



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compos t		SLAS	COUNTY: Catawba PERMIT NO.: 18-01 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Audit: February 8, 2011

Date of Last Audit: Undetermined

FACILITY NAME AND ADDRESS:

Catawba County Landfill
 Bethel Church Road
 Newton, North Carolina 28658

GPS COORDINATES: N: 35.65186 W: 81.16483

FACILITY CONTACT NAME AND PHONE NUMBER:

Rodney Hamby, Landfill Superintendent (704) 462-1348

FACILITY CONTACT ADDRESS:

Post Office Box 389
 Newton, North Carolina 28658

AUDIT PARTICIPANTS:

Rodney Hamby, Landfill Superintendent
 Robert Appleby, Landfill Operations Supervisor
 Dallas Sigmon, Heavy Equipment Supervisor
 Charles Gerstell, NCDENR-Solid Waste Section

STATUS OF PERMIT:

Catawba County was issued a Closure Letter for the Catawba County Landfill, Permit No. 18-01 on September 5, 1991.

PURPOSE OF AUDIT:

Comprehensive Audit

NOTICE OF VIOLATION(S):

The closure letter issued on September 5, 1991 states in part: All disposal sites, either operating or closed, are subject to the explosive gas requirements of Section .0503(2)(a).

- **15A North Carolina Administrative Code .0503(2)(a) states:** A site shall meet the following design requirements:
 - a. The concentration of explosive gases generated by the site shall not exceed
 - i. twenty-five percent of the limit for the gases in site structures (excluding gas control or recovery system components); and
 - ii. the lower explosive limit for the gases at the property boundary;

FACILITY COMPLIANCE AUDIT REPORT
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Solid Waste Section

Page 2 of 3

On January 31, 2011, Rodney Hamby reported by phone that methane had been recorded in excess of the lower explosive limit for methane at the facility property boundary at the closed Newton MSW Landfill. Mr. Hamby explained that vacuum had been lost to the trunk line for the methane extraction system. He also explained that CDM had been contacted to determine a cause for the exceedance and a remedy.

During the inspection performed on February 8, 2011, Mr. Hamby explained that the vacuum had been reestablished to the trunk line for the methane extraction system, but methane levels continued to exceed the lower explosive limit at the facility property boundary along the western and northern perimeter of the landfill. He also explained that landfill staff continued to measure methane levels at all methane probes, and all landfill gas wells were being inspected and repairs made as needed. A review of methane records found that methane had been recorded in excess of the lower explosive limit at methane probes #4 - #10 (all of which are along the western property boundary) and methane probe #11 which is located on the northern property boundary. Mr. Hamby also explained that CDM was in the process of developing a remediation plan to address the methane exceedances which was to be completed within 60 days.

Catawba County is in violation of 15A NCAC 13B .0503(2)(a)(ii) in that the lower explosive limit for methane has been exceeded at the facility property boundary.

In order to achieve compliance, Catawba County must submit a copy of the methane remediation plan to the Solid Waste Section upon completion. The Division must also be notified immediately afterward, in writing, that the plan has been implemented. Additional measures may be required by the Division. The remediation plan should be submitted to:

Ervin Lane, Compliance Hydrogeologist
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

STATUS OF PAST NOTED VIOLATIONS:

N/A

AREAS OF CONCERN AND COMMENTS:

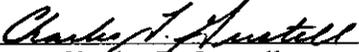
1. Semi-annual groundwater monitoring is performed for the facility.
2. Quarterly methane readings have been performed at the methane probes on the property since March 2009. A review of methane monitoring records found that no methane was detected at the probes from March 2009 to December 2009.
3. A gate is provided at the entrance to prevent unauthorized entry.
4. Edge of waste markers were in place.
5. Ponding was observed in many of the diversion swales located on the landfill. Mr. Hamby stated that landfill staff had begun logging areas of ponding prior to the inspection. Plans are to re-grade these areas to ensure positive drainage and prevent ponding. Some areas of specific concern were as follows:
 - Within the diversion swale at the second bench from the top of the landfill at the northeast corner.
 - Within the diversion swale located near methane well #30.
 - At the new headwall for the corrugated plastic pipe located near methane well #44.
 - Slight ponding observed adjacent to methane well #61.

FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

Page 3 of 3

6. An area of eroded soil was observed on the top of the landfill near the headwall of a pipe which was located near methane well #42. This area needs to be repaired and stabilized with a groundcover sufficient to restrain erosion.
7. No areas of significant settling were observed on the landfill.
8. A good vegetative cover was observed on the landfill.
9. A landfill gas extraction system is being utilized at the landfill. Landfill staff had been inspecting each methane extraction well and making repairs as needed which includes replacing faulty valves.
10. Trees along the western and northern property boundaries showed no signs of stress at the time of inspection.
11. During the inspection, it was discovered that although methane levels have been recorded at methane probes since 2009, no methane monitoring plan was in place for the landfill. Catawba County should have a permanent methane monitoring plan in place that satisfies the conditions of Rule 15A NCAC 13B .0503(2)(a)(i) and (ii). Copies of a methane monitoring plan should be placed in the operating records for the facility and made available when requested.

Please contact me if you have any questions or concerns regarding this audit report.


 Charles T. Gerstell
 Environmental Senior Specialist
Regional Representative

Phone: (704) 235-2144

Delivered on : <u>3/11/11</u> by		Hand delivery		US Mail	Certified No. [<u>7009 2250 0004 3266 4532</u>]
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Cc: Deborah Aja, Western District Supervisor
 Ed Mussler, Permitting Branch Head

Mr. Tom Lundy, County Manager
 Post Office Box 389
 Newton, North Carolina 28658

Certified No.: 7009 2250 0004 3266 4518