



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

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

November 20, 2012

Via Electronic Mail

DIN 17714

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

Re: Application 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 completed the Technical Review of your Phase 5 - Permit to Construct application. Though, further questions and comments may be asked in the future.

1. Please update the property description and Deed References incorporating the new property.
2. The Phases need to be identified on the cross-sections on Sheet 16 of 18 (Engineering Plans).
3. A detail of the 2" drain pipe showing the connection to the landfill (Page 18 of 18, Sump Riser Pad and Piping Detail).
4. Provide documentation that the 2' of 6" rip rap placed directly on the leachate collection piping and liner system will not damage either one during placement or over the long-term life of the landfill.
5. A profile and plan view drawings (existing and proposed final grades) showing the force main in detail from Phase 5 to the Manhole #1. Are any air-release valves needed? Centerline stakes need to be placed along the route of the force main. Is the electric line for the pump above ground or buried (need location)?
6. Will leachate pipe cleaning systems be able to easily pass through the 24" to 8" eccentric reducer in the leachate sump area? If the pump would get stuck in the sump area there would be no way to clean the 8" main line. Do you have any experience with this?

7. Please clarify the Temporary Anchor Trench connection process when Phase 6 is constructed with Phase 5.
8. Page 209. A minimum of 18" (not 12") of cover should be maintained between the low ground pressure equipment and the liner at all times.
9. Page 320. You may need to check the seeding and mulching costs in the closure plan. The \$18,340/acre may be off a decimal point.
10. Page 324. The estimate for the following post-closure items listed seems low: item 1 (number of monitoring points), 3 and 7 (mowing twice/year, cap repair seems low). You need to add in the annual permit fee-\$1000.00/year.
11. A minimum of \$2,000,000 Corrective Action requirement (130A-295.2(h) needs to be included in financial assurance estimate. When the \$2,000,000 is included, the monitoring costs in the post-closure estimate may be included in it.

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

Sincerely,



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

Cc: Ed Mussler, P.E., DWM  
Teresa Bradford, DWM  
Brian Wootton, DWM  
Wayne Sullivan, Municipal Engineering