

FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:

Lined MSWLF	<input checked="" type="checkbox"/>	LCID		YW		Transfer		Compost		SLAS		COUNTY: Stanly PERMIT NO.: 84-01 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods	<input checked="" type="checkbox"/>	Incin		T&P		FIRM		
CDLF	<input checked="" type="checkbox"/>	Tire T&P / Collection	<input checked="" type="checkbox"/>	Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Audit: 11/18/09, 11/20/09, 12/8/09, 12/10/09

Date of Last Audit: 6/19/09

FACILITY NAME AND ADDRESS:

City of Albemarle MSW Landfill Facility
 40592-B Stony Gap Road
 Albemarle, North Carolina

GPS COORDINATES: N: 35.31004 W: 80.15046

FACILITY CONTACT NAME AND PHONE NUMBER:

Raymond Alan, City Manager
 City of Albemarle
 (704) 984-9408

FACILITY CONTACT ADDRESS:

Post Office Box 190
 Albemarle, North Carolina 28002

AUDIT PARTICIPANTS:

Butch Honeycutt, Sanitary Landfill Supervisor	11/18/09 and 11/20/09
Darren Preslar, Specials Projects Officer	11/18/09, 11/20/09, 12/8/09 and 12/10/09
Mike Lambert, Public Works Director	12/8/09 and 12/10/09
Nina Godwin, Asst. Public Works Director	12/8/09 and 12/10/09
Raymond Allen, City Manager	12/10/09
Elbert Whitley, Mayor	12/10/09
Teresa Bradford, NCDENR-SWS	11/18/09, 11/20/09, 12/8/09 and 12/10/09
Deb Aja, NCDENR-SWS	12/8/09
Mark Poindexter, NCDENR-SWS	12/10/09
Ed Mussler, NCDENR-SWS	12/10/09
John Murray, NCDENR-SWS	12/10/09

STATUS OF PERMIT:

A modification to the Permit to Operate the Phase 1 and 2 of the MSW Landfill was issued on June 12, 2009. The permit shall expire on June 12, 2014.

A modification to the Permit to Operate Fill Plan 1st through 4th years of the CDLF Unit was issued on November 1, 2005 and will be valid until January 1, 2007. Information as been submitted to the Solid Waste Section, Permitting Branch, and is under review.

PURPOSE OF AUDIT:

Partial Audits

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NOTICE OF VIOLATION(S):

15A North Carolina Administrative Code 13B .1626(8)(d) states: Leachate shall be contained on site or properly treated prior to discharge.

The City of Albemarle Landfill is in violation of 15A NCAC 13B .1626(8)(d) in that on November 18, 2009, leachate was observed leaving the landfill liner system on the southern side slope of Phase 1 of the MSLWF. The leachate from the outbreak breached the soil berm located at the edge-of-liner markers and flowed across the access road (see pictures below). On November 20, 2009, a follow-up inspection was conducted. All leachate outbreaks previously observed on November 18, 2009 had been repaired.

On December 10, 2009, leachate was observed leaving the landfill liner system on the southwest side slope of Phase 1 of the MSWLF. The leachate from the outbreak breached the soil berm located at the edge-of-liner markers and flowed onto the access road (see picture below).



11/18/09: View of leachate outbreak on the southern side slope of Phase 1 of the MSWLF. Note: Leachate flow breached soil berm and flowed onto access road.



11/18/09: View of access road. Note: Leachate flow past landfill liner system and flowing across access road.



11/20/09: View of leachate outbreak on the southwest side slope of Phase 1 of the MSWLF. Note: Leachate flow past liner system and flowing onto access road.

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In order to achieve compliance, the City of Albemarle Landfill must immediately:

1. Assure leachate is contained on site or properly treated prior to discharge;
2. Assess the impact of the leachate release outside of the liner system. Please contact Ervin Lane, Compliance Hydrogeologist with the SWS, at (919) 508-8516 or Ervin.Lane@ncdenr.gov regarding the assessment. Within 30 days of receipt of this audit report, submit the results of the assessment to Mr. Lane at:

NCDENR-Division of Waste Management
Solid Waste Section
410 Mail Service Center
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

3. Within 30 days of receipt of this audit report, submit a revised operations plan to include a contingency plan that details all procedures to be taken to prevent leachate releases in the future. Submit the revised plan to:

John Murray, Regional Engineer
NCDENR-Division of Waste Management
Solid Waste Section
610 East Center Avenue, Suite 301
Mooresville, North Carolina 28115

4. Additional measures may be required by the Division.

15A North Carolina Administrative Code 13B .1626(2)(a) states: Except as provided in (2)(b) of this Paragraph, the owner or operators of all MSWLF units must cover disposed solid waste with six inches of earthen material at the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter and scavenging.

15A North Carolina Administrative Code 13B .1626(8)(a) states: Surface water shall be diverted from the operational area.

15A North Carolina Administrative Code 13B .1626(8)(b) states: Surface water shall not be impounded over or in waste.

The City of Albemarle is in violation of 15A NCAC 13B .1626(2)(a), 15A NCAC 13B .1626(8)(a) and 15A NCAC 13B .1626(8)(b) in that on November 18, 2009, a significant amount of impounded water was observed in Phase 2 of the MSWLF. According to City of Albemarle Landfill personnel, the impounded water was caused by recent heavy rains. At the time of the inspection, the impounded water was being pumped out of Phase 2 and into a leachate cleanout for Phase 1. Landfill personnel also stated that the waste in Phase 2 had been left uncovered for approximately one and a half weeks at the time of the inspection on November 18, 2009 due to the impounded water.



11/18/09: View of impounded water in Phase 2 of the MSWLF.



11/18/09: View of uncovered waste in Phase 2 of the MSWLF.

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In order to achieve compliance, the City of Albemarle Landfill must:

1. Continue to remove all impounded water in Phase 2;
2. Cover all exposed waste in Phase 2;
3. Identify cause of impounded water and prevent any future occurrences; and
4. Additional measures may be required by the Division.

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:

None

AREAS OF CONCERN AND COMMENTS:

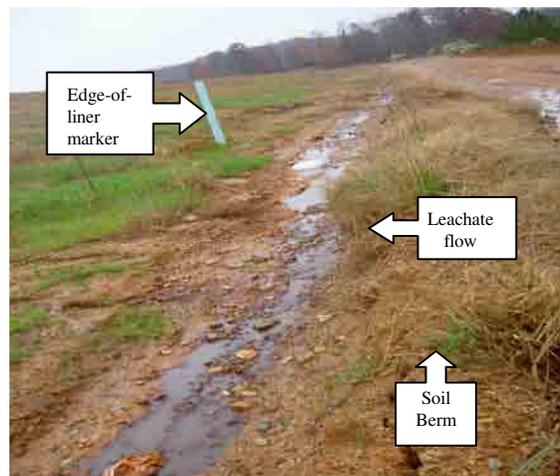
1. The facility consists of a MSWLF, yardwaste area, white goods area, scrap tire collection, battery collection and a drop-off area for residential waste.
2. The service area for the facility is Stanly County.

Municipal Solid Waste Landfill:

3. At the time of the inspection, the facility was disposing of waste in Phase 1 of the MSWLF.
4. The facility currently receives approximately 160-180 tons of waste per operating day.
5. The facility is currently using WWTP sludge as a soil amendment on the side slopes of the MSWLF.

November 18, 2009 Observations:

6. The working face well controlled
7. No unacceptable waste was observed.
8. Take measures to ensure that windblown litter is returned to the working area at the end of each operating day.
9. Several leachate outbreaks were observed on Phase 1. Two leachate outbreaks were observed on the northeast side slope and were being repaired at the time of the inspection. One leachate outbreak was observed on the southwest side slope. Four leachate outbreaks were observed on the southern side slope. Of the four leachate outbreaks on the southern side slope, leachate from one outbreak breached the soil berm located at the edge-of-liner markers and flowed across the access road. The remaining leachate outbreaks on the southern side slope were observed flowing down the slope and into the drainage ditch created by the soil berm. It appeared that leachate that flowed along the soil berm located outside of the edge-of-liner markers was flowing off of the liner system (see picture below).



11/18/09: View of southern side slope of Phase 1 of the MSWLF. Note: Leachate flow past edge of liner markers.

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10. A significant amount of impounded water was observed in Phase 2. According to City of Albemarle Landfill personnel, the impounded water was caused by recent heavy rains. At the time of the inspection, the impounded water was being pumped into a Phase 1 cleanout. Landfill personnel also stated that the waste in Phase 2 had been left uncovered for approximately one and a half weeks at the time of the inspection due to the impounded water.
11. On 11/18/09, an e-mail was received from Darren Preslar with pictures attached of the leachate repairs conducted during and after the inspection.

November 20, 2009 Observations:

12. All of the leachate outbreaks previously noted on November 18, 2009 had been repaired. However, a new leachate outbreak on the southern side slope was observed. The facility had started repair of the outbreak during the inspection.



11/20/09: View of southern side slope of Phase 1 of the MSWLF looking west. Note: Leachate outbreaks have been repaired.



11/20/09: View of southwest side slope of Phase 1 of the MSWLF looking south. Note: Leachate outbreaks have been repaired.

December 8, 2009 Observations:

13. Follow-up visit with Ms. Bradford and Ms. Deb Aja, Western District Supervisor.
14. According to Darren Preslar, additional leachate outbreaks on Phase 1 have been repaired. Mr. Preslar also stated that Landfill personnel have continued to push the dirt berm closer to the edge of liner markers in an effort to keep any leachate from leaving the liner system. A new leachate outbreak was observed on the southern side slope of the MSWLF.
15. The City of Albemarle agreed to submit a survey conducted by Municipal Engineering Services Co., Inc. indicating the location of the edge of liner in relation to the edge of liner markers.
16. The Facility had discontinued pumping the impounded water from Phase 2 into the Phase 1 cleanout and started to pump the water into a Phase 2 cleanout. During the inspection, the pumping was suspended due to the possibility of backflow into a stormwater area.
17. The majority of the waste in Phase 2 was observed covered with blue tarps.
18. The City of Albemarle agreed to submit a chronology of events and any remedial actions taken to date.

December 10, 2009 Observations:

19. Site visit with Ms. Bradford, Mark Poindexter, Field Operations Branch Head, Ed Mussler, Permitting Branch Head, John Murray, Permitting Engineer, with City of Albemarle Personnel.
20. Approximately 12 leachate outbreaks were observed on the south and southwest side slope of Phase 1. The City was made aware of the multiple outbreaks and particularly an outbreak on the southwest side slope that had breached the soil berm and left the landfill liner system.
21. Pounded water was observed on top Phase 1. Measures need to be taken immediately to repair these areas.
22. Ms. Bradford received a copy of the chronology of events and remedial actions taken for Phase 1 and 2 by the City of Albemarle.

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23. The City of Albemarle agreed to investigate the sump area in Phase 1 and have leachate lines in Phase 1 and 2 inspected with a camera and jet cleaned.

Construction and Demolition Landfill:

- 24. Observed operations of the CDLF on November 18, 2009.
- 25. The facility currently receives approximately 50-60 tons of waste per operating day.
- 26. The working face was small and compact.
- 27. No unacceptable waste was observed.
- 28. The facility is currently using WWTP sludge as a soil amendment on side slopes of the CDLF.
- 29. Take measures to ensure that all waste is covered with six inches of soil cover when the waste disposal area exceeds one-half acre and at least once weekly.
- 30. An updated operations plan for the shingle recycling needs to be submitted to John Murray, Regional Engineer, within **30 days** of receipt of this audit report. As discussed during the December 10, 2009 meeting, please contact Ed Mussler, Permitting Branch Head, for specific operational issues.

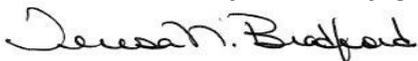
Miscellaneous Treatment and Processing Areas:

- 31. The white goods and metal area was well managed.
- 32. Freon is removed from the white goods by a facility employee.
- 33. The scrap tire area was well managed. All scrap tires are placed in an enclosed trailer.

Records Review:

- 34. The certified operators are as follows:
 - Nina Underwood – Manager of Landfill Operations Certification expires January 3, 2011.
 - Butch Huneycutt – Certified Landfill Technical Associate expires June 15, 2010.
 - Darren Pressler – Certified Landfill Technical Associate expires June 15, 2010.
 - Martha Pruitt – Landfill Operations Specialist expires October 28, 2011.
 - Jan Borgmann – Landfill Operations Specialist expires February 8, 2011.
 - Lane Taylor – Landfill Operations Specialist expires August 21, 2012.
 - Chad House – Landfill Operations Specialist expires August 21, 2012.
 - Benjamin Smith – Landfill Operations Specialist expires August 21, 2012.
 - Brian Mauldin – Landfill Operations Specialist expires August 21, 2012.
 - James Randall – Landfill Operations Specialist expires August 21, 2012.
 - Joel Gudger – Landfill Operations Specialist expires September 30, 2012.
 - David Capel – Landfill Operations Specialist expires September 30, 2012.
 - Chris McCauley – Landfill Operations Specialist expires September 30, 2012.
 - Joel Thompson – Landfill Operations Specialist expires September 30, 2012.

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



Phone: (704) 235-2160

Teresa N. Bradford
 Environmental Senior Specialist
Regional Representative

Delivered on : <u>12/29/09</u> by		Electronic Correspondence	US Mail	X	To: <u>Raymond Allen, City Manager</u> via Certified No. <u>7008 1140 0002</u> <u>2715 7148</u>
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- cc: Mark Poindexter, Field Operations Branch Supervisor
- Deb Aja, Western District Supervisor
- Donald Herndon, Compliance Officer
- Mike Lambert, Public Works Director