



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: Macon PERMIT NO.: 57-04 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM		
Closed CDLF	X	Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Audit: November 18, 2010

Date of Last Audit: June 19, 2008

FACILITY NAME AND ADDRESS:

Macon County Construction and Demolition Landfill (Highlands)
 1080 Rich Gap Road
 Highlands, NC 28741

GPS COORDINATES: N: 35.002035 E: -83.37684

FACILITY CONTACT NAME AND PHONE NUMBER:

Chris Stahl, Director
 Macon County Solid Waste Dept.
 828-349-2100

Landfill/Transfer Station: 828-526-2073

FACILITY CONTACT ADDRESS:

109 Sierra Drive
 Franklin, NC 28734

AUDIT PARTICIPANTS:

Troy Harrison, NCDENR Solid Waste Section
 Tommy Keener, Macon County Solid Waste

STATUS OF PERMIT:

Original Permit to Operate (PTO): June 8, 1993
 Modification to PTO: July 7, 1998
 Amendment to PTO: October 7, 2004
 Transfer Facility Permit to Construct (PTC)/PTO: December 6, 2007
C & D LF ceased accepting waste after June 30, 2008
A Closure and Post-Closure Plan was submitted on June 30, 2008
A closure permit is pending.

PURPOSE OF AUDIT:

Comprehensive audit of Closed C & D Landfill

NOTICE OF VIOLATION(S):

N/A

STATUS OF PAST NOTED VIOLATIONS:

N/A

AREAS OF CONCERN AND COMMENTS:

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1. All photographs were taken by Troy Harrison on November 18, 2010.
2. The landfill ceased receiving waste on June 30, 2008. The final Closure and Post-Closure Plan was submitted on June 30, 2008 and received on July 1, 2008. The final cap was certified as constructed according to the closure plans and specifications of 15A NCAC 13B .0505 by Mr. Jeff Bishop, P.E., Senior Project Manager, McGill Associates. This was required by 15A NCAC 13B .0505 and .0531(c)(1).
3. The cap of the landfill was observed. Vegetation has begun to grow on the cap. No leachate breakouts or seeps were observed. No ponding of water was observed on top of the cap.



Cap of Landfill looking West



Cap of landfill looking Northwest

4. There were two areas that will need attention to maintain the integrity of the cap.
 - a. **There was erosion observed on the southern slope near the sediment basins. The erosion was not severe enough to expose waste. This will need to be repaired immediately.**



Southern slope of landfill looking East showing erosion



Southern slope of landfill looking Northeast showing erosion & partial repairs

- b. **The Western (lower) slope of the landfill had moderate erosion. The edges of the cap had not been mowed. These areas need to be mowed to prevent encroachment of woody vegetation onto the landfill.**

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Western slope looking north showing erosion



Close-up of erosion on Western Slope.



Close-up of Edge of Waste Marker on Western Slope



Edge of Waste marker on Western Slope

5. The groundwater monitoring wells were observed. MW-A was observed locked, however, the hinge was broken. This will need to be repaired. MW-B was observed locked and secured. MW-3A is located up-gradient of the landfill and serves as a background well.
6. Paragraph 19 of the most recent permit states: “Explosive gas monitoring shall be performed as needed to ensure compliance with the standards in Rule .0503(2) (a)”

15A NCAC 13B .0503(2)(a) states:

“A site shall meet the following design requirements:

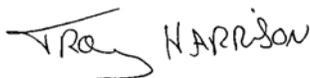
- (a) The concentration of explosive gases generated by the site shall not exceed:
 - (i) twenty five percent of the limit for the gases in site structures (excluding gas control or recovery system components); and
 - (ii) the lower explosive limit for the gases at the property boundary.”

An investigation should be done to determine to determine compliance with the appropriate Rule. A preliminary study should be conducted to determine if the landfill is generating explosive gas within 60 days of receipt of this report. Further action may be required upon receiving results of the study.

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



828/296-4701

Phone: _____.

Troy Harrison
Environmental Senior Specialist
Regional Representative

Delivered on : <u>December 6, 2010</u> by		Hand delivery	<input checked="" type="checkbox"/>	E-Mail		Certified No. []
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cc: Mark Poindexter, Field Operations Branch Supervisor
Deb Aja, Western District Supervisor
Donald Herndon, Compliance Officer
Ed Mussler, Permitting Branch Supervisor