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PC	03,08,99	DIN

1998 SEMIANNUAL GROUNDWATER MONITORING REPORT

FOR

THE JACKSON COUNTY MUNICIPAL SOLID WASTE LANDFILL

Prepared for
JACKSON COUNTY MSWLF
Sylva, North Carolina

Prepared by
THE FLETCHER GROUP, INC.
Asheville, North Carolina

March 5, 1999

MAR 1999
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Solid Waste
Section

- Does the LF property + permitted boundary extend across the hwy and to the river? I don't thinks so.
- Contaminants are found in these wells.
- Also MW-1 (upgradient) has contaminants. Fractured rock? LF gas?

Investigation underway (3/99), should know more in 2-3 months.

NORTH CAROLINA PROFESSIONAL SEAL 20200 ENGINEER JAMES S. McELDUFF

3-5-99

James S. McElduff, P.E.
Project Engineer

NORTH CAROLINA LICENSED SEAL 1654 GEOLOGIST STUART A. RYMAN

Stuart A. Ryman, P.G.
Project Geologist

48 Patton Avenue, Suite 303, Asheville, North Carolina 28801 • (828) 281-3350 Fax (828) 281-3351

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March 5, 1999

Mr. Mark Poindexter
Department of Environment and Natural Resources
Division of Waste Management
401 Oberlin Road; Suite 150
Raleigh, North Carolina 27065

Subject: Jackson County Landfill
Semi-Annual Groundwater Report

Dear Mr. Poindexter:

The Semi-Annual Groundwater Monitoring Report is attached. Sampling was conducted on January 19 and 20, 1999.

Thank you for your assistance with this project.

Sincerely,

James S. McElduff, P.E.
Project Engineer

enclosure

cc: Mr. Jay Denton/Jackson County

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1.0 INTRODUCTION

The Jackson County Solid Waste Department maintains a closed landfill located approximately three quarters of a mile west of Dillsboro, North Carolina, north of Old Dillsboro Road (Old US 74). Entrance to the landfill is by State Road (SR) 1539. The site location is shown on Figure 1. The permit for the landfill requires semiannual monitoring of groundwater and surface water quality. This report serves as the first semiannual groundwater and surface water monitoring report for 1999 for the landfill. The data are being submitted in accordance with detection monitoring requirements for closed landfills as stipulated in the North Carolina Department of Environment and Natural Resources (DENR) Solid Waste Management Rules 15A North Carolina Administrative Code (NCAC) 13B. The data and report also comply with the subsequent memorandum regarding Appendix II monitoring from DENR, dated April 21, 1995. This report provides an evaluation of the groundwater and surface water quality. Statistical analyses of groundwater data and groundwater flow information are also provided for the landfill.

This report contains the following items:

- Water level measurements and elevations for the landfill monitoring wells;
- Surface water sampling locations;
- Groundwater and surface water quality analytical results with chain-of-custody forms;
- Field blank and laboratory blank analytical results;
- Summary of the statistical analyses of compounds detected during this sampling event;
- Map showing groundwater flow direction; and,
- Field data sampling logs.

2.0 SEMI-ANNUAL MONITORING

2.1 Groundwater and Surface Water Sampling

The Jackson County Landfill monitoring wells (MW-1 through MW-5) and the surface water sample locations (SW-1 and SW-2) were sampled by The Fletcher Group, Inc. on January 19 and 20, 1999. The monitoring well locations are shown on Figure 2. Surface water samples were collected where the property lines intersect the Tuckasegee River.

Prior to sampling the groundwater, static water level measurements were taken in each well from the referenced measuring point. Each well was sampled with a disposable bailer. Samples were obtained after a minimum of three well volumes had been purged and consistent pH, specific conductivity, and temperature readings had been collected. Purge water was collected and stored onsite in secure drums. A summary of water level measurements and field indicator parameters is included in Table 1. Copies of the Field Data Sampling Logs are included in Appendix A.

Groundwater and surface water samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) using US EPA Method 8260
- Semivolatile organic compounds (SVOCs) using EPA Method 8270
- Total metals using various EPA Methods 6000/7000.
- Polychlorinated biphenyls using EPA Method 8082
- Pesticides using 8081
- Herbicides using EPA Method 8151
- Sulfide using EPA Method 9030
- Cyanide using EPA Method 9010.

The samples were analyzed by Test America, Inc. (Test America), a North Carolina certified laboratory, in Asheville, North Carolina. Proper chain-of-custody documentation was followed during collection and transport of each sample.

2.2 Analytical Results

The laboratory analytical results are summarized in Tables 2, 3, 4, and 5. The Test America laboratory analytical reports and chain-of-custody forms are included in Appendix B.

Analytical results for the metals, cyanide, and sulfide analyses are shown in Table 2. These results show that the concentration of cadmium, lead, and mercury were found to be in excess of the 15A NCAC 2L Standards (2L Standards) in MW-5. All other metals detected in the monitoring wells and surface water samples were identified at concentrations less than the 2L Standards. Cyanide and sulfide were not detected in any of the samples.

The analytical results for organic compounds are shown in Tables 3, 4, and 5. Extractable organic compounds results are shown in Table 3. There were no detections of these compounds. Table 4 shows the VOC results. Five VOCs were found in excess of the 2L standards in MW-1. These compounds include benzene at a concentration of 6.8 μg/L, methylene chloride at a concentration of 88.7 μg/L, tetrachloroethene at a concentration of 3 μg/L, trichloroethene at a concentration of 3.2 μg/L, and vinyl chloride at a concentration of 2.3 μg/L. Two volatile organic compounds were found in excess of the 2L standards in MW-4. These compounds are benzene at a concentration of 2.6 μg/L and tetrachloroethene at a concentration of 3.6 μg/L. Benzene was the only organic compound found in excess of the 2L standards in MW-3 and MW-5. Pesticides, Polychlorinated biphenyls (PCBs), and herbicides were not detected in any of the samples. These results are shown in Table 5.

A field blank was prepared on January 19, 1999 at the operating landfill. Of the compounds analyzed, all were found to be nondetect in the field blank. A duplicate sample was collected on January 20, 1999 from MW-4. The results of the MW-4 duplicate (MW-4 Dup) sample are shown in Tables 2, 3, 4, and 5.

2.3 Hydrogeology

Groundwater at the landfill occurs under water table conditions in fractured bedrock near the top of the landfill along northern property boundary (MW-1) and in saprolite near the toe of the landfill in wells

MW-3, MW-4, and MW-5. Water level data collected from MW-1, MW-3 and MW-4 indicate that the predominant horizontal shallow (saprolite) groundwater flow direction is to the west toward the Tuckasegee River. Figure 3 depicts the estimated generalized groundwater flow direction based on the groundwater measurements made by The Fletcher Group on January 19 and 20, 1999. Using data from MW-1 and MW-3 the average horizontal flow gradient was calculated to be approximately 0.16 feet per foot (ft./ft.) in the eastern portion of the landfill. Data from MW-3 and MW-4 indicates that the average horizontal flow gradient flattens to 0.08 ft/ft in the western portion of the site. Data from well MW-5 could not be used in the calculation because the wellhead elevation is unknown.

The groundwater flow rate in saprolite was calculated using information from three sources: the hydraulic conductivity data reported by Law Engineering in 1994, the average hydraulic gradients discussed above, and an average effective porosity value for sand and silt mixtures of 30 to 35 percent. Using these data, the calculated groundwater flow rate in saprolite ranged from 170 to 200 feet/year (ft/yr) in the western portion of the site and 345 to 400 ft/yr in the eastern portion of the site. The groundwater flow rate calculations are summarized in Appendix C.

2.4 Statistical Analyses

The statistical testing procedure Analysis of Variance (ANOVA) was performed on all seven sampling locations. In accordance with the February 19, 1999 directions from Mr. Mark Poindexter of DENR, an analysis was conducted for each parameter detected during this sampling event. The statistical analysis utilized the ANOVA option (two-factor with replication) in the EXCEL 5.0 analysis tool-pack. The historic database on which this evaluation was based, was prepared by G.N. Richardson & Associates. Current data were added prior to the analysis. The database contains all analytical results known to The Fletcher Group.

The ideal set of wells, under the same groundwater quality conditions, would yield identical laboratory results. The ANOVA procedure takes into account the dissimilarity of one monitoring well from another, and the expectation that analytical results for each well will vary slightly due to the dissimilarities.

Two hypotheses are set:

- H_0: the variance among the group of monitoring wells is the same as the variance within each individual well (implies that contamination is unlikely).
- H_1: that a significant difference in the variance exists among the group of wells and each individual well (implies that contamination is possible).

Based on the results of computations, the H_0 hypothesis is either accepted or rejected. If the critical value of the variance (F_{crit}) is greater than expected, the H_0 hypothesis is accepted and the conclusion is that contamination is unlikely. Similarly, if F_{crit} is smaller than the expected value of the variance, then the H_0 hypothesis is rejected. H_1 is then accepted and the conclusion is that contamination is possible. All available laboratory analyses performed to date were taken into account. Non-detected observations were entered as one-half the Report Limit. A summary of the ANOVA statistical calculations is included in Table 7.

3.0 CONCLUSIONS

The semiannual groundwater monitoring was conducted in January 1999 at the Jackson County Landfill. The data summarized in Table 7 suggests that contamination is possible for two metals and ten organic compounds.

Metals

Barium and cobalt showed statistical evidence of contamination. However, review of the data from individual sampling locations (five monitoring wells and two surface water points) reveals that the detections of barium did not exceed the NCAC 15A 2L groundwater standard. No standard has been established for cobalt.

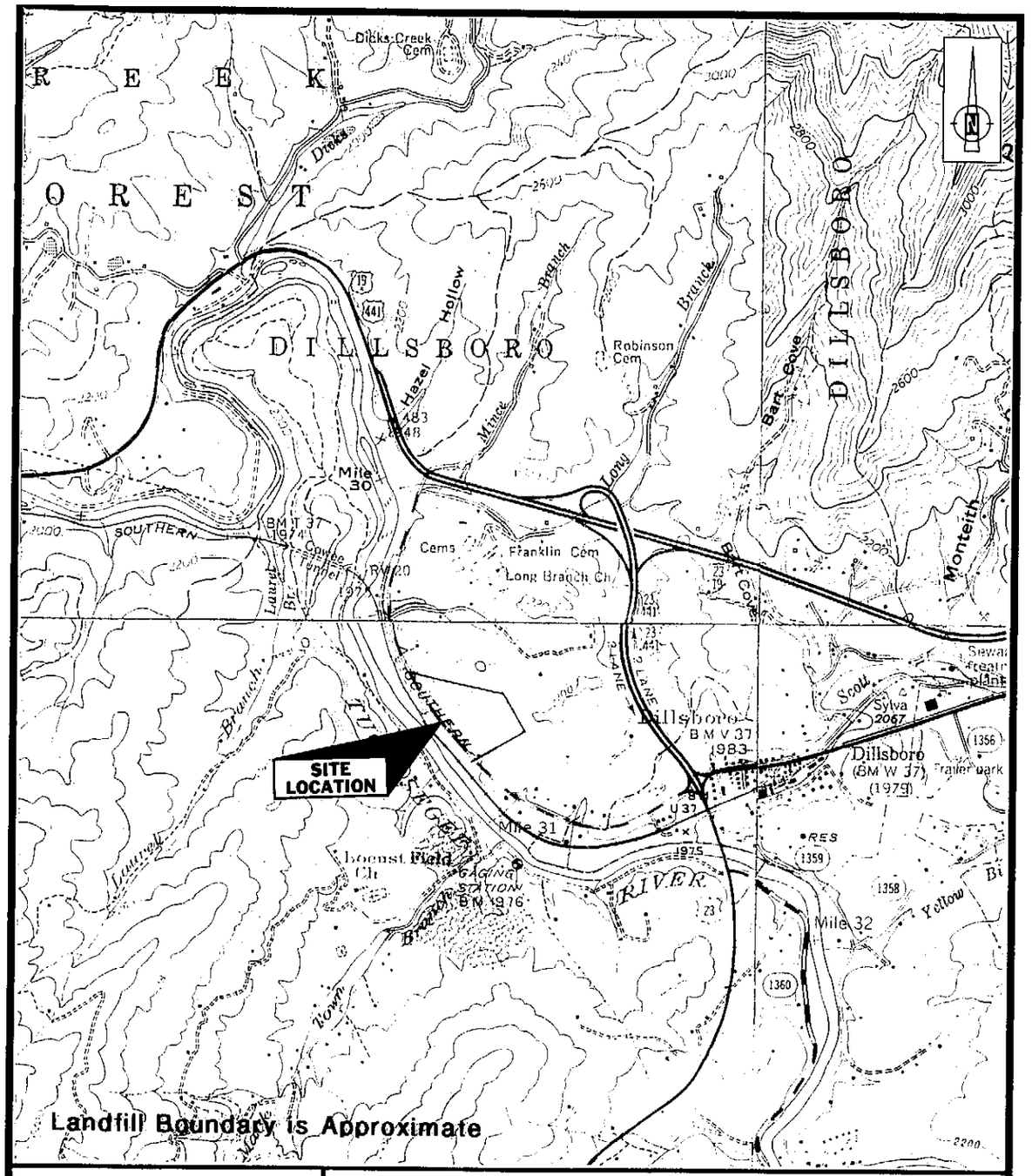
The sample collected from monitoring well MW-5 contained three metals (cadmium, lead, and mercury) with concentrations greater than the 2L Standard, but which, in the statistical analysis did not exceed the expected variance. None of the other sampling locations contained metals with exceedances of the 2L Standards.

Organic Compounds

Eight of the ten VOCs showing evidence of contamination were noted in the April 27, 1998 round of sampling that was reported by Mountain Geology, Inc. on October 30, 1998. Two VOCs reported to be statistically significant in October were not found to be in the current reporting period. A strict comparison of the two sampling events is not possible due to a difference in the compounds that were analyzed and the varying detection and reporting limits.

In addition to the metals and VOCs, Appendix II analytes include extracable organic compounds, several herbicides and pesticides, PCBs, sulfide, and cyanide. None of these compounds were detected at any sampling locations.

FIGURES

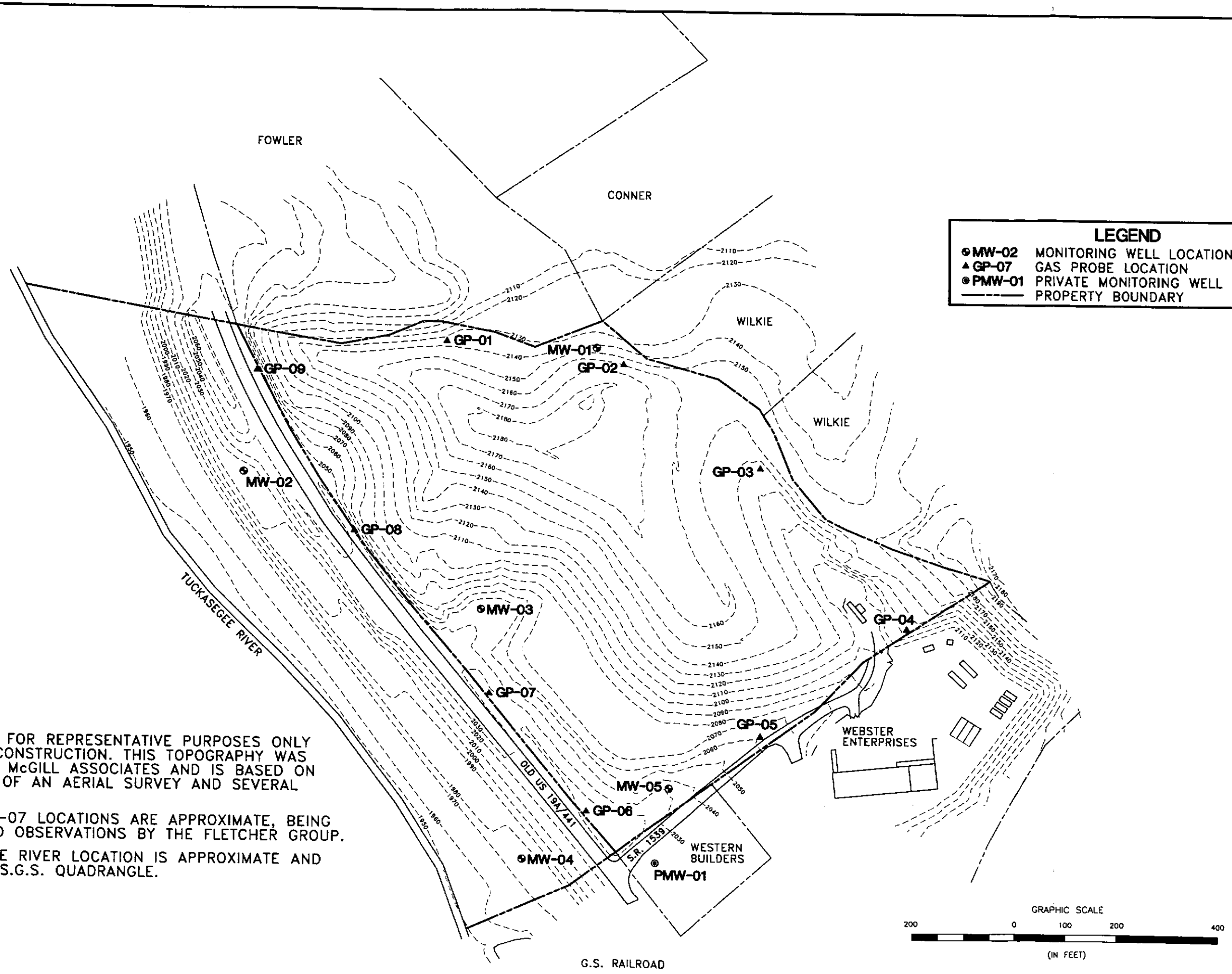


Approximate Scale:
1 in. = 2,000 ft.

February 10, 1999
THE FLETCHER GROUP, INC.
ASHEVILLE, NORTH CAROLINA

FIGURE 1

Site Location Map
Jackson County Landfill
Dillsboro, North Carolina



NOTES:

1. TOPOGRAPHY IS FOR REPRESENTATIVE PURPOSES ONLY AND NOT FOR CONSTRUCTION. THIS TOPOGRAPHY WAS OBTAINED FROM McGILL ASSOCIATES AND IS BASED ON A COMPILATION OF AN AERIAL SURVEY AND SEVERAL LAND SURVEYS.
2. GP-06 AND GP-07 LOCATIONS ARE APPROXIMATE, BEING BASED ON FIELD OBSERVATIONS BY THE FLETCHER GROUP.
3. THE TUCKASEGEE RIVER LOCATION IS APPROXIMATE AND BASED ON A U.S.G.S. QUADRANGLE.

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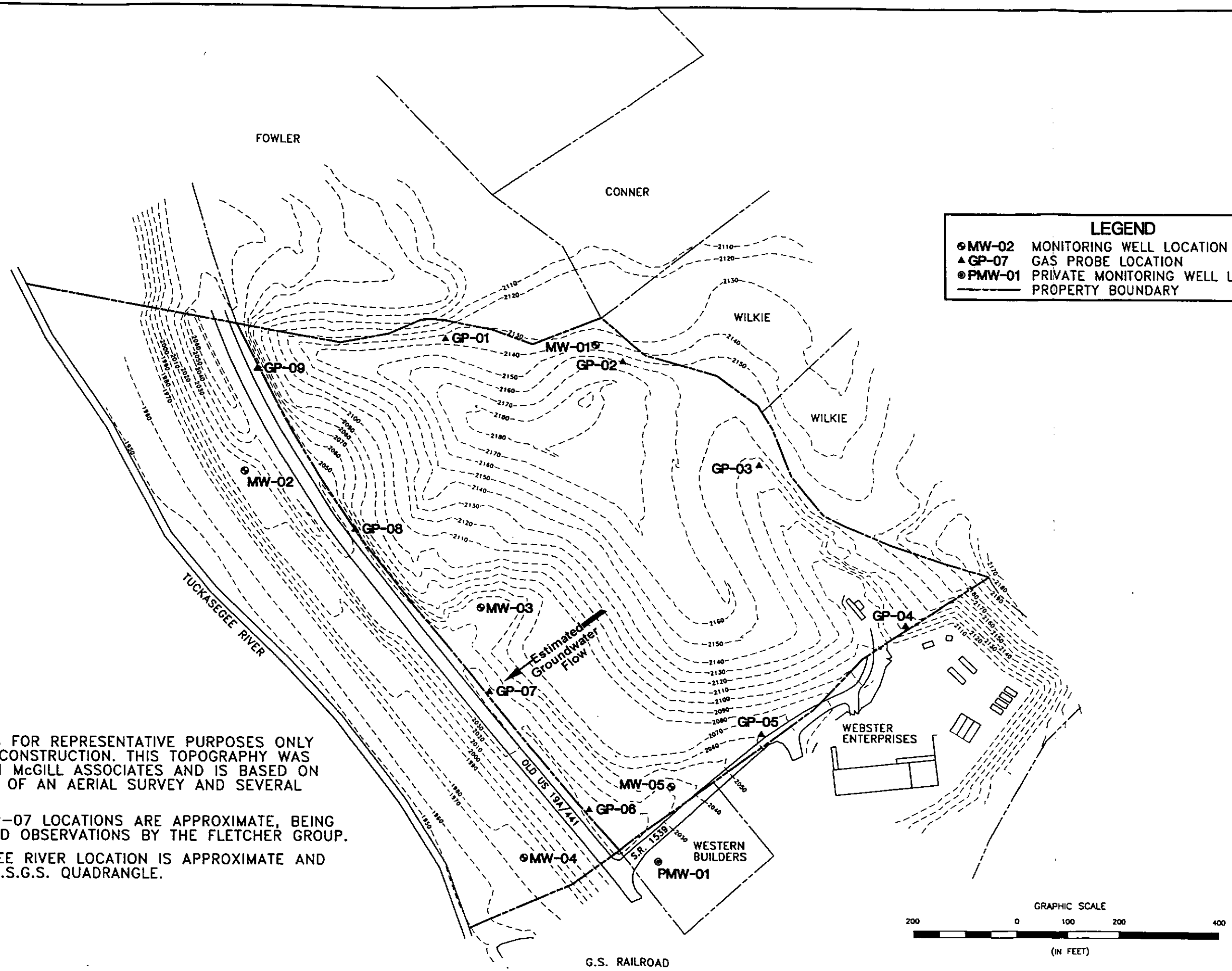
FIGURE 2
MONITORING WELL AND METHANE PROBE LOCATION MAP
JACKSON COUNTY LANDFILL



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3. THE TUCKASEGEE RIVER LOCATION IS APPROXIMATE AND BASED ON A U.S.G.S. QUADRANGLE.

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ASHEVILLE, NORTH CAROLINA

FIGURE 3
GROUNDWATER FLOW DIRECTION-JANUARY 19 AND 20, 1999
JACKSON COUNTY LANDFILL
JACKSON COUNTY, NORTH CAROLINA

DRAWN BY: JOHNC. PROJ MAN: CDE DATE: 02-11-99 CADD FILENAME: P:\OASHVIL\JACKSON CO.040\LANDFILL.01\204001F2.DWG

TABLES

TABLE 1

FIELD INDICATOR PARAMETERS
JACKSON COUNTY LANDFILL

January 19 and 20, 1999

JACKSON COUNTY, NORTH CAROLINA

Well ID	Sample Identification	Water Level Date	Water Level Depth (feet)	Date & Time Sample Collected	pH	Temperature (°C)	Specific Conductivity (µmhos/cm)
MW-1	011999-04	1-19-99	93.77	1-19-99 17:00	4.82	12.3	83
MW-2	011999-01	1-19-99	26.57	1-19-99 12:00	4.83	13.4	82
MW-3	011999-02	1-19-99	53.70	1-19-99 13:15	4.64	14.3	176
MW-4	012099-01	1-20-99	28.47	1-20-99 12:00	4.55	15.2	426
MW-5	011999-03	1-19-99	48.17	1-19-99 14:50	5.36	14.8	436

TABLE 2
METALS, CYANIDE, AND SULFIDE ANALYTICAL RESULTS

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	Detection Limit	NC 2L Standard	MW-1	MW-2	MW-3	MW-4	MW-4 Dup	MW-5	SW-1	SW-2
Arsenic	mg/L	0.003	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003
Beryllium	mg/L	0.001	NL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	0.001	0.005	0.003	<0.001	<0.001	<0.001	<0.001	0.02	<0.001	<0.001
Chromium	mg/L	0.005	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	0.048	<0.005	<0.005
Cobalt	mg/L	0.005	NL	0.064	0.026	<0.005	<0.005	<0.005	0.042	<0.005	<0.005
Lead	mg/L	0.003	0.015	<0.003	<0.003	<0.003	<0.003	<0.003	0.029	<0.003	<0.003
Mercury	mg/L	0.0002	0.0011	0.0003	0.0004	0.0003	0.0004	0.0005	0.0012	0.0003	<0.0002
Selenium	mg/L	0.003	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Silver	mg/L	0.001	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	mg/L	0.002	NL	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	mg/L	0.003	NL	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	<0.003
Barium	mg/L	0.005	2	0.083	0.034	0.084	1.02	0.96	0.61	0.037	0.018
Copper	mg/L	0.005	1	0.009	<0.005	<0.005	<0.005	<0.005	0.067	<0.005	<0.005
Nickel	mg/L	0.005	0.1	0.007	0.009	<0.005	0.006	0.006	0.048	<0.005	<0.005
Tin	mg/L	0.05	NL	<0.050	<0.050	0.98	0.83	0.78	17.04	<0.050	<0.050
Vanadium	mg/L	0.005	NL	<0.005	<0.005	<0.005	<0.005	<0.005	0.058	<0.005	<0.005
Zinc	mg/L	0.01	2.1	<0.010	0.073	0.022	0.074	0.056	0.27	<0.01	<0.010
Cyanide	mg/L	0.005	0.154	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulfide	mg/L	1	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
1. Shaded results indicate results in excess of the NC 2L Standard.
2. NL indicates the compound is not listed.
3. Duplicate sample = DupNL
4. miligrams per liter = mg/L

TABLE 3
APPENDIX II ANALYTICAL RESULTS
Extractable Organics

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC 2L	MW-1	MW-2	MW-3	MW-4	MW-4 Dup	MW-5	SW-1	SW-2
Acenaphthene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Acetylaminofluorene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Aminobiphenyl	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	µg/L	10	100	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzilate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	µg/L	10	0.1	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Diallate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	µg/L	20	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 3
APPENDIX II ANALYTICAL RESULTS
Extractable Organics

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC 2L	MW-1	MW-2	MW-3	MW-4	MW-4 Dup	MW-5	SW-1	SW-2
2,6-Dichlorophenol	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	µg/L	10	5000	ND	ND	ND	ND	ND	ND	ND	ND
Dimethoate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
p-Dimethylaminoazobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dimethylbenzidine	µg/L	20	NL	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a)anthrac	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butylphthalate	µg/L	10	700	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dinitrobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	µg/L	10	140	ND	ND	ND	ND	ND	ND	ND	ND
Diphenylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Disulfoton	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Famphur	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	µg/L	10	280	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	µg/L	10	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorophene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Isodrin	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 3
APPENDIX II ANALYTICAL RESULTS
Extractable Organics

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC 2L	MW-1	MW-2	MW-3	MW-4	MW-4 Dup	MW-5	SW-1	SW-2
Isosafrole	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methapyrilene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylcholanthrene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methylmethanesulfonate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
3 and 4-Methylphenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	µg/L	10	21	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Napthaquinone	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Napthylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
1-Napthylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
5-Nitro-o-toluidine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodibutylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiethylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-Di-n-Propylamine	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosomethylethylamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosopiperidine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosopyrrolidine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	µg/L	25	0.3	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 3
APPENDIX II ANALYTICAL RESULTS
Extractable Organics

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC 2L	MW-1	MW-2	MW-3	MW-4	MW-4 Dup	MW-5	SW-1	SW-2
Phenacetin	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	µg/L	10	210	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	µg/L	10	300	ND	ND	ND	ND	ND	ND	ND	ND
Phorate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pronamide	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Safrole	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Tetraehtyldithiopyrophosphate	µg/L	100	NL	ND	ND	ND	ND	ND	ND	ND	ND
Thionazine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
o-Toluidine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	µg/L	25	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
o,o,o-Triethylphosphorothio	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trinitrobenzene	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Ethylmethane sulfonate	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
p-Phenylenediamine	µg/L	50	NL	ND	ND	ND	ND	ND	ND	ND	ND
Parathion	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Kepone	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methylparathion	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 4
APPENDIX II ANALYTICAL RESULTS
Volatile Organics
Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC STANDARD	MW-1	MW-2	MW-3	MW-4	MW-4 Duplicate	MW-5	SW-1	SW-2
Acetone	µg/L	5	700	ND	ND	ND	ND	ND	ND	ND	ND
Acetonitrile	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Allyl chloride	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	1	1	6.8	ND	4.7	2.6	2.5	2.4	ND	ND
Bromochloromethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	1	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	µg/L	1	0.3	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	1	50	ND	ND	5.1	4.7	4.5	4.4	ND	ND
Chloroethane	µg/L	1	NL	14.4	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	1	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Chloroprene	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	µg/L	5	0.025	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichloro-2-butene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	1	NL	2.6	ND	4.6	6	5.7	13.2	ND	ND
Dichlorodifluoromethane	µg/L	1	1400	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	1	700	30	2.9	6.9	2.5	ND	2.7	ND	ND
1,2-Dichloroethane	µg/L	1	0.38	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 4
APPENDIX II ANALYTICAL RESULTS
Volatile Organics
Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC STANDARD	MW-1	MW-2	MW-3	MW-4	MW-4 Duplicate	MW-5	SW-1	SW-2
1,1-Dichloroethene	µg/L	1	7	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	1	70	6.8	ND	6.3	24.4	24.3	54.7	ND	ND
trans-1,2-Dichloroethene	µg/L	1	70	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	1	0.56	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	1	29	1.5	ND	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Isobutyl alcohol	µg/L	10	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methacrylonitrile	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	µg/L	5	5	68.7	ND	ND	ND	ND	ND	ND	ND
Propionitrile	µg/L	5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	1	100	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	1	0.7	3	ND	ND	3.6	3.1	ND	ND	ND
Toluene	µg/L	1	1000	3.1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	1	200	3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1	2.8	3.2	ND	ND	2.8	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes: 1. ND indicates a nondetection.
2. NL indicates the compound was not listed.
3. Duplicate sample = DupNL
4. micrograms per liter = µg/L

TABLE 4
APPENDIX II ANALYTICAL RESULTS
Volatile Organics

Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC STANDARD	MW-1	MW-2	MW-3	MW-4	MW-4 Duplicate	MW-5	SW-1	SW-2
1,2,3-Trichloropropane	ug/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ug/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	1	0.015	2.3	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	1	530	28.4	ND	ND	ND	ND	2.6	ND	ND
Bromodichloromethane	ug/L	1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ug/L	1	2100	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/L	0.02	0.0004	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ug/l	0.1	0.025	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/99 have slightly different reporting limits from samples collected on 1/19/99.

TABLE 5
APPENDIX II ANALYTICAL RESULTS
Pesticides, PCBs, and Herbicides
Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC STANDARD	MW-1	MW-2	MW-3	MW-4	MW-4 Duplicate	MW-5	SW-1	SW-2
2,4-D	µg/L	5	70	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP	µg/L	0.5	50	ND	ND	ND	ND	ND	ND	ND	ND
Dinoseb	µg/L	2.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	µg/L	1	0.3	NA	NA	NA	ND	ND	NA	ND	ND
Aldrin	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1016	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	µg/L	0.5	NL	ND	ND	ND	ND	ND	ND	ND	ND
a-BHC	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
d-BHC	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
g-BHC, Lindane	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane, Technical	µg/L	0.05	0.027	ND	ND	ND	NA	NA	ND	NA	NA
4,4'-DDD	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	µg/L	0.1	2	ND	ND	ND	ND	ND	ND	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes:
1. ND indicates a nondetection.
2. NA indicates the sample was not analyzed for the compound.
3. NL indicates the compound was not listed.
4. Duplicate sample = DupNL
5. micrograms per liter = µg/L

TABLE 5
APPENDIX II ANALYTICAL RESULTS
Pesticides, PCBs, and Herbicides
Jackson County Landfill
January 19 and 20, 1999

COMPOUND	UNITS	REPORT LIMIT	NC STANDARD	MW-1	MW-2	MW-3	MW-4	MW-4 Duplicate	MW-5	SW-1	SW-2
Endrin Aldehyde	µg/L	0.1	NL	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	µg/L	0.05	NL	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	µg/L	0.05	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	µg/L	0.1	35	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	µg/L	5	0.031	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlorodane	µg/L	0.05	NL	NA	NA	NA	ND	ND	NA	ND	ND
gamma-Chlorodane	µg/L	0.05	NL	NA	NA	NA	ND	ND	NA	ND	ND

Samples collected on 1/20/1999 have slightly different reporting limits from samples collected on 1/19/1999

Notes:
1. ND indicates a nondetection.
2. NA indicates the sample was not analyzed for the compound.
3. NL indicates the compound was not listed.
4. Duplicate sample = DupNL
5. micrograms per liter = µg/L

TABLE 6

MONITORING WELL AND WATER TABLE ELEVATIONS
JACKSON COUNTY LANDFILL

January 19 and 20, 1999

JACKSON COUNTY LANDFILL

Well No.	TOC Elevation	Depth to Water	Water Elevation (MSL)	Depth to Bedrock	Bedrock Elevation (MSL)	Screened Interval (MSL)
MW-1	2,174.40	93.77	2,080.63	83	2,091.4	2079.4 to 2064.4
MW-2	2,017.60	26.57	1,991.03	13	2,004.6	1972.6 to 1957.6
MW-3	2,045.51	53.70	1,991.81	57	1,988.5	1997.0 to 1982.0
MW-4	1,980.74	28.47	1952.27	Unknown	Unknown	1955.7 to 1940.7
MW-5	Unknown	48.17	Unknown	Unknown	Unknown	

Notes:
1. Top of Casing = TOC
2. Mean Sea Level = MSL
3. Well construction and boring log information are not contained in the Jackson County file.
4. TOC elevation, depth to bedrock, and screened interval taken from boring logs completed by S&ME (April 21, 22, 23, 1992).

TABLE 7

JACKSON COUNTY LANDFILL

SUMMARY OF STATISTICAL ANALYSIS

JANUARY 19 AND 20, 1999

Compound	Conclusion
1 1 1-trichloroethane	Contamination possible
1 1-dichloroethane	Contamination possible
1 4 dichlorobenzene	Contamination possible
Antimony	Contamination unlikely
Arsenic	Contamination unlikely
Barium	Contamination possible
Benzene	Contamination possible
Cadmium	Contamination unlikely
Chlororbenzene	Contamination possible
Chlorothane	Contamination possible
Chromium	Contamination unlikely
cis-1 2-dichloroethene	Contamination possible
Cobalt	Contamination possible
Copper	Contamination unlikely
Ethylbenzene	Contamination unlikely
Lead	Contamination unlikely
Mercury	Contamination unlikely
Methylene Chloride	Contamination possible
Nickel	Contamination unlikely
Tetrachloroethene	Contamination possible
Tin	Contamination unlikely
Toluene	Contamination unlikely
Trichloroethene	Contamination possible
Vanadium	Contamination unlikely
Vinyl chloride	Contamination unlikely
Xylenes	Contamination possible
Zinc	Contamination unlikely

APPENDICES

APPENDIX A

FIELD DATA SAMPLING LOGS

THE FLETCHER GROUP
850 SOUTH PLEASANTBURG DRIVE, SUITE 219, GREENVILLE, SOUTH CAROLINA 29607
POST OFFICE BOX 5988, GREENVILLE, SOUTH CAROLINA 29606
(803) 467-1281 FAX (803) 467-1283

WELL SAMPLING LOG

FACILITY NAME: Jackson County Landfill DATE: January 19, 1999
LOCATION: MW-1 at the Landfill SAMPLING TIME: 1700
SAMPLING PERSONNEL: Amani Ashy WEATHER: Clear, cool ~50°F

WELL NUMBER: MW-1
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
COMMENTS: Laboratory ID: 01999-04

WELL DEPTH: (WD) 112.75 DATE: 1-19-99
WATER LEVEL: (WL) 93.77 DATE: 1-19-99
LENGTH OF WATER COLUMN: (WD)-(WL) = (LWC) 18.98 FEET
1 CASING VOLUME: (LWC) x (WCV) ~3.2 GALLONS
3 CASING VOLUMES: ~9.5 GALLONS
ACTUAL VOL. PURGED: 11.0 GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC CONDUCTANCE umhos/cm	TEMPERATURE C°	COLOR	TURBIDITY	COMMENTS
1	9.5 gal	5.77	83	13.8	Orange	very slight	turbid
2	10	5.10	82	12.7	orange	"	
3	10.5	4.91	83	12.5	orange	"	
4	11	4.82	83	12.3	orange	"	
5							
6							
7							
8							
9							
10							

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS (filtered)	1L Plastic			CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS	1L Plastic
8260 Method				4							CN								1
8081 "							1				Sulfide						1		
8270 "							1												
8151 "							1												
8141 "							1												
6010 "								1											

PROTECTIVE CASING: yes PAD: yes LOCK: yes VEGETATION: COMMENTS:

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WELL SAMPLING LOG

FACILITY NAME: Jackson County Landfill DATE: January 19, 1999
LOCATION: MW-2 at the Landfill SAMPLING TIME: 1200
SAMPLING PERSONNEL: Amani Ashy WEATHER: Clear, cool ~50°F

WELL NUMBER: MW-2
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
COMMENTS: Laboratory ID: 011999-01

WELL DEPTH: (WD) 62.77' DATE: 1-19-99
WATER LEVEL: (WL) 26.57' DATE: 1-19-99
LENGTH OF WATER COLUMN: (WD)-(WL) = (LWC) 36.20' FEET
1 CASING VOLUME: (LWC) x (WCV) ~6.05 GALLONS
3 CASING VOLUMES: ~18 GALLONS
ACTUAL VOL. PURGED: 19 GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC CONDUCTANCE umhos/cm	TEMPERATURE C°	COLOR	TURBIDITY	COMMENTS
1	15 gal	6.18	95	13.0	clear	no	
2	17 gal	4.88	81	13.5	clear	no	
3	18 gal	4.76	81	13.5	clear	no	
4	18.5 gal	4.77	82	13.4	clear	no	
5	19 gal	4.83	82	13.4	clear	no	
6							
7							
8							
9							
10							

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS Vials	250 ml GLASS	500 ml GLASS	1 L GLASS Amber	1L Plastic
Method 8260				4				
Method 8081							1	
Method 8270							1	
Method 8151							1	
Method 8141							1	
Method 6010								1

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS	1L Plastic
CN Sulfide			1					

PROTECTIVE CASING: yes PAD: yes LOCK: yes VEGETATION: COMMENTS:

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POST OFFICE BOX 5988, GREENVILLE, SOUTH CAROLINA 29606
(803) 467-1281 FAX (803) 467-1283

WELL SAMPLING LOG

FACILITY NAME: Jackson County Landfill
DATE: January 19, 1999
LOCATION: MW-3 at the Landfill
SAMPLING TIME: 1315
SAMPLING PERSONNEL: Amani Ashy
WEATHER: clear, cool ~50°F

WELL NUMBER: MW-3
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
COMMENTS: Laboratory ID: 011999-02

WELL DEPTH: (WD) 62.50 DATE: 1-19-99
WATER LEVEL: (WL) 53.70 DATE: 1-19-99
LENGTH OF WATER COLUMN: (WD)-(WL) = (LWC) ~8.8' FEET
1 CASING VOLUME: (LWC) x (WCV) ~1.5 GALLONS
3 CASING VOLUMES: ~4.5 GALLONS
ACTUAL VOL. PURGED: 5.5 GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: ~~BAILER-TEFLON~~ BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:
SAMPLE METHOD: ~~BAILER-TEFLON~~ BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC CONDUCTANCE umhos/cm	TEMPERATURE C°	COLOR	TURBIDITY	COMMENTS
1	4 gal	5.23	174	17.2	Clear	no	
2	4.5 gal	4.73	177	14.8	Clear	no	
3	5 gal	4.65	177	14.4	Clear	no	
4	5.5 gal	4.64	176	14.3	Clear	no	
5							
6							
7							
8							
9							
10							

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS (Amber)	1L Plastic			CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS	1L Plastic		
Method 8260				4							CN								1		
Method 8081							1				Sulfide							1			
Method 8270							1														
Method 8151							1														
Method 6010								1													
Method 8141							1														

PROTECTIVE CASING: yes PAD: yes LOCK: yes VEGETATION: COMMENTS:

THE FLETCHER GROUP
850 SOUTH PLEASANTBURG DRIVE, SUITE 219, GREENVILLE, SOUTH CAROLINA 29607
POST OFFICE BOX 5988, GREENVILLE, SOUTH CAROLINA 29606
(803) 467-1281 FAX (803) 467-1283

WELL SAMPLING LOG

FACILITY NAME: Jackson County Landfill DATE: January 20, 1999
LOCATION: MW-4 at the Landfill SAMPLING TIME: 1200
SAMPLING PERSONNEL: Amani Ashy WEATHER: Clear to cloudy, cool ~37°

WELL NUMBER: MW-4
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
COMMENTS: Laboratory ID: 012099-01

WELL DEPTH: (WD) 42.60' DATE: 1-19-99
WATER LEVEL: (WL) 28.47' DATE: 1-19-99
LENGTH OF WATER COLUMN: (WD)-(WL) = (LWC) 14.13' FEET
1 CASING VOLUME: (LWC) x (WCV) 2.4 GALLONS
3 CASING VOLUMES: 7.0 GALLONS
ACTUAL VOL. PURGED: 8.5 GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC CONDUCTANCE umhos/cm	TEMPERATURE C°	COLOR	TURBIDITY	COMMENTS
1	7 gal	5.06	441	14.2	brown	slightly	
2	7.5	4.75	431	14.8	brown	slightly	
3	8	4.59	427	15.2	brown	slightly	
4	8.5	4.55	426	15.2	brown	slightly	
5							
6							
7							
8							
9							
10							

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS (HNO3)	1L PLASTIC			CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS	1L PLASTIC		
Method 8260				4							CN								1		
" 8081							1				Sulfide						1				
" 8270							1														
" 8151							1														
" 8141							1														
" 6010								1													

PROTECTIVE CASING: yes PAD: yes LOCK: yes VEGETATION: COMMENTS:

THE FLETCHER GROUP
850 SOUTH PLEASANTBURG DRIVE, SUITE 219, GREENVILLE, SOUTH CAROLINA 29607
POST OFFICE BOX 5988, GREENVILLE, SOUTH CAROLINA 29606
(803) 467-1281 FAX (803) 467-1283

WELL SAMPLING LOG

FACILITY NAME: Jackson County Landfill DATE: January 19, 1999
LOCATION: MW-5 at the Landfill SAMPLING TIME: 1450
SAMPLING PERSONNEL: Amani Ashy WEATHER: Clear, cool ~55°F

WELL NUMBER: MW-5
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
COMMENTS: Laboratory ID: 01499-03

WELL DEPTH: (WD) 59.92' DATE: 1-19-99
WATER LEVEL: (WL) 48.17' DATE: 1-19-99
LENGTH OF WATER COLUMN: (WD)-(WL) = (LWC) 11.75 FEET
1 CASING VOLUME: (LWC) x (WCV) ~2 GALLONS
3 CASING VOLUMES: ~6 GALLONS
ACTUAL VOL. PURGED: 6.5 GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP HOMELITE GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC CONDUCTANCE umhos/cm	TEMPERATURE C°	COLOR	TURBIDITY	COMMENTS
1	5 gal	5.56	430	18.4	Orange	Slightly	
2	5.5 gal	5.43	443	15.2	Orange	Slightly	
3	6 gal	5.34	444	15.0	Orange	Slightly	
4	6.5 gal	5.36	436	14.8	Orange	Slightly	
5							
6							
7							
8							
9							
10							

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS (Amber)	1L Plastic
Method 8260				4				
Method 8081							1	
Method 8270							1	
Method 8151							1	
Method 8141							1	
Method 6010								1

CONSTITUENTS SAMPLED	125 ml PLASTIC	250 ml PLASTIC	500 ml PLASTIC	40 ml GLASS	250 ml GLASS	500 ml GLASS	1 L GLASS (Amber)	1L Plastic
CN								1
Sulfide						1		

PROTECTIVE CASING: yes PAD: yes LOCK: yes VEGETATION: COMMENTS:

APPENDIX B

LABORATORY ANALYTICAL REPORTS

TestAmerica
INCORPORATED

RECEIVED
FEB 11

FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133015 SAMPLE ID- 011999-01
DATE SAMPLED- 01/19/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI
TIME RECEIVED- 0840 DELIVERED BY- AMANI

SAMPLE MATRIX- WW
TIME SAMPLED- 1200
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/25/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	0.026	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0004	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	01/29/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.034	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.009	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.050	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.073	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori J Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

TestAmerica
INCORPORATED

FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133016 SAMPLE ID- 011999-02
DATE SAMPLED- 01/19/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI
TIME RECEIVED- 0840 DELIVERED BY- AMANI

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/25/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0003	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	01/29/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.084	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.980	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.022	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR: Lori J Potter

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

TestAmerica
INCORPORATED

FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133017 SAMPLE ID- 011999-03
DATE SAMPLED- 01/19/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI
TIME RECEIVED- 0840 DELIVERED BY- AMANI

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/25/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	0.020	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	0.048	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	0.042	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	0.029	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0012	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	01/29/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.610	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.067	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.048	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/27/99	LJP	17.040	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	0.058	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.270	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

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INCORPORATED

FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133018 SAMPLE ID- 011999-04
DATE SAMPLED- 01/19/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI
TIME RECEIVED- 0840 DELIVERED BY- AMANI

SAMPLE MATRIX- WW
TIME SAMPLED- 1700
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/25/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	0.003	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	0.064	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0003	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	01/29/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.083	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.009	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.007	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.050	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.010	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

TESTAMERICA INC.

Samples UNIE

Page 1 of 1

Chain of Custody Record

☒ Asheville, NC (828) 254-5169 ☐ Norcross, GA (770) 368-0636 ☐ Charlotte, NC (704) 392-1164 ☐ Frankfort KY (502) 223-0251 ☐ Morrisville, NC (919) 380-9699

☐ Lumberton, NC (910) 738-6190 ☐ Lexington, SC (803) 796-8989 ☐ Brighton, CO (303) 659-0497 ☐ Macon, GA (912) 757-0811 ☐ Orlando, FL (407) 851-2560

Client: The Fletcher Group	Project No.: 2040.02
Report Address: 48 Patton Ave, Suite 303 Asheville, NC 28801	Invoice Address: 48 Patton Ave, Suite 303 Asheville, NC 28801
Attn: Stu Ryman	Attn: Stu. Ryman
Phone No.: (828) 281-3350	Sampled By: Amani Ashy
Fax No.: (828) 281-3351	P.O. No: —
	State Samples Collected NC

TURNAROUND TIME

☐ 24 Hours ☐ 48 Hours

☐ 5 Days ☐ 10 Days Date Needed:

REQUESTED PARAMETERS

LAB CODE I.D.

(A) = Asheville, NC
C = Charlotte, NC
D = Denver, CO
E = Lexington, SC
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Norcross, GA
O = Orlando, FL
S = Subcontracted

Sample ID	Date	Time	Comp/Grab	Matrix	Containers	Method 8081 ★	Method 8270 ★	Method 8151 ★	Method 8141 (or 8270) ★	Method 6010 (Metals) ★	Method for CN ★	Method for Sulfide ★	8260 ★			← Preserv.	REMARKS
011999-01	1/19/99	1200	Grab	GW	11	1	1	1	1	1	1	1	4				★ Please refer to
011999-02	1/19/99	1315	↓	GW	11	1	1	1	1	1	1	1	4				attached constituent
011999-03	1/19/99	1450	↓	GW	11	1	1	1	1	1	1	1	4				list for any
011999-04	1/19/99	1700	↓	GW	11	1	1	1	1	1	1	1	4				revised methods and/or
TRIP BLANK	1/19/99				3								3				special reporting
																	limits
																	[At Specialized Assays: talk
																	to Mary Louise]

Lab Use Only: Custody Seals ☐ Yes ☐ No ☒ N/A Init. Lab Temp Rec. Lab Temp

COMMENTS: Attn: Dinah Tramnell

Relinquished By:	Date 1/20/99 Time 8:40am	Received By:	Date 1/20/99 Time 0840	Lab Use Only	
Relinquished By:	Date Time	Received By:	Date Time		
Relinquished By:	Date Time	Received By:	Date Time		
Relinquished By:	Date Time	Received By:	Date Time		

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HYDROLOGIC, INC. 5781
LORI PATTTON
.O. BOX 18029
ASHEVILLE, NC 28814-0029

Lab Number: 99-A8222
Sample ID: 011999-01
Sample Type: Ground water
Site ID:

Date Collected: 1/19/99
Time Collected: 12:00
Date Received: 1/21/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: A.A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Anthracene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Chrysene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Diallate	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	12:53	M.Goodrich	8270C	9186
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8222
Sample ID: 011999-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Famphur	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Fluorene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Hexachlorobutadiene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Hexachloropropene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Isodrin	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Isophorone	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
3-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
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ANALYTICAL REPORT

Laboratory Number: 99-A8222
Sample ID: 011999-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Phenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Phorate	ND	ug/l	50.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Pronamide	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Pyrene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
Safrole	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Thionazine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:53	M.Goodrich	8270C	5054
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	5054
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
p-Phenylenediamine	ND	ug/l	50.	50.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Parathion	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Kepone	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	12:53	M.Goodrich	8270C	9186
VOLATILE ORGANICS										
Acetone	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Acetonitrile	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7639
Acrolein	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Acrylonitrile	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Allyl chloride	ND	ug/l	10	10	1	1/27/99	8:04	J.Haley	8260B	7639
Benzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Bromochloromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Bromoform	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Bromomethane	ND	ug/l	5	2	1	1/27/99	8:04	J.Haley	8260B	7635
2-Butanone	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Carbon disulfide	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Carbon tetrachloride	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Chlorobenzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Chloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Chloroform	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Chloromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Chloroprene	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7639
1,2-Dibromo-3-chloropropane	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A8222
Sample ID: 011999-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Dibromochloromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Dibromomethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,4-Dichloro-2-butene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,2-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,3-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,4-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Dichlorodifluoromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1-Dichloroethane	2.9	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,2-Dichloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1-Dichloroethene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
cis-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
trans-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,3-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
2,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
cis-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
trans-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Ethylbenzene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Ethyl methacrylate	ND	ug/l	10	10	1	1/27/99	8:04	J.Haley	8260B	7639
2-Hexanone	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Iodomethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Isobutyl alcohol	ND	ug/l	10	10	1	1/27/99	8:04	J.Haley	8260B	7639
Methacrylonitrile	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7639
Methyl methacrylate	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7639
4-Methyl-2-pentanone	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Methylene chloride	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7635
Propionitrile	ND	ug/l	5	5	1	1/27/99	8:04	J.Haley	8260B	7639
Styrene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Tetrachloroethene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Toluene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1,1-Trichloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,1,2-Trichloroethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Trichloroethene	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
1,2,3-Trichloropropane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Vinyl acetate	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Vinyl chloride	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Xylenes	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Bromodichloromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Trichlorofluoromethane	ND	ug/l	1	1	1	1/27/99	8:04	J.Haley	8260B	7635
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:44	Carmichael	504.1	3464
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:44	Carmichael	504.1	3464

PESTICIDES/PCB's/HERBICIDES

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8222
Sample ID: 011999-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2,4-D	ND	ug/l	5.00	5.00	1	1/28/99	14:42	Carmichael	8151A	6373
2,4,5-T	ND	ug/l	0.50	0.50	1	1/28/99	14:42	Carmichael	8151A	6373
2,4,5-TP	ND	ug/l	0.50	0.50	1	1/28/99	14:42	Carmichael	8151A	6373
Dinoseb	ND	ug/l	2.50	2.50	1	1/28/99	14:42	Carmichael	8151A	6373
Aldrin	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/27/99	3:54	M.Jones	8082	5778
a-BHC	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
b-BHC	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
d-BHC	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
Chlordane,Technical	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
4,4'DDT	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Dieldrin	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Endosulfan I	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
Endosulfan II	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Endrin	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Heptachlor	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/27/99	3:54	M.Jones	8081A	5778
Methoxychlor	ND	ug/l	0.10	0.10	1	1/27/99	3:54	M.Jones	8081A	5778
Toxaphene	ND	ug/l	5.00	5.00	1	1/27/99	3:54	M.Jones	8081A	5778

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/23/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/23/99	Fitzwater	3510
Pesticides	1000 ml	10.0 ml	1/25/99	M. Cauthen	3510

SPECIALIZED
ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8222
Sample ID: 011999-01

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	100.	60. - 138.
VOA Surrogate, Toluene d8	98.	80. - 123.
VOA Surrogate, 4-BromoFluorobenzene	102.	73. - 122.
surr-Nitrobenzene-d5	56.	15. - 105.
surr-2-Fluorobiphenyl	64.	17. - 110.
surr-Terphenyl d14	67.	10. - 116.
surr-Phenol d5	19.	10. - 100.
surr-2-Fluorophenol	27.	9. - 100.
surr-2,4,6-Tribromophenol	72.	15. - 134.
surr-TCMX	64.	20. - 122.
surr-Decachlorobiphenyl	30.	10. - 120.
surr-Dichlorophenylacetic acid	92.	20. - 130.

Report Approved By: T.J. Duello Report Date: 2/ 1/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HYDROLOGIC, INC. 5781
LORI PATTTON
P.O. BOX 18029
ASHEVILLE, NC 28814-0029

Lab Number: 99-A8223
Sample ID: 011999-02
Sample Type: Ground water
Site ID:

Date Collected: 1/19/99
Time Collected: 13:15
Date Received: 1/21/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: A.A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Anthracene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Chrysene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Diallate	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	13:29	M.Goodrich	8270C	9186
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054

COPY 1

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8223
Sample ID: 011999-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Famphur	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Fluorene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Hexachlorobutadiene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Hexachloropropene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Isodrin	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Isophorone	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
3-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8223
Sample ID: 011999-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Phenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Phorate	ND	ug/l	50.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Pronamide	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Pyrene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
Safrole	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Thionazine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:29	M.Goodrich	8270C	5054
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	5054
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
p-Phenylenediamine	ND	ug/l	50.	50.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Parathion	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Kepone	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	13:29	M.Goodrich	8270C	9186
VOLATILE ORGANICS										
Acetone	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Acetonitrile	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7639
Acrolein	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Acrylonitrile	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Allyl chloride	ND	ug/l	10	10	1	1/27/99	8:41	J.Haley	8260B	7639
Benzene	4.7	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Bromochloromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Bromoform	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Bromomethane	ND	ug/l	5	2	1	1/27/99	8:41	J.Haley	8260B	7635
2-Butanone	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Carbon disulfide	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Carbon tetrachloride	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Chlorobenzene	5.1	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Chloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Chloroform	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Chloromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Chloroprene	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7639
1,2-Dibromo-3-chloropropane	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635

SPECIALIZED
ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8223
Sample ID: 011999-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Dibromochloromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Dibromomethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,4-Dichloro-2-butene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,2-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,3-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,4-Dichlorobenzene	4.6	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Dichlorodifluoromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1-Dichloroethane	6.9	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,2-Dichloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1-Dichloroethene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
cis-1,2-Dichloroethene	6.3	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
trans-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,3-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
2,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
cis-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
trans-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Ethylbenzene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Ethyl methacrylate	ND	ug/l	10	10	1	1/27/99	8:41	J.Haley	8260B	7639
2-Hexanone	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Iodomethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Isobutyl alcohol	ND	ug/l	10	10	1	1/27/99	8:41	J.Haley	8260B	7639
Methacrylonitrile	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7639
Methyl methacrylate	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7639
4-Methyl-2-pentanone	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Methylene chloride	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7635
Propionitrile	ND	ug/l	5	5	1	1/27/99	8:41	J.Haley	8260B	7639
Styrene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Tetrachloroethene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Toluene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1,1-Trichloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,1,2-Trichloroethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Trichloroethene	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
1,2,3-Trichloropropane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Vinyl acetate	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Vinyl chloride	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Xylenes	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Bromodichloromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Trichlorofluoromethane	ND	ug/l	1	1	1	1/27/99	8:41	J.Haley	8260B	7635
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:44	Carmichael	504.1	3464
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:44	Carmichael	504.1	3464

PESTICIDES/PCB's/HERBICIDES

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8223
Sample ID: 011999-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2,4-D	ND	ug/l	5.00	5.00	1	1/28/99	15:09	Carmichael	8151A	6373
2,4,5-T	ND	ug/l	0.50	0.50	1	1/28/99	15:09	Carmichael	8151A	6373
2,4,5-TP	ND	ug/l	0.50	0.50	1	1/28/99	15:09	Carmichael	8151A	6373
Dinoseb	ND	ug/l	2.50	2.50	1	1/28/99	15:09	Carmichael	8151A	6373
Aldrin	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/27/99	4:26	M.Jones	8082	5778
a-BHC	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
b-BHC	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
d-BHC	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
Chlordane,Technical	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
4,4'DDT	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Dieldrin	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Endosulfan I	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
Endosulfan II	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Endrin	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Heptachlor	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/27/99	4:26	M.Jones	8081A	5778
Methoxychlor	ND	ug/l	0.10	0.10	1	1/27/99	4:26	M.Jones	8081A	5778
Toxaphene	ND	ug/l	5.00	5.00	1	1/27/99	4:26	M.Jones	8081A	5778

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/23/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/23/99	Fitzwater	3510
Pesticides	1000 ml	10.0 ml	1/25/99	M. Cauthen	3510

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8223
Sample ID: 011999-02

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	97.	60. - 138.
VOA Surrogate, Toluene d8	100.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	101.	73. - 122.
surr-Nitrobenzene-d5	64.	15. - 105.
surr-2-Fluorobiphenyl	69.	17. - 110.
surr-Terphenyl d14	58.	10. - 116.
surr-Phenol d5	19.	10. - 100.
surr-2-Fluorophenol	27.	9. - 100.
surr-2,4,6-Tribromophenol	61.	15. - 134.
surr-TCMX	110.	20. - 122.
surr-Decachlorobiphenyl	20.	10. - 120.
surr-Dichlorophenylacetic acid	88.	20. - 130.

Report Approved By: _____ Report Date: 2/ 1/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HYDROLOGIC, INC. 5781
LORI PATTTON
P.O. BOX 18029
ASHEVILLE, NC 28814-0029

Lab Number: 99-A8224
Sample ID: 011999-03
Sample Type: Ground water
Site ID:

Date Collected: 1/19/99
Time Collected: 14:50
Date Received: 1/21/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: A.A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Anthracene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Chrysene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Diallate	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	14:05	M.Goodrich	8270C	9186
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8224
Sample ID: 011999-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Famphur	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Fluorene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Hexachlorobutadiene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Hexachloropropene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Isodrin	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Isophorone	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
3-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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ANALYTICAL REPORT

Laboratory Number: 99-A8224
Sample ID: 011999-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Phenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Phorate	ND	ug/l	50.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Pronamide	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Pyrene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
Safrole	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Thionazine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	14:05	M.Goodrich	8270C	5054
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	5054
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
p-Phenylenediamine	ND	ug/l	50.	50.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Parathion	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Kepone	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	14:05	M.Goodrich	8270C	9186
VOLATILE ORGANICS										
Acetone	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Acetonitrile	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7639
Acrolein	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Acrylonitrile	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Allyl chloride	ND	ug/l	10	10	1	1/27/99	9:17	J.Haley	8260B	7639
Benzene	2.4	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Bromochloromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Bromoform	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Bromomethane	ND	ug/l	5	2	1	1/27/99	9:17	J.Haley	8260B	7635
2-Butanone	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Carbon disulfide	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Carbon tetrachloride	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Chlorobenzene	4.4	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Chloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Chloroform	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Chloromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Chloroprene	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7639
1,2-Dibromo-3-chloropropane	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8224
Sample ID: 011999-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Dibromochloromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Dibromomethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,4-Dichloro-2-butene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,2-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,3-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,4-Dichlorobenzene	13.2	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Dichlorodifluoromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1-Dichloroethane	2.7	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,2-Dichloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1-Dichloroethene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
cis-1,2-Dichloroethene	54.7	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
trans-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,3-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
2,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
cis-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
trans-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Ethylbenzene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Ethyl methacrylate	ND	ug/l	10	10	1	1/27/99	9:17	J.Haley	8260B	7639
2-Hexanone	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Iodomethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Isobutyl alcohol	ND	ug/l	10	10	1	1/27/99	9:17	J.Haley	8260B	7639
Methacrylonitrile	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7639
Methyl methacrylate	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7639
4-Methyl-2-pentanone	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Methylene chloride	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7635
Propionitrile	ND	ug/l	5	5	1	1/27/99	9:17	J.Haley	8260B	7639
Styrene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Tetrachloroethene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Toluene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1,1-Trichloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,1,2-Trichloroethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Trichloroethene	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
1,2,3-Trichloropropane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Vinyl acetate	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Vinyl chloride	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Xylenes	2.6	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Bromodichloromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Trichlorofluoromethane	ND	ug/l	1	1	1	1/27/99	9:17	J.Haley	8260B	7635
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:44	Carmichael	504.1	3464
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:44	Carmichael	504.1	3464

PESTICIDES/PCB's/HERBICIDES

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8224
Sample ID: 011999-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2,4-D	ND	ug/l	5.00	5.00	1	1/28/99	16:04	Carmichael	8151A	6373
2,4,5-T	ND	ug/l	0.50	0.50	1	1/28/99	16:04	Carmichael	8151A	6373
2,4,5-TP	ND	ug/l	0.50	0.50	1	1/28/99	16:04	Carmichael	8151A	6373
Dinoseb	ND	ug/l	2.50	2.50	1	1/28/99	16:04	Carmichael	8151A	6373
Aldrin	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/27/99	5:00	M.Jones	8082	5778
a-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
b-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
d-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
Chlordane,Technical	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
4,4'DDT	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Dieldrin	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Endosulfan I	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
Endosulfan II	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Endrin	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Heptachlor	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/27/99	5:00	M.Jones	8081A	5778
Methoxychlor	ND	ug/l	0.10	0.10	1	1/27/99	5:00	M.Jones	8081A	5778
Toxaphene	ND	ug/l	5.00	5.00	1	1/27/99	5:00	M.Jones	8081A	5778

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/23/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/23/99	Fitzwater	3510
Pesticides	1000 ml	10.0 ml	1/25/99	M. Cauthen	3510

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8224
Sample ID: 011999-03

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	99.	60. - 138.
VOA Surrogate, Toluene d8	98.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	103.	73. - 122.
surr-Nitrobenzene-d5	64.	15. - 105.
surr-2-Fluorobiphenyl	73.	17. - 110.
surr-Terphenyl d14	55.	10. - 116.
surr-Phenol d5	21.	10. - 100.
surr-2-Fluorophenol	33.	9. - 100.
surr-2,4,6-Tribromophenol	82.	15. - 134.
surr-TCMX	90.	20. - 122.
surr-Decachlorobiphenyl	44.	10. - 120.
surr-Dichlorophenylacetic acid	96.	20. - 130.

Report Approved By: T. J. Duello Report Date: 2/ 1/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HYDROLOGIC, INC. 5781
ORI PATTTON
.O. BOX 18029
ASHEVILLE, NC 28814-0029

Lab Number: 99-A8225
Sample ID: 011999-04
Sample Type: Ground water
Site ID:

Date Collected: 1/19/99
Time Collected: 17:00
Date Received: 1/21/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: A.A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Anthracene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Chrysene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Diallate	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	14:42	M.Goodrich	8270C	9186
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054

COPY 1

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ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8225
Sample ID: 011999-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Famphur	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Fluorene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Hexachlorobutadiene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Hexachloropropene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Isodrin	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Isophorone	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
3-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8225
Sample ID: 011999-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Phenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Phorate	ND	ug/l	50.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Pronamide	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Pyrene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
Safrole	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Thionazine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	14:42	M.Goodrich	8270C	5054
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	5054
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
p-Phenylenediamine	ND	ug/l	50.	50.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Parathion	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Kepone	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	14:42	M.Goodrich	8270C	9186
VOLATILE ORGANICS										
Acetone	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Acetonitrile	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7639
Acrolein	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Acrylonitrile	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Allyl chloride	ND	ug/l	10	10	1	1/27/99	9:55	J.Haley	8260B	7639
Benzene	6.8	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Bromochloromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Bromoform	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Bromomethane	ND	ug/l	5	2	1	1/27/99	9:55	J.Haley	8260B	7635
2-Butanone	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Carbon disulfide	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Carbon tetrachloride	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Chlorobenzene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Chloroethane	14.4	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Chloroform	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Chloromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Chloroprene	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7639
1,2-Dibromo-3-chloropropane	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8225
Sample ID: 011999-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Dibromochloromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Dibromomethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,4-Dichloro-2-butene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,2-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,3-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,4-Dichlorobenzene	2.6	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Dichlorodifluoromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1-Dichloroethane	30	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,2-Dichloroethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1-Dichloroethene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
cis-1,2-Dichloroethene	6.8	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
trans-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,3-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
2,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
cis-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
trans-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Ethylbenzene	1.5	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Ethyl methacrylate	ND	ug/l	10	10	1	1/27/99	9:55	J.Haley	8260B	7639
2-Hexanone	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Iodomethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Isobutyl alcohol	ND	ug/l	10	10	1	1/27/99	9:55	J.Haley	8260B	7639
Methacrylonitrile	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7639
Methyl methacrylate	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7639
4-Methyl-2-pentanone	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Methylene chloride	88.7	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7635
Propionitrile	ND	ug/l	5	5	1	1/27/99	9:55	J.Haley	8260B	7639
Styrene	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Tetrachloroethene	3	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Toluene	3.1	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1,1-Trichloroethane	3	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,1,2-Trichloroethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Trichloroethene	3.2	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
1,2,3-Trichloropropane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Vinyl acetate	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Vinyl chloride	2.3	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Xylenes	28.4	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Bromodichloromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Trichlorofluoromethane	ND	ug/l	1	1	1	1/27/99	9:55	J.Haley	8260B	7635
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:44	Carmichael	504.1	3464
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:44	Carmichael	504.1	3464

PESTICIDES/PCB's/HERBICIDES

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8225
Sample ID: 011999-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2,4-D	ND	ug/l	5.00	5.00	1	1/28/99	16:31	Carmichael	8151A	6373
2,4,5-T	ND	ug/l	0.50	0.50	1	1/28/99	16:31	Carmichael	8151A	6373
2,4,5-TP	ND	ug/l	0.50	0.50	1	1/28/99	16:31	Carmichael	8151A	6373
Dinoseb	ND	ug/l	2.50	2.50	1	1/28/99	16:31	Carmichael	8151A	6373
Aldrin	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/27/99	5:33	M.Jones	8082	5778
a-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
b-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
d-BHC	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
Chlordane,Technical	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
4,4'DDT	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Dieldrin	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Endosulfan I	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
Endosulfan II	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Endrin	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Heptachlor	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/27/99	5:33	M.Jones	8081A	5778
Methoxychlor	ND	ug/l	0.10	0.10	1	1/27/99	5:33	M.Jones	8081A	5778
Toxaphene	ND	ug/l	5.00	5.00	1	1/27/99	5:33	M.Jones	8081A	5778

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/23/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/23/99	Fitzwater	3510
Pesticides	1000 ml	10.0 ml	1/25/99	M. Cauthen	3510

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A8225
Sample ID: 011999-04

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	98.	60. - 138.
VOA Surrogate, Toluene d8	99.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	101.	73. - 122.
surr-Nitrobenzene-d5	56.	15. - 105.
surr-2-Fluorobiphenyl	64.	17. - 110.
surr-Terphenyl d14	69.	10. - 116.
surr-Phenol d5	19.	10. - 100.
surr-2-Fluorophenol	25.	9. - 100.
surr-2,4,6-Tribromophenol	70.	15. - 134.
surr-TCMX	80.	20. - 122.
surr-Decachlorobiphenyl	18.	10. - 120.
surr-Dichlorophenylacetic acid	83.	20. - 130.

Report Approved By: T.J. Duello Report Date: 2/ 1/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HYDROLOGIC, INC. 5781
LORI PATTTON
P.O. BOX 18029
ASHEVILLE, NC 28814-0029

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: A.A.

Lab Number: 99-A8226
Sample ID: TRIP BLANK
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 1/21/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Acetonitrile	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7639
Acrolein	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Acrylonitrile	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Allyl chloride	ND	ug/l	10	10	1	1/27/99	10:31	J.Haley	8260B	7639
Benzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Bromochloromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Bromoform	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Bromomethane	ND	ug/l	5	2	1	1/27/99	10:31	J.Haley	8260B	7635
2-Butanone	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Carbon disulfide	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Carbon tetrachloride	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Chlorobenzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Chloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Chloroform	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Chloromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Chloroprene	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7639
1,2-Dibromo-3-chloropropane	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Dibromochloromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Dibromomethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,4-Dichloro-2-butene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,2-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,3-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,4-Dichlorobenzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Dichlorodifluoromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1-Dichloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,2-Dichloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1-Dichloroethene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
cis-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
trans-1,2-Dichloroethene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,3-Dichloropropane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
2,2-Dichloropropane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1-Dichloropropene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
cis-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
trans-1,3-Dichloropropene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Ethylbenzene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A8226
Sample ID: TRIP BLANK

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethyl methacrylate	ND	ug/l	10	10	1	1/27/99	10:31	J.Haley	8260B	7639
2-Hexanone	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Iodomethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Isobutyl alcohol	ND	ug/l	10	10	1	1/27/99	10:31	J.Haley	8260B	7639
Methacrylonitrile	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7639
Methyl methacrylate	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7639
4-Methyl-2-pentanone	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Methylene chloride	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7635
Propionitrile	ND	ug/l	5	5	1	1/27/99	10:31	J.Haley	8260B	7639
Styrene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1,1,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1,2,2-Tetrachloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Tetrachloroethene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Toluene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1,1-Trichloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,1,2-Trichloroethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Trichloroethene	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
1,2,3-Trichloropropane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Vinyl acetate	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Vinyl chloride	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Xylenes	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Bromodichloromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635
Trichlorofluoromethane	ND	ug/l	1	1	1	1/27/99	10:31	J.Haley	8260B	7635

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	100.	60. - 138.
VOA Surrogate, Toluene d8	98.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	100.	73. - 122.

Report Approved By: T J Duello Report Date: 2/ 1/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

TESTAMERICA INC.

Page 1 of 1

Chain of Custody Record

☒ Asheville, NC (828) 254-5169 — 5781
☐ Lumberton, NC (910) 738-6190 — 128201
☐ Norcross, GA (770) 368-0636
☐ Lexington, SC (803) 796-8989
☐ Charlotte, NC (704) 392-1164
☐ Brighton, CO (303) 659-0497
☐ Frankfort KY (502) 223-0251
☐ Macon, GA (912) 757-0811 — 133015 018
☐ Morrisville, NC (919) 380-9699
☐ Orlando, FL (407) 851-2560

Client: The Fletcher Group	Project No.: 2040.02	
Report Address: 48 Patton Ave, Suite 303 Asheville, NC 28801	Invoice Address: 48 Patton Ave, Suite 303 Asheville, NC 28801	
Attn: Stu Ryman	Attn: Stu. Ryman	
Phone No.: (828) 281-3350	Sampled By: Amani Ashy	
Fax No.: (828) 281-3351	P.O. No: —	
	State Samples Collected NC	

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days Date Needed:

REQUESTED PARAMETERS

LAB CODE I.D.
(A) = Asheville, NC
C = Charlotte, NC
D = Denver, CO
E = Lexington, SC
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Norcross, GA
O = Orlando, FL
S = Subcontracted

Sample ID	Date	Time	Comp/Grab	Matrix	Containers	Method 8081 ☆	Method 8270 ☆	Method 8151 ☆	Method 8141 (or 8270) ☆	Method 6010 (Metals) ☆	Method for CN ☆	Method for Sulfide ☆	8260 ☆			← Preserv.	REMARKS
011999-01	1/19/99	1200	Grab	GW	11	1	1	1	1	1	1	1	4	82	22		☆ Please refer to
011999-02	1/19/99	1315	↓	GW	11	1	1	1	1	1	1	1	4		23		attached constituent
011999-03	1/19/99	1450	↓	GW	11	1	1	1	1	1	1	1	4		24		list for any
011999-04	1/19/99	1700	↓	GW	11	1	1	1	1	1	1	1	4		25		revised methods and/or
TRIP BLANK	1/19/99				3								3	82	26		special reporting
																	limits
																	[At Specialized Asays: talk to Mary Louise]
					-												
Lab Use Only			Custody Seal: ☐ Yes ☐ No ☒ N/A			5A	5A	5A	5A	4A	4A	4A	5A			Init. Lab Temp. 19.6°C	Rec. Lab Temp. 21°C

COMMENTS: Attn: Dinah Tramnell

Relinquished By: [signature]	Date 1/20/99 Time 8:40am	Received By: Dinah Tramnell	Date 1/20/99 Time 0840	Lab Use Only: CN 34.12 Metals pH <2 Sulfide pH >9 DT
Relinquished By: Dinah Tramnell	Date 1/20/99 Time 1522	Received By: [signature]	Date 1/21/99 Time 900	
Relinquished By:	Date Time	Received By:	Date Time	
Relinquished By:	Date Time	Received By:	Date Time	

Revised PQL List Per Mary Louise Linn
1/14/99

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APPENDIX II - CONSTITUENTS FOR ASSESSMENT MONITORING
(40 CFR PART 258)

	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
VOLATILES						
Acetone	67-64-1		0.010	8260B	4 VOAs w/ HCl	14 days
Acetonitrile; Methyl cyanide	75-05-8		0.005	8260B		
Acrolein	107-02-8		0.010	8260B		
Acrylonitrile	107-13-1		0.010	8260B		
Allyl chloride	107-05-1		0.010	8260B		
Benzene	71-43-2	0.005	0.002	8260B		
Bromochloromethane; Chlorobromomethane	74-97-5		0.002	8260B		
Bromodichloromethane; Dichlorobromomethane	75-27-4	**	0.002	8260B		
Bromoform; Tribromomethane	75-25-5	**	0.002	8260B		
Carbon disulfide	75-15-0		0.002	8260B		
Carbon tetrachloride	56-23-5	0.005	0.002	8260B		
Chlorobenzene	108-90-7	0.1	0.002	8260B		
Chloroethane; Ethyl chloride	75-00-3		0.002	8260B		
Chloroform; Trichloromethane	67-66-3	**	0.002	8260B		
Chloroprene	126-99-8		0.005	8260B		
Dibromochloromethane; Chlorodibromomethane	124-48-1	**	0.002	8260B		
1,2-Dibromo-3-chloropropane; DBCP	96-12-8	0.0002	0.0001	504.1		
1,2-Dibromoethane; Ethylene dibromide, EDB	106-93-4	0.00005	0.00005	504.1		
o-Dichlorobenzene	95-50-1	0.6	0.002	8260B		
m-Dichlorobenzene	541-73-1		0.002	8260B		
p-Dichlorobenzene	106-46-7	0.075	0.002	8260B		
trans-1,4-Dichloro-2-butene	110-57-6		0.002	8260B		
Dichlorodifluoromethane	75-71-8		0.002	8260B		
1,1-Dichloroethane; Ethylidene chloride	75-34-3		0.002	8260B		
1,2-Dichloroethane; Ethylene dichloride	107-06-2	0.005	0.002	8260B		
1,1-Dichloroethylene; Vinylidene chloride; 1,1-Dichloroethene	75-35-4	0.007	0.002	8260B		
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	156-59-2	0.07	0.002	8260B		
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	156-60-5	0.1	0.002	8260B		
1,2-Dichloropropane; Propylene dichloride	78-87-5	0.005	0.002	8260B		
1,3-Dichloropropane; Trimethylene dichloride	142-28-9		0.002	8260B		
2,2-Dichloropropane; Isopropylidene chloride	594-20-7		0.002	8260B		
1,1-Dichloropropene	563-58-6		0.002	8260B		
cis-1,3-Dichloropropene	10061-01-5		0.002	8260B		
trans-1,3-Dichloropropene	10061-02-6		0.002	8260B		
Ethylbenzene	100-41-4	0.7	0.002	8260B		
Ethyl methacrylate	97-63-2		0.010	8260B		
2-Hexanone; Methyl butyl ketone	591-78-6		0.010	8260B		
Isobutyl alcohol	78-83-1		0.010	8260B		
Methacrylonitrile	126-98-7		0.005	8260B		
Methyl bromide; Bromomethane	74-83-9		0.010	8260B		
Methyl chloride; Chloromethane	74-87-3		0.002	8260B		
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3		0.010	8260B		
Methyl iodide; Iodomethane	74-88-4		0.002	8260B		
Methyl methacrylate	80-62-6		0.006	8260B		
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1		0.010	8260B		
Methylene bromide; Dibromomethane	74-95-3		0.002	8260B		
Methylene chloride; Dichloromethane	75-09-2	0.005	0.002	8260B		
Propionitrile, Ethyl cyanide	107-12-0		0.005	8260B		
Styrene	100-42-5	0.1	0.002	8260B		
1,1,1,2-Tetrachloroethane	630-20-6		0.002	8260B		
1,1,2,2-Tetrachloroethane	79-34-5		0.002	8260B		
Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	127-18-4	0.005	0.002	8260B		
Toluene	108-88-3	1	0.002	8260B		
1,1,1-Trichloroethane, Methyl chloroform	71-55-6	0.2	0.002	8260B		
1,1,2-Trichloroethane	79-00-5	0.005	0.002	8260B		
Trichloroethylene; Trichloroethene	79-01-6	0.005	0.002	8260B		
Trichlorofluoromethane	75-69-4		0.002	8260B		
1,2,3-Trichloropropane	96-18-4		0.002	8260B		
Vinyl acetate	108-05-4		0.002	8260B		
Vinyl chloride; Chloroethene	75-01-4	0.002	0.002	8260B		
Xylene (total)	-	10	0.002	8260B		

Report
0.002 Cmpds → .001
0.010 Cmpds → 0.005

*96-47-6, 108-38-3, 106-42-3, 1330-20-7.
**The sum of these four compounds (Total Trihalomethanes) should not exceed 0.10 mg/l.

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	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
SEMIVOLATILES						
Acenaphthene	83-32-9		0.010	8270C	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
Acenaphthylene	208-96-8		0.010	8270C		
Acetophenone	98-86-2		0.050	8270C		
2-Acetylaminofluorene; 2-AAF	53-96-3		0.050	8270C		
4-Aminobiphenyl	92-67-1		0.050	8270C		
Anthracene	120-12-7		0.010	8270C		
Benzo(a)anthracene; Benzanthracene	56-55-3		0.010	8270C		
Benzo(b)fluoranthene	205-99-2		0.010	8270C		
Benzo(k)fluoranthene	207-08-9		0.010	8270C		
Benzo(ghi)perylene	191-24-2		0.050	8270C		
Benzyl alcohol	100-51-6		0.010	8270C		
Bis(2-chloroethoxy)methane	111-91-1		0.010	8270C		
Bis(2-chloroethyl)ether; Dichloroethyl ether	111-44-4					
Bis(2-chloro-1-methylethyl) ether; 2,2-Dichlorodiisopropyl ether; DCIP	108-60-1		0.010	8270C		
Bis(2-ethylhexyl) phthalate	117-81-7	0.006	0.010	8270C		
4-Bromophenyl phenyl ether	101-55-3		0.010	8270C		
Butyl benzyl phthalate	85-68-7		0.010	8270C		
p-Chloroaniline; 4-Chloroaniline	106-47-8		~~0.050~~ 10	8270C		
Chlorobenzilate	510-15-6		0.010	8270C		
p-Chloro-m-cresol; 4-Chloro-3-methylphenol	59-50-7		0.010	8270C		
2-Chloronaphthalene	91-58-7		0.010	8270C		
2-Chlorophenol	95-57-8		0.010	8270C		
4-Chlorophenyl phenyl ether	7005-72-3		0.010	8270C		
Chrysene	218-01-9		0.010	8270C		
m-Cresol; 3-Methylphenol	108-39-4		0.010	8270C		
o-Cresol; 2-Methylphenol	95-48-7		0.010	8270C		
p-Cresol; 4-Methylphenol	106-44-5		~~0.050~~ 10	8270C		
Diallate	2303-16-4		0.010	8270C		
Dibenz[a,h]anthracene	53-70-3		0.010	8270C		
Dibenzofuran	132-64-9		0.010	8270C		
Di-n-butyl phthalate	84-74-2		0.020	8270C		
3,3'-Dichlorobenzidine	91-94-1		0.010	8270C		
2,4-Dichlorophenol	120-83-2		~~0.050~~ 10	8270C		
2,6-Dichlorophenol	87-65-0		0.010	8270C		
Diethyl phthalate	84-66-2					
O,O-Diethyl O-2-pyrazinyl phosphorothioate, Thionazin	297-97-2		~~0.050~~ 20	8270C		
Dimethoate	60-51-5		~~0.050~~ 20	8270C		
p-(Dimethylamino)azobenzene	60-11-7		~~0.050~~ 10	8270C		
7,12-Dimethylbenz[a]anthracene	57-97-6		0.050 10	8270C		
3,3'-Dimethylbenzidine	119-93-7		0.020 10	8270C		
2,4-Dimethylphenol	105-67-9		0.010	8270C		
Dimethyl phthalate	131-11-3		0.010	8270C		
m-Dinitrobenzene	99-65-0		~~0.050~~ 20	8270C		
4,6-Dinitro-o-cresol; 4,6-Dinitro-2-methylphenol	534-52-1		0.025	8270C		
2,4-Dinitrophenol	51-28-5		0.025	8270C		
2,4-Dinitrotoluene	121-4-2		0.010	8270C		
2,6-Dinitrotoluene	606-20-2		0.010	8270C		
Di-n-octyl phthalate	117-84-0		0.010	8270C		
Diphenylamine	122-39-4		~~0.050~~ 10	8270C		
Ethyl methanesulfonate	62-50-0		~~0.050~~ 20	8270C		
Famphur	52-85-7		~~0.050~~ 20	8270C		
Fluoranthene	206-44-0		0.010	8270C		
Fluorene	86-73-7		0.010	8270C		
Hexachlorobenzene	118-74-1	0.001	0.010	8270C		
Hexachlorobutadiene	87-68-3		0.010	8270C		
Hexachlorocyclopentadiene	77-47-4	0.05	0.010	8270C		
Hexachloroethane	87-72-1		0.010	8270C		
Hexachlorophene	1888-71-7		~~0.050~~ 10	8270C		
Indeno(1,2,3-cd)pyrene	193-39-5		0.010	8270C		
Isodrin	465-73-6		~~0.050~~ 20	8270C		
Isophorone	78-59-1		0.010	8270C		
Isosafrole	120-58-1		~~0.050~~ 10	8270C		
Methapyrilene	91-80-5		0.050	8270C		
3-Methylcholanthrene	56-49-5		~~0.050~~ 10	8270C		
Methyl methanesulfonate	66-27-3		0.050 10	8270C		
2-Methylnaphthalene	91-57-6		0.010	8270C		
Naphthalene	91-20-3		0.010	8270C		
1,4-Naphthoquinone	130-15-4		~~0.050~~ 10	8270C		

2/5/99

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	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
1-Naphthylamine	134-32-7		~~0.060~~ 10	8270C		
2-Naphthylamine	91-59-8		0.060 10	8270C		
o-Nitroaniline; 2-Nitroaniline	88-74-4		0.025	8270C		
m-Nitroaniline;3-Nitroaniline	99-09-2		0.025	8270C		
p-Nitroaniline; 4-Nitroaniline	100-01-6		~~0.026~~ 20	8270C		
Nitrobenzene	98-95-3		0.010	8270C		
o-Nitrophenol; 2-Nitrophenol	88-75-5		0.010	8270C		
p-Nitrophenol; 4-Nitrophenol	100-02-7		0.025	8270C		
N-nitrosodi-n-butylamine	924-16-3		~~0.050~~ 10	8270C		
N-nitrosodiethylamine	55-18-5		0.050 20	8270C		
N-nitrosodimethylamine	62-75-9		0.010	8270C		
N-nitrosodiphenylamine	86-30-6		0.010	8270C		
N-nitrosodipropylamine; Di-n-propyl-nitrosamine; n-nitroso-n-dipropylamine	621-64-7		0.010	8270C		
N-nitrosomethylethylamine	1059-85-6		0.050 10	8270C		
N-nitrosopiperidine	100-75-4		0.050 20	8270C		
N-nitrosopyrrolidine	930-55-2		0.050 40	8270C		
5-Nitro-o-toluidine	99-55-8		0.050 10	8270C		
Pentachlorobenzene	608-93-5		0.050 10	8270C		
Pentachloronitrobenzene	82-68-8		0.050 20	8270C		
Phenacetin	62-44-2		0.050 20	8270C		
Phenanthrene	85-01-8		0.010	8270C		
Phenol	108-95-2		0.010	8270C		
p-Phenylenediamine	108-50-3		0.050 10	8270C		
Pronamide	23950-58-5		0.050 10	8270C		
Pyrene	129-00-0		0.010	8270C		
Safrole	94-59-7		~~0.050~~ 10	8270C		
1,2,4,5-Tetrachlorobenzene	95-94-3		~~0.060~~ 10	8270C		
2,3,4,6-Tetrachlorophenol	58-90-2		0.050 10	8270C		
o-Toluidine	95-53-4		~~0.050~~ 10	8270C		
1,2,4-Trichlorobenzene	120-82-1		0.010	8270C		
2,4,5-Trichlorophenol	95-95-4		~~0.025~~ 10	8270C		
2,4,6-Trichlorophenol	88-06-2		0.010	8270C		
O,O,O-Triethyl phosphorothioate; Terbufos	126-68-1		~~0.050~~ 10	8270C		
sym-Trinitrobenzene; 1,3,5-Trinitrobenzene	99-35-4		0.050 10	~~8270~~ 8270C	1 liter, Amber-glass	
Benzo[a]pyrene	50-32-8	0.0002	0.0002 10			
ORGANOCHLORINE PESTICIDES/PCBs						
Aldrin	309-00-2		0.00005	8081A	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
alpha-BHC; alpha-Benzene hexachloride	319-84-5		0.00005	8081A		
beta-BHC; beta-Benzene hexachloride	309-85-7		0.00005	8081A		
delta-BHC;delta-Benzene hexachloride	319-86-8		0.00005	8081A		
gamma-BHC; gamma-Benzene hexachloride; Lindane	58-89-9	0.0002	0.00005	8081A		
Chlordane	—	0.002	0.00005	8081A		
4,4'-DDD	72-54-8		0.0001	8081A		
4,4'-DDE	72-55-9		0.0001	8081A		
4,4'-DDT	50-29-3		0.0001	8081A		
Dieldrin	50-57-1		0.0001	8081A		
Dinoseb; DNBP, 2-sec-Butyl-4,6-dinitrophenol	88-85-7	0.001	~~0.0035~~	8081A		
Endosulfan I	959-98-8		0.00005	8081A		
Endosulfan II	33213-65-9		0.0001	8081A		
Endosulfan sulfate	1031-07-8		0.0001	8081A		
Endrin	72-20-8	0.002	0.0001	8081A		
Endrin aldehyde	7421-93-4		0.0001	8081A	0.00005	
Heptachlor	75-44-8	0.0004	~~0.00005~~	8081A		
Heptachlor epoxide	1024-57-3	0.0002	0.00005	8081A		
Methoxychlor	72-43-5	0.04	0.0001	8081A		
Toxaphene	8001-35-2	0.003	0.003	8081A		
Polychlorinated biphenyls; PCBs; Aroclors	—	0.0005	0.0005	8081A		
***5103-71-9, 5103-74-2, 3566-34-7, 57-74-9, 12674-29-8, 11097-69-1, 11096-82-5						
****336-36-3, 12674-11-2, 11104-28-2, 11141-16-5, 53469-21-9, 12672-29-6, 11097-69-1, 11096-82-5						
ORGANOPHOSPHORUS PESTICIDES						
Disulfoton	298-04-4	10	0.001	8141A	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
Kepone	143-50-0		0.001	8141A		
Methyl parathion; Parathion methyl	298-00-0		0.001	8141A		
Parathion	56-38-2		0.001	8141A		
Phorate	298-02-2		0.001	8141A		
HERBICIDES						
2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	0.02	0.005	8151A	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5		0.0005	8151A		
2,4,5-TP; 2,4,5-Trichlorophenoxypropanoic acid, Silvex	93-72-1	0.01	0.0005	8151A		
Pentachlorophenol	87-86-5	0.001	~~0.001~~ 10	~~8151A~~ 8270C		

2/3/98

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FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133071 SAMPLE ID- 012099-01
DATE SAMPLED- 01/20/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI ASHY
TIME RECEIVED- 1726 DELIVERED BY- AMANI ASHY

SAMPLE MATRIX- WW
TIME SAMPLED- 1200
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/27/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0004	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	01/29/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	1.020	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.006	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.830	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.074	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

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INCORPORATED

FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133072 SAMPLE ID- 012099-02
DATE SAMPLED- 01/20/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI ASHY
TIME RECEIVED- 1726 DELIVERED BY- AMANI ASHY

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/27/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0005	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	02/04/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.960	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.006	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.780	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	0.056	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori J Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

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FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133073 SAMPLE ID- 012099-03
DATE SAMPLED- 01/20/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI ASHY
TIME RECEIVED- 1726 DELIVERED BY- AMANI ASHY

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/27/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	0.0003	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	02/04/99	LJP	0.007	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.037	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.050	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.010	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lou Patton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

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FINAL REPORT OF ANALYSES

THE FLETCHER GROUP
48 PATTON AVENUE
SUITE 303
ASHEVILLE, NC 28801-
Attn: STU RYMAN

PROJECT NAME: 2040.02
REPORT DATE: 02/10/99

SAMPLE NUMBER- 133074 SAMPLE ID- 012099-04
DATE SAMPLED- 01/20/99
DATE RECEIVED- 01/20/99 SAMPLER- AMANI ASHY
TIME RECEIVED- 1726 DELIVERED BY- AMANI ASHY

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
CYANIDE, TOTAL	9010			01/27/99	APT	<0.005	mg/l	0.005
SULFIDE	9030			01/25/99	APT	<1.0	mg/l	1.0
ARSENIC, TOTAL	206.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	01/22/99	LJP	02/03/99	LJP	<0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
COBALT, TOTAL	219.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
LEAD, TOTAL	239.2	01/22/99	LJP	02/02/99	LJP	<0.003	mg/l	0.003
MERCURY, TOTAL	245.1			02/04/99	LJP	<0.0002	mg/l	0.0002
SELENIUM, TOTAL	270.2	01/22/99	LJP	01/26/99	LJP	< 0.003	mg/l	0.003
SILVER, TOTAL	272.2	01/22/99	LJP	02/02/99	LJP	<0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	01/22/99	LJP	02/09/99	CL	<0.002	mg/l	0.002
ANTIMONY, TOTAL	204.2	01/22/99	LJP	02/04/99	LJP	<0.003	mg/l	0.003
BARIUM, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	0.018	mg/l	0.005
COPPER, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
NICKEL, TOTAL	200.7	01/22/99	LJP	01/26/99	LJP	<0.005	mg/l	0.005
TIN, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.050	mg/l	0.050
VANADIUN, TOTAL	286.2	01/22/99	LJP	02/03/99	LJP	<0.005	mg/l	0.005
ZINC, TOTAL	200.7	01/22/99	LJP	01/25/99	LJP	<0.010	mg/l	0.010

THALLIUM ANALYZED BY ORLANDO, FL. LOCATION OF TESTAMERICA, INC.

LABORATORY DIRECTOR Lori Hatton

NC DEHNR DEM #47
NC DEHNR DW #37717
SC DEHC #99015

122 LYMAN STREET / ASHEVILLE, NC 28801 / 828-254-5169 / FAX: 828-252-9711

TESTAMERICA INC.

SAMPLES ON ICE

Page 1 of 1

Chain of Custody Record

☒ Asheville, NC (828) 254-5169 ☐ Norcross, GA (770) 368-0636 ☐ Charlotte, NC (704) 392-1164 ☐ Frankfort KY (502) 223-0251 ☐ Morrisville, NC (919) 380-9699
☐ Lumberton, NC (910) 738-6190 ☐ Lexington, SC (803) 796-8989 ☐ Brighton, CO (303) 659-0497 ☐ Macon, GA (912) 757-0811 ☐ Orlando, FL (407) 851-2560

1330 01/14

Client: The Fletcher Group	Project No.: 2040.02
Report Address: 48 Patton Ave, Suite 303 Asheville, NC 28801	Invoice Address: 48 Patton Ave, Suite 303 Asheville, NC 28801
Attn: Stu Ryman	Attn: Stu Ryman
Phone No.: (828) 281-3350	Sampled By: Amani Ashby
Fax No.: (828) 281-3351	P.O. No: —
	State Samples Collected NC

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days Date Needed: _____

REQUESTED PARAMETERS

LAB CODE I.D.
A = Asheville, NC
C = Charlotte, NC
D = Denver, CO
E = Lexington, SC
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Norcross, GA
O = Orlando, FL
S = Subcontracted

Sample ID	Date	Time	Comp/Grab	Matrix	Containers	Method 8081	Method 8270	Method 8151	Method 8141	Method 6010 (Metals)	Method for CN	Method for Sulfide	Method 8260			← Preserv.	REMARKS
012099-01	1/20/99	1200	Grab	GW	11	1	1	1	1	1	1	1	4				* Please refer to
012099-02	1/20/99	1230	Grab	GW	11	1	1	1	1	1	1	1	4				attached constituent
012099-03	1/20/99	1400	Grab	SW	11	1	1	1	1	1	1	1	4				list for any
012099-04	1/20/99	1445	Grab	SW	11	1	1	1	1	1	1	1	4				revised methods and/or
																	special reporting
LAB USE	1/20/99	1300	Grab	GW	8	2	2	2	2	—	—	—	—				limits.
																	[At Specialized Assays
																	talk to Mary Louise]

[redacted] Inter-lab Temp [redacted] Receiv-lab Temp

COMMENTS: Attn: Dinah Trammell

Relinquished By: Amani Ashby	Date 1/20/99	Time 1726	Received By: Dinah Trammell	Date 1/20/99	Time 1726
Relinquished By: Dinah Trammell	Date 1/21/99	Time 0910	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

[redacted]

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

TESTAMERICA 5781
LORI PATTTON
22 LYMAN STREET
SHEVILLE, NC 28801

Lab Number: 99-A9714
Sample ID: 012099-01
Sample Type: Ground water
Site ID:

Date Collected: 1/20/99
Time Collected: 12:00
Date Received: 1/25/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: AMANI A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Anthracene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Chrysene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Diallate	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	12:04	Carmichael	8270C	7311
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	12:04	M.Goodrich	8270C	9187
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9714
Sample ID: 012099-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Dinoseb	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Famphur	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Fluorene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Hexachlorophene	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Isodrin	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Isophorone	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A9714
Sample ID: 012099-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Phenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
1,4-Phenylenediamine	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Phorate	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Pronamide	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Pyrene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Pyridine	ND	ug/l	50.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Pyridine	ND	ug/l	10.	10.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Safrole	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Tetraethyldithiopyrophosphate	ND	ug/l	100.	100.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Thionazine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:04	Carmichael	8270C	7311
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	12:04	M.Goodrich	8270C	9187
Parathion	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Kepone	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	12:04	Carmichael	8270C	7311
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Acetonitrile	ND	ug/l	5	5	1	1/26/99	20:46	S. Wani	8260B	644
Acrolein	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Acrylonitrile	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Allyl chloride	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	644
Benzene	2.6	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Bromochloromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Bromoform	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Bromomethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
2-Butanone	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Carbon disulfide	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Carbon tetrachloride	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Chlorobenzene	4.7	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Chloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Chloroform	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Chloromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A9714
Sample ID: 012099-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroprene	ND	ug/l	5	5	1	1/26/99	20:46	S. Wani	8260B	644
Dibromochloromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Dibromomethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,2-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,3-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,4-Dichlorobenzene	6	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Dichlorodifluoromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1-Dichloroethane	2.5	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,2-Dichloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1-Dichloroethene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
cis-1,2-Dichloroethene	24.4	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,3-Dichloropropane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
2,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1-Dichloropropene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Ethylbenzene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Ethyl methacrylate	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	644
Hexachlorobutadiene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
2-Hexanone	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Iodomethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Isobutyl alcohol	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	644
Methacrylonitrile	ND	ug/l	5	5	1	1/26/99	20:46	S. Wani	8260B	644
Methyl methacrylate	ND	ug/l	5	5	1	1/26/99	20:46	S. Wani	8260B	644
4-Methyl-2-pentanone	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Methylene chloride	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Propionitrile	ND	ug/l	5	5	1	1/26/99	20:46	S. Wani	8260B	644
Styrene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Tetrachloroethene	3.6	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Toluene	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1,1-Trichloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,1,2-Trichloroethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Trichloroethene	2.8	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
1,2,3-Trichloropropane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Vinyl acetate	ND	ug/l	10	10	1	1/26/99	20:46	S. Wani	8260B	4904
Vinyl chloride	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Xylenes	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Bromodichloromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Trichlorofluoromethane	ND	ug/l	2	2	1	1/26/99	20:46	S. Wani	8260B	4904
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:45	Carmichael	504.1	4903
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:45	Carmichael	504.1	4903

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ANALYTICAL REPORT

Laboratory Number: 99-A9714
Sample ID: 012099-01

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
PESTICIDES/PCB's/HERBICIDES										
2,4-D	ND	ug/l	5.00	5.00	1	2/ 4/99	10:35	Carmichael	8151A	702
2,4,5-T	ND	ug/l	0.50	0.50	1	2/ 4/99	10:35	Carmichael	8151A	702
2,4,5-TP	ND	ug/l	0.50	0.50	1	2/ 4/99	10:35	Carmichael	8151A	702
Dinoseb	ND	ug/l	2.50	2.50	1	2/ 4/99	10:35	Carmichael	8151A	702
Pentachlorophenol	ND	ug/l	1.00	1.00	1	2/ 4/99	10:35	Carmichael	8151A	702
Aldrin	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/29/99	6:08	Carmichael	8082	7298
a-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
b-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
d-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
4,4'DDT	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Dieldrin	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Endosulfan I	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
Endosulfan II	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Endrin	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Heptachlor	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
Methoxychlor	ND	ug/l	0.10	0.10	1	1/29/99	6:08	Carmichael	8081A	7298
Toxaphene	ND	ug/l	5.00	5.00	1	1/29/99	6:08	Carmichael	8081A	7298
alpha-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298
gamma-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	6:08	Carmichael	8081A	7298

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/26/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/27/99	Fitzwater	3510

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9714
Sample ID: 012099-01

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Pesticides	1000 ml	10.0 ml	1/27/99	Fitzwater	3510

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	104.	60. - 138.
VOA Surrogate, Toluene d8	101.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	86.	73. - 122.
VOA Surrogate, Dibromofluoromethane	105.	74. - 133.
surr-Nitrobenzene-d5	67.	15. - 105.
surr-2-Fluorobiphenyl	60.	17. - 110.
surr-Terphenyl d14	60.	10. - 116.
surr-Phenol d5	21.	10. - 100.
surr-2-Fluorophenol	32.	9. - 100.
surr-2,4,6-Tribromophenol	53.	15. - 134.
surr-TCMX	81.	20. - 122.
surr-Decachlorobiphenyl	84.	10. - 120.
surr-Dichlorophenylacetic acid	88.	20. - 130.

Report Approved By: Eric S Smith Report Date: 2/ 4/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
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Phone 1-615-726-0177

ANALYTICAL REPORT

TESTAMERICA 5781
LORI PATTTON
22 LYMAN STREET
SHEVILLE, NC 28801

Lab Number: 99-A9715
Sample ID: 012099-02
Sample Type: Ground water
Site ID:

Date Collected: 1/20/99
Time Collected: 12:30
Date Received: 1/25/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: AMANI A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Anthracene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Chrysene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Diallate	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	12:41	Carmichael	8270C	7311
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	12:41	M.Goodrich	8270C	9187
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311

COPY 1

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ANALYTICAL REPORT

Laboratory Number: 99-A9715
Sample ID: 012099-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Dinoseb	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Famphur	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Fluorene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Hexachlorophene	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Isodrin	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Isophorone	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9715
Sample ID: 012099-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Phenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
1,4-Phenylenediamine	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Phorate	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Pronamide	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Pyrene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Pyridine	ND	ug/l	50.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Pyridine	ND	ug/l	10.	10.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Safrole	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Tetraethyldithiopyrophosphate	ND	ug/l	100.	100.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Thionazine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	12:41	Carmichael	8270C	7311
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	12:41	M.Goodrich	8270C	9187
Parathion	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Kepone	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	12:41	Carmichael	8270C	7311
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Acetonitrile	ND	ug/l	5	5	1	1/26/99	21:27	S. Wani	8260B	644
Acrolein	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Acrylonitrile	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Allyl chloride	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	644
Benzene	2.5	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Bromochloromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Bromoform	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Bromomethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
2-Butanone	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Carbon disulfide	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Carbon tetrachloride	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Chlorobenzene	4.5	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Chloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Chloroform	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Chloromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9715
Sample ID: 012099-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroprene	ND	ug/l	5	5	1	1/26/99	21:27	S. Wani	8260B	644
Dibromochloromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Dibromomethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,2-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,3-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,4-Dichlorobenzene	5.7	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Dichlorodifluoromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1-Dichloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,2-Dichloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1-Dichloroethene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
cis-1,2-Dichloroethene	24.3	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,3-Dichloropropane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
2,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1-Dichloropropene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Ethylbenzene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	644
Ethyl methacrylate	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Hexachlorobutadiene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
2-Hexanone	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Iodomethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	644
Isobutyl alcohol	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	644
Methacrylonitrile	ND	ug/l	5	5	1	1/26/99	21:27	S. Wani	8260B	644
Methyl methacrylate	ND	ug/l	5	5	1	1/26/99	21:27	S. Wani	8260B	4904
4-Methyl-2-pentanone	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Methylene chloride	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	644
Propionitrile	ND	ug/l	5	5	1	1/26/99	21:27	S. Wani	8260B	4904
Styrene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Tetrachloroethene	3.1	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Toluene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1,1-Trichloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,1,2-Trichloroethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Trichloroethene	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
1,2,3-Trichloropropane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Vinyl acetate	ND	ug/l	10	10	1	1/26/99	21:27	S. Wani	8260B	4904
Vinyl chloride	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Xylenes	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Bromodichloromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Trichlorofluoromethane	ND	ug/l	2	2	1	1/26/99	21:27	S. Wani	8260B	4904
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:45	Carmichael	504.1	4903
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:45	Carmichael	504.1	4903

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9715
Sample ID: 012099-02

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
PESTICIDES/PCB's/HERBICIDES										
2,4-D	ND	ug/l	5.00	5.00	1	2/ 4/99	11:26	Carmichael	8151A	702
2,4,5-T	ND	ug/l	0.50	0.50	1	2/ 4/99	11:26	Carmichael	8151A	702
2,4,5-TP	ND	ug/l	0.50	0.50	1	2/ 4/99	11:26	Carmichael	8151A	702
Dinoseb	ND	ug/l	2.50	2.50	1	2/ 4/99	11:26	Carmichael	8151A	702
Pentachlorophenol	ND	ug/l	1.00	1.00	1	2/ 4/99	11:26	Carmichael	8151A	702
Aldrin	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/29/99	6:41	Carmichael	8082	7298
a-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
b-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
d-BHC	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
4,4'DDT	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Dieldrin	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Endosulfan I	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
Endosulfan II	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Endrin	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Heptachlor	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
Methoxychlor	ND	ug/l	0.10	0.10	1	1/29/99	6:41	Carmichael	8081A	7298
Toxaphene	ND	ug/l	5.00	5.00	1	1/29/99	6:41	Carmichael	8081A	7298
alpha-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298
gamma-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	6:41	Carmichael	8081A	7298

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/26/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/27/99	Fitzwater	3510

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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9715
Sample ID: 012099-02

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Pesticides	1000 ml	10.0 ml	1/27/99	Fitzwater	3510

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	104.	60. - 138.
VOA Surrogate, Toluene d8	103.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	85.	73. - 122.
VOA Surrogate, Dibromofluoromethane	104.	74. - 133.
surr-Nitrobenzene-d5	67.	15. - 105.
surr-2-Fluorobiphenyl	60.	17. - 110.
surr-Terphenyl d14	64.	10. - 116.
surr-Phenol d5	16.	10. - 100.
surr-2-Fluorophenol	22.	9. - 100.
surr-2,4,6-Tribromophenol	37.	15. - 134.
surr-TCMX	87.	20. - 122.
surr-Decachlorobiphenyl	72.	10. - 120.
surr-Dichlorophenylacetic acid	86.	20. - 130.

Report Approved By: Eric D. Smith Report Date: 2/ 4/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

TESTAMERICA 5781
LORI PATTTON
22 LYMAN STREET
ASHEVILLE, NC 28801

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: AMANI A.

Lab Number: 99-A9716
Sample ID: 012099-03
Sample Type: Ground water
Site ID:

Date Collected: 1/20/99
Time Collected: 14:00
Date Received: 1/25/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Anthracene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Chrysene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Diallate	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	13:18	Carmichael	8270C	7311
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	13:18	M.Goodrich	8270C	9187
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311

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ANALYTICAL REPORT

Laboratory Number: 99-A9716
Sample ID: 012099-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Dinoseb	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Famphur	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Fluorene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Hexachlorophene	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Isodrin	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Isophorone	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187

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ANALYTICAL REPORT

Laboratory Number: 99-A9716
Sample ID: 012099-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Phenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
1,4-Phenylenediamine	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Phorate	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Pronamide	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Pyrene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Pyridine	ND	ug/l	50.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Pyridine	ND	ug/l	10.	10.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Safrole	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Tetraethyldithiopyrophosphate	ND	ug/l	100.	100.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Thionazine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:18	Carmichael	8270C	7311
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	13:18	M.Goodrich	8270C	9187
Parathion	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Kepone	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	13:18	Carmichael	8270C	7311
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Acetonitrile	ND	ug/l	5	5	1	1/26/99	22:07	S. Wani	8260B	644
Acrolein	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Acrylonitrile	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Allyl chloride	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	644
Benzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Bromochloromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Bromoform	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Bromomethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
2-Butanone	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Carbon disulfide	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Carbon tetrachloride	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Chlorobenzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Chloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Chloroform	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Chloromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9716
Sample ID: 012099-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroprene	ND	ug/l	5	5	1	1/26/99	22:07	S. Wani	8260B	644
Dibromochloromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Dibromomethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,2-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,3-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,4-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Dichlorodifluoromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1-Dichloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,2-Dichloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,3-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
2,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Ethylbenzene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Ethyl methacrylate	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	644
Hexachlorobutadiene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
2-Hexanone	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Iodomethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Isobutyl alcohol	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	644
Methacrylonitrile	ND	ug/l	5	5	1	1/26/99	22:07	S. Wani	8260B	644
Methyl methacrylate	ND	ug/l	5	5	1	1/26/99	22:07	S. Wani	8260B	644
4-Methyl-2-pentanone	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Methylene chloride	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Propionitrile	ND	ug/l	5	5	1	1/26/99	22:07	S. Wani	8260B	644
Styrene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Tetrachloroethene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Toluene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1,1-Trichloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,1,2-Trichloroethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Trichloroethene	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
1,2,3-Trichloropropane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Vinyl acetate	ND	ug/l	10	10	1	1/26/99	22:07	S. Wani	8260B	4904
Vinyl chloride	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Xylenes	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Bromodichloromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Trichlorofluoromethane	ND	ug/l	2	2	1	1/26/99	22:07	S. Wani	8260B	4904
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:45	Carmichael	504.1	4903
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:45	Carmichael	504.1	4903

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ANALYTICAL REPORT

Laboratory Number: 99-A9716
Sample ID: 012099-03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
PESTICIDES/PCB's/HERBICIDES										
2,4-D	ND	ug/l	5.00	5.00	1	2/ 4/99	11:52	Carmichael	8151A	702
2,4,5-T	ND	ug/l	0.50	0.50	1	2/ 4/99	11:52	Carmichael	8151A	702
2,4,5-TP	ND	ug/l	0.50	0.50	1	2/ 4/99	11:52	Carmichael	8151A	702
Dinoseb	ND	ug/l	2.50	2.50	1	2/ 4/99	11:52	Carmichael	8151A	702
Pentachlorophenol	ND	ug/l	1.00	1.00	1	2/ 4/99	11:52	Carmichael	8151A	702
Aldrin	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/29/99	7:14	Carmichael	8082	7298
a-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
b-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
d-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
4,4'DDT	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Dieldrin	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Endosulfan I	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
Endosulfan II	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Endrin	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Heptachlor	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
Methoxychlor	ND	ug/l	0.10	0.10	1	1/29/99	7:14	Carmichael	8081A	7298
Toxaphene	ND	ug/l	5.00	5.00	1	1/29/99	7:14	Carmichael	8081A	7298
alpha-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298
gamma-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	7:14	Carmichael	8081A	7298

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/26/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/27/99	Fitzwater	3510

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ANALYTICAL REPORT

Laboratory Number: 99-A9716
Sample ID: 012099-03

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Pesticides	1000 ml	10.0 ml	1/27/99	Fitzwater	3510

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	107.	60. - 138.
VOA Surrogate, Toluene d8	101.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	84.	73. - 122.
VOA Surrogate, Dibromofluoromethane	108.	74. - 133.
surr-Nitrobenzene-d5	59.	15. - 105.
surr-2-Fluorobiphenyl	52.	17. - 110.
surr-Terphenyl d14	74.	10. - 116.
surr-Phenol d5	20.	10. - 100.
surr-2-Fluorophenol	31.	9. - 100.
surr-2,4,6-Tribromophenol	62.	15. - 134.
surr-TCMX	96.	20. - 122.
surr-Decachlorobiphenyl	48.	10. - 120.
surr-Dichlorophenylacetic acid	65.	20. - 130.

Report Approved By: Eric S Smith Report Date: 2/ 4/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

TESTAMERICA 5781
LORI PATTTON
22 LYMAN STREET
SHEVILLE, NC 28801

Lab Number: 99-A9717
Sample ID: 012099-04
Sample Type: Ground water
Site ID:

Date Collected: 1/20/99
Time Collected: 14:45
Date Received: 1/25/99
Time Received: 9:00

Project: 2040.02
Project Name: THE FLETCHER GROUP
Sampler: AMANI A.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Acenaphthylene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Acetophenone	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2-Acetylaminofluorene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
4-Aminobiphenyl	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Anthracene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Benzo(a)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Benzo(a)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Butylbenzylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Chloroaniline	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Chlorbenzilate	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2-Chloronaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2-Chlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Chrysene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Diallate	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Dibenzofuran	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	1/30/99	13:54	Carmichael	8270C	7311
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2,6-Dichlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Diethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Dimethoate	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
p-Dimethylaminoazobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
3,3'-Dimethylbenzidine	ND	ug/l	20.	20.	1	1/30/99	13:54	M.Goodrich	8270C	9187
7,12-Dimethylbenz(a)anthrac	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Dimethylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311

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ANALYTICAL REPORT

Laboratory Number: 99-A9717
Sample ID: 012099-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
1,3-Dinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Di-n-octylphthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Dinoseb	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Diphenylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Disulfoton	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Famphur	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Fluoranthene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Fluorene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Hexachlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Hexachloroethane	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Hexachlorophene	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Isodrin	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Isophorone	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Isosafrole	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Methapyrilene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
3-Methylcholanthrene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Methylmethanesulfonate	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2-Methylnaphthalene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
3 and 4-Methylphenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Naphthalene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
1,4-Napthaquinone	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
1-Napthylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
3-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Nitroaniline	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
Nitrobenzene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
5-Nitro-o-toluidine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
2-Nitrophenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
4-Nitrophenol	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
N-nitrosodibutylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
N-nitrosodiethylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
N-Nitrosodiphenylamine	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
N-nitrosomethylethylamine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
N-nitrosopiperidine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
N-nitrosopyrrolidine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Pentachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A9717
Sample ID: 012099-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachloronitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Pentachlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
Phenacetin	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Phenanthrene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Phenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
1,4-Phenylenediamine	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Phorate	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Pronamide	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Pyrene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Pyridine	ND	ug/l	50.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Pyridine	ND	ug/l	10.	10.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Safrole	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
1,2,4,5-Tetrachlorobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2,3,4,6-Tetrachlorophenol	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Tetraethyldithiopyrophosphate	ND	ug/l	100.	100.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Thionazine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
o-Toluidine	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
2,4,5-Trichlorophenol	ND	ug/l	25.	25.	1	1/30/99	13:54	Carmichael	8270C	7311
2,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
o,o,o-Triethylphosphorothio	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
1,3,5-Trinitrobenzene	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Benzyl alcohol	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Ethylmethane sulfonate	ND	ug/l	50.	50.	1	1/30/99	13:54	M.Goodrich	8270C	9187
Parathion	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Kepone	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
Methylparathion	ND	ug/l	10.	10.	1	1/30/99	13:54	Carmichael	8270C	7311
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Acetonitrile	ND	ug/l	5	5	1	1/26/99	22:47	S. Wani	8260B	644
Acrolein	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Acrylonitrile	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Allyl chloride	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	644
Benzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Bromochloromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Bromoform	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Bromomethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
2-Butanone	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Carbon disulfide	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Carbon tetrachloride	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Chlorobenzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Chloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Chloroform	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Chloromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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ANALYTICAL REPORT

Laboratory Number: 99-A9717
Sample ID: 012099-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroprene	ND	ug/l	5	5	1	1/26/99	22:47	S. Wani	8260B	644
Dibromochloromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Dibromomethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,2-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,3-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,4-Dichlorobenzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Dichlorodifluoromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1-Dichloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,2-Dichloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,3-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
2,2-Dichloropropane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Ethylbenzene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	644
Ethyl methacrylate	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Hexachlorobutadiene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
2-Hexanone	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Iodomethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	644
Isobutyl alcohol	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	644
Methacrylonitrile	ND	ug/l	5	5	1	1/26/99	22:47	S. Wani	8260B	644
Methyl methacrylate	ND	ug/l	5	5	1	1/26/99	22:47	S. Wani	8260B	4904
4-Methyl-2-pentanone	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Methylene chloride	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	644
Propionitrile	ND	ug/l	5	5	1	1/26/99	22:47	S. Wani	8260B	4904
Styrene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Tetrachloroethene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Toluene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1,1-Trichloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,1,2-Trichloroethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Trichloroethene	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
1,2,3-Trichloropropane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Vinyl acetate	ND	ug/l	10	10	1	1/26/99	22:47	S. Wani	8260B	4904
Vinyl chloride	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Xylenes	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Bromodichloromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Trichlorofluoromethane	ND	ug/l	2	2	1	1/26/99	22:47	S. Wani	8260B	4904
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	1/26/99	9:45	Carmichael	504.1	4903
1,2-Dibromo-3-chloropropane	ND	ug/l	0.10	0.10	1	1/26/99	9:45	Carmichael	504.1	4903

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ANALYTICAL REPORT

Laboratory Number: 99-A9717
Sample ID: 012099-04

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
PESTICIDES/PCB's/HERBICIDES										
2,4-D	ND	ug/l	5.00	5.00	1	2/ 4/99	12:17	Carmichael	8151A	702
2,4,5-T	ND	ug/l	0.50	0.50	1	2/ 4/99	12:17	Carmichael	8151A	702
2,4,5-TP	ND	ug/l	0.50	0.50	1	2/ 4/99	12:17	Carmichael	8151A	702
Dinoseb	ND	ug/l	2.50	2.50	1	2/ 4/99	12:17	Carmichael	8151A	702
Pentachlorophenol	ND	ug/l	1.00	1.00	1	2/ 4/99	12:17	Carmichael	8151A	702
Aldrin	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
Aroclor 1016	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1221	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1232	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1242	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1248	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1254	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
Aroclor 1260	ND	ug/l	0.50	0.50	1	1/29/99	7:46	Carmichael	8082	7298
a-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
b-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
d-BHC	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
g-BHC, Lindane	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
4,4'-DDD	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
4,4'-DDE	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
4,4'DDT	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Dieldrin	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Endosulfan I	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
Endosulfan II	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Endosulfan Sulfate	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Endrin	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Endrin Aldehyde	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Heptachlor	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
Heptachlor Epoxide	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
Methoxychlor	ND	ug/l	0.10	0.10	1	1/29/99	7:46	Carmichael	8081A	7298
Toxaphene	ND	ug/l	5.00	5.00	1	1/29/99	7:46	Carmichael	8081A	7298
alpha-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298
gamma-Chlordane	ND	ug/l	0.05	0.05	1	1/29/99	7:46	Carmichael	8081A	7298

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Herbicides	1000 ml	10.0 ml	1/26/99	Fitzwater	8151
BNA's	1000 ml	1.0 ml	1/27/99	Fitzwater	3510

COPY 1

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A9717
Sample ID: 012099-04

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Pesticides	1000 ml	10.0 ml	1/27/99	Fitzwater	3510

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	108.	60. - 138.
VOA Surrogate, Toluene d8	105.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	84.	73. - 122.
VOA Surrogate, Dibromofluoromethane	107.	74. - 133.
surr-Nitrobenzene-d5	53.	15. - 105.
surr-2-Fluorobiphenyl	48.	17. - 110.
surr-Terphenyl d14	67.	10. - 116.
surr-Phenol d5	18.	10. - 100.
surr-2-Fluorophenol	30.	9. - 100.
surr-2,4,6-Tribromophenol	52.	15. - 134.
surr-TCMX	102.	20. - 122.
surr-Decachlorobiphenyl	54.	10. - 120.
surr-Dichlorophenylacetic acid	66.	20. - 130.

Report Approved By: Eric S Smith Report Date: 2/ 4/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: 387

Chain of Custody Record 128551

TESTAMERICA INC.

☐ Asheville, NC (828) 254-5169 ☐ Norcross, GA (770) 368-0636 ☐ Charlotte, NC (704) 392-1164 ☐ Frankfort KY (502) 223-0251 ☐ Morrisville, NC (919) 380-9699
☐ Lumberton, NC (910) 738-6190 5781 ☐ Lexington, SC (803) 796-8989 ☐ Brighton, CO (303) 659-0497 ☐ Macon, GA (912) 757-0811 ☐ Orlando, FL (407) 851-2560

Client: The Fletcher Group
Report Address: 48 Patton Ave, Suite 303, Asheville, NC 28801
Attn: Stu Ryman
Phone No.: (828) 281-3350
Fax No.: (828) 281-3351

Project No.: 2040.02
Invoice Address: 48 Patton Ave Suite 303, Asheville, NC 28801
Attn: Stu Ryman
Sampled By: Amani Ashby
P.O. No: —
State Samples Collected: NC

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days Date Needed:

REQUESTED PARAMETERS

LAB CODE I.D.
A = Asheville, NC
C = Charlotte, NC
D = Denver, CO
E = Lexington, SC
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Norcross, GA
O = Orlando, FL
S = Subcontracted

Sample ID	Date	Time	Comp/Grab	Matrix	Containers	Method 8081	Method 8270	Method 8151	Method 8141	Method 6010 (Metals)	Method for CN	Method for Sulfide	Method 8260			← Preserv.	REMARKS
012099-01	1/20/99	1200	Grab	GW	11	1	1	1	1	1	1	1	4	9714			* Please refer to
012099-02	1/20/99	1230	Grab	GW	11	1	1	1	1	1	1	1	4	9715			attached constituent
012099-03	1/20/99	1400	Grab	SW	11	1	1	1	1	1	1	1	4	9716			list for any
012099-04	1/20/99	1445	Grab	SW	11	1	1	1	1	1	1	1	4	9717			revised methods and/or
																	special reporting
LAB USE	1/20/99	1300	Grab	GW	8	2	2	2	2	—	—	—	—				limits.
																	[At specialized Assays
																	talk to Mary Louise]

NO CONTAINER received

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

Init Lab Temp. | Rec. Lab Temp

COMMENTS: Attn: Dinah Trammell

	Date	Time		Date	Time
Relinquished By: Amani Ashby	1/20/99	1726	Received By: Donald Grant	1/20/99	1726
Relinquished By: Donald Grant	1/21/99	0910	Received By:		
Relinquished By:			Received By:		
Relinquished By:			Received By: P. Riley	1/22/99	9:00

Lab Use Only:
CN pH 12
Metals pH < 2
Sulfide pH 9

Chain of Custody Record

☒ Asheville, NC (828) 254-5169 ☐ Lumberton, NC (910) 738-6190 ☐ Norcross, GA (770) 368-0636 ☐ Lexington, SC (803) 796-8989 ☐ Charlotte, NC (704) 392-1164 ☐ Brighton, CO (303) 659-0497 ☐ Frankfort KY (502) 223-0251 ☐ Macon, GA (912) 757-0811 ☐ Morrisville, NC (919) 380-9699 ☐ Orlando, FL (407) 851-2560

Client: The Fletcher Group
Project No.: 2040.02
Report Address: 48 Patton Ave, Suite 303, Asheville, NC 28801
Invoice Address: 48 Patton Ave Suite 303, Asheville, NC 28801
Attn: Stu Ryman
Attn: Stu Ryman
Phone No.: (828) 281-3350
Sampled By: Amani Ashby
Fax No.: (828) 281-3351
P.O. No: —
State Samples Collected: NC

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days
Date Needed:

REQUESTED PARAMETERS

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Sample ID	Date	Time	Comp/Grab	Matrix	Containers	Method 8081	Method 8010	Method 8151	Method 8011	Method 6010 (Metals)	Method for CN	Method for Sulfide	Method 8260			← Preserv.	REMARKS
012099-01	1/20/99	12:00	Grab	GW	11	1	1	1	1	1	1	1	4				* Please refer to attached constituent list for any revised methods and/or special reporting limits.
012099-02	1/20/99	12:30	Grab	GW	11	1	1	1	1	1	1	1	4				
012099-03	1/20/99	14:00	Grab	SW	11	1	1	1	1	1	1	1	4				
012099-04	1/20/99	14:45	Grab	SW	11	1	1	1	1	1	1	1	4				
LAB USE	1/20/99	13:00	Grab	GW	8	2	List? 2	2	2	—	—	List?					[At specialized Assay: talk to Mary Louise]
per Dinah 1/25 8:10AM																	
on USD 012099-01																	

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

Init Lab Temp. | Rec. Lab Temp

MB 1/22

COMMENTS: Attn: Dinah Trammell

Relinquished By	Date	Time	Received By	Date	Time
Amani Ashby	1/20/99	1726	Rhonda Yount	1/20/99	1726
Rhonda Yount	1/21/99	0910			

Lab Use Only:
CN pH 12
Metals pH < 2
Sulfide pH 9

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APPENDIX II - CONSTITUENTS FOR ASSESSMENT MONITORING (40 CFR PART 258)

	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
VOLATILES					4 VOAs w/ HCl	14 days
Acetone	67-64-1		0.010	8260B		
Acetonitrile Methyl cyanide	75-05-8		0.005	8260B		
Acrolein	107-02-8		0.010	8260B		
Acrylonitrile	107-13-1		0.010	8260B		
Allyl chloride	107-05-1		0.010	8260B		
Benzene	71-43-2	0.005	0.002	8260B		
Bromochloromethane; Chlorobromomethane	74-97-5		0.002	8260B		
Bromodichloromethane; Dichlorobromomethane	75-27-4	**	0.002	8260B		
Bromoform; Tribromomethane	75-25-5	**	0.002	8260B		
Carbon disulfide	75-15-0		0.002	8260B		
Carbon tetrachloride	56-23-5	0.005	0.002	8260B		
Chlorobenzene	108-90-7	0.1	0.002	8260B		
Chloroethane; Ethyl chloride	75-00-3		0.002	8260B		
Chloroform; Trichloromethane	67-66-3	**	0.002	8260B		
Chloroprene	126-99-8		0.005	8260B		
Dibromochloromethane; Chlorodibromomethane	124-48-1	**	0.002	8260B		
1,2-Dibromo-3-chloropropane; DBCP	96-12-8	0.0002	0.0001	504.1		
1,2-Dibromoethane; Ethylene dibromide; EDB	106-93-4	0.00005	0.00005	504.1		
o-Dichlorobenzene	95-50-1	0.6	0.002	8260B		
m-Dichlorobenzene	541-73-1		0.002	8260B		
p-Dichlorobenzene	106-46-7	0.075	0.002	8260B		
trans-1,4-Dichloro-2-butene	110-57-6		0.002	8260B		
Dichlorodifluoromethane	75-71-8		0.002	8260B		
1,1-Dichloroethane; Ethylidene chloride	75-34-3		0.002	8260B		
1,2-Dichloroethane; Ethylene dichloride	107-06-2	0.005	0.002	8260B		
1,1-Dichloroethylene; Vinylidene chloride; 1,1-Dichloroethene	75-35-4	0.007	0.002	8260B		
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	156-59-2	0.07	0.002	8260B		
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	156-60-5	0.1	0.002	8260B		
1,2-Dichloropropane; Propylene dichloride	78-87-5	0.005	0.002	8260B		
1,3-Dichloropropane; Trimethylene dichloride	142-28-9		0.002	8260B		
2,2-Dichloropropane; Isopropylidene chloride	594-20-7		0.002	8260B		
1,1-Dichloropropene	563-58-6		0.002	8260B		
cis-1,3-Dichloropropene	10061-01-5		0.002	8260B		
trans-1,3-Dichloropropene	10061-02-6		0.002	8260B		
Ethylbenzene	100-41-4	0.7	0.010	8260B		
Ethyl methacrylate	97-63-2		0.010	8260B		
2-Hexanone; Methyl butyl ketone	591-78-6		0.010	8260B		
Isobutyl alcohol	78-83-1		0.005	8260B		
Methacrylonitrile	126-98-7		0.010	8260B		
Methyl bromide Bromomethane	74-83-9		0.002	8260B		
Methyl chloride, Chloromethane	74-87-3		0.010	8260B		
Methyl ethyl ketone, MEK, 2-Butanone	78-93-3		0.002	8260B		
Methyl iodide, Iodomethane	74-88-4		0.005	8260B		
Methyl methacrylate	80-62-6		0.010	8260B		
4-Methyl-2-pentanone, Methyl isobutyl ketone	108-10-1		0.002	8260B		
Methylene bromide; Dibromomethane	74-95-3		0.002	8260B		
Methylene chloride; Dichloromethane	75-09-2	0.005	0.005	8260B		
Propionitrile, Ethyl cyanide	107-12-0		0.002	8260B		
Styrene	100-42-5	0.1	0.002	8260B		
1,1,1,2-Tetrachloroethane	630-20-6		0.002	8260B		
1,1,2,2-Tetrachloroethane	79-34-5		0.002	8260B		
Tetrachloroethylene, Tetrachloroethene Perchloroethylene	127-18-4	0.005	0.002	8260B		
Toluene	108-88-3	1	0.002	8260B		
1,1,1-Trichloroethane Methyl chloroform	71-55-6	0.2	0.002	8260B		
1,1,2-Trichloroethane	79-00-5	0.005	0.002	8260B		
Trichloroethylene Trichloroethene	79-01-6	0.005	0.002	8260B		
Trichlorofluoromethane	79-69-4		0.002	8260B		
1,2,3-Trichloropropane	96-18-4		0.002	8260B		
Vinyl acetate	108-05-4		0.002	8260B		
Vinyl chloride Chloroethene	75-01-4	0.002	0.002	8260B		
Xylene (total)*		10	0.002	8260B		

Report
0.002 Compds → 0.001
0.010 Compds → 0.00

*95-47-6, 108-38-3, 106-42-3, 1330-20-7.
**The sum of these four compounds (Total Trihalomethanes) should not exceed 0.10 mg/l.

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	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
SEMIVOLATILES						
Acenaphthene	83-32-9		0.010	8270C	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
Acenaphthylene	208-96-8		0.010	8270C		
Acetophenone	98-86-2		0.050	8270C		
2-Acetylaminofluorene; 2-AAF	53-96-3		0.050	8270C		
4-Aminobiphenyl	92-67-1		0.050	8270C		
Anthracene	120-12-7		0.010	8270C		
Benzo[a]anthracene; Benzathracene	56-55-3		0.010	8270C		
Benzo[b]fluoranthene	205-99-2		0.010	8270C		
Benzo[k]fluoranthene	207-08-9		0.010	8270C		
Benzo[ghi]perylene	191-24-2		0.050	8270C		
Benzyl alcohol	100-51-6		0.010	8270C		
Bis(2-chloroethoxy)methane	111-91-1		0.010	8270C		
Bis(2-chloroethyl)ether; Dichloroethyl ether	111-44-4		0.010	8270C		
Bis(2-chloro-1-methylethyl) ether; 2,2-Dichlorodiisopropyl ether; DCIP	108-60-1		0.010	8270C		
Bis(2-ethylhexyl) phthalate	117-81-7	0.006	0.010	8270C		
4-Bromophenyl phenyl ether	101-55-3		0.010	8270C		
Butyl benzyl phthalate	85-68-7		0.010	8270C		
p-Chloroaniline; 4-Chloroaniline	106-47-8		~~0.050~~ 10	8270C		
Chlorobenzilate	510-15-6		0.010	8270C		
p-Chloro-m-cresol; 4-Chloro-3-methylphenol	59-50-7		0.010	8270C		
2-Chloronaphthalene	91-58-7		0.010	8270C		
2-Chlorophenol	95-57-8		0.010	8270C		
4-Chlorophenyl phenyl ether	7005-72-3		0.010	8270C		
Chrysene	218-01-9		0.010	8270C		
m-Cresol; 3-Methylphenol	108-39-4		0.010	8270C		
o-Cresol; 2-Methylphenol	95-48-7		0.010	8270C		
p-Cresol, 4-Methylphenol	106-44-5		~~0.050~~ 10	8270C		
Diallate	2303-16-4		0.010	8270C		
Dibenz[a,h]anthracene	53-70-3		0.010	8270C		
Dibenzofuran	132-64-9		0.010	8270C		
Di-n-butyl phthalate	84-74-2		0.020 ✓	8270C		
3,3'-Dichlorobenzidine	91-94-1		0.010	8270C		
2,4-Dichlorophenol	120-83-2		~~0.050~~ 10	8270C		
2,6-Dichlorophenol	87-65-0		0.010	8270C		
Diethyl phthalate	84-66-2					
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	297-97-2		~~0.050~~ 20	8270C		
Dimethoate	60-51-5		~~0.050~~ 20	8270C		
p-(Dimethylamino)azobenzene	60-11-7		~~0.050~~ 10	8270C		
7,12-Dimethylbenz[a]anthracene	57-97-6		~~0.050~~ 10	8270C		
3,3'-Dimethylbenzidine	119-93-7		0.020 10	8270C		
2,4-Dimethylphenol	105-67-9		0.010	8270C		
Dimethyl phthalate	131-11-3		0.010	8270C		
m-Dinitrobenzene	99-65-0		~~0.050~~ 20	8270C		
4,6-Dinitro-o-cresol, 4,6-Dinitro-2-methylphenol	534-52-1		0.025	8270C		
2,4-Dinitrophenol	51-28-5		0.025	8270C		
2,4-Dinitrotoluene	121-4-2		0.010	8270C		
2,6-Dinitrotoluene	606-20-2		0.010	8270C		
Di-n-octyl phthalate	117-84-0		0.010	8270C		
Diphenylamine	122-39-4		~~0.050~~ 10	8270C		
Ethyl methanesulfonate	62-50-0		~~0.050~~ 20	8270C		
Famphur	52-85-7		~~0.050~~ 10	8270C		
Fluoranthene	206-44-0		0.010	8270C		
Fluorene	86-73-7		0.010	8270C		
Hexachlorobenzene	118-74-1	0.001	0.010	8270C		
Hexachlorobutadiene	87-68-3		0.010	8270C		
Hexachlorocyclopentadiene	77-47-4	0.05	0.010	8270C		
Hexachloroethane	67-72-1		~~0.050~~ 10	8270C		
Hexachlorophene	1888-71-7		0.010	8270C		
Indeno[1,2,3-cd]pyrene	193-39-5		~~0.050~~ 20	8270C		
Isodrin	465-73-6		0.010	8270C		
Isophorone	78-59-1		~~0.050~~ 10	8270C		
Isosafrole	120-58-1		0.050	8270C		
Methapyrilene	91-80-5		~~0.050~~ 10	8270C		
3-Methylcholanthrene	56-49-5		~~0.050~~ 10	8270C		
Methyl methanesulfonate	66-27-2		0.010	8270C		
2-Methylnaphthalene	91-57-6		0.010	8270C		
Naphthalene	91-20-3		~~0.050~~ 10	8270C		
1,4-Naphthoquinone	130-15-4					

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1-Naphthylamine	134-32-7		~~0.050~~ 10	8270C		
2-Naphthylamine	91-59-8		~~0.050~~ 10	8270C		
o-Nitroaniline; 2-Nitroaniline	88-74-4		0.025	8270C		
m-Nitroaniline;3-Nitroaniline	99-09-2		0.025	8270C		
p-Nitroaniline; 4-Nitroaniline	100-01-6		~~0.025~~ 20	8270C		
Nitrobenzene	98-95-3		0.010	8270C		
o-Nitrophenol; 2-Nitrophenol	88-75-5		0.010	8270C		
p-Nitrophenol; 4-Nitrophenol	100-02-7		0.025	8270C		
N-nitrosodi-n-butylamine	924-16-3		~~0.050~~ 10	8270C		
N-nitrosodiethylamine	55-18-5		~~0.050~~ 20	8270C		
N-nitrosodimethylamine	62-75-9		0.010	8270C		
N-nitrosodiphenylamine	86-30-6		0.010	8270C		
N-nitrosodipropylamine, Di-n-propyl-nitrosamine; N-nitroso-n-dipropylamine	621-64-7		~~0.050~~ 10	8270C		
N-nitrosomethylethylamine	1059-95-6		~~0.050~~ 20	8270C		
N-nitrosopiperidine	100-75-4		~~0.050~~ 40	8270C		
N-nitrosopyrrolidine	930-55-2		~~0.050~~ 10	8270C		
5-Nitro-o-toluidine	99-55-8		~~0.050~~ 10	8270C		
Pentachlorobenzene	608-93-5		~~0.050~~ 20	8270C		
Pentachloronitrobenzene	82-68-8		~~0.050~~ 20	8270C		
Phenacetin	62-44-2		0.010	8270C		
Phenanthrene	85-01-8		0.010	8270C		
Phenol	108-95-2		~~0.050~~ 10	8270C		
p-Phenylenediamine	106-50-3		~~0.050~~ 10	8270C		
Pronamide	23950-58-5		0.010	8270C		
Pyrene	122-00-9		~~0.050~~ 10	8270C		
Safrole	94-59-7		~~0.050~~ 10	8270C		
1,2,4,5-Tetrachlorobenzene	129-00-0		~~0.050~~ 10	8270C		
2,3,4,6-Tetrachlorophenol	95-94-3		~~0.050~~ 10	8270C		
o-Toluidine	95-95-4		0.010	8270C		
1,2,4-Trichlorobenzene	88-06-2		~~0.050~~ 10	8270C		
2,4,5-Trichlorophenol	120-82-1		~~0.050~~ 10	8270C		
2,4,6-Trichlorophenol	95-95-4		~~0.050~~ 10	8270C		
O,O,O-Triethyl phosphorothioate; Terbufos	88-06-2		~~0.050~~ 10	8270C		
sym-Trinitrobenzene, 1,3,5-Trinitrobenzene	126-68-1		~~0.050~~ 10	8270C		
Benzo[a]pyrene	99-35-4	0.0002	~~0.0002~~ 10	~~8310~~ SETIC	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
ORGANOCHLORINE PESTICIDES/PCBs						
Aldrin	309-00-2		0.00005	8081A		
alpha-BHC; alpha-Benzene hexachloride	319-84-6		0.00005	8081A		
beta-BHC; beta-Benzene hexachloride	319-85-7		0.00005	8081A		
delta-BHC;delta-Benzene hexachloride	319-86-8		0.00005	8081A		
gamma-BHC; gamma-Benzene hexachloride; Lindane	58-89-9	0.0002	0.00005	8081A		
Chlordane	***	0.002	0.0001	8081A		
4,4'-DDD	72-54-8		0.0001	8081A		
4,4'-DDE	72-55-9		0.0001	8081A		
4,4'-DDT	50-29-3		0.0001	8081A		
Dieldrin	60-57-1		~~0.0025~~	8081A	.001	
Dinoseb, DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7		0.00005	8081A		
Endosulfan I	959-98-8		0.0001	8081A		
Endosulfan II	33213-65-9		0.0001	8081A		
Endosulfan sulfate	1031-07-8		0.0001	8081A		
Endrin	72-20-8	0.002	0.0001	8081A		
Endrin aldehyde	7421-93-4		~~0.0001~~	8081A	0.00005	
Heptachlor	72-44-8	0.0004	0.00005	8081A		
Heptachlor epoxide	1024-57-3	0.0002	0.0001	8081A		
Methoxychlor	72-43-5	0.04	0.003	8081A		
Toxaphene	8001-35-2	0.003	0.0005	8081A		
Polychlorinated biphenyls; PCBs; Aroclors	****	0.0005	0.0005	8081A		

***12674-11-2, 11104-28-2, 11141-16-5, 53469-21-9, 12672-29-6, 11097-69-1, 11096-82-5
****1336-36-3, 12674-11-2, 11104-28-2, 11141-16-5, 53469-21-9, 12672-29-6, 11097-69-1, 11096-82-5

ORGANOPHOSPHORUS PESTICIDES						
Disulfoton	298-04-4		0.001	8141A	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
Kepone	143-50-0		0.001	8141A		
Methyl parathion; Parathion methyl	298-00-0		0.001	8141A		
Parathion	56-38-2		0.001	8141A		
Phorate	298-02-2		0.001	8141A		
HERBICIDES						
2,4-D, 2,4-Dichlorophenoxyacetic acid	94-75-7	0.02	0.005	8151A	1 liter, Amber-glass	7 days until extraction, 40 days after extraction
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5		0.0005	8151A		
2,4,5-TP; 2,4,5-Trichlorophenoxypropanoic acid, Silvex	93-72-1	0.05	0.0005	8151A		
	87-86-5	0.001	~~0.001~~ 10	~~8151A~~ 8270C		

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	CAS Registry Number	Maximum Contaminant Level (mg/l)	SAI Routine Practical Quantitation Limit (mg/l)	SW-846 or EPA Method Number	Containers	Holding Time
METALS						
Antimony		0.006	0.005	6010B	1 250-ml, Plastic w/ HNO3	6 months
Arsenic		0.05	0.005	6010B		
Barium		2.0	0.010	6010B		
Beryllium		0.004	~~0.004~~	6010B	.002	
Cadmium		0.005	0.001	6010B		
Chromium		0.1	0.005	6010B		
Cobalt			~~0.020~~	6010B	.010	
Copper		1	0.010	6010B		
Lead		0.015	0.003	6010B		
Nickel		0.1	0.010	6010B		
Selenium		0.05	0.005	6010B		
Silver		0.1	0.005	6010B		
Thallium		0.002	0.002	6010B		
Tin			0.050	6010B		
Vanadium			0.020	6010B		
Zinc			0.020	6010B		
Mercury		5	0.0002	7470A		28 days
OTHER INORGANICS						
Cyanide	57-12-5	0.2 as Free	0.010	9012A	1 250-ml, Plastic w/ NaOH	14 days
Sulfide	18496-25-8		0.1	377.1		7 days

APPENDIX C

GROUNDWATER VELOCITY CALCULATION

JACKSON COUNTY LANDFILL

GROUNDWATER VELOCITY CALCULATION

JANUARY 1999

K (cm / sec)	I (cm/cm)	n	V (cm/sec)	V (ft/sec)	V (ft/yr)	V (ft/day)
7.30E-04	0.08	0.35	0.00016686	5.47458E-06	172.6	0.48
7.30E-04	0.08	0.3	0.00019467	6.38701E-06	201.4	0.56
7.30E-04	0.16	0.35	0.00033371	1.09492E-05	345.3	0.96
7.30E-04	0.16	0.3	0.00038933	1.2774E-05	402.8	1.12

$V = KI / n$

data sources: Hydraulic conductivity (K) from pg 13 of the March 23, 1994 document "*Portion of Transition Plan, Existing Jackson County MSWLF*"

Hydraulic gradient (I) calculated using MW-1 and MW-3 water level data - January 1999

effective porosity (n) of 30% to 35% based on literature values for sand and silt mixtures