



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews  
Director

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 29, 2013

Mr. Simon Lobdell, P.E.  
City of Durham Department of Water Management  
1600 Mist Lake Drive  
Durham, NC 27704

Re: Landfill Liquid Breakout Assessment  
City of Durham Closed Municipal Solid Waste Landfill, Permit #32-01

Dear Mr. Lobdell:

The Solid Waste Section (Section) has reviewed the *LF Liquid Breakout at the City of Durham Closed MSW Sanitary LF*. The assessment was conducted in accordance with the assessment plan submitted to the Section on March 31, 2013 to evaluate two discharges from the landfill on February 8 and February 22, 2013. The February 8<sup>th</sup> discharge involved a release from a condensate pump station into a swale near a surface water body. The second discharge occurred when a foam-like substance was observed during storm water repairs that disturbed the surface of the landfill.

The first discharge was evaluated by collecting two surface water samples from the swale upstream and downstream of its overflow point. Three surface water samples and three soil samples were collected to assess the second discharge. Prior to sample collection, the area allowing significant discharge was re-compacted and accumulated surface water in the plunge pool at the bottom of the storm drain was pumped out and disposed of in the sanitary sewer. Surface water samples were collected from the plunge pool, at a point after confluence of surface drainage channels, and at a point before confluence. A background soil sample was collected 25ft from the plunge pool and the two remaining soil samples were collected from the plunge pool and at a point after confluence of surface drainage channels.

The surface water sample results from the first discharge event did not report any contaminants of concern at detectable concentrations. The soil and/or surface water samples associated with the second discharge reported elevated concentrations of arsenic, chromium, cobalt, copper, nickel, lead, silver, thallium, and zinc. Those constituents were also present at elevated concentrations in the background samples and are thought to be naturally occurring.

Based on the results presented in the report, the Section will not require additional assessment of the two discharge events. Please contact me at (919) 707-8288 or by e-mail at [ervin.lane@ncdenr.gov](mailto:ervin.lane@ncdenr.gov) if you have any questions or concerns regarding this letter. Thank you in advance for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink that reads "Ervin Lane". The signature is written in a cursive style with a large, stylized "E" and "L".

Ervin Lane  
Compliance Hydrogeologist  
Solid Waste Section

cc: Mark Poindexter, Field Operations Branch Head  
Jason Watkins, Central District Supervisor  
John Patrone, Environmental Senior Specialist  
Solid Waste Central Files