certified Lab # 417.
Beryllium, cobalt, thallium and vanadium subcontracted to NC Certified Lab # 387.

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

September 29, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
920 Blairhill Road, Ste.106
Charlotte, NC 28220
Job# ES-531

Dear: Mr. Hewett:

Below are results of analysis of the sample received for examination on September 12, 1994:

Sample I.D. AA24278 Customer Code: ESI
Login Group #: 5283A5 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-2
Sample collection date: 09/12/94 Time: 12:45
Lab submittal date: 09/12/94 Time: 15:10

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
ANTIMONY, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
ARSENIC, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
BARIUM, TOTAL IN GROUNDWATER	mg/L	0.07	0.01
CHROMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.050
COBALT, TOTAL	mg/L	Less than	0.050
METALS DIGESTION METHOD 3030C		Completed	
COPPER, TOTAL IN GROUNDWATER	mg/L	0.050	0.020
CADMIUM, TOTAL IN GROUNDWATER	mg/L	.002	0.002
LEAD, TOTAL IN GROUNDWATER	mg/L	0.003	0.002
SELENIUM, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
NICKEL, TOTAL IN GROUNDWATER	mg/L	0.013	0.020
THALLIUM, TOTAL	mg/L	Less than	0.002
ZINC, TOTAL IN GROUNDWATER	mg/L	0.020	0.020
VANADIUM, TOTAL	mg/l	Less than	0.050
BERYLLIUM, TOTAL	mg/L	Less than	0.004
SILVER, TOTAL IN GROUNDWATER	mg/L	Less than	0.02

Multicomponent analysis: VOLATILE ORGANICS BY GCMS

4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	190	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	190	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	47	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

Sample comments:

Project Name: ES-531 (N. Meck)
AA24278
Method 8260 subcontracted to NC Certified Lab # 417.
Beryllium, cobalt, thallium and vanadium subcontracted to NC Certified Lab # 387.

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

September 29, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
920 Blairhill Road, Ste.106
Charlotte, NC 28220
Job# ES-531

Dear: Mr. Hewett:

Below are results of analysis of the sample received for examination on September 12, 1994:

Sample I.D. AA24279 Customer Code: ESI
Login Group #: 5283A5 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-3
Sample collection date: 09/12/94 Time: 12:35
Lab submittal date: 09/12/94 Time: 15:10

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
ANTIMONY, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
ARSENIC, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
BARIUM, TOTAL IN GROUNDWATER	mg/L	0.03	0.01
CHROMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.050
COBALT, TOTAL	mg/L	Less than	0.050
METALS DIGESTION METHOD 3030C		Completed	
COPPER, TOTAL IN GROUNDWATER	mg/L	0.020	0.020
CADMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.002
LEAD, TOTAL IN GROUNDWATER	mg/L	0.046	0.002
SELENIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
NICKEL, TOTAL IN GROUNDWATER	mg/L	Less than	0.020
THALLIUM, TOTAL	mg/L	Less than	0.002
ZINC, TOTAL IN GROUNDWATER	mg/L	0.020	0.020
VANADIUM, TOTAL	mg/l	Less than	0.050
BERYLLIUM, TOTAL	mg/L	Less than	0.004
SILVER, TOTAL IN GROUNDWATER	mg/L	Less than	0.02
Multicomponent analysis: VOLATILE ORGANICS BY GCMS			
4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	Not detected	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

Sample comments:

Project Name: ES-531 (N. Meck)
AA24279
Method 8260 subcontracted to NC Certified Lab # 417.
Beryllium, cobalt, thallium and vanadium subcontracted to NC Certified Lab # 387.

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

September 29, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
920 Blairhill Road, Ste.106
Charlotte, NC 28220
Job# ES-531

Dear: Mr. Hewett:

Below are results of analysis of the sample received for examination on September 12, 1994:

Sample I.D. AA24280 Customer Code: ESI
Login Group #: 5283A5 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-4
Sample collection date: 09/12/94 Time: 12:55
Lab submittal date: 09/12/94 Time: 15:10

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
ANTIMONY, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
ARSENIC, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
BARIUM, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
CHROMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.10
COBALT, TOTAL	mg/L	Less than	0.050
METALS DIGESTION METHOD 3030C		Completed	
COPPER, TOTAL IN GROUNDWATER	mg/L	0.020	0.002
CADMIUM, TOTAL IN GROUNDWATER	mg/L	.002	0.002
LEAD, TOTAL IN GROUNDWATER	mg/L	0.036	0.002
SELENIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
NICKEL, TOTAL IN GROUNDWATER	mg/L	0.018	0.002
THALLIUM, TOTAL	mg/L	Less than	0.01
ZINC, TOTAL IN GROUNDWATER	mg/L	0.030	0.020
VANADIUM, TOTAL	mg/l	Less than	0.050
BERYLLIUM, TOTAL	mg/L	Less than	0.004
SILVER, TOTAL IN GROUNDWATER	mg/L	Less than	0.02
Multicomponent analysis: VOLATILE ORGANICS BY GCMS			
4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	Not detected	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

Sample comments:

Project Name: ES-531 (N. Meck)
AA24280
Method 8260 subcontracted to NC Certified Lab # 417.
Beryllium, cobalt, thallium and vanadium subcontracted to NC Certified Lab # 387.

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

September 29, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
920 Blairhill Road, Ste.106
Charlotte, NC 28220
Job# ES-531

Dear: Mr. Hewett:

Below are results of analysis of the sample received for examination on September 12, 1994:

Sample I.D. AA24281 Customer Code: ESI
Login Group #: 5283A5 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-5
Sample collection date: 09/12/94 Time: 12:15
Lab submittal date: 09/12/94 Time: 15:10

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
ANTIMONY, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
ARSENIC, TOTAL IN GROUNDWATER	mg/L	0.02	0.01
BARIUM, TOTAL IN GROUNDWATER	mg/L	0.11	0.01
CHROMIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.10
COBALT, TOTAL	mg/L	Less than	0.050
METALS DIGESTION METHOD 3030C		Completed	
COPPER, TOTAL IN GROUNDWATER	mg/L	Less than	0.002
CADMIUM, TOTAL IN GROUNDWATER	mg/L	0.005	0.002
LEAD, TOTAL IN GROUNDWATER	mg/L	0.016	0.002
SELENIUM, TOTAL IN GROUNDWATER	mg/L	Less than	0.01
NICKEL, TOTAL IN GROUNDWATER	mg/L	Less than	0.002
THALLIUM, TOTAL	mg/L	Less than	0.01
ZINC, TOTAL IN GROUNDWATER	mg/L	0.020	0.020
VANADIUM, TOTAL	mg/l	Less than	0.050
BERYLLIUM, TOTAL	mg/L	Less than	0.004
SILVER, TOTAL IN GROUNDWATER	mg/L	Less than	0.02

Multicomponent analysis: VOLATILE ORGANICS BY GCMS

4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	Not detected	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

Sample comments:

Project Name: ES-531 (N. Meck)
AA24281
Method 8260 subcontracted to NC Certified lab # 417.
Beryllium, cobalt, thallium and vanadium subcontracted to NC Certified Lab # 387.

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

CHAIN OF CUSTODY RECORD

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES

Client: Ecological Services Inc.
Address: P.O. Box 12146
Charlotte NC. 28220
Phone: (704) 522-1111

Report To: Carl Hewett
Bill To: ESI
P.O.#/Billing Reference: P.O. Box 12146
Project Name: ES-531 (N. Mock)

Lab Location Requested for Certified Analysis: NC ✓ SC ___ Other ___
Water Chlorinated: Yes ___ No ✓ NA ___
Sample Iced Upon Collection: Yes ✓ No ___
Requested Due Date: Standard

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED: Total Recoverable metals *	ANALYSES REQUESTED: EPA Method 8260	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
MW-1	9/12 94	12:25	H_2O	P	1	Liter	HNO_3	✓	✓			24345
MW-1	9/12	12:25	H_2O	VOA	3	[redacted]	HCL		✓			↓
MW-2	9/12	12:15	H_2O	P	1	Liter	HNO_3	✓				24346
MW-2	9/12	12:45	H_2O	VOA	3		HCL		✓			↓
MW-3	9/12	12:35	H_2O	P	1	Liter	HNO_3	✓				24347
MW-3	9/12	12:35	H_2O	VOA	3		HCL		✓			↓
MW-4	9/12	12:55	H_2O	P	1	Liter	HNO_3	✓				24348
MW-4	9/12	12:55	H_2O	VOA	3		HCL		✓			↓
MW-5	9/12	12:15	H_2O	P	1	Liter	HNO_3	✓				24349
MW-5	9/12	12:20	H_2O	VOA	3		HCL		✓			↓

Sampler's Signature: Michael A. Magnetti Sampled By (Print Name): Michael A. Magnetti Affiliation: ESI

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Michael A. Magnetti			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: Crystal Hinton	Date 1/2/94	1510
Method of Shipment:		Date	

Additional Comments:
* antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc.

NPDES: NC ___ SC ___ OTHER ___ UST: NC ___ SC ___ OTHER ___ GROUNDWATER: NC ✓ SC ___ OTHER ___ DRINKING WATER: NC ___ SC ___ OTHER ___ SOLID WASTE: NC ___ SC ___ OTHER ___ OTHER: NC ___ SC ___ OTHER ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

October 21, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
P.O. Box 12146
Charlotte, NC 28220
Project: North Meck Landfil

Dear: Mr. Hewett:

Below are the results of analysis of 1 sample received for examination on October 11, 1994:

Sample I.D. AA25499 Customer Code: ESI
Login Group #: 5566A2 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-10
Sample collection date: 10/11/94 Time: 15:00
Lab submittal date: 10/11/94 Time: 15:53

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS			
4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5

Lab Report

October 21, 1994
Ecological Services, Inc. Sample I.D. AA2549[illegible]

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	9	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

The above analysis was subcontracted to NC Certified Laboratory ID No. 417.

Sample comments:

Project# ES-675
Project Name: North Meck. Landfill

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

October 21, 1994

Ecological Services, Inc.
Attn: Mr. Carl Hewett
P.O. Box 12146
Charlotte, NC 28220
Project: North Meck Landfil

Dear: Mr. Hewett:

Below are the results of analysis of 1 sample received for examination on October 11, 1994:

Sample I.D. AA25500 Customer Code: ESI
Login Group #: 5566A2 Prism Customer Number: 7005
Phone Number: 704-522-1111 Fax:704-521-8004
Customer Sample I.D#: MW-20
Sample collection date: 10/11/94 Time: 15:15
Lab submittal date: 10/11/94 Time: 15:53

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS			
4-CHLOROTOLUENE	ug/L	Not detected	5
4-METHYL-2-PENTANONE	ug/L	Not detected	50
ACETONE	ug/L	Not detected	100
ALLYL CHLORIDE	ug/L	Not detected	100
BENZENE	ug/L	Not detected	5
BROMOBENZENE	ug/L	Not detected	5
BROMOCHLOROMETHANE	ug/L	Not detected	5
BROMODICHLOROMETHANE	ug/L	Not detected	5
BROMOFORM	ug/L	Not detected	5
BROMOMETHANE	ug/L	Not detected	10
CARBON DISULFIDE	ug/L	Not detected	100
CARBON TETRACHLORIDE	ug/L	Not detected	5
CHLOROBENZENE	ug/L	Not detected	5
CHLOROETHANE	ug/L	Not detected	10
CHLOROFORM	ug/L	Not detected	5
CHLOROMETHANE	ug/L	Not detected	10
DIBROMOCHLOROMETHANE	ug/L	Not detected	5
DIBROMOMETHANE	ug/L	Not detected	5
DICHLORODIFLUOROMETHANE	ug/L	Not detected	5
DIETHYL ETHER	ug/L	Not detected	100
ETHYLBENZENE	ug/L	Not detected	5
HEXACHLOROBUTADIENE	ug/L	Not detected	5
HEXACHLOROETHANE	ug/L	Not detected	5
IODOMETHANE	ug/L	Not detected	5
ISOPROPYLBENZENE	ug/L	Not detected	5
METHYL TERT-BUTYL ETHER	ug/L	Not detected	5

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
METHYLENE CHLORIDE	ug/L	Not detected	5
NAPHTHALENE	ug/L	Not detected	5
PENTACHLOROETHANE	ug/L	Not detected	5
SEC-BUTYLBENZENE	ug/L	Not detected	5
STYRENE	ug/L	Not detected	5
1,1,1,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,1-TRICHLOROETHANE	ug/L	Not detected	5
1,1,2,2-TETRACHLOROETHANE	ug/L	Not detected	5
1,1,2-TRICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHANE	ug/L	Not detected	5
1,1-DICHLOROETHENE	ug/L	Not detected	5
1,1-DICHLOROPROPENE	ug/L	Not detected	5
1,2,3-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,3-TRICHLOROPROPANE	ug/L	Not detected	5
1,2,4-TRICHLOROBENZENE	ug/L	Not detected	5
1,2,4-TRIMETHYLBENZENE	ug/L	Not detected	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	Not detected	100
1,2-DIBROMOETHANE	ug/L	Not detected	5
1,2-DICHLOROBENZENE	ug/L	Not detected	5
1,2-DICHLOROETHANE	ug/L	Not detected	5
1,2-DICHLOROPROPANE	ug/L	Not detected	5
1,3,5-TRIMETHYLBENZENE	ug/L	Not detected	5
1,3-BUTADIENE	ug/L	Not detected	50
1,3-DIBROMOPROPANE	ug/L	Not detected	5
1,3-DICHLOROBENZENE	ug/L	Not detected	5
1,3-DICHLOROPROPANE	ug/L	Not detected	5
1,4-DICHLOROBENZENE	ug/L	Not detected	5
1-BROMO-3-CHLOROPROPANE	ug/L	Not detected	5
1-CHLOROBUTANE	ug/L	Not detected	5
2,2-DICHLOROPROPANE	ug/L	Not detected	5
2-BUTANONE	ug/L	Not detected	100
2-CHLOROETHYL VINYL ETHER	ug/L	Not detected	10
2-CHLOROTOLUENE	ug/L	Not detected	5
2-HEXANONE	ug/L	Not detected	50
2-NITROPROPANE	ug/L	Not detected	100
4-BROMOCHLOROBENZENE	ug/L	Not detected	5
TERT BUTYLBENZENE	ug/L	Not detected	5
TETRACHLOROETHENE	ug/L	Not detected	5
TOLUENE	ug/L	Not detected	5
TRICHLOROETHENE	ug/L	Not detected	5
TRICHLOROFLUOROMETHANE	ug/L	Not detected	5
VINYL ACETATE	ug/L	Not detected	50
VINYL CHLORIDE	ug/L	Not detected	10
CIS-1,2-DICHLOROETHENE	ug/L	Not detected	5
CIS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
m,p-XYLENES	ug/L	Not detected	5
n-BUTLYBENZENE	ug/L	Not detected	5
n-PROPYLBENZENE	ug/L	Not detected	5
o-XYLENE	ug/L	Not detected	5

Lab Report

October 21, 1994
Ecological Services, Inc. Sample I.D. AA25500 (continued)

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: VOLATILE ORGANICS BY GCMS (continued)			
p-ISOPROPYLTOLUENE	ug/L	Not detected	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not detected	5
TRANS-1,3-DICHLOROPROPENE	ug/L	Not detected	5
TRANS-1,4-DICHLORO-2-BUTENE	ug/L	Not detected	5

The above analysis was subcontracted to NC Certified Laboratory ID No. 417.

Sample comments:

Project# ES-675
Project Name: North Meck. Landfill

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Director

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES

Client ESI
Address P.O. Box 12146
Charlotte, N.C. 28220
Phone (704) 522-1111

Report To Carl Hewett
Bill To ESI
P.O.#/Billing Reference ~~ES-675~~ ES-675
Project Name North Meck. Landfill

Lab Location Requested for Certified Analysis NC ✓ SC ___ Other ___
Water Chlorinated Yes ___ No ✓ NA ___
Sample Iced Upon Collection Yes ✓ No ___
Requested Due Date Standard

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED 8260	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
MW-10	10/11/94	15:00	H_2O	VOA	3	VOA's	HCL	✓			35499
MW-20	10/11/94	15:15	H_2O	VOA	3	VOA's	HCL	✓			35500

Sampler's Signature Michael A. Magnetti Sampled By (Print Name) Michael A. Magnetti Affiliation ESI

Relinquished By: (Signature) Michael A. Magnetti	Received By: (Signature)	Date 10/11/94	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: Crystal Hudson	Date 10/11/94	15:53
Method of Shipment:		Date	

Additional Comments:

55606A2

NPDES: NC ___ SC ___ OTHER ___ UST: NC ___ SC ___ OTHER ___ GROUNDWATER: NC ✓ SC ___ OTHER ___ DRINKING WATER: NC ___ SC ___ OTHER ___ SOLID WASTE: NC ___ SC ___ OTHER ___ OTHER: NC ___ SC ___ OTHER ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap (VOA) = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

60-13 DEMO

ESI
ECOLOGICAL SERVICES, INC.

P.O. Box 12146, Charlotte, North Carolina 28220

Phone (704) 522-1111
Fax (704) 521-8004

NOV
RECEIVED
SWS-WSRO

November 1, 1994

Ms. Janis D. McHargue
Western Area Engineer
Solid Waste Section
Division of Solid Waste Management
North Carolina Department of Environment,
Health, and Natural Resources
8025 North Point Boulevard, Suite 100
Winston-Salem, North Carolina 27106

Jim Batteson:
I don't know why this came to me but I thought you might want to review it before routing it to Bobby or Mark —
Jan

Subject: Groundwater Sampling Results
North Mecklenburg Landfill
15300 Holbrooks Road
Huntersville, North Carolina

Dear Ms. McHargue:

Enclosed please find a Monitoring Well Sampling Activities Report for groundwater samples collected at the North Mecklenburg Landfill on September 12, 1994 and October 11, 1994.

If you have any questions, please do not hesitate to call me at 522-1111.

Sincerely,

ECOLOGICAL SERVICES, INC.

Paul A. Banks
Project Geologist

PAB:pjz
Enclosures