



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

September 16, 2011

Kent Brandon, Solid Waste Director  
Wilkes County MSWLF  
9219 Elkin Highway  
Roaring River, North Carolina 28669

RE: Permit to Construct Application – Phase 4, Vertical Expansion  
Wilkes County MSW Landfill – Roaring River  
Wilkes County, North Carolina  
Approval of Water Quality Monitoring Plan and Landfill Gas Monitoring  
Requirements  
Permit No. 97-04  
Document ID No. 15166

Dear Mr. Brandon:

The North Carolina Solid Waste Section has completed a technical review of the revised Water Quality Monitoring Plan, *DIN 15121* (Volume 3 by Joyce Engineering, Inc. - 9-1-2011), the Landfill Gas Monitoring Plan, *DIN 15161* (by Joyce Engineering, Inc. - 8-3-2011), and portions of Volume 1 and 2, *DIN 15160* (by Joyce Engineering, Inc. - 9-1-2011) pertaining to environmental monitoring; submitted as part of the referenced Permit to Construct Application for Roaring River MSWLF, in Wilkes County.

The Water Quality Monitoring Plan includes groundwater detection sampling on a semi-annual schedule of existing facility background monitoring well, MW-13, and existing monitoring wells, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12S, MW-12D, MW-17, and MW-18. No surface water sampling is proposed at this time.

The Landfill Gas Monitoring Plan includes quarterly sampling of existing gas monitoring wells, GP-1, GP-2, GP-3, GP-5, and sampling of the facility's scale house and maintenance garage /office building. Proposed GP-7 and any additional landfill gas monitoring well(s) shall be constructed according to the Landfill Gas Monitoring Plan and the Solid Waste Section's Landfill Gas Monitoring Guidance Document. Upon completion of the landfill gas monitoring well installations, boring logs, and well construction records for each well shall be submitted to the Section.

Kent Brandon, Solid Waste Director  
Wilkes County MSWLF, Roaring River  
PTC-Phase 4 – Vertical Expansion  
Approval of WQ and Gas Monitoring Plans  
Page 2 of 2

The Water Quality Monitoring Plan and the Landfill Gas Monitoring Plan meets the criteria required in 15A NCAC 13B .1600 and therefore, this portion of the Permit to Construct Application is approved.

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If you have any questions, please do not hesitate to call me at (919) 508-8524.

Sincerely,



Brian Wootton  
Hydrogeologist  
NC Solid Waste Section

cc:	Stephen J. Cowie	Joyce Engineering, Inc.
	Jeremey J. Kerly	Joyce Engineering, Inc.
	Ed Mussler	NC Solid Waste Section
	Allen Gaither	NC Solid Waste Section
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