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North Carolina Department of Human Resources
 Division of Health Services
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James G. Martin, Governor
 Phillip J. Kirk, Jr., Secretary

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 State Health Director
 919/733-3446

June 30, 1986

MEMORANDUM

TO: J. Gordon Layton

FROM: M.L. Babuin *MLB*

SUBJECT: Deficiencies in Well Construction Associated with the
 Alamance County Landfill Groundwater Monitoring Wells

This landfill is divided into an older partially filled area and a newer, somewhat larger expansion. The older part of the landfill has three monitoring wells while the expansion has two. These five wells have the following similarities: (1) they are all cased with 2" PVC pipe, (2) range from approximately 15 to 30 feet in depth, and (3) are seasonally dry during summer months.

The following problems are associated with this facility:

1. Locks were absent from every well cap.
2. All caps were rusted-on, i.e., inside of well cap contained large quantities of rust which were accessible directly to the aquifer.
3. The PVC cap was absent on one well and in another was replaced by a rag stuffed-in from the top.
4. Two wells were installed with the angle iron collar supports welded in to the stick-up above the concrete collar not within the concrete; therefore, the entire stick-up could be yanked out of the ground.
5. One well was installed without a concrete collar, i.e., easy removal of stick-up.