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July 1, 2001

Mr. KC Marks, III  
City of Atlanta  
Bureau of Solid Waste Services  
68 Mitchell Street, Suite 4800  
Atlanta, Georgia 30303

Subject: Gun Club Road Landfill - Waste Investigation Findings

Dear Mr. Marks,

Roy F. Weston, Inc. (WESTON) has completed the fieldwork for the waste investigation based on the scope of work in the attached proposal dated January 30, 2001. The following is a letter report detailing the findings of the waste investigation.

#### Background and Purpose

The purpose of this waste investigation was primarily to determine the horizontal limits of waste for the area of waste found beyond the limits of the existing permitted landfill cap in the southeast portion of the project. Borings were also taken through the waste to determine the thickness for a volume calculation.

A portion of this waste area was found to extend beyond the southern boundary of the property owned by the City of Atlanta (City) during installation of the Methane Monitoring Probes. The City requested WESTON to field locate the actual limits of waste for this area to determine the extent of other properties affected. An estimated limit of waste was determined by visual inspection of the existing topography and scaled onto a map of the area. The estimated limit of waste was assumed to be the intersection of what appeared as an unnatural fill on top of the existing topography. WESTON developed the scope of work and presented a proposal to the City (attached). This proposal, dated January 7, 2001 is the basis for the scope of work performed and summarized in this report.

#### Findings of the Waste Investigation

The actual limits of the waste were found to be in general agreement with the estimated limits of waste with the some deviation along the southern boundary of the estimated waste limits. The actual limits of waste extended beyond the estimated limits of waste. A deviation of an additional 100 feet was discovered in the southwest corner of the estimated waste limits. Also, the actual limits of waste were found not to extend as far as anticipated along the south central portion of the estimated waste limit. All other areas were in general agreement with the estimated limit of waste.



#### Execution of the Work

The scope of work was performed by excavating test pits generally along the estimated limits of waste. Test pits were excavated with a tracked 130 excavator with a 36-inch bucket. The edge of waste was determined at 50 to 100 foot intervals by excavating a series of test pits. Excavation continued at each location until waste was found or until it was established that undisturbed natural soil horizon was encountered. The typical natural soil horizon was characterized by a layer of red clayey silt underlain by sandy silt. The edge of waste was effectively visually determined. Additional test pits were excavated beyond the edge of waste found to confirm the limit of waste and to check for other areas of waste that was not contiguous with the main area.

During the test pit excavation a general description of each test pit was documented. This log is included in this report. Each test pit was marked with a pin flag identified with a unique number and a letter designation (T, C or Edge) to indicate the findings. T indicates trash (waste) found, C indicates that no trash was encountered and Edge indicates the edge of waste was found.

Thirteen borings were taken through the waste to determine the thickness of the waste. The location of the borings was determined to give a general coverage over the actual area of waste found. The borings continued until natural ground was encountered. The borings generally continued five to ten feet beyond the interface of the waste and the natural ground to confirm that the bottom of the waste was found. Each boring location was also marked with a pin flag identified with a unique number and the depth from ground surface to natural ground. The boring logs are included in this report.

The location of all of the test pits and borings were recorded by a professional surveyor registered in the state of Georgia. This information was placed onto a map of the area (drawing). This drawing also includes the property lines of all the parcels of land previously surveyed. The edge of waste is shown on this drawing by connecting the test pits in which the edge of waste was found. This drawing is attached to this report (2 sheets).

#### General Findings

The actual edge of waste was found generally in the location estimated from the proposal however there are variances along this extreme southern boundary. The actual edge of waste was found not to extend as far to the south as anticipated. This was confirmed by numerous test pits and one boring in this area. The western edge of waste was generally found at the intersection of a the relatively flat area and the 4:1 slope which rises to the east. The south west and west limit of waste was found consistently at the toe of the fill slope that characterizes this boundary.



Page 3 of 3  
Mr. KC Marks, III  
July 1, 2001

There was an active spring encountered on the west boundary that flows into Proctor creek. There was no obvious odor to the spring. It emerges from the side of the fill slope about 10 feet vertically up slope. The west slope is also characterized by very wet cover soils. The cover soil thickness at the toe of the west slope is typically 6 to 8 feet. Much of the cover over the top area of the waste fill varies from a few inches to a foot.

Most of the waste encountered in the test pits and the borings appeared as an ash material. There was municipal solid waste (MSW) found in numerous test pits. Very few of the test pits or borings evidenced any odor of decaying waste.

Please contact me if you have any questions regarding this report at the above number.

Sincerely,  
Roy F. Weston, Inc.

Richard A. Woodham, P.E.  
Senior Project Engineer

Attachments: Drawing Sheets (2)  
Boring Logs  
Test Pit Logs

Cc: James Swope (City of Atlanta)  
Tim Colbert (City of Atlanta)  
Robert Mangham (WESTON)  
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