



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

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

March 26, 2013

Via Electronic Mail

DIN 18752

David Lambert
Solid Waste Director
354 Twin Oaks Road
Statesville, North Carolina 28625

Re: Draft Permit for Permit to Construct, Phase 5
Iredell County Facility Expansion
Iredell County, Permit No. 4903MSWLF-1993,

Dear Mr. Lambert,

The Solid Waste Section of the Division of Waste Management (Section) has included the following Condition to your Draft Permit to Construct, Phase 5.

ATTACHMENT 2
CONDITIONS OF PERMIT TO CONSTRUCT

PART I: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

7. d. As per 15A NCAC 13B 1620(e)(5).and 1626 (8), a stormwater segregation system for Phase 5 and subsequent phases shall be developed and submitted to the Section for review and approval by April 29, 2013. This plan shall require location and details of the control measures for stormwater within the Phase. Surface water shall not be impounded over or in waste and shall be diverted from the operation area. Documentation and a certification report shall be submitted as part of the CQA Report in 6(b).

Please advise Teresa Bradford and myself when you will be having a pre-construction meeting.

If you have any questions or comments, please contact me at (704) 235-2163, or by email at john.murray@ncdenr.gov.

Sincerely,

A handwritten signature in blue ink that reads "John Murray". The signature is fluid and cursive, with a long horizontal stroke at the end.

John Murray, P.E.
Regional Engineer
Solid Waste Section

Cc: Teresa Bradford, DWM
Brian Wootton, DWM
Wayne Sullivan, Municipal Engineering

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

**Municipal
Services**



**Engineering
Company, P.A.**

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

May 1, 2013

Mr. John Murray, Regional Engineer
NC Solid Waste Section
Mooresville Regional Office
610 East Center Ave.
Mooresville, NC 28115

Re: Iredell County's Permit to Construct Phase 5
Storm Water Management Plan

Dear Mr. Murray:

Please find attached the Storm Water Management Plan for the operation of Phase 5 of the Iredell County Landfill. If you need any additional information, please do not hesitate to call.

Sincerely yours,
MUNICIPAL ENGINEERING SERVICES CO., PA

D. Wayne Sullivan
Project Manager

Copy: Mr. David Lambert

Storm Water/Leachate Management Plan

Since October 1, 1993, Iredell County has been disposing of its leachate in the Statesville Waste Water Treatment Plant. Leachate from all Phases of the landfill is pumped or gravity flows to a line that then gravity flows into the lagoon. The leachate in the lagoon then gravity flows into the Statesville sewerage system.

In the operation of Phases 1 through 4, all storm water was treated as leachate until the waste was above the surrounding outside berms, and the storm water was then diverted off the landfill.

Phase 5 does not tie into any other phase at this time. Outside storm water is being diverted away from Phase 5 by a series of diversion berms. Phase 5 has two sumps with the drainage area of the east sump smaller than the west sump.

The initial waste is going to be placed over the sump on the east side. An earthen berm will be constructed approximately half way up the drainage area of the east sump. The storm water that is collected behind this earthen berm will be pumped over the landfill berm to areas where the storm water will then run through a sediment basin. The earthen berm may be moved further up the drainage area of the eastern sump if the County feels that an additional berm will help divert storm water while the drainage area is being filled with waste. Once the drainage area is filled with waste, all storm water will be collected as leachate until the waste gets above the outer landfill berms where it can be diverted off the landfill.

When the western sump is placed into operation, the sump will also be initially covered with waste and earthen berm(s) constructed up and across the drainage area where storm water can be pumped over the landfill berms to nearby sediment basins. The manner in which the waste will be placed is from the sumps towards the berm(s). However, once the initial waste is placed in the western drainage area, storm water cannot be diverted until the waste is above the outside landfill berms. Once the waste is above the outside landfill berms, it can then be diverted.