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SOLID WASTE SECTION  
ASHEVILLE REGIONAL OFFICE

Waste Industry Experts

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November 19, 2009

Mr. Allen Gaither, P.E.  
Permitting Engineer  
DENR Division of Waste Management, Solid Waste Section  
2090 US Highway 70  
Swannanoa, NC 28778

Fac/Perm/Co ID #	Date	Doc ID#
44-07	11/30/09	8965

RE: Haywood County, White Oak Landfill, Permit No. 44-07, Phase 3 Construction – Geologist Inspection

Dear Allen,

On behalf of Haywood County Solid Waste Department, Joyce Engineering, Inc. is submitting this geologist inspection for the Phase 3 construction at the White Oak landfill in response to Rule .1624 Construction Requirements for MSWLF Facilities.

The subgrade certification of Phase 3 was conducted in partial segments as the contractor was excavating the expansion area. Rock was encountered on the west side before reaching the subgrade elevations. The remaining excavation was completed by cutting and hauling the in-situ material until the subgrade elevations were achieved.

On September 9, 2009 Hannu Kemppinen, P.G. (NC#1490) conducted an inspection of Phase 3 subgrade. On this day, the east side slope of Phase 3 was prepared in accordance with the design grades and exhibited no unusual geologic conditions that would adversely affect the design, construction or operation of the unit. At that time, the construction excavation had exposed resistant bedrock on the west side of Phase 3. The County was considering removal of the rock to retain the permitted capacity. Further decision of the rock removal or subgrade alteration was pending. Due to the delay, the west side and remaining areas of the Phase 3 subgrade inspection were to be conducted at a later time.

On October 1, 2009 Hannu Kemppinen conducted a subgrade inspection at the south end of the Phase 3. On this day, the south end of the Phase 3 was prepared in accordance with the design and exhibited no unusual geologic conditions that would adversely affect the design, construction or operation of the unit.

On November 18, 2009 Hannu Kemppinen conducted a subgrade inspection of the west side of the Phase 3 after the rock was removed and the subgrade surface was properly prepared in accordance with the approved engineering plans and exhibited no unusual geologic conditions that would adversely affect the design, construction or operation of the unit.

It is my belief that the Phase 3 subgrade was prepared in accordance with Rule .1624(7)(C) certification requirements.

Sincerely,  
JOYCE ENGINEERING, INC.

Hannu Kemppinen, P.G.  
Senior Project Consultant

C: Stephen King, Haywood County