

attn: Paul Childers

01019W40192

SW

STATE LABORATORY OF PUBLIC HEALTH  
DIVISION OF HEALTH SERVICES  
N.C. DEPARTMENT OF HUMAN RESOURCES  
P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611



INORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

Lab ID # bc Date 05 06 09 Doc ID# DIN

Complete All Items Above Heavy Line  
(See Instructions on Reverse Side)

Name of System: Alamance Co. Landfill stream  
Address: Alamance Co. Health Dept. Burlington, N.C. ZIP 27215  
County: Alamance  
Report To: Gary Babb  
Address: Office Solid & Haz. Waste Raleigh ZIP 27611  
Telephone Number: 1 733-2178  
Collected By: J. H. Deakins  
Date Collected: 10-19-82 Time: 2:30 AM  
Location of Sampling Point: stream downstream from landfill  
Remarks: EPA

Type of System:  Community  Non-Community  
Source of Water:  Ground  Both  Surface  Purchased  
Source of Sample:  Distribution Tap  House Tap  Well Tap  
Type of Sample:  Raw  Treated  
Type of Treatment:  None  Lime  Chlorinated  Soda Ash  Fluoridated  Polyphosphate  Filtered  Water Softener  Alum  Other  
Type of Sample:  Regular  Private  Check  Special

WATER SYSTEM I.D. NUMBER (COPY FROM MAILING LABEL)  
□□-□□-□□□□

State Drinking Water Parameters (Required)

	Results		
Arsenic	<0.02	mg/l	2
Barium	<0.1	mg/l	2
Cadmium	20.005	mg/l	3
Chromium	<0.01	mg/l	2
Fluoride	40.10	mg/l	2
Lead	<0.03	mg/l	2
Mercury	20.0002	mg/l	4
Nitrate (as N)	20.05	mg/l	2
Selenium	<0.005	mg/l	3
Silver	<0.02	mg/l	2
pH	7.4	units	1
Iron	0.62	mg/l	2
Manganese	0.08	mg/l	2

Optional Parameters (List as needed)

	Results
conductivity, chloride, copper, color, TDS, sulfate, zinc, TOC	
CONDUCTIVITY	120 u/mhos
CHLORIDE	5
COPPER	<0.05
TDS	98
SULFATE	2 ppm
ZINC	20.05
TOC	3

Date Received \_\_\_\_\_ Date Reported 10/29/82 Reported By \_\_\_\_\_  
Date Analyzed \_\_\_\_\_ Laboratory Number 7261

## INSTRUCTIONS

Using typewriter or ball point pen, fill in all requested information on the top portion of form front. Please print legibly if typewriter is not available.

Before taking the sample, remove the two "freeze packs" from the styrofoam mailer and place in a freezer overnight. (SAMPLES NOT PRESERVED BY ICING DURING SHIPMENT WILL NOT BE TESTED.)

### SAMPLE COLLECTION:

- 1) Remove the two 1-quart plastic containers and inflate by mouth, if uninflated.
- 2) Let the water (to be sampled) run for 5 minutes to assure that the water is from the distribution system.
- 3) Rinse each plastic container two or three times, and discard the water.
- 4) After rinsing, fill each container to within approximately one inch of top of the sampling container. Then cap the container securely. Check samples (see Types of Samples below), samples from non-community systems, and special samples may contain only one 1-quart sampling container, rather than two.

### SAMPLE SHIPMENT:

- 1) After collection of the sample(s), replace the two frozen "freeze packs" in the styrofoam mailer.
- 2) Next, place the two 1-quart samples into the mailer and cap.
- 3) After capping the styrofoam mailer, place the report form (UNFOLDED) on top, then seal the cardboard box. Mail immediately to the State Laboratory using the supplied label. The sender is required to pay shipping costs.

The analysis takes several days for completion, and the report will be mailed back as soon as possible. Please do not call the laboratory to request "early" results, unless absolutely necessary.

### LIMITS OF ALLOWABLE CONCENTRATIONS FOR DRINKING WATER ARE LISTED BELOW:

<u>Parameters</u>	<u>Limits (mg/l)</u>	<u>Methods (EPA-600/4-79-020)</u>
Arsenic	0.05	AA, furnace technique, pp. 206.2-1 - 206.2-2
Barium	1.0	AA, direct aspiration, pp. 208.1-1 - 208.1-2
Cadium	0.010	AA, furnace technique, pp. 213.2-1 - 213.2-2
Chromium	0.05	AA, furnace technique, pp. 218.2-1 - 218.2-2
Fluoride (Temperature Dependent)	1.4-2.4	Ion Selective Electrode, pp. 340.2-1 - 340.2-3
Lead	0.05	AA, furnace technique, pp. 239.2-1 - 239.2-2
Mercury	0.002	Manual Cold Vapor technique, pp. 245.1-1 - 245.1-6
Nitrate (as N)	10.0	Colorimetric, Brucine, pp. 352.1-1 - 352.1-3
Selenium	0.01	AA, furnace technique, pp. 270.2-1 - 270.2-3
Silver	0.05	AA, direct aspiration, pp. 272.1-1 - 272.1-2
Iron	0.3	AA, direct aspiration, pp. 236.1-1 - 236.1-2
Manganese	0.05	AA, direct aspiration, pp. 243.1-1 - 243.1-2
pH	not less than 6.5 units	pH Electrometric, pp. 150.1-1 - 150.1-3

If sample concentrations are greater than the allowable concentrations, a check sample(s) will be required.

### TYPES OF SAMPLES

- Regular: A sample(s) submitted to meet the monitoring requirements of the North Carolina Drinking Water Act, GS 130 - Article 13D.
- Check: A sample(s) submitted when a previous sample has exceeded the allowable concentration. The check sample should be taken from the same sample distribution tap as the previous sample.
- Private: A sample(s) from a private water supply submitted by a licensed physician, sanitarian or other health department representative.
- Special: A sample(s) submitted by an engineer working with the State or the E.P.A., a sample taken by the owner/operator of a water system for a new well, a landfill test well sample or other non-categorized sample.