06-01

4-28-00

Fac/Perm/Co ID #	Date	Doc ID#
BC	6/4/06	DIN

* No VOCs

ENGINEERING TECTONICS, P.A.
ENGINEERS · GEOLOGISTS · HYDROLOGISTS
P.O. Box I, Winston-Salem, NC 27108 (336) 724-6994

Fac/Perm/Co ID #	Date	Doc ID#
BC	6 1 9 1 08	DIN

Groundwater and Surface Water Monitoring Report

Old Avery County Landfill
Newland, North Carolina

ETPA Project No: 90-247

Prepared for:

County of Avery
PO Box 640
Newland, North Carolina 28657

Monday, June 19, 2000

Engineering Tectonics, P.A.
Environmental Geotechnical and Drilling Services
1720 Vargrave Street
Winston-Salem, North Carolina 27107
(336) 724-6994

Groundwater Monitoring Well and Stream Sampling

On [redacted] Engineering Tectonics, P.A. (ETPA) personnel mobilized to the Old Avery County Landfill to sample three (3) groundwater monitoring wells (MW-1 through MW-3), as well as to collect two (2) stream samples (Stream 1 and Stream 2), as per North Carolina Department of Environment and Natural Resources (NCDENR) permit #06-02. Please refer to Figure 1 for a site location map. Stream sample 1 was collected upstream of MW-3 from a branch of Brushy Creek immediately bordering the site. Stream 2 was collected from Brushy Creek downstream of the landfill. See Figure 2 for a site map of the landfill with sample locations shown.

The depth to water was measured in each monitoring well, and each well was purged prior to sampling with a new disposable Teflon bailer. A minimum of three volumes of water was purged from each well, and water samples collected according to EPA sampling protocols. The samples were packed on ice, and sent to an analytical laboratory, using EPA approved chain of custody procedures. The samples were submitted for analysis using EPA method 8260, chloride, fluoride, nitrate, pH, TDS, sulfate, arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. A field measurement of pH was also taken. Standard Procedures for Groundwater Sampling are included in Appendix A. Please note that no samples were filtered in the field.

Ground Water Static Levels

Static water levels were measured as 8.90, 4.60, and 5.10 feet for monitoring wells MW-1, MW-2, and MW-3, respectively (see Table 1). A groundwater contour map is included as Figure 3.

Laboratory Results

Field measurements and laboratory results for groundwater and stream samples are presented in Tables 2 and 3. Field measurements indicate that monitoring well two had a pH of 6.4. This is out of the allowable range of 6.5-8.5 set by NCDENR. The most recent prior monitoring event (October 1, 1999), revealed pH readings were out of compliance with NCDENR limits in monitoring wells one and three at 5.90 and 6.10 respectively.

The level of lead in MW-2 was reported to be 0.021 parts per million (ppm), which is above the limit of 0.015 ppm set by NCDENR. Previously (10/1/99), MW-1 and MW-2 were both out of compliance for lead with 0.031 ppm and 0.026 ppm, respectively. All well and stream samples were ND (Not Detected) for EPA Method 8260. A copy of the laboratory results is included in Appendix B.

Stream sample one was out of compliance for pH at 8.6. This represents an increase from 7.0 during the previous measuring event of 10/1/99. Stream sample two was out of compliance for nitrate at 36.8 ppm. This is well above the limit of 10.0 ppm set by NCDENR and also above the previous sampling event level of 0.11 ppm. This may represent a breakthrough pollutant that needs further investigation. We recommend a retest of this well for nitrate to verify this nearly three magnitude increase over the last event.

Limitations and Certification

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

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

In providing this report, ENGINEERING TECTONICS, P.A. does not assume any responsibilities of the party, or parties, deemed legally responsible for the subject site. It is not the responsibility of ENGINEERING TECTONICS, P.A. to report our findings to any other person or persons, including conditions that

may present a potential danger to public health, safety, or the environment, as may be required by law.

Prepared by: Kevin Puckett Date: 6-19-00

Kevin Puckett
Staff Geologist

Alan Barry Nelson

Barry Nelson, P.G.
Chief Geologist

NORTH CAROLINA LICENSED SEAL Date 65 GEOLOGIST ALAN BARRY NELSON

Tables

Table 1
Groundwater Elevations

Station	Screen Depth	Elevation	Static	Gw Elevation
MW-1	24'	76.98	8.90	68.08
MW-2	15'	79.29	4.60	74.69
MW-3	15'	100.00	5.10	94.90

Note:
All measurements are in feet and are taken from each well's top of PVC casing (TOC),
with the exception of MW-2, measurements for this point were/are taken from the top of the metal outer casing of the well.
Survey conducted on 10/29/98.
MW-3 was used as a temporary bench mark with an assumed elevation of 100.00 feet
Static measurements taken on 4/28/00.

Table 2

Groundwater Monitoring Well Laboratory Results

April 28, 2000

Chloride	23.8	9.48	7.25	**250**
Fluoride	ND	ND	ND	**2.0**
Nitrate	ND	ND	ND	**10.0**
pH	6.6	**6.4**	6.70	**6.5-8.5**
TDS	106	54.0	74.0	**NA**
Sulfate	2.0	6.20	ND	**250**
Arsenic	ND	0.007	0.005	**0.05**
Barium	0.270	0.051	0.075	**2.0**
Cadmium	ND	ND	ND	**0.005**
Chromium	ND	0.008	0.005	**0.05**
Lead	0.006	**0.021**	0.005	**0.015**
Mercury	ND	ND	ND	**0.0011**
Selenium	ND	0.006	0.010	**0.05**
Silver	ND	ND	ND	**0.018**

Results are presented in parts per million (ppm) unless otherwise specified.
*Results presented in **BOLD** are in violation of 2L standards.*
NA = Not Applicable.
ND = Not Detected at the report limit.

Table 3

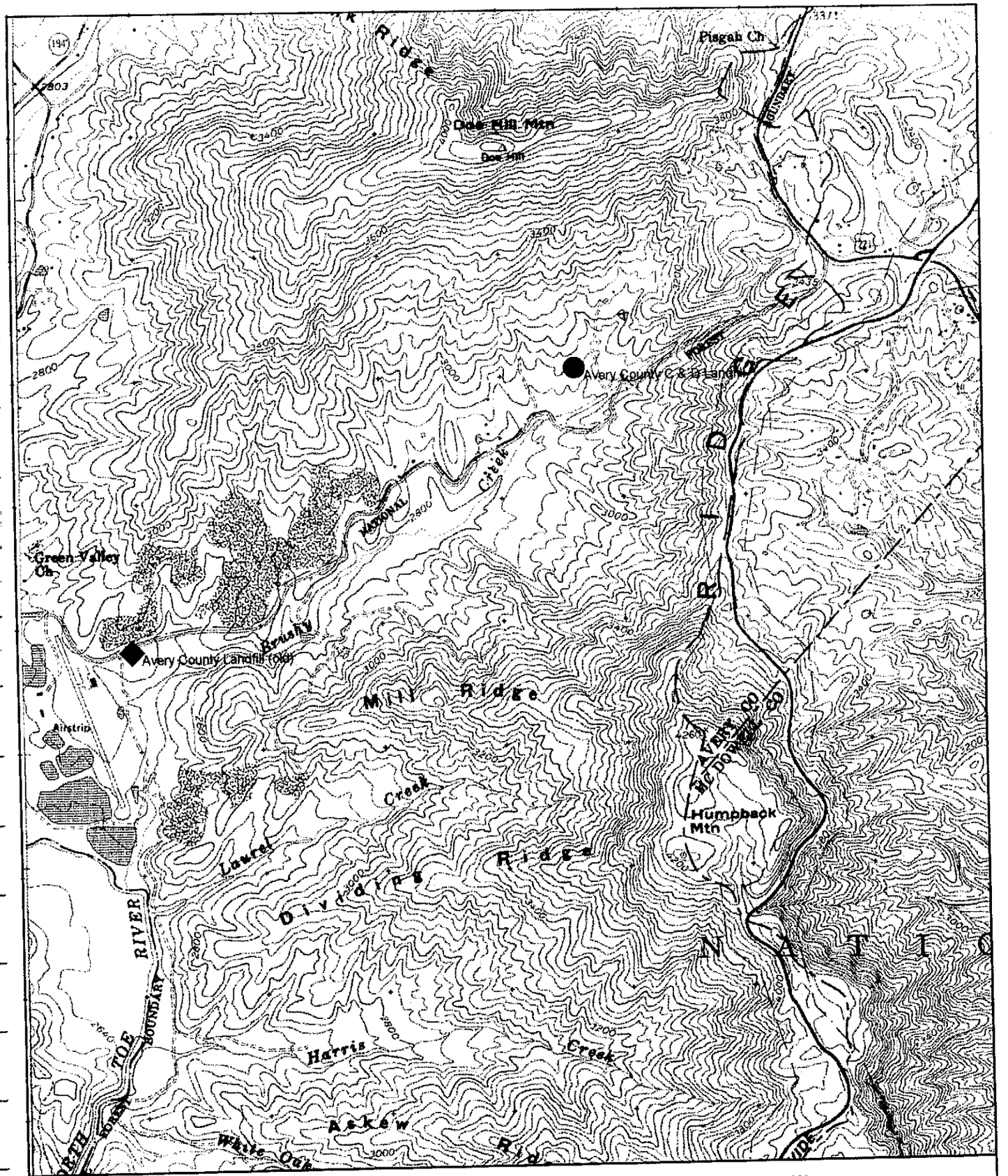
Stream Sampling Laboratory Results

April 28, 2000 ?

[illegible]	[illegible]	[illegible]	[illegible]
Chloride	2.36	2.02	**230**
Fluoride	ND	ND	**1.8**
Nitrate	0.40	[redacted]	**10.0**
pH	[redacted]	7.60	**6.0-8.5**
TDS	92.0	92	**NA**
Sulfate	1.90	1.70	**250**
Arsenic	ND	ND	**0.05**
Barium	0.030	0.022	**1.0**
Cadmium	ND	ND	**0.002**
Chromium	ND	ND	**0.05**
Lead	0.004	ND	**0.025**
Mercury	ND	ND	**0.000012**
Selenium	ND	ND	**0.005**
Silver	ND	ND	**0.00006**

Results are presented in parts per million (ppm) unless otherwise specified.
*Results presented in **BOLD** are in violation of surface water standards.*
NA = Not Applicable.
ND = Not Detected, Below Method Detection Limits.

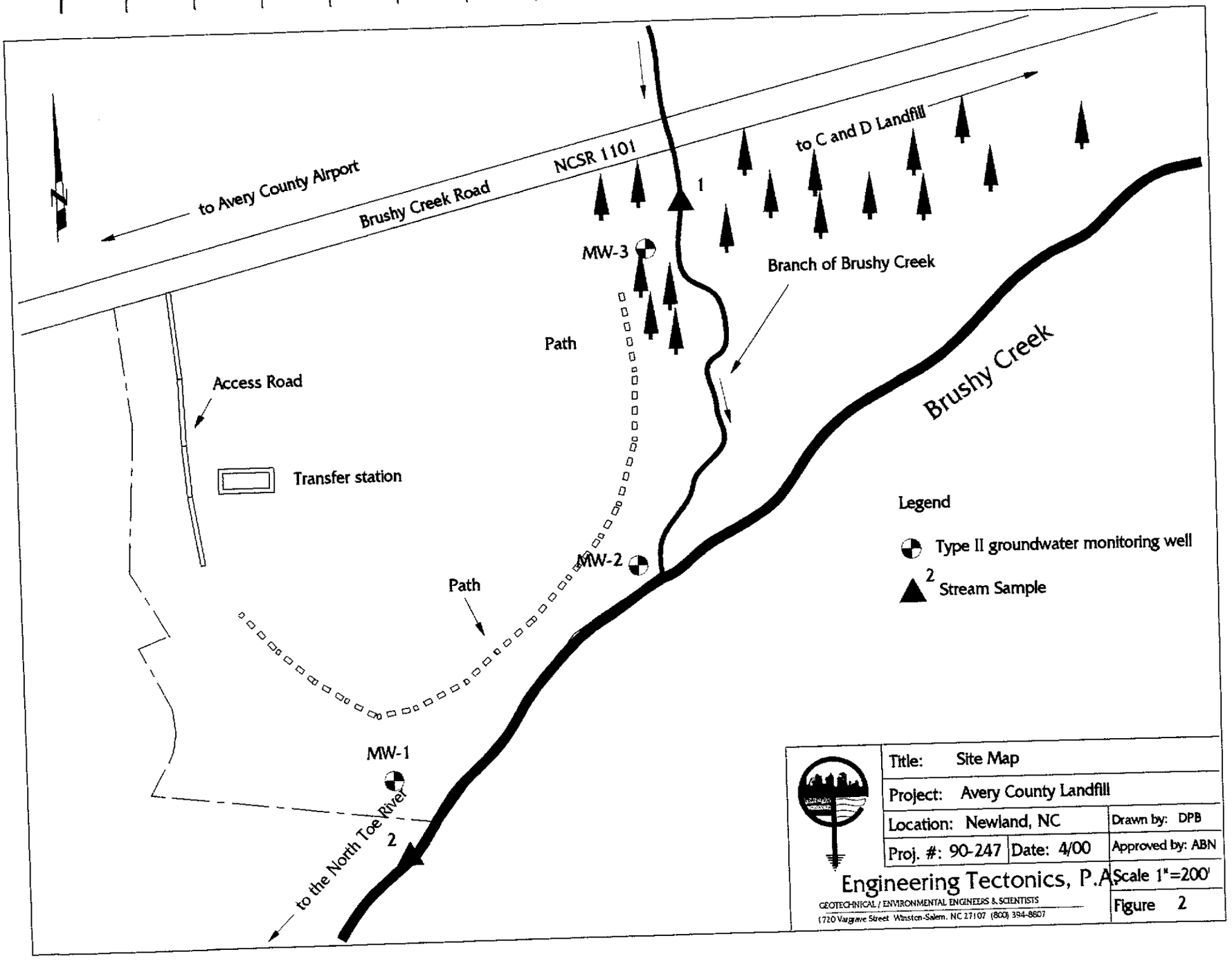
Figures

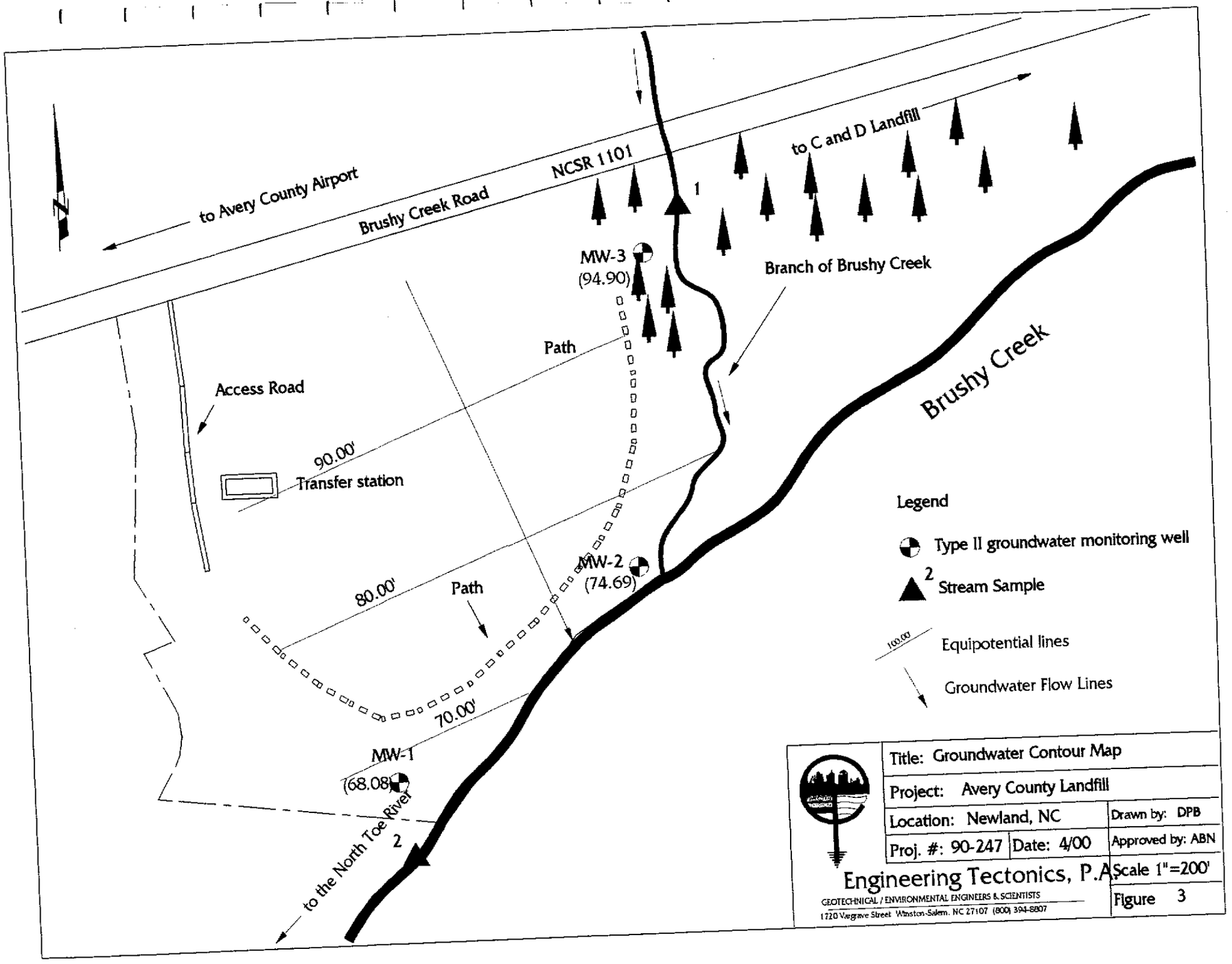


Name: LINVILLE FALLS
Date: 6/15/100
Scale: 1 inch equals 2000 feet

Location: 035° 57' 03.3" N 081° 58' 24.2" W
Caption: Figure 1 USGS Topographic Map

Copyright (C) 1997, Maptech, Inc.


to Avery County Airport
Brushy Creek Road
NCSR 1101
to C and D Landfill
1
MW-3
Branch of Brushy Creek
Path
Access Road
Transfer station
Brushy Creek
MW-2
Path
MW-1
2
to the North Toe River
Legend
Type II groundwater monitoring well
2 Stream Sample
Title: Site Map
Project: Avery County Landfill
Location: Newland, NC
Drawn by: DPB
Proj. #: 90-247
Date: 4/00
Approved by: ABN
Scale 1"=200'
Figure 2
Engineering Tectonics, P.A.
GEOTECHNICAL / ENVIRONMENTAL ENGINEERS & SCIENTISTS
1720 Vargrave Street Winston-Salem, NC 27107 (800) 394-8807


to Avery County Airport
Brushy Creek Road
NCSR 1101
to C and D Landfill
1
MW-3
(94.90)
Branch of Brushy Creek
Path
Access Road
90.00'
Transfer station
Brushy Creek
MW-2
(74.69)
80.00'
Path
70.00'
MW-1
(68.08)
2
to the North Toe River
Legend
Type II groundwater monitoring well
2
Stream Sample
100.00
Equipotential lines
Groundwater Flow Lines
Title: Groundwater Contour Map
Project: Avery County Landfill
Location: Newland, NC
Drawn by: DPB
Proj. #: 90-247
Date: 4/00
Approved by: ABN
Engineering Tectonics, P.A.
GEOTECHNICAL / ENVIRONMENTAL ENGINEERS & SCIENTISTS
1720 Vargrave Street Winston-Salem, NC 27107 (800) 394-8807
Scale 1"=200'
Figure 3

Appendix A

ENGINEERING TECTONICS, P.A.

FIELD METHOD 96-007

FIELD PROCEDURES FOR COLLECTION OF GROUND WATER SAMPLES

TABLE OF CONTENTS

1.0	PURPOSE	1
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	6.3 Sample Collection	2

1.0 PURPOSE

To establish a standard procedure for collection of ground water samples.

2.0 SCOPE

The following procedure describes the logistics, collection techniques and documentation requirements for collecting ground water samples.

3.0 RESPONSIBILITY

Project Manager, Project Hydrogeologist, and Field Sampling Technicians.

4.0 SUPPORTING PROCEDURES

- FM 96-003 Cleaning of Glassware and Equipment for Field SamplingPrograms.
- FM 96-002 Chain-of-Custody Procedures.
- FM 96-004 Soil and Water Sample Preservation Procedures
- FM 96-008 Filtering of Water for Dissolved Metals Analysis.

5.0 REQUIRED FORMS

Chain-of-Custody forms.

6.0 PROCEDURE

6.1 Selection of Sampling Locations

Groundwater sampling locations in and around a contaminated site are typically existing domestic, production, and groundwater monitoring wells. The location of new groundwater sampling points will be based upon the review of existing site geohydrological data, the results of preliminary site surveys, and the initial estimates of the extent of contamination. The groundwater sampling locations will be chosen by the project geologist/engineer. If possible, one upgradient and three downgradient samples from the uppermost aquifer will be taken.

6.2 Equipment List

1. Latex gloves and any other personal safety equipment specified in the Site Health and Safety Plan.

2. Sample containers. Number and kind will depend on the analytical requirements.

3. Device to measure water levels in wells to within 0.01 feet. Typically a fiberglass tape with a "plopper" or chalk, or an electronic water level indicator, is used.

4. Field notebook.

5. Sample bottle labels.

6. A large volume bailer or pump to evacuate the wells.

7. Teflon or PVC bailer with polypropylene or stainless steel cable or a peristaltic pump with Teflon tubing, as appropriate.

8. 50-foot length of garden hose (needed only when sampling from domestic, production and other wells where the sample will be obtained from the existing well pump).

6.3 Sample Collection

Prior to the evacuation of groundwater from any well, the depth to water shall be measured to the nearest 0.01 feet. A fiberglass or steel tape marked with chalk or an electric water sensing device (e.g., Slope Indicator Water Mark) shall be used for this purpose. The device must be decontaminated to avoid contamination of the well. The depth to water is typically measured from a reference point established on the top of the inner well casing. This value is recorded in the field notebook along with the length of casing stick-up above the ground surface. If both an inner and outer casing are present, the one used as the measurement reference point shall be identified and the vertical distance between the two measured and recorded as well as the stick-up of the outer casing. The depth of the well bottom shall be sounded and the depth recorded to ascertain the well's integrity and any siltation problems.
To introduce fresh formation water into the well, a minimum of three well volumes must be evacuated from the well prior to sampling. If a well is evacuated dry prior to removing four well volumes, the evacuation is considered complete and the well is allowed to recharge to at least 75% of its original volume prior to sampling. Field parameters (i.e., pH, specific conductance and temperature) may be measured periodical during well evacuation to aid in determining water stabilization. Evacuation is accomplished by bailing with a large volume (1.5 liter) bailer, or by pumping. Whichever method is used, it must be assured that any

materials (hose, bailer, tubing, pumps, rope, etc.) entering the well be clean. If the same device is being used to evacuate a number of wells, the device must be cleaned with detergent, water, acetone and deionized water between each well to prevent crosscontamination.

The sampling procedure for groundwater is as follows:

1. Prior to collecting any water samples, place a waterproof sample label on each clean container with the following information:

a. ETPA Project No.:_____ e.g. 0012.001
b. Project Name:_____ e.g. XYZ Corporation
c. Sample No. X-GW-10-041884
where X - site initials, e.g., XYZ Site
GW - water
10 - sampling location 041184-date

d. Analysis Required:_____ e.g. TOC
e. Preservative: _____ e.g. ICED pH <2 H_2SO_4
f. Collection Time: _____ e.g. 0930
g. Date:_____ e.g. 04-11-84
h. Initials of Collector:_____ e.g. JEP

Fill in the information with a waterproof ink pen. This will prevent difficulty in filling out labels on a wet jar after it is filled.

2. Collect the groundwater sample using a clean bailer. Latex gloves shall be worn during this procedure. The temperature, pH, and conductivity of the evacuated water should be determined immediately after sample collection. These measurements should not be taken from any sample bottles being sent to the analytical laboratory for chemical analysis.

3. The vials for volatile organic analysis should always be filled with the initial bailer of water. When filling the 40 ml septum vials, care should be exercised to eliminate the formation of air bubbles. Slightly over-fill the vial, and screw on the cap. Then turn the vial upside down and tap lightly to check for air bubbles. Air bubbles of any size should not rise to the bottom of the vial. (Tiny bubbles can introduce significant error.) If air bubbles are present, empty the vial and repeat the procedure with a fresh bailer of water.

4. Fill all the remaining containers directly from the bailer, unless the well is to be sampled in duplicate. If a duplicate water sample is required, the water should be composited in a large clean container, prior to filling the sample bottles. Samples requiring volatile organic analysis should not be composited, however, an attempt should be made to fill all the vials with the initial bailer of water.

5. Avoid overflow of the bottles or jars already containing preservative (prepreserved). All samples should be gently mixed after collection and checked for proper preservation with indicator paper (i.e. pH paper).

6. If dissolved metals analysis are required, an extra bottle (no preservative) will be filled and the metals container (pre-preserved with nitric acid) will remain empty. After the water sample is field filtered through a 0.45 micron membrane filter, transfer the water into the pre-preserved metals container. This will constitute a sample for dissolved metals analysis. See Engineering Tectonics, PA FM 96-008 "Filtering of Water Samples for Dissolved Metals Analysis".

7. If samples have not been pre-preserved, preserve them as soon as possible after collection and preparation.

8. Place all sample containers into a shipping container, cool with ice packs and complete the Chain-of-Custody form.

9. Detail in the field notebook the following:

- sample identification number
- location of the sample (on the sketch map)
- time and date of sampling
- personnel performing task depth to water table, reference mark, casing(s) stick-up, and vertical distance between inner and outer casing
- Amount evacuated from well and device used for evacuation
- Visual or sensory description of the sample (color, odor, turbidity, etc.)
- Weather conditions both present and previous to sampling
- Other pertinent observations
- Sign the entry

10. Make sure the well is secured after sampling.

11. If sampling devices are to be dedicated to a particular sample location, they will be placed in a plastic bag after their use and marked or tagged:

DEDICATED TO PROJECT NO. _____

SAMPLE LOCATION NO. _____

The tags should also indicate that the dedicated equipment needs cleaning before next use. Alternatively, the sampling devices can be left hanging in the well.

12. Field investigations requiring more than one sampling event should include the use of a Master Sample Logbook and a Field Notebook. At the end of each day all samples shall be recorded in the Master Logbook. Calibration of field instruments and field chemistry measurements such as pH shall be recorded in the Field Notebook.

Prepared by: _____ Approved by: _____

Appendix B

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58743

Sample ID: MW-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Benzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Bromobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Bromochloromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Bromoform	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Bromomethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
2-Butanone	ND	ug/l	10	10	1	5/ 3/00	0:24	B. Elliott	8260B	9573
n-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
sec-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
t-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Carbon disulfide	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Carbon tetrachloride	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Chlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Chloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
2-Chloroethylvinylether	ND	ug/l	5	5	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Chloroform	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Chloromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Dibromochloromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Dibromomethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58743

Sample ID: MW-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Ethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
2-Hexanone	ND	ug/l	10	10	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Isopropylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Methylene chloride	ND	ug/l	5	5	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Naphthalene	ND	ug/l	5	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
n-Propylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Styrene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Tetrachloroethene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Toluene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Trichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Vinyl chloride	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Xylenes	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Bromodichloromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573
Trichlorofluoromethane	ND	ug/l	2	2	1	5/ 3/00	0:24	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by Mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: CO-A58743

Sample ID: MW-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Barium, Total	0.2700	mg/l	0.0100	0.0100	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Cadmium, total	ND	mg/l	0.0010	0.0010	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Chromium, total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Lead	0.0060	mg/l	0.0030	0.0030	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Mercury, Total	ND	mg/l	0.00020	0.00020	1	5/ 2/00	7:33	G.McCord	7470	8021
Selenium, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Silver, Total	ND	mg/l	0.00500	0.00500	1	5/ 3/00	9:25	R. Kelley	6010B	8419
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.10	0.10	1	4/29/00	15:12	A.Ramamti	353.2	7813
Fluoride	ND	mg/l	0.20	0.10	2	5/ 3/00	14:30	McFarland	340.2N	8452
Sulfate	2.00	mg/l	1.00	1.00	1	5/ 1/00	14:25	B.Stafford	9038	8486
Solids, Total Dissolved	106.	mg/l	20.0	20.0	1	5/ 4/00	4:00	K. McLain	160.1	957
Chloride	23.8	mg/l	1.00	1.00	1	5/ 1/00	17:17	A.Ramamti	9251	8602

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	101.	53. - 145.
VOA Surr, Toluene d8	98.	80. - 123.
VOA Surr, 4-BFB	94.	73. - 122.
VOA Surr, DBFM	100.	58. - 148.

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58744

Sample ID: MW-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
"VOLATILE ORGANICS"										
Acetone	ND	ug/l	10	10	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Benzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Bromobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Bromochloromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Bromoform	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Bromomethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
2-Butanone	ND	ug/l	10	10	1	5/ 3/00	0:58	B. Elliott	8260B	9573
n-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
sec-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
t-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Carbon disulfide	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Carbon tetrachloride	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Chlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Chloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
2-Chloroethylvinylether	ND	ug/l	5	5	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Chloroform	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Chloromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Dibromochloromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Dibromomethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58744

Sample ID: MW-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Ethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
2-Hexanone	ND	ug/l	10	10	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Isopropylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Methylene chloride	ND	ug/l	5	5	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Naphthalene	ND	ug/l	5	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
n-Propylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Styrene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Tetrachloroethene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Toluene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Trichloroethene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Vinyl chloride	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Xylenes	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Bromodichloromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573
Trichlorofluoromethane	ND	ug/l	2	2	1	5/ 3/00	0:58	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58744

Sample ID: MW-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic, Total	0.0070	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Barium, Total	0.0510	mg/l	0.0100	0.0100	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Cadmium, total	ND	mg/l	0.0010	0.0010	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Chromium, total	0.0080	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Lead	0.0210	mg/l	0.0030	0.0030	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Mercury, Total	ND	mg/l	0.00020	0.00020	1	5/ 2/00	7:13	G.McCord	7470	8021
Selenium, Total	0.0060	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Silver, Total	ND	mg/l	0.00500	0.00500	1	5/ 3/00	9:25	R. Kelley	6010B	8419
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.10	0.10	1	4/29/00	15:14	A.Bamarni	353.2	7813
Fluoride	ND	mg/l	0.20	0.10	2	5/ 9/00	14:30	McFarland	340.2M	8852
Sulfate	6.20	mg/l	1.00	1.00	1	5/ 1/00	14:25	S.Stafford	9038	8466
Solids, Total Dissolved	54.0	mg/l	20.0	20.0	1	5/ 4/00	4:00	K. McLain	160.1	957
Chloride	9.46	mg/l	1.00	1.00	1	5/ 1/00	17:15	A.Bamarni	9251	8602

ND - Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	104.	53. - 143.
VOA Surr, Toluene d8	98.	80. - 123.
VOA Surr, 4-BFB	94.	73. - 122.
VOA Surr, DBFM	101.	58. - 148.

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58745

Sample ID: MW-3

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
"VOLATILE ORGANICS"										
Acetone	ND	ug/l	10	10	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Benzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Bromobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Bromochloromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Bromoform	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Bromomethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
2-Butanone	ND	ug/l	10	10	1	5/ 3/00	1:32	B. Elliott	8260B	9573
n-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
sec-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
t-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Carbon disulfide	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Carbon tetrachloride	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Chlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Chloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
2-Chloroethylvinylether	ND	ug/l	5	5	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Chloroform	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Chloromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Dibromochloromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Dibromomethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58745

Sample ID: MW-3

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Ethylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
2-Hexanone	ND	ug/l	10	10	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Isopropylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Methylene chloride	ND	ug/l	5	5	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Naphthalene	ND	ug/l	5	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
n-Propylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Styrene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Tetrachloroethene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Toluene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Trichloroethene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Vinyl chloride	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Xylenes	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Bromodichloromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573
Trichlorofluoromethane	ND	ug/l	2	2	1	5/ 3/00	1:32	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58745

Sample ID: MW-3

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Arsenic, Total	0.0050	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Barium, Total	0.0750	mg/l	0.0100	0.0100	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Cadmium, total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chromium, total	0.0050	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Lead	0.0050	mg/l	0.0030	0.0030	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Mercury, Total	ND	mg/l	0.00020	0.00020	1	5/ 2/00	7:33	G.McCord	7470	8021
Selenium, Total	0.0100	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Silver, Total	ND	mg/l	0.00500	0.00500	1	5/ 3/00	9:25	R. Kelley	6010B	8419
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.10	0.10	1	4/29/00	15:15	A.Bamarni	353.2	7813
Fluoride	ND	mg/l	0.20	0.10	2	5/ 3/00	14:20	McFarland	340.2M	8852
Sulfate	ND	mg/l	1.00	1.00	1	5/ 1/00	14:25	S.Stafford	9038	8486
Solids, Total Dissolved	74.0	mg/l	20.0	20.0	1	5/ 4/00	4:00	K. McLain	160.1	957
Chloride	7.25	mg/l	1.00	1.00	1	5/ 1/00	17:17	A.Bamarni	9251	8602

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	104.	53. - 143.
VOA Surr, Toluene d8	99.	80. - 123.
VOA Surr, 4-BFB	94.	73. - 122.
VOA Surr, DBFM	100.	58. - 148.

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58746

Sample ID: S-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Benzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Bromobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Bromochloromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Bromoform	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Bromomethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
2-Butanone	ND	ug/l	10	10	1	5/ 3/00	2:06	B. Elliott	8260B	9573
n-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
sec-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
t-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Carbon disulfide	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Carbon tetrachloride	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Chlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Chloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
2-Chloroethylvinylether	ND	ug/l	5	5	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Chloroform	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Chloromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Dibromochloromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Dibromomethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58746

Sample ID: S-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
trans-1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Ethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
2-Hexanone	ND	ug/l	10	10	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Isopropylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Methylene chloride	ND	ug/l	5	5	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Naphthalene	ND	ug/l	5	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
n-Propylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Styrene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Tetrachloroethene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Toluene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Trichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Vinyl chloride	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Xylenes	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Bromodichloromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573
Trichlorofluoromethane	ND	ug/l	2	2	1	5/ 3/00	2:06	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: CO-A58746

Sample ID: S-1

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Barium, Total	0.0300	mg/l	0.0100	0.0100	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Cadmium, total	ND	mg/l	0.0010	0.0010	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Chromium, total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Lead	0.0040	mg/l	0.0030	0.0030	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Mercury, Total	ND	mg/l	0.00020	0.00020	1	5/ 2/00	7:33	G.McCord	7470	8021
Selenium, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Silver, Total	ND	mg/l	0.00500	0.00500	1	5/ 3/00	9:25	R. Kelley	6010B	8419
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.40	mg/l	0.10	0.10	1	4/29/00	15:15	A.Bamarni	353.2	7813
Fluoride	ND	mg/l	0.20	0.10	2	5/ 3/00	14:30	McFarland	340.2M	8852
Sulfate	1.90	mg/l	1.00	1.00	1	5/ 1/00	14:25	S.Stafford	9036	8486
Solids, Total Dissolved	92.0	mg/l	20.0	20.0	1	5/ 4/00	4:00	K. McLain	160.1	957
Chloride	2.36	mg/l	1.00	1.00	1	5/ 1/00	17:18	A.Bamarni	9251	8602

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	106.	53. - 143.
VOA Surr, Toluene d8	98.	80. - 123.
VOA Surr, 4-BFB	92.	73. - 122.
VOA Surr, DBFM	101.	58. - 148.

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: 00-A58747

Sample ID: S-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
"VOLATILE ORGANICS"										
Acetone	ND	ug/l	10	10	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Benzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Bromobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Bromochloromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Bromoform	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Bromomethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
2-Butanone	ND	ug/l	10	10	1	5/ 3/00	2:40	B. Elliott	8260B	9573
n-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
sec-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
t-Butylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Carbon disulfide	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Carbon tetrachloride	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Chlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Chloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
2-Chloroethylvinylether	ND	ug/l	5	5	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Chloroform	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Chloromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Dibromochloromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Dibromomethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: OO-A58747

Sample ID: S-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
trans-1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Ethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
2-Hexanone	ND	ug/l	10	10	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Isopropylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Methylene chloride	ND	ug/l	5	5	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Naphthalene	ND	ug/l	5	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
n-Propylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Styrene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Tetrachloroethene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Toluene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Trichloroethene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Vinyl chloride	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Xylenes	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Bromodichloromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573
Trichlorofluoromethane	ND	ug/l	2	2	1	5/ 3/00	2:40	B. Elliott	8260B	9573

TEST AMERICA INC
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ENGINEERING TECTONICS 2107
KEVIN PUCKETT
1720 VARGRAVE ST.
WINSTON-SALEM, NC 27107

Lab Number: CO-A58747

Sample ID: S-2

Date Collected: 4/28/00

Project: AVERY CO. 90-247

Time Collected: 13:00

Project Name:

Date Received: 4/29/00

Sampler: KP AV

Time Received: 9:00

State Certification: 387

Sample Type: Ground water

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Barium, Total	0.0220	mg/l	0.0100	0.0100	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Cadmium, total	ND	mg/l	0.0010	0.0010	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Chromium, total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Lead	ND	mg/l	0.0030	0.0030	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Mercury, Total	ND	mg/l	0.00020	0.00020	1	5/ 2/00	7:33	G.McCord	7470	8021
Selenium, Total	ND	mg/l	0.0050	0.0050	1	5/ 3/00	9:25	R. Kelley	6010B	8419
Silver, Total	ND	mg/l	0.00500	0.00500	1	5/ 3/00	9:25	R. Kelley	6010B	8419
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	36.8	mg/l	0.50	0.10	5	4/29/00	15:11	A.Bamarni	353.2	7813
Fluoride	ND	mg/l	0.20	0.10	2	5/ 3/00	14:30	McFarland	340.2M	8652
Sulfate	1.70	mg/l	1.00	1.00	1	5/ 1/00	14:25	S.Stafford	9038	8486
Solids, Total Dissolved	92.0	mg/l	20.0	20.0	1	5/ 4/00	4:00	K. McLain	160.1	957
Chloride	2.02	mg/l	1.00	1.00	1	5/ 1/00	17:19	A.Bamarni	9251	8602

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	104.	53. - 145.
VOA Surr, Toluene d8	98.	80. - 123.
VOA Surr, 4-BFB	93.	73. - 122.
VOA Surr, DBFM	101.	58. - 148.

TESTAMERICA INC.

Chain of Custody Record 2107 150110 Page 1 of 1

☐ Asheville, NC (A) (828) 254-5140 ☐ Buffalo, IL (C) (630) 289-3100 ☐ Cedar Falls, IA (E) (319) 277-2401 ☐ Charlotte, NC (G) (704) 392-1164 ☐ Dayton, OH (I) (937) 294-6856 ☐ Lumberton, NC (K) (910) 738-6890 ☒ Nashville, TN (M) (615) 726-0177 ☐ Pontiac, MI (O) (248) 332-1940 ☐ Rockford, IL (Q) (815) 874-3171
☐ Atlanta, GA (B) (770) 368-0636 ☐ Brighton, CO (D) (303) 659-0097 ☐ Charleston, SC (F) (843) 849-6550 ☐ Columbia, SC (H) (803) 796-0889 ☐ Davenport, IA (J) (319) 323-7944 ☐ Indianapolis, IN (L) (317) 842-8264 ☐ Macon, GA (N) (912) 757-6811 ☐ Orlando, FL (P) (407) 851-2580 ☐ Watertown, WI (R) (920) 261-3660

Client: Engineering Technology
Report Address: 1780 Vanstone
Winston-Salem NC 27107
Attn: KP
Phone No.: (336) 724-8999
Fax No.: (336) 724-2965

Project No.: Avery Co. 96-247
Invoice Address: SAME
Attn:
Sampled By: KP AV
P.O. No:
Quote No.
State Samples Collected: NC

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply) Date Needed:

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No___
Is this work being conducted for regulatory enforcement action? Yes___ No___
Which regulations apply:
RCRA___ NPDES/Wastewater___
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	8260	Acetone & 8260 Aromatics	Air 5x	Chloride, Fluoride, Nitrate, Sulfate, TDS													REMARKS
MW-1	4-28-00	1:00	G	H2O		X	X		X													58743
MW-2						X	X		X													44
MW-3						X	X		X													45
S-1						X	X		X													46
S-2						X	X		X													47
CMW-1						X	X		X													48
CMW-2						X	X		X													49
CMW-3						X	X		X													50

Fax COC to Charlotte office FAX# (704) 392-9073

COMMENTS:
Note 72 hold on metals; Also Pb. do TDS; Also date on bottles is wrong
Correction: 4/28/00

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/28/00	4:00			
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By: [signature]	4/29/00 Date	0900 Time

LAB USE ONLY

ENGINEERING TECTONICS, P.A.
GEOTECHNICAL & ENVIRONMENTAL ENGINEERS
P.O. Box I, Winston-Salem, NC 27108 (336) 724-6994

JUN 2000
Received
Waste Management
Division

Monday, June 19, 2000

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

Attention: Mr. Bill Myers

Subject: Groundwater Monitoring Reports
Avery County C and D and former sanitary landfill Sites
Newland, North Carolina
Project No. 90-247

Dear Mr. Myers,

Please find enclosed copies of groundwater and surface water monitoring reports for the Avery County sanitary and C and D landfills in Newland, North Carolina. If you have any questions concerning the above, please contact me at (336) 724-6994 extension 131. The next sampling event for the above sites is scheduled for October of 2000.

Sincerely,

ENGINEERING TECTONICS, P. A.

Kevin Puckett

Kevin Puckett
Staff Geologist

Enc.