

Groundwater and Surface Water Monitoring Report

**Old Avery County Landfill
Newland, North Carolina**

ETPA Project No: 90-247(E)

-Prepared for-

**County of Avery
PO Box 640
Newland, North Carolina 28657**

Thursday, May 30, 2002



**Engineering Tectonics, P.A.
Environmental Geotechnical and Drilling Services
1720 Vargrave Street
Winston-Salem, North Carolina 27107
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Groundwater Monitoring Well and Stream Sampling

On April 8, 2002, Engineering Tectonics, P.A. (ETPA) personnel mobilized to the Old Avery County Landfill to sample three (3) groundwater monitoring wells MW-1, MW-2, and MW-3; and to collect two (2) stream samples STR-1 and STR-2, per North Carolina Department of Environment and Natural Resources (NCDENR) permit #06-02. Please refer to Figure 1 for a site location map. The first stream sample (STR-1) was collected upstream of MW-3 from a branch of Brushy Creek immediately bordering the site. The second stream sample (STR-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. All water samples were 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, TDS, sulfate, arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Field measurements of pH and specific conductivity were also collected. Standard Procedures for Groundwater Sampling are included in Appendix A. Please note that no samples were filtered in the field per NCDENR regulations.

Ground Water Static Levels

Static water levels were measured as 8.97, 5.55, and 6.41 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 two monitoring wells, MW-1 and MW-2, had pH readings of 6.2 and 6.3, respectively, which are out of the 2L allowable range. Monitoring well MW-3 registered a pH reading of 6.6 which is within the specified range. The allowable range for a pH measurement is from 6.5 to 8.5 and is set by NCDENR.

The level of cadmium in MW-1 was reported to be 0.006 parts per million (ppm), which is above the limit of 0.005 ppm set by NCDENR. Also, all wells were above the 2L Standard Limit for lead of 0.015 ppm. Monitoring well MW-1 contained a lead concentration of 0.035 ppm, well MW-2 contained a lead concentration of 0.091 ppm, and well MW-3 contained a lead concentration of 0.019 ppm.

Both stream samples showed no concentrations of any compounds above the appropriate 2L Standards. All well and stream samples were Non-Detect (ND) for EPA Method 8260. A summary of laboratory results is included in Tables 2 and 3. A copy of all laboratory results is included for reference in Appendix B.

Limitations and Certification

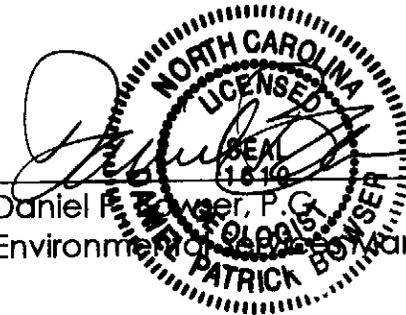
This report has been prepared for the exclusive use of **Avery County** for specific application to the subject site. The report was prepared in accordance with generally accepted standards of practice for environmental services in this region of the United States. No other warranty, either expressed 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
Staff Geologist

Date: 5.30.02



Daniel H. Bowser, P.G.
Environmental Services Manager

Date: 5.30.02

TABLES

Table 1
Groundwater Elevations

MW-1	24'	76.98	8.97	68.01
MW-2	15'	79.29	5.55	73.74
MW-3	15'	100.00	6.41	93.59

Notes:

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 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 4/8/02.

Table 2

Groundwater Monitoring Well Laboratory Results

April 8, 2002

Chloride	24.0	9.3	6.5	250
Fluoride	0.30	ND	0.10	2.0
Nitrate	ND	ND	ND	10.0
pH	6.2	6.3	6.6	6.5-8.5
Specific Conductivity	200	80	160	NA
TDS	77.0	40.0	82.0	NA
Sulfate	12.0	15.0	2.9	250
Arsenic	0.013	ND	0.027	0.05
Barium	0.510	0.083	0.150	2.0
Cadmium	0.006	0.002	0.004	0.005
Chromium	0.013	0.023	0.012	0.05
Lead	0.035	0.091	0.019	0.015
Mercury	0.0008	ND	ND	0.0011
Selenium	ND	ND	ND	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 8, 2002

Chloride	1.0	1.3	230
Fluoride	0.20	0.10	1.8
Nitrate	1.0	0.44	10.0
pH	7.2	7.0	6.0-8.5
Specific Conductivity	50	30	NA
TDS	40.0	ND	NA
Sulfate	11.0	12.0	250
Arsenic	ND	ND	0.05
Barium	0.024	0.015	1.0
Cadmium	ND	0.001	0.002
Chromium	ND	ND	0.05
Lead	ND	ND	0.025
Mercury	ND	ND	0.000012
Selenium	ND	ND	0.005
Silver	ND	ND	0.00006

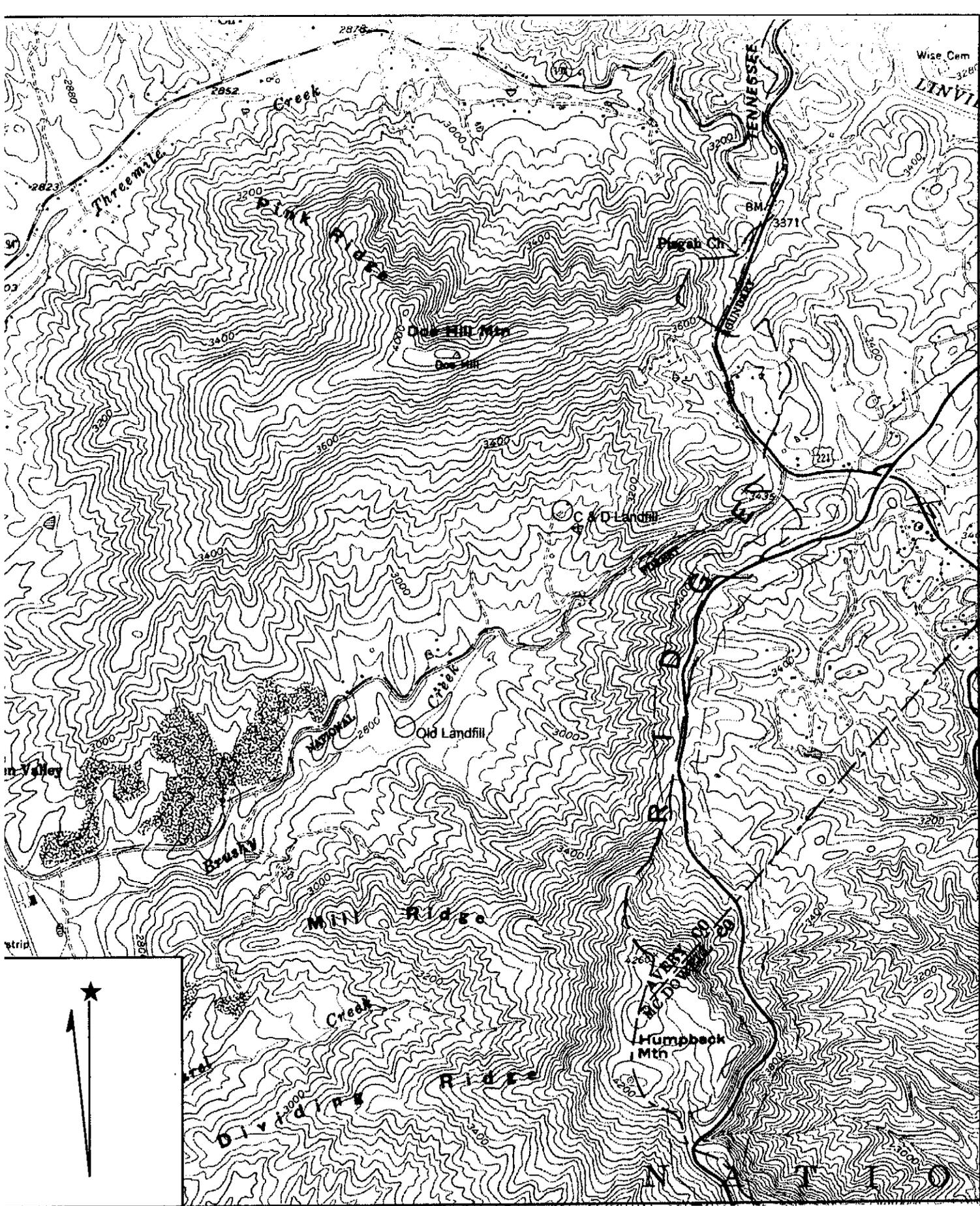
Results are presented in parts per million (ppm) unless otherwise specified.

Results presented in **BOLD** are in violation of surface water standards.

NA = Not Applicable.

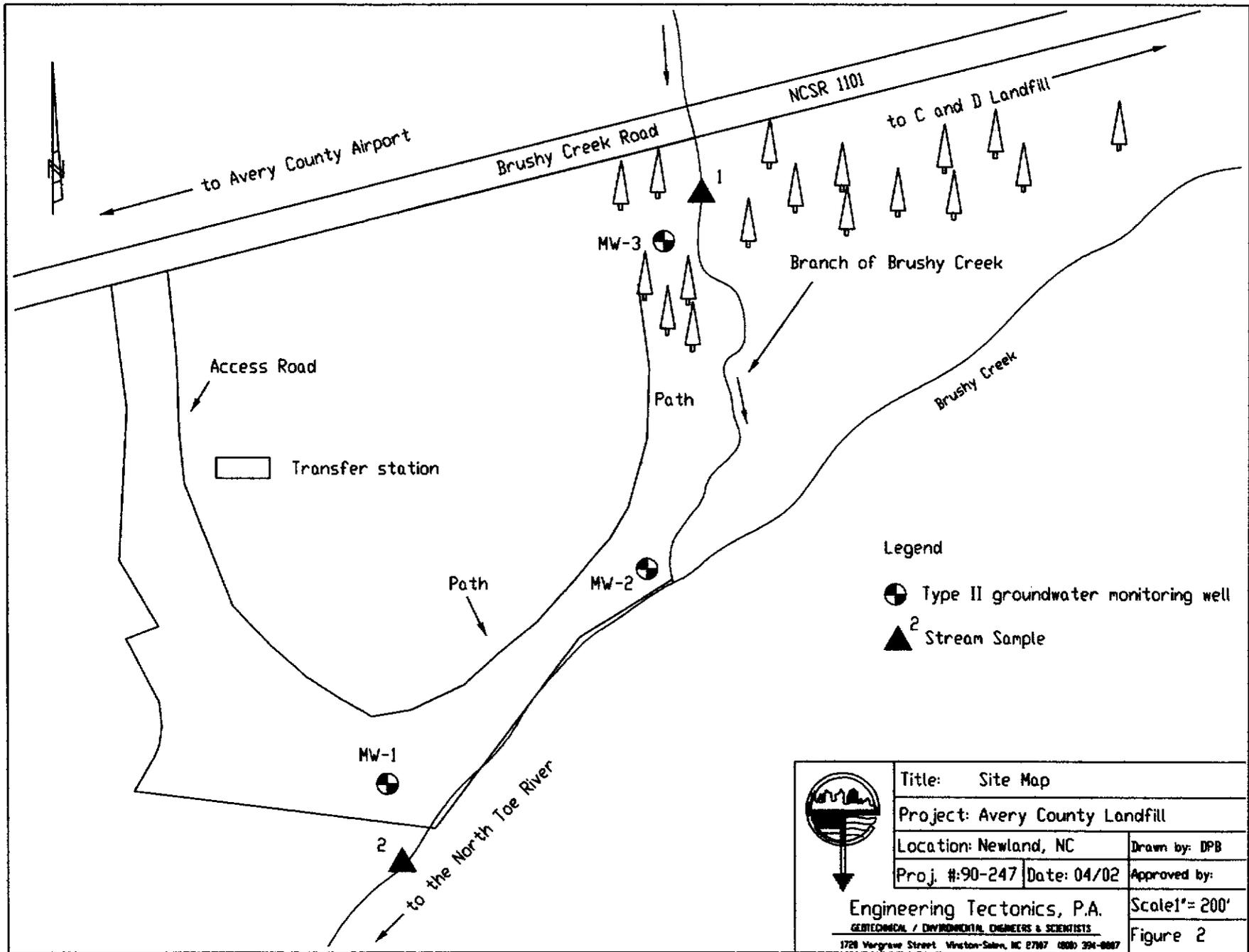
ND = Not Detected, Below Method Detection Limits.

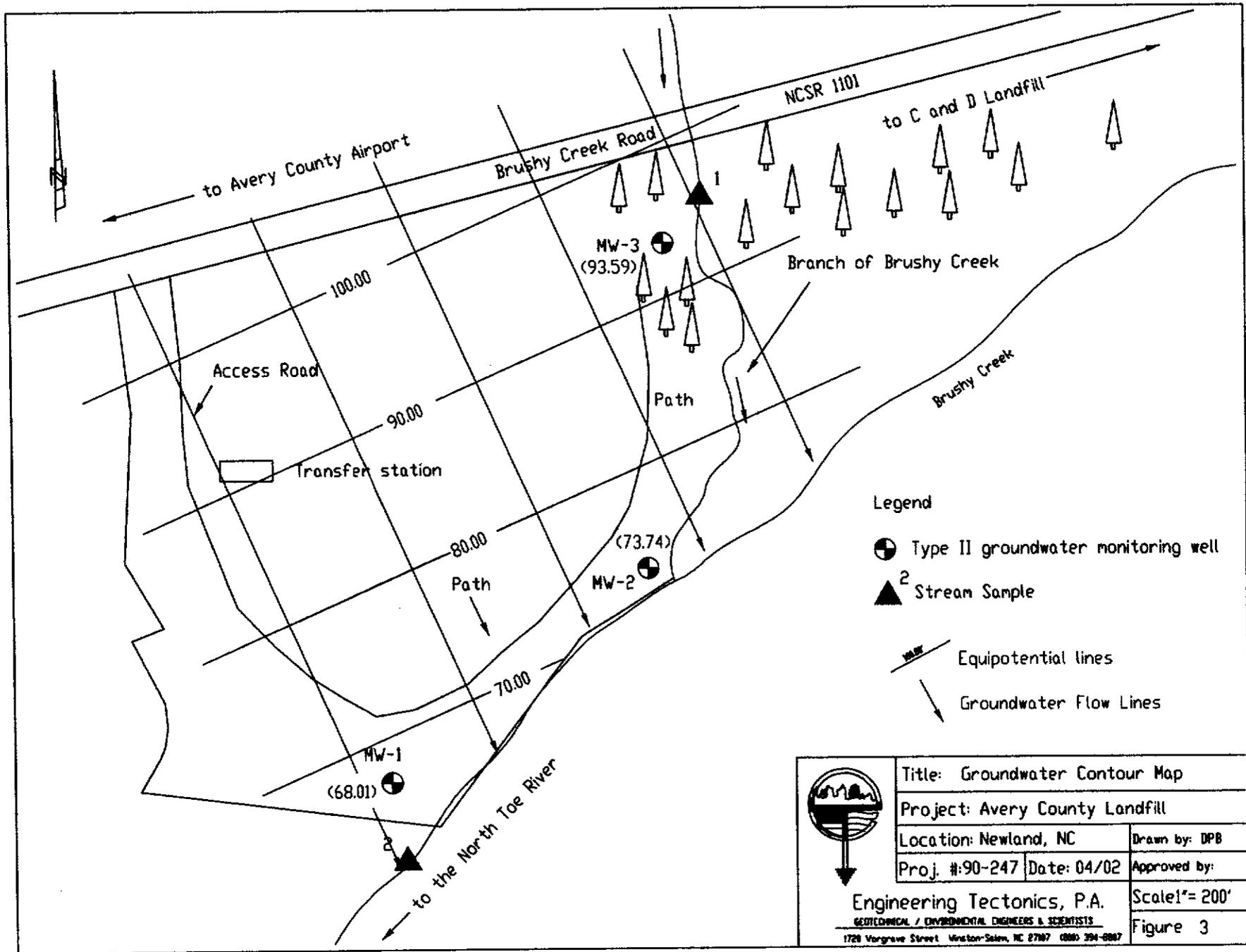
FIGURES



Name: LINVILLE FALLS
 Date: 5/30/2002
 Scale: 1 inch equals 2000 feet

Location: 035° 57' 34.3" N 081° 58' 16.6" W
 Caption: Figure 1
 USGS Topographic Map





- Legend
- Type II groundwater monitoring well
 - Stream Sample
 - Equipotential lines
 - Groundwater Flow Lines

	Title: Groundwater Contour Map	
	Project: Avery County Landfill	
	Location: Newland, NC	Drawn by: DPB
	Proj. #: 90-247	Date: 04/02
Approved by:		Scale: 1" = 200'
Engineering Tectonics, P.A. GEOTECHNICAL / ENVIRONMENTAL ENGINEERS & SCIENTISTS 1728 Vargrave Street, Winston-Salem, NC 27107 (800) 394-0867		Figure 3

APPENDIX A

ENGINEERING TECTONICS, PA

Standard Procedures SP-7

Field Procedures For Collection of Ground Water Samples



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CONTENTS

1.0	PURPOSE	2
2.0	SCOPE	2
3.0	RESPONSIBILITY	2
4.0	SUPPORTING PROCEDURES	2
5.0	REQUIRED FORMS	2
6.0	PROCEDURE	2
	6.1 Selection of Sampling Locations ¹	2
	6.2 Equipment List	3
	6.3 Sample Collection	3

Field Procedures for the Collection of Groundwater Samples

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

SP-3 Cleaning of Glassware and Equipment for Field Sampling Programs.

SP-2 Chain-of-Custody Procedures.

SP-4 Soil and Water Sample Preservation Procedures

SP-8 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 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 periodically 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 cross-contamination.

The sampling procedure for groundwater is as follows:

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

- Project Number
- Project Name
- Sample No.
- Date
- Analysis Required
- Preservative:
- Collection Time
- Initials of Collector

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.

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.

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.

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.

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

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 Technical Standard No. 8, "Filtering of Water Samples for Dissolved Metals Analysis".

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

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

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

Make sure the well is secured after sampling.

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.

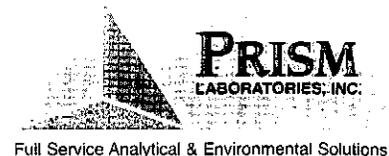
SAMPLE LOCATION NO.

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.

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.

APPENDIX B

Lab Report



4/19/02

Page 1 of 38

ETPA
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Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-1
Prism Sample ID: AC39906
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 10:00
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	0.013	mg/L	0.010	6010B	4/15/02 19:47	MSC
BARIUM	0.51	mg/L	0.010	6010B	4/15/02 19:47	MSC
CADMIUM	0.006	mg/L	0.001	6010B	4/15/02 19:47	MSC
CHROMIUM	0.013	mg/L	0.005	6010B	4/15/02 19:47	MSC
LEAD	0.035	mg/L	0.005	6010B	4/15/02 19:47	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	4/15/02 19:47	MSC
SILVER	Not detected	mg/L	0.005	6010B	4/15/02 19:47	MSC

MERCURY, TOTAL	0.0008	mg/L	0.0002	EPA 245.1	4/15/02 14:08	MSC
MERCURY DIGESTION	Completed			EPA 245.1	4/13/02 10:00	MBS
CHLORIDE	24	mg/L	1.0	EPA 300.0	4/11/02 04:57	TAR
NITRATE	Less than	mg/L	0.10	EPA 300.0	4/11/02 10:30	TAR
SULFATE	12	mg/L	1.0	EPA 300.0	4/11/02 04:57	TAR
FLUORIDE by 340.2	0.3	mg/L	0.1	EPA 340.2	4/16/02 17:20	JAS
TOTAL DISSOLVED RESIDUE	77	mg/L	33	SM 2540C	4/9/02 20:50	RVE
DISTILLATION FOR FLUORIDE	Completed			SM 4500-F B	4/10/02 12:45	LC2
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	4/15/02 09:40	MSC
BENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 2 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: **Avery Co. Landfills**
Customer Sample ID: **MW-1**
Prism Sample ID: **AC39906**
Login Group: **AO416H8**
Sample Collection Date/Time: **4/8/02 10:00**
Lab Submittal Date/Time: **4/9/02 16:10**

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,3-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,4-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 3 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-1
Prism Sample ID: AC39906
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:00
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
TRICHLOROFUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	4/15/02 13:42	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	4/15/02 13:42	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
2-CHLOROETHYLVINYLEETHER	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	4/15/02 13:42	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 13:42	MP

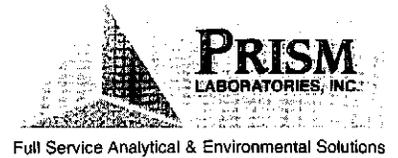
 QC REPORT- SURROGATE DATA

xSW846-8260 4/15/02 13:42 MP

QC BATCH ID:hp4-041502

COMPOUND	KNOWN VALUE	SURR VALUE	%REC.	%REC. RANGE	PASS/ FAIL
DIBROMOFUOROMETHANE	50	45.82	92	86-118	PASS
TOLUENE-d8	50	49.33	99	88-110	PASS
BROMOFUOROBENZENE	50	51.37	103	86-115	PASS

Lab Report



4/19/02

Page 4 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-1
Prism Sample ID: AC39906
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 10:00
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Nitrate Notation: The sample portion for nitrate was analyzed for nitrite within the 48 hour holding time for the test. The sample was then preserved and the total nitrate/nitrite analysis performed later, within the holding time for a preserved sample. The nitrate value was calculated from the total nitrate/nitrite and nitrite results.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



4/19/02

Page 5 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-2
Prism Sample ID: AC39907
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:30
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	4/15/02 21:18	MSC
BARIUM	0.083	mg/L	0.010	6010B	4/15/02 21:18	MSC
CADMIUM	0.002	mg/L	0.001	6010B	4/15/02 21:18	MSC
CHROMIUM	0.023	mg/L	0.005	6010B	4/15/02 21:18	MSC
LEAD	0.091	mg/L	0.005	6010B	4/15/02 21:18	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	4/15/02 21:18	MSC
SILVER	Not detected	mg/L	0.005	6010B	4/15/02 21:18	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	4/15/02 13:58	MSC
MERCURY DIGESTION	Completed			EPA 245.1	4/13/02 10:00	MBS
CHLORIDE	9.3	mg/L	1.0	EPA 300.0	4/11/02 05:16	TAR
NITRATE	Less than	mg/L	0.10	EPA 300.0	4/11/02 10:50	TAR
SULFATE	15	mg/L	1.0	EPA 300.0	4/11/02 05:16	TAR
FLUORIDE by 340.2	Less than	mg/L	0.1	EPA 340.2	4/16/02 17:20	JAS
TOTAL DISSOLVED RESIDUE	40	mg/L	33	SM 2540C	4/9/02 20:50	RVE
DISTILLATION FOR FLUORIDE	Completed			SM 4500-F B	4/10/02 12:45	LC2
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	4/15/02 09:40	MSC
BENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 6 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-2
Prism Sample ID: AC39907
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:30
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,3-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,4-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 7 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-2
Prism Sample ID: AC39907
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:30
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2,4-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
TRICHLOROFUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	4/11/02 20:57	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	4/11/02 20:57	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
2-CHLOROETHYLVINYLEETHER	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	4/11/02 20:57	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 20:57	MP

 QC REPORT- SURROGATE DATA

xSW846-8260 4/11/02 12:14 MP

QC BATCH ID:hp4-041102

COMPOUND	KNOWN VALUE	SURR VALUE	%REC.	%REC. RANGE	PASS/FAIL
DIBROMOFUOROMETHANE	50	57.57	115	86-118	PASS
TOLUENE-d8	50	49.17	98	88-110	PASS
BROMOFUOROBENZENE	50	57.70	115	86-115	PASS

Lab Report



4/19/02

Page 8 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-2
Prism Sample ID: AC39907
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 10:30
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Nitrate Notation: The sample portion for nitrate was analyzed for nitrite within the 48 hour holding time for the test. The sample was then preserved and the total nitrate/nitrite analysis performed later, within the holding time for a preserved sample. The nitrate value was calculated from the total nitrate/nitrite and nitrite results.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



4/19/02

Page 9 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-3
Prism Sample ID: AC39908
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:45
 Lab Submittal Date/Time: 4/9/02 16:10

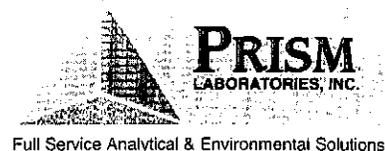
The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	0.027	mg/L	0.010	6010B	4/15/02 21:22	MSC
BARIUM	0.15	mg/L	0.010	6010B	4/15/02 21:22	MSC
CADMIUM	0.004	mg/L	0.001	6010B	4/15/02 21:22	MSC
CHROMIUM	0.012	mg/L	0.005	6010B	4/15/02 21:22	MSC
LEAD	0.019	mg/L	0.005	6010B	4/15/02 21:22	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	4/15/02 21:22	MSC
SILVER	Not detected	mg/L	0.005	6010B	4/15/02 21:22	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	4/15/02 14:01	MSC
MERCURY DIGESTION	Completed			EPA 245.1	4/13/02 10:00	MBS
CHLORIDE	6.5	mg/L	1.0	EPA 300.0	4/11/02 05:36	TAR
NITRATE	Less than	mg/L	0.10	EPA 300.0	4/11/02 11:09	TAR
SULFATE	2.9	mg/L	1.0	EPA 300.0	4/11/02 05:36	TAR
FLUORIDE by 340.2	0.1	mg/L	0.1	EPA 340.2	4/16/02 17:20	JAS
TOTAL DISSOLVED RESIDUE	82	mg/L	33	SM 2540C	4/9/02 20:50	RVE
DISTILLATION FOR FLUORIDE	Completed			SM 4500-F B	4/11/02 08:20	LC2
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	4/15/02 09:40	MSC
BENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 10 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-3
Prism Sample ID: AC39908
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 10:45
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,3-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,4-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 11 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-3
Prism Sample ID: AC39908
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 10:45
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	4/11/02 21:35	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	4/11/02 21:35	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
2-CHLOROETHYLVINYLEETHER	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	4/11/02 21:35	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	4/11/02 21:35	MP

QC REPORT- SURROGATE DATA

xSW846-8260 4/11/02 21:35 MP

QC BATCH ID:hp4-041102

COMPOUND	KNOWN VALUE	SURR VALUE	%REC.	%REC. RANGE	PASS/ FAIL
DIBROMOFLUOROMETHANE	50	57.04	114	86-118	PASS
TOLUENE-d8	50	50.55	101	88-110	PASS
BROMOFLUOROBENZENE	50	57.70	115	86-115	PASS

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 12 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: MW-3
Prism Sample ID: AC39908
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 10:45
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Nitrate Notation: The sample portion for nitrate was analyzed for nitrite within the 48 hour holding time for the test. The sample was then preserved and the total nitrate/nitrite analysis performed later, within the holding time for a preserved sample. The nitrate value was calculated from the total nitrate/nitrite and nitrite results.

A handwritten signature in black ink, appearing to read 'A. Overcash', is written over the sample comments section.

Angela D. Overcash, V.P. Laboratory Services

4/19/02

Page 13 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: **Avery Co. Landfills**
Customer Sample ID: **STR-1**
Prism Sample ID: **AC39909**
Login Group: **AO416H8**
Sample Collection Date/Time: **4/8/02 09:45**
Lab Submittal Date/Time: **4/9/02 16:10**

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	4/15/02 21:27	MSC
BARIUM	0.024	mg/L	0.010	6010B	4/15/02 21:27	MSC
CADMIUM	Not detected	mg/L	0.001	6010B	4/15/02 21:27	MSC
CHROMIUM	Not detected	mg/L	0.005	6010B	4/15/02 21:27	MSC
LEAD	Not detected	mg/L	0.005	6010B	4/15/02 21:27	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	4/15/02 21:27	MSC
SILVER	Not detected	mg/L	0.005	6010B	4/15/02 21:27	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	4/15/02 14:04	MSC
MERCURY DIGESTION	Completed			EPA 245.1	4/13/02 10:00	MBS
CHLORIDE	1.0	mg/L	1.0	EPA 300.0	4/11/02 05:55	TAR
NITRATE	1.0	mg/L	0.10	EPA 300.0	4/11/02 11:29	TAR
SULFATE	11	mg/L	1.0	EPA 300.0	4/11/02 05:55	TAR
FLUORIDE by 340.2	0.2	mg/L	0.1	EPA 340.2	4/16/02 17:20	JAS
TOTAL DISSOLVED RESIDUE	40	mg/L	33	SM 2540C	4/9/02 21:06	RVE
DISTILLATION FOR FLUORIDE	Completed			SM 4500-F B	4/11/02 08:20	LC2
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	4/15/02 09:40	MSC
BENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

4/19/02

Page 14 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

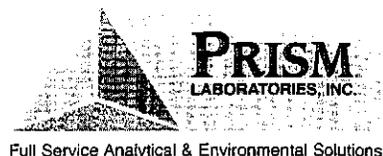
Customer Project ID: **Avery Co. Landfills**
Customer Sample ID: **STR-1**
Prism Sample ID: **AC39909**
Login Group: **AO416H8**
Sample Collection Date/Time: **4/8/02 09:45**
Lab Submittal Date/Time: **4/9/02 16:10**

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,3-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,4-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 15 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: STR-1
Prism Sample ID: AC39909
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 09:45
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	4/15/02 14:22	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	4/15/02 14:22	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
2-CHLOROETHYLVINYLETHER	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	4/15/02 14:22	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 14:22	MP

QC REPORT- SURROGATE DATA

xSW846-8260 4/15/02 14:22 MP

QC BATCH ID: hp4-041502

COMPOUND	KNOWN VALUE	SURR VALUE	%REC.	%REC. RANGE	PASS/ FAIL
DIBROMOFLUOROMETHANE	50	49.75	100	86-118	PASS
TOLUENE-d8	50	50.49	101	88-110	PASS
BROMOFLUOROBENZENE	50	52.62	105	86-115	PASS

Lab Report



4/19/02

Page 16 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: STR-1
Prism Sample ID: AC39909
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 09:45
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Nitrate Notation: The sample portion for nitrate was analyzed for nitrite within the 48 hour holding time for the test. The sample was then preserved and the total nitrate/nitrite analysis performed later, within the holding time for a preserved sample. The nitrate value was calculated from the total nitrate/nitrite and nitrite results.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



4/19/02

Page 17 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: STR-2
Prism Sample ID: AC39910
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 09:30
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	4/15/02 19:33	MSC
BARIUM	0.015	mg/L	0.010	6010B	4/15/02 19:33	MSC
CADMIUM	0.001	mg/L	0.001	6010B	4/15/02 19:33	MSC
CHROMIUM	Not detected	mg/L	0.005	6010B	4/15/02 19:33	MSC
LEAD	Not detected	mg/L	0.005	6010B	4/15/02 19:33	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	4/15/02 19:33	MSC
SILVER	Not detected	mg/L	0.005	6010B	4/15/02 19:33	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	4/15/02 13:48	MSC
MERCURY DIGESTION	Completed			EPA 245.1	4/13/02 10:00	MBS
CHLORIDE	1.3	mg/L	1.0	EPA 300.0	4/11/02 06:15	TAR
NITRATE	0.44	mg/L	0.10	EPA 300.0	4/11/02 11:48	TAR
SULFATE	12	mg/L	1.0	EPA 300.0	4/11/02 06:15	TAR
FLUORIDE by 340.2	0.1	mg/L	0.1	EPA 340.2	4/16/02 17:20	JAS
TOTAL DISSOLVED RESIDUE	Less than	mg/L	33	SM 2540C	4/9/02 21:06	RVE
DISTILLATION FOR FLUORIDE	Completed			SM 4500-F B	4/11/02 10:10	LC2
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	4/15/02 09:40	MSC
BENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 18 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: **Avery Co. Landfills**
 Customer Sample ID: **STR-2**
 Prism Sample ID: **AC39910**
 Login Group: **AO416H8**
 Sample Collection Date/Time: **4/8/02 09:30**
 Lab Submittal Date/Time: **4/9/02 16:10**

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,3-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,4-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 19 of 38

ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
 Customer Sample ID: STR-2
 Prism Sample ID: AC39910
 Login Group: AO416H8
 Sample Collection Date/Time: 4/8/02 09:30
 Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	4/15/02 15:01	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	4/15/02 15:01	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
2-CHLOROETHYLVINYLEETHER	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	4/15/02 15:01	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	4/15/02 15:01	MP

QC REPORT- SURROGATE DATA

xSW846-8260 4/15/02 15:01 MP

QC BATCH ID: hp4-041502

COMPOUND	KNOWN VALUE	SURR VALUE	%REC.	%REC. RANGE	PASS/FAIL
DIBROMOFLUOROMETHANE	50	53.58	107	86-118	PASS
TOLUENE-d8	50	49.78	100	88-110	PASS
BROMOFLUOROBENZENE	50	54.30	109	86-115	PASS

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



4/19/02

Page 20 of 38

ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery Co. Landfills
Customer Sample ID: STR-2
Prism Sample ID: AC39910
Login Group: AO416H8
Sample Collection Date/Time: 4/8/02 09:30
Lab Submittal Date/Time: 4/9/02 16:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Nitrate Notation: The sample portion for nitrate was analyzed for nitrite within the 48 hour holding time for the test. The sample was then preserved and the total nitrate/nitrite analysis performed later, within the holding time for a preserved sample. The nitrate value was calculated from the total nitrate/nitrite and nitrite results.

Angela D. Overcash, V.P. Laboratory Services

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL SUMMARY

METHOD BLANK

PROJECT ID: **Avery Co. Landfills**
 BATCH ID: **VMS04-041102**
 SAMPLE ID: **AC39907- AC39908**
 MATRIX: **Water**
 ANALYSIS: **SW846-8260B**
 ANALYST: **MP**

Compound	Found µg/l	RL µg/l
Acetone	BDL	50
Benzene	BDL	5
Bromobenzene	BDL	5
Bromochloromethane	BDL	5
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	10
Butylbenzene	BDL	5
sec-Butylbenzene	BDL	5
tert-Butylbenzene	BDL	5
Carbon Disulfide	BDL	50
Carbon tetrachloride	BDL	5
Chlorobenzene	BDL	5
Chloroethane	BDL	10
2-Chloroethyl vinyl ether	BDL	10
Chloroform	BDL	5
Chloromethane	BDL	10
2-Chlorotoluene	BDL	5
4-Chlorotoluene	BDL	5
Dibromochloromethane	BDL	5
1,2-Dibromo-3-chloropropane	BDL	10
1,2-Dibromoethane	BDL	5
Dibromomethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
Dichlorodifluoromethane	BDL	10
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	5
1,1-Dichloroethene	BDL	5
cis-1,2-Dichloroethene	BDL	5
tr-1,2-Dichloroethene	BDL	5

Compound	Found µg/l	RL µg/l
1,2-Dichloropropane	BDL	5
1,3-Dichloropropane	BDL	5
2,2-Dichloropropane	BDL	5
1,1-Dichloropropene	BDL	5
cis-1,3-Dichloropropene	BDL	5
tr-1,3-Dichloropropene	BDL	5
Ethylbenzene	BDL	5
Hexachlorobutadiene	BDL	5
2-Hexanone	BDL	10
Isopropylbenzene	BDL	5
Isopropyltoluene	BDL	5
Naphthalene	BDL	5
Methylene Chloride	BDL	5
Methyl isobutyl ketone	BDL	10
Propylbenzene	BDL	5
Styrene	BDL	5
1,1,1,2-Tetrachloroethane	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
1,2,3-Trichlorobenzene	BDL	5
1,2,4-Trichlorobenzene	BDL	5
Trichlorofluoromethane	BDL	10
1,2,3-Trichloropropane	BDL	5
1,2,4-Trimethylbenzene	BDL	5
1,3,5-Trimethylbenzene	BDL	5
Toluene	BDL	5
Vinyl Chloride	BDL	10
Xylenes (total)	BDL	5
2-Butanone (MEK)	BDL	10

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL SUMMARY

METHOD BLANK

PROJECT ID: **Avery Co. Landfills**
 BATCH ID: **VMS04-041502**
 SAMPLE ID: **AC39906, AC39909- AC39913**
 MATRIX: **Water**
 ANALYSIS: **SW846-8260B**
 ANALYST: **MP**

Compound	Found µg/l	RL µg/l
Acetone	BDL	50
Benzene	BDL	5
Bromobenzene	BDL	5
Bromochloromethane	BDL	5
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	10
Butylbenzene	BDL	5
sec-Butylbenzene	BDL	5
tert-Butylbenzene	BDL	5
Carbon Disulfide	BDL	50
Carbon tetrachloride	BDL	5
Chlorobenzene	BDL	5
Chloroethane	BDL	10
2-Chloroethyl vinyl ether	BDL	10
Chloroform	BDL	5
Chloromethane	BDL	10
2-Chlorotoluene	BDL	5
4-Chlorotoluene	BDL	5
Dibromochloromethane	BDL	5
1,2-Dibromo-3-chloropropane	BDL	10
1,2-Dibromoethane	BDL	5
Dibromomethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
Dichlorodifluoromethane	BDL	10
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	5
1,1-Dichloroethene	BDL	5
cis-1,2-Dichloroethene	BDL	5
tr-1,2-Dichloroethene	BDL	5

Compound	Found µg/l	RL µg/l
1,2-Dichloropropane	BDL	5
1,3-Dichloropropane	BDL	5
2,2-Dichloropropane	BDL	5
1,1-Dichloropropene	BDL	5
cis-1,3-Dichloropropene	BDL	5
tr-1,3-Dichloropropene	BDL	5
Ethylbenzene	BDL	5
Hexachlorobutadiene	BDL	5
2-Hexanone	BDL	10
Isopropylbenzene	BDL	5
Isopropyltoluene	BDL	5
Naphthalene	BDL	5
Methylene Chloride	BDL	5
Methyl isobutyl ketone	BDL	10
Propylbenzene	BDL	5
Styrene	BDL	5
1,1,1,2-Tetrachloroethane	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
1,2,3-Trichlorobenzene	BDL	5
1,2,4-Trichlorobenzene	BDL	5
Trichlorofluoromethane	BDL	10
1,2,3-Trichloropropane	BDL	5
1,2,4-Trimethylbenzene	BDL	5
1,3,5-Trimethylbenzene	BDL	5
Toluene	BDL	5
Vinyl Chloride	BDL	10
Xylenes (total)	BDL	5
2-Butanone (MEK)	BDL	10

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES

PROJECT ID: **Avery Co. Landfills**
 BATCH ID: **VMS04-041102, 041502**
 SAMPLE ID: **AC39906 – AC39913**
 MATRIX: **Water**
 ANALYSIS: **SW846-8260B**
 ANALYST: **MP**

Sample Description	Surrogate Recovery %			Total Out
	1	2	3	
METHOD BLANK 041102	103	100	112	0
AC39907	115	98	115	0
AC39908	114	101	115	0
BLANK SPIKE	109	101	102	0
METHOD BLANK 041502	95	99	101	0
AC39906	92	99	103	0
AC39909	100	101	105	0
AC39910	107	100	109	0
AC39911	100	99	108	0
AC39912	113	104	114	0
AC39913	104	100	105	0
AC39913-MS	104	98	85 *	1
AC39913-MSD	102	99	92	0

Surrogates:	Recovery Limits %
1. Dibromofluoromethane	86 – 118
2. Toluene-d8	88 – 110
3. Bromofluorobenzene	86 – 115

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL SUMMARY

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

PROJECT ID: **Avery Co. Landfills**
 BATCH ID: **VMS04-041102, 041502**
 SAMPLE ID: **AC39906 – AC39913**
 MATRIX: **Water**
 ANALYSIS: **SW846-8260B**
 ANALYST: **MP**

SPIKED SAMPLE: **AC39913**

Compound	Spike Added (µg/L)	Sample Concentration (µg/L)	MS Concentration (µg/L)	MS % Rec.	QC Limits % Rec.
1,1-Dichloroethene	50	<5.0	41	82	49 – 124
Benzene	50	<5.0	46	92	68 – 129
Trichloroethene	50	<5.0	43	86	63 – 117
Toluene	50	<5.0	48	96	69 – 122
Chlorobenzene	50	<5.0	48	95	73 – 120

Compound	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Rec.	% RPD	QC Limits	
					RPD	% Rec.
1,1-Dichloroethene	50	44	88	7	< 17	49 – 124
Benzene	50	47	93	1	< 16	68 – 129
Trichloroethene	50	46	92	7	< 16	63 – 117
Toluene	50	47	94	2	< 15	69 – 122
Chlorobenzene	50	48	95	0	< 14	73 – 120

* - Value outside the QC limits.

RPD: 0 out of 5 outside limits.

Spike Recovery: 0 out of 10 outside limits.

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL SUMMARY

BLANK SPIKE RECOVERY

PROJECT ID: **Avery Co. Landfills**
BATCH ID: **VMS04-041102, 041502**
SAMPLE ID: **AC39906 – AC39913**
MATRIX: **Water**
ANALYSIS: **SW846-8260B**
ANALYST: **MP**

Compound	Spike Added (µg/L)	QC Sample Concentration (µg/L)	% Rec.	QC Limits % Rec.
1,1-Dichloroethene	50	60	121	70 – 130
Benzene	50	57	114	70 – 130
Trichloroethene	50	63	126	70 – 130
Toluene	50	65	130	70 – 130
Chlorobenzene	50	54	108	70 – 130

* - Value outside the QC limits.

Spike Recovery: 0 out of 5 outside limits.

METALS QUALITY CONTROL SUMMARY

PROJECT ID: ETPA
BATCH ID: 0413 A
SAMPLE ID: AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913
MATRIX: **Water**
ANALYSIS: **SW846-7470**
ANALYST: MSC

BLANKS

COMPOUND	PREPARATION BLANK mg/l
Mercury	< 0.0002

LABORATORY CONTROL SAMPLE

COMPOUND	CONTROL LIMIT	LABORATORY CONTROL SAMPLE		
		TRUE VALUE, mg/l	FOUND, mg/l	%R
Mercury	85-114	0.0050	0.00518	103.6

SPIKE SAMPLE RECOVERY

SPIKED SAMPLE ID: **AC39910**

COMPOUND	CONTROL LIMIT %R	SPIKED SAMPLE RESULT, mg/l	SAMPLE RESULT, mg/l	SPIKE ADDED, mg/l	%R
Mercury	81-112	0.00498	<0.0002	0.0050	99.6

DUPLICATES

COMPOUND	CONTROL LIMIT	MATRIX SPIKE mg/l	DUPLICATE mg/l	RPD
Mercury	≤ 20	0.00498	0.00464	7.1

METALS QUALITY CONTROL SUMMARY

BLANKS

PROJECT ID: **ETPA**
BATCH ID: **0415 C**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **Water**
ANALYSIS: **SW846-6010B**
ANALYST: **MSC**

COMPOUND	PREPARATION BLANK mg/l
Arsenic	< 0.01
Barium	< 0.01
Cadmium	< 0.001
Chromium	< 0.005
Lead	< 0.005
Silver	< 0.005
Selenium	< 0.01

METALS QUALITY CONTROL SUMMARY

LABORATORY CONTROL SAMPLE

PROJECT ID: **ETPA**
BATCH ID: **0415 C**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **Water**
ANALYSIS: **SW846-6010B**
ANALYST: **MSC**

COMPOUND	CONTROL LIMITS	LABORATORY CONTROL SAMPLE		
		TRUE VALUE, mg/l	FOUND, mg/l	%R
Arsenic	85-108	1.0	1.03	103
Barium	85-110	1.0	1.04	104
Cadmium	83-108	1.0	0.932	93.2
Chromium	86-109	1.0	1.01	101
Lead	86-109	1.0	0.942	94.2
Silver	81-110	0.1	0.0922	92.2
Selenium	76-101	1.0	0.904	90.4

METALS QUALITY CONTROL SUMMARY

SPIKE SAMPLE RECOVERY

PROJECT ID: **ETPA**
BATCH ID: **0415 C**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **Water**
ANALYSIS: **SW846-6010B**
ANALYST: **MSC**

SPIKED SAMPLE ID: AC39910

COMPOUND	CONTROL LIMIT %R	SPIKED SAMPLE RESULT, mg/l	SAMPLE RESULT, mg/l	SPIKE ADDED, mg/l	%R
Arsenic	80-118	0.925	<0.01	1.0	92.5
Barium	78-117	0.945	0.015	1.0	93.0
Cadmium	76-114	0.835	0.001	1.0	83.4
Chromium	79-117	0.912	<0.005	1.0	91.2
Lead	79-117	0.847	<0.005	1.0	84.7
Silver	77-120	0.0813	<0.005	0.1	81.3
Selenium	72-106	0.812	<0.01	1.0	81.2

METALS QUALITY CONTROL SUMMARY

DUPLICATES

PROJECT ID: **ETPA**
BATCH ID: **0415 C**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **Water**
ANALYSIS: **SW846-6010B**
ANALYST: **MSC**

COMPOUND	CONTROL LIMIT	MATRIX SPIKE mg/l	DUPLICATE mg/l	RPD
Arsenic	< 10	0.925	0.998	7.7
Barium	< 12	0.945	1.02	7.4
Cadmium	< 10	0.835	0.898	7.2
Chromium	< 11	0.912	0.986	7.8
Lead	< 10	0.847	0.901	6.2
Silver	< 16	0.0813	0.0892	9.2
Selenium	< 13	0.812	0.861	5.8

ION CHROMATOGRAPHY QUALITY CONTROL SUMMARY

PROJECT ID: **AO416H8**
BATCH ID: **020410**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **WATER**
ANALYSIS: **EPA 300.0**
ANALYST: **TAR**

INITIAL CALIBRATION VERIFICATION STANDARDS

COMPOUND ICV	CONTROL LIMITS, %R	LABORATORY CONTROL SAMPLE ICV	
		TRUE VALUE, mg/L	RECOVERY, %
CHLORIDE	90-110	10.0	94
NITRATE	90-110	10.0	98
SULFATE	90-110	10.0	92
CHLORIDE	90-110	1.0	101
NITRATE	90-110	1.0	104
SULFATE	90-110	1.0	102

CLOSING CALIBRATION VERIFICATION STANDARDS

COMPOUND CCV	CONTROL LIMITS, %R	LABORATORY CONTROL SAMPLE CCV	
		TRUE VALUE, mg/L	RECOVERY, %
CHLORIDE	90-110	10.0	96
NITRATE	90-110	10.0	99
SULFATE	90-110	10.0	99
CHLORIDE	90-110	1.0	102
NITRATE	90-110	1.0	105
SULFATE	90-110	1.0	108

ION CHROMATOGRAPHY QUALITY CONTROL SUMMARY

PROJECT ID: **AO416H8**
BATCH ID: **020410**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **WATER**
ANALYSIS: **EPA 300.0**
ANALYST: **TAR**

BLANKS

COMPOUND	METHOD BLANK SAMPLE	
	ACCEPTANCE LIMITS, mg/L	FOUND, mg/L
CHLORIDE	<1.0	<1.0
NITRATE	<0.1	<0.1
SULFATE	<1.0	<1.0

LABORATORY CONTROL SAMPLE

COMPOUND	CONTROL LIMITS, %R	LABORATORY CONTROL SAMPLE LCS	
		TRUE VALUE, mg/L	% RECOVERY
CHLORIDE	90-110	20.0	94
NITRATE	90-110	20.0	95
SULFATE	90-110	20.0	90
CHLORIDE	90-110	5.0	95
NITRATE	90-110	5.0	96
SULFATE	90-110	5.0	110

ION CHROMATOGRAPHY QUALITY CONTROL SUMMARY

PROJECT ID: **AO416H8**
BATCH ID: **020410**
SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
MATRIX: **WATER**
ANALYSIS: **EPA 300.0**
ANALYST: **TAR**

SPIKES

SPIKED SAMPLE ID: **AC39913**

PARAMETER	CONTROL LIMIT %R	SPIKED SAMPLE RESULT, mg/l	SAMPLE RESULT, mg/l	SPIKE ADDED, mg/l	%R
CHLORIDE	80-120	9.48	<1.0	10.0	95
NITRATE	80-120	18.35	<0.1	20.0	92
SULFATE	80-120	9.30	2.1	10.0	91

DUPLICATES

DUPLICATED SAMPLE: **AC39913**

COMPOUND	CONTROL LIMIT %	DUPLICATE 1 mg/L	DUPLICATE 2 mg/L	RPD %
CHLORIDE	<20	9.48	9.50	0.2
NITRATE	<20	18.35	18.50	0.8
SULFATE	<20	9.30	9.39	1.0

FLUORIDE BY ION SPECIFIC ELECTRODE QUALITY CONTROL SUMMARY

PROJECT ID: **A0416H8**
 BATCH ID: **020410**
 SAMPLE ID: **AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913**
 MATRIX: **WATER**
 ANALYSIS: **SM4500-F C**
 ANALYST: **JAS**

BLANKS

COMPOUND	METHOD BLANK SAMPLE	
	ACCEPTANCE LIMITS, mg/L	FOUND, mg/L
FLUORIDE	<0.1	<0.1

LABORATORY CONTROL SAMPLE

COMPOUND	CONTROL LIMITS %R	LABORATORY CONTROL SAMPLE LCS	
		TRUE VALUE, mg/L	% RECOVERY
FLUORIDE (init)	90-110	5.0	93
FLUORIDE (final)	90-110	5.0	99
FLUORIDE (dist.)	80-120	4.0	92

SPIKES

SPIKED SAMPLE ID: **AC40038***

PARAMETER	CONTROL LIMIT %R	SPIKED SAMPLE RESULT, mg/l	SAMPLE RESULT, mg/l	SPIKE ADDED, mg/l	%R
FLUORIDE	90-110	5.32	0.56	5.0	101
FLUORIDE	90-110	5.38	0.56	5.0	102

* - Insufficient sample was provided to perform distilled matrix spikes on any sample in the analytical batch. Post distillations spikes were performed.

DUPLICATES

DUPLICATED SAMPLE: **AC40038**

COMPOUND	CONTROL LIMIT %	DUPLICATE 1 mg/L	DUPLICATE 2 mg/L	RPD %
FLUORIDE	<20	5.32	5.38	1.1

TOTAL DISSOLVED SOLIDS QUALITY CONTROL SUMMARY

PROJECT ID: AO416H8
BATCH ID: 020410
SAMPLE ID: AC39906, AC39907, AC39908, AC39909, AC39910, AC39911, AC39912, AC39913
MATRIX: WATER
ANALYSIS: SM4500-F C
ANALYST: JAS

BLANKS

COMPOUND	METHOD BLANK SAMPLE	
	ACCEPTANCE LIMITS, mg/L	FOUND, mg/L
TDS	<50	<50

LABORATORY CONTROL SAMPLE

COMPOUND	CONTROL LIMITS, %R	LABORATORY CONTROL SAMPLE LCS	
		TRUE VALUE, mg/L	% RECOVERY
TDS	90-110	50	91

DUPLICATES

DUPLICATED SAMPLE: AC39908

COMPOUND	CONTROL LIMIT, %	DUPLICATE 1, mg/L	DUPLICATE 2, mg/L	RPD, %
TDS	<20	77	87	12



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543

CHAIN OF CUSTODY RECORD

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp. <u>3-2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Client Company Name: ETPA
 Report To/Contact Name: _____
 Reporting Address: 1720 Vantage St
W-5 NC 27017
 Phone: _____ Fax (Yes) (No): _____
 Site Location Name: Avery Co. Landfill
 Site Location Physical Address: _____

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____
 Project Name: _____
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting provisions and/or QC Requirements
 Invoice To: _____
 Address: _____

Purchase Order No / Billing Reference 90-297
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 6-9 Days Standard 10 days
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE SIDE FOR CRUSH/TURN/ARMING FEES)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC _____
 SC _____ OTHER _____ N/A _____
 Water Chlorinated: YES _____ NO _____
 Sample Iced Upon Collection: YES _____ NO _____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
				TYPE	NO.	SIZE					
MU-1	4-8-02	1000	H2O				None	PAH, PCB, HACH, Chloride, Nitrate, Sulfate, TDS			39906
MU-2		1030									39907
MU-3		1045									39908
ST-1		945									39909
ST-2		930									39910
CMU-1		1100									39911
CMU-2		1115									39912
CMU-3		1130									39913

PRESS DOWN FIRMLY 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): Kevin Roberts Affiliation: _____ Date: _____ Military Hours: _____
 Re-requested By (Signature): [Signature] Received By (Signature): [Signature] Date: 9-25
 Re-analyzed By (Signature): [Signature] Received By (Signature): _____ Date: _____
 Method of Shipment: Fed Ex UPS Hand Delivered From Field Service Other _____
 Received By (Print Name): [Signature] Date: 4-9-02, 1610
 Lab ID No.: AD-11648

Additional Comments: _____

PRISM USE ONLY

Site Arrival Time: _____
 Site Departure Time: _____
 Field Tech Fee: _____
 Message: _____

NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	UST: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	GROUNDWATER: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>	OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/>
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CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS
 ORIGINAL

APR-24-02 10:55A

P. 40