

Permit No.	Date	Document ID No.
57-03	August 14, 2009	8229

**Gaither, Allen**

**From:** Mussler, Ed  
**Sent:** Tuesday, August 11, 2009 2:12 PM  
**To:** Gaither, Allen  
**Subject:** FW: Macon County landfill-reduced reuse spray irrigation system  
**Attachments:** image001.jpg; ncdennr-solid waste-permit modification for spray irrigation system.pdf; macon county-overall reuse site plan.pdf

For the file

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**From:** Mike Waresak [mailto:mikew@mcgillengineers.com]  
**Sent:** Wednesday, August 05, 2009 4:38 PM  
**To:** Mussler, Ed  
**Cc:** Jeff Bishop  
**Subject:** Macon County landfill-reduced reuse spray irrigation system

Mr. Mussler,

On October 26, 2006, you issued a permit modification (see attached) for the Macon County landfill to allow the installation of a spray irrigation system for treated wastewater (reclaimed water) to be applied to approximately 40 acres in future cell No. 3.

Construction bids for this project were received a couple months ago, and the construction bids exceeded the available funds. Therefore, in order to reduce the cost, we have proposed a significant reduction to the size of the spray irrigation area, reducing the area from approximately 40 acres to approximately 7.22 acres which is within the originally approved area. Attached is a copy of a revised overall site plan showing the reduced irrigation area in the eastern corner of the landfill property. The Division of Water Quality has approved the concept of this reduction, but has requested we obtain written concurrence from your office.

The application rate remains at 1 inch per week, which is consistent with the original proposal. Only the size of the irrigation field has been reduced, for a maximum of approximately 28,000 gpd to be applied over the 7.22 acres when weather conditions permit. The treated wastewater will meet the same reuse water standards as originally submitted using an in-line tertiary filtration system. The contractor has proposed, in order to save cost, to install buried PVC pipe instead of aluminum pipe that was to be installed aboveground. The buried PVC pipe would then be removed when the irrigation system is removed in the future if this area is needed for landfill use.

This proposed reduction would have significantly less impacts to the landfill property. Therefore, we hope you will be able to provide concurrence with this proposed modification.

The construction bids that were received are only valid for a short time, so we would appreciate anything you could do to expedite this process.

Please feel free to contact me if you have any questions or need any additional information.

Thanks, and I look forward to hearing from you.

Mike

**Mike Waresak, P.E.**  
**Senior Project Manager**



55 Broad Street  
Asheville, North Carolina 28801  
T.828.252.0575  
F.828.252.2518

**Mike Waresak**

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**From:** James C. Coffey [James.C.Coffey@ncmail.net]  
**Sent:** Thursday, October 26, 2006 12:14 PM  
**To:** Ken Pohlig  
**Cc:** mikew@mcgillengineers.com  
**Subject:** Modification to Permit for the Macon County MSWLF, Permit Number 57-03

Ken,

I have attached the Modification to the Solid Waste Permit for the Macon County Municipal Solid Waste Landfill, Permit Number 57-03.

This modification approves the spray irrigation of wastewater from the Town of Franklin Wastewater Treatment Plant on an inactive area within the landfill property boundaries(future Cell 3). If you need a hard copy, please let me know.

When you get a chance, I would like a copy of the DWQ permit for my files.

Thanks,

Jim

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James C. Coffey, Asheville Regional Engineer  
Solid Waste Section  
Asheville Regional Office  
2090 US Highway 70  
Swannanoa, NC 28778  
Telephone: 828.296.4703 Fax: 828.299.7043  
E-mail Address: [James.C.Coffey@ncmail.net](mailto:James.C.Coffey@ncmail.net)  
Web Site: <http://wastenotnc.org/swhome>



Mr. Sam Greewood  
Permit Modification  
October 26, 2006  
Page 2

groundwater in the proposed area, an assessment will be required. It is important to note that the results of this assessment could significantly impact the use of this cell for landfill expansion.

If you have any questions, please call Jim Coffey, phone number 828-296-4703 at the Asheville Regional Office.

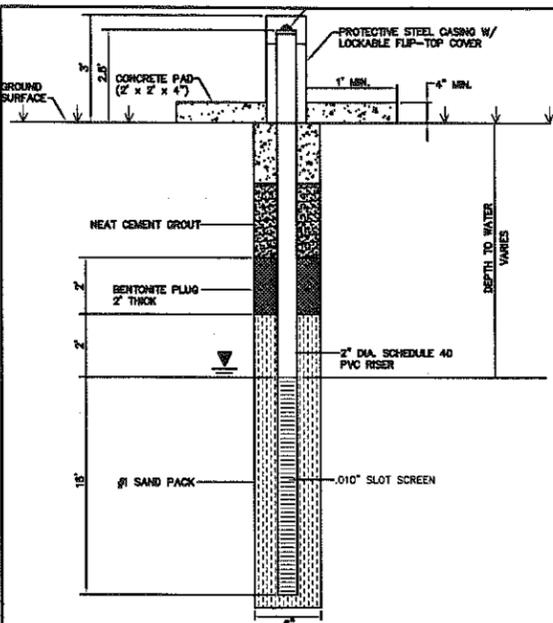
Sincerely,



Edward F. Mussler, III, P.E.,  
Permitting Branch Supervisor  
Solid Waste Section

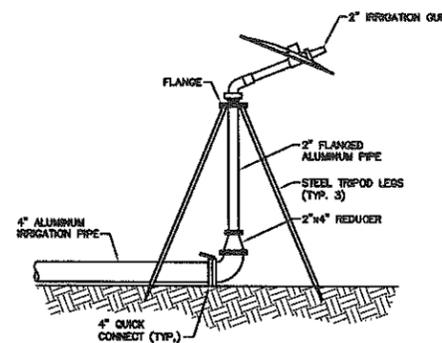
Edward F. Mussler III  
CN = Edward F. Mussler III, C =  
US, O = Division of Waste  
Management, OU = Solid Waste  
Section  
I have reviewed this document  
and I am approving this document  
2006.10.26 08:40:57 -04'00'

cc. Jim Coffey  
Jim Patterson  
Chris Stahl, Macon County Solid Waste  
Mike Waresak, Mark Cathey, McGill Associates

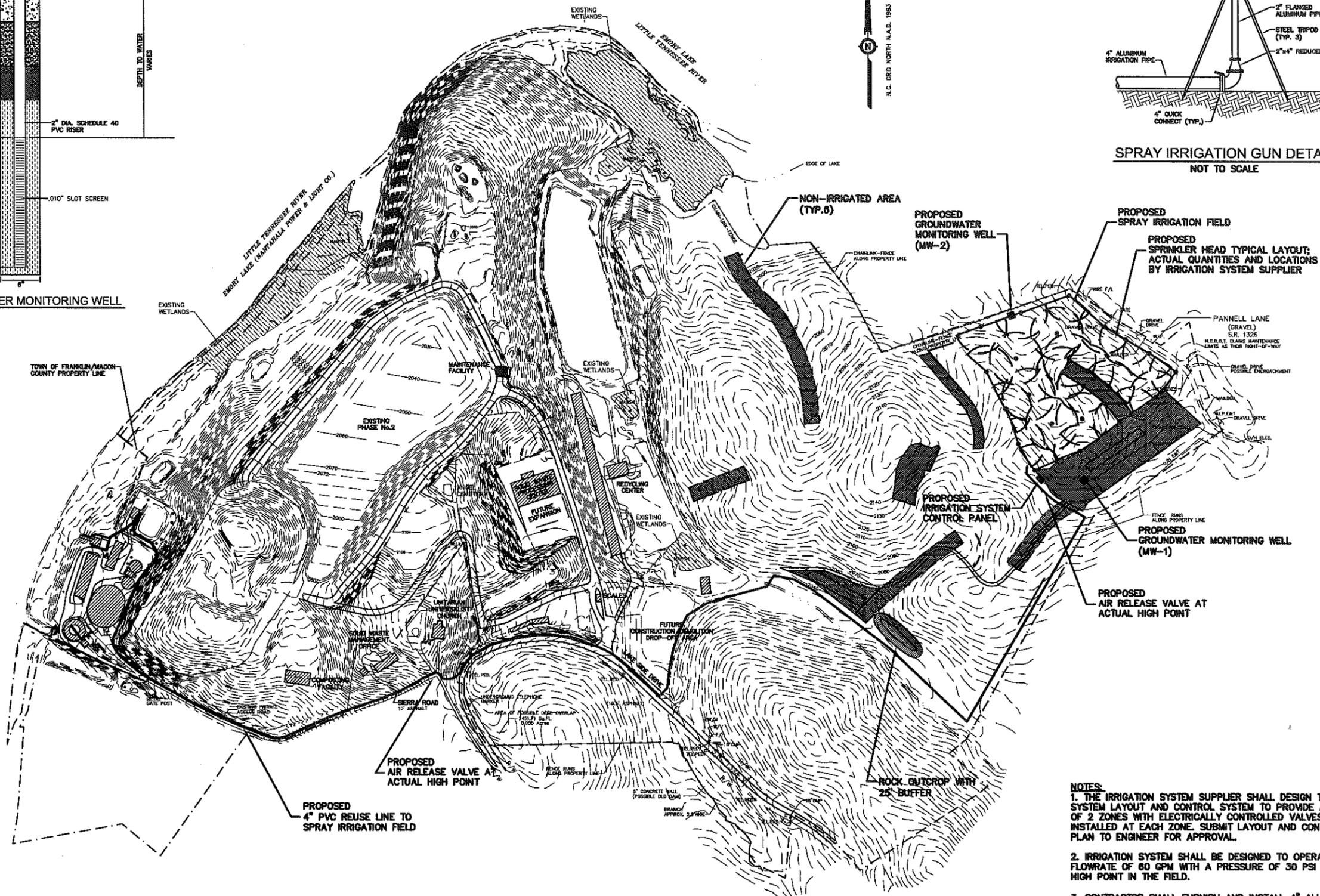


GROUND WATER MONITORING WELL

PLAN  
NOT TO SCALE



SPRAY IRRIGATION GUN DETAIL  
NOT TO SCALE



- NOTES:**
1. THE IRRIGATION SYSTEM SUPPLIER SHALL DESIGN THE SYSTEM LAYOUT AND CONTROL SYSTEM TO PROVIDE A MINIMUM OF 2 ZONES WITH ELECTRICALLY CONTROLLED VALVES INSTALLED AT EACH ZONE. SUBMIT LAYOUT AND CONTROL PLAN TO ENGINEER FOR APPROVAL.
  2. IRRIGATION SYSTEM SHALL BE DESIGNED TO OPERATE AT A FLOWRATE OF 80 GPM WITH A PRESSURE OF 30 PSI AT THE HIGH POINT IN THE FIELD.
  3. CONTRACTOR SHALL FURNISH AND INSTALL 4" ALUMINUM IRRIGATION PIPE FOR SURFACE INSTALLATION, WITH QUICK CONNECTS, INCLUDING TEES AND BENDS (ALL WITH QUICK CONNECTS). QUANTITIES AND LOCATIONS TO BE DETERMINED BY IRRIGATION SYSTEM SUPPLIER.

NO.	DATE	BY	REVISION DESCRIPTION
4	7/08	M/JW	REVISED IRRIGATED AREA AND FORCE MAIN LOCATION
3	10/06	M/JW	REVISED MONITORING WELL LOCATIONS PER NCDWQ COMMENTS
2	8/06 <sup>11</sup>	M/JW	STATE REVIEW COMMENTS
1	5/03	M/JW	REVISED LAYOUT AND STATE REVIEW COMMENTS

C:\2001\01713\Reviewed Reuse Facility\2006 Reuse\01713-1\_2006REV.dwg 7/18/2008 7:51 AM DAVID