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PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Mr. Bobby Lutfy

COMPANY: North Carolina DENR

FAX NUMBER: 919-733-4810

DATE: February 9, 1999 PROJECT NUMBER: 96117.00.002

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FROM: Jeff Bishop

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COMMENTS:
Additional responses to your letter dated January 29, 1999.

FAX.DOC

Engineering • Planning • Finance



February 9, 1998^q

Mr. Bobby Lutfy
North Carolina Department of Environment
and Natural Resources
Division of Solid Waste Management
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27611-7687

RE: Ground Water Monitoring System
Macon County MSW Landfill
Phase 2 Cell 1
Macon County, North Carolina

Dear Mr. Lutfy:

On behalf of Macon County, we are responding to your letter dated January 28, 1999 regarding the Ground Water Monitoring System for Macon County MSW Landfill Phase 2 Cell 1. We did not originally receive page 2 of your letter dated January 28; therefore, our original letter dated January 29 did not respond to the comments on page 2 of your letter. Please accept this letter as an amendment to our letter of January 29.

The McCall residence private water well has now been located. The well is being abandoned today by D.R. Phillips Contracting. The well will be abandoned in accordance with 15 A NCAC 2C .0113 (a) (2). The record of the abandonment will be forwarded to your office as soon as completed.

We have verified with the Terra Consultants that MW-19A was drilled to auger refusal at a depth 55 feet and a 2.5 foot screen installed from a depth of 51.5 feet to 54 feet. MW-22A hit auger refusal at a depth of 25 feet. The drilling continued into rock to the design depth of 39.5 feet. A 3 foot screen was installed from a depth of 36.5 feet to 39.5 feet. A revised well installation record with a clarified drilling log will be submitted to your office by Friday of this week.

During the first baseline sampling event, the water level in MW 19 was only about 4.55 deep. The sampling event occurred in August, which was one of the drier months. We will continue to monitor the water level during the remaining baseline sampling events. MW-19 will be replaced if it is unable to provide sufficient water for a representative sample.

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The initial base line sampling event indicated high values for pH and Specific Conductance in MW-22A. These high values might indicate a well with grout contamination. We will continue to monitor these values during the remaining baseline sampling events. We will assess the status of MW-22A at the end of the baseline sampling and determine if the well needs to be replaced.

*MW-22A
 needs to be
 evaluated &
 corrected
 ASAP*

As you noted, the sampling results indicated high turbidity values in the new wells. MW-18, MW-19, and MW-20 were cloudy immediately following development, but the remaining wells were clear. We will continue to monitor the turbidity values during the remaining baseline sampling events and will redevelop the wells if needed.

Values for the hydraulic conductivity and the effective porosity have not been calculated at this time. These parameters will be analyzed and the results will be submitted in the final report following the baseline sampling events.

Sampling was inadvertently not included for MW-10, MW-14, MW-15 or the surface water monitoring points during the initial baseline sampling event. These wells and points will be included in the next baseline sampling event in late February. The baseline sampling and the next semi annual monitoring will be conducted on the following schedule:

Initial Baseline Sampling Event	August 1998
Second Baseline Sampling Event	Feb/Mar 1999
Semi Annual and Third Baseline Sampling Event	April 1999
Third Baseline Sampling for MW-10, MW-14, MW-15	May 1999
Fourth Baseline Sampling Event	June 1999
Final Report Submittal	July 1999

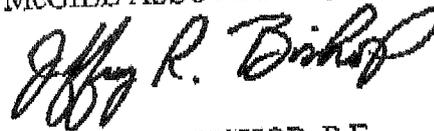
Carbon disulfide was found in the samples from MW-17, MW, 18, MW-19A, and MW-22. We have discussed this issue with Mr. Mark Poindexter, NCDENR, and we believe the higher carbon disulfide content could be a result of agricultural waste from the previous farming activities on the landfill property. During the installation of the wells, a strong odor was present at these wells. High metal concentrations were reported in MW-19, MW-20, and MW-22A. The same metals have also been reported in the existing wells around the Cell 1. These metals could be found in the saprolite in which the wells are constructed. A statistical analysis will performed at end of the baseline sampling to determine the baseline and background levels for each of these wells.

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Bobby, I hope this additional information addresses your concerns with groundwater monitoring wells and sampling at the landfill. Please call should you have any questions or need additional information.

Sincerely,

McGILL ASSOCIATES, P.A.



JEFFREY R. BISHOP, P.E.

cc: Mr. Larry Lackey
Mr. Ed Mussler

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