



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	COUNTY: Gaston PERMIT NO.: 36-02 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods		Incineration		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Audit: January 22, 2015

Date of Last Audit: March 28, 2012

FACILITY NAME AND ADDRESS:

Gaston County-Biggerstaff Landfill
 Abel Road
 Bessemer City, NC 28016

GPS COORDINATES: N: 35.33548° E: -81.29084°

FACILITY CONTACT NAME AND PHONE NUMBER:

Ray Maxwell, Gaston Co. Public Works Director
 (704) 922-0267
rmaxwell@co.gaston.nc.us
 Marcie Smith - Solid Waste & Recycling Administrator
 (704) 922-0267
marcie.smith@co.gaston.nc.us

FACILITY CONTACT ADDRESS:

P.O. Box 1578
 Gastonia, NC 28053-1578

PARTICIPANTS:

Bill Wagner, NCDENR-Solid Waste Section
 Marcie Smith – Gaston County
 Barry Cloninger – Gaston County

STATUS OF PERMIT:

In-active.
 Site closed in accordance with 15A NCAC .0505 on November 28, 1995

PURPOSE OF SITE VISIT:

Comprehensive Inspection

STATUS OF PAST NOTED VIOLATIONS:

1. **15A NCAC 13B .1626(4) (b)** which states in part “Owners or operators of all MSWLF units must implement a routine methane monitoring program.”; and the rule goes on to state “The minimum frequency of monitoring shall be quarterly.”
This violation has been corrected.

1. **15A NCAC 13B .0505(5)(b)** states that “Surface water shall not be impounded over or in waste.”
This violation has been corrected.

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OBSERVED VIOLATIONS:

NONE

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be 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 Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may also 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.

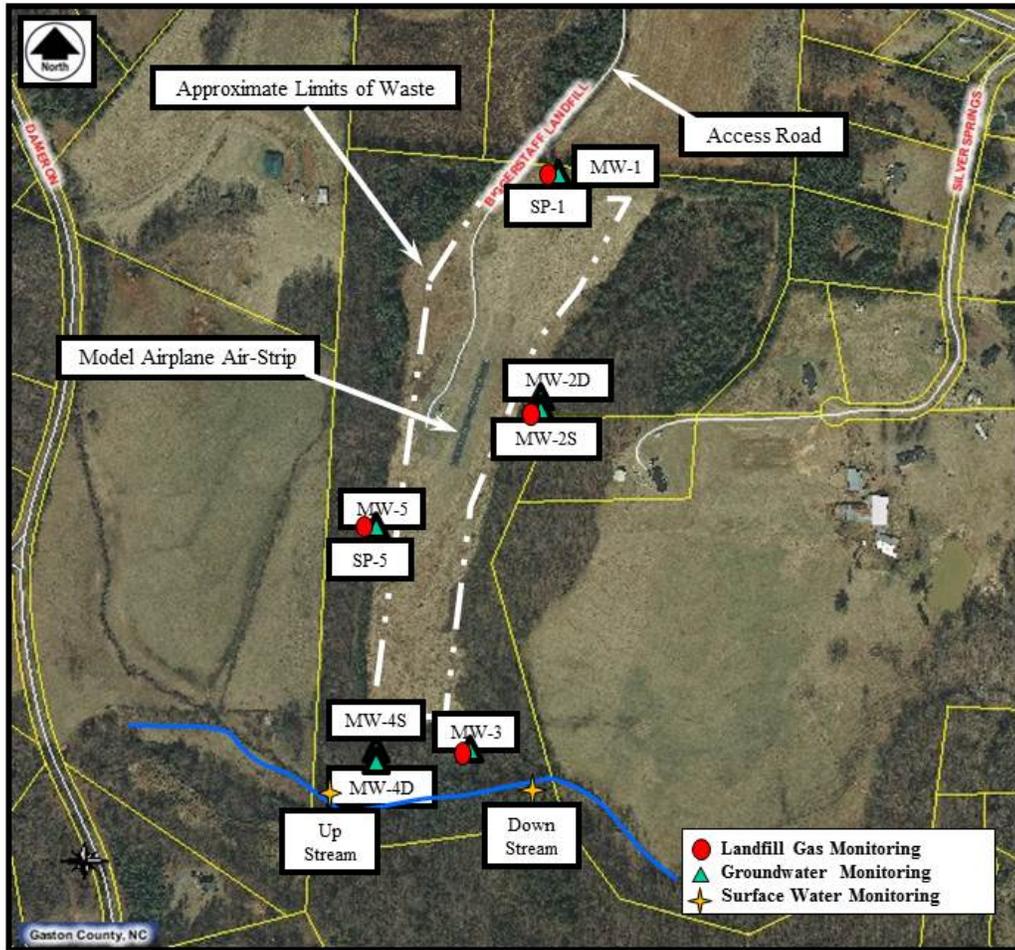


Figure 1: Biggerstaff Landfill - Closed MSW (Gaston Co. GIS Aerial) with Monitoring Locations.

SITE HISTORY and BACKGROUND:

MSWLF Facility Permit No. 36-02	Issuance Date	Document ID No.
Landfill Operations Begun	September 1967	N/A
Original Permit to Operate Issued	January 30, 1981	N/A
Landfill Stops Receiving Waste	1987	N/A
Landfill Closed – Closure Letter Issued i.a.w. 15A NCAC 13B .0510 from the Division to Gaston County	December 11, 1991	N/A
Second Closure Letter – Issued i.a.w. 15A NCAC 13B .0510 from the Division to Gaston County	July 24, 1996	N/A

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Letter from Warren Shindle (Gaston Co. Engineer) to the Division Requesting Closure to be Effective as of November 28, 1995 (to coincide with the first groundwater monitoring event).	August 6, 1996	N/A
Letter from the Division to Warren Shindle Approving the Effective Closure Date to be November 28, 1995.	August 27, 1996	N/A

AREAS OF CONCERN AND COMMENTS:

1. The entrance to the facility is secured with a lockable to prevent unauthorized entry. (Photo #1)
2. Edge-of-waste markers were in place. (Figure #1 and Photo #4)
3. An asphalt runway measuring 30' x 400' has been constructed on the landfill for use of model airplanes. Two open-air structures have also been constructed for use as a picnic area and operations of the runway along with a gravel parking area. This activity was approved in an April 6, 2011 letter (DIN 13539) from the Division to Ray Maxwell – Gaston County Public Works Director.
4. The access road to the landfill was well maintained and in good condition at the time of the inspection
5. There are seven groundwater monitoring wells in the approved water quality monitoring plan. (Table 1).

Well ID	Latitude (N)	Longitude (E)
MW-1	35.33792°	-81.28950°
MW-2	35.33551°	-81.28938°
MW-2D	35.33550°	-81.28938°
MW-3	35.33221°	-81.28983°
MW-4	35.33222°	-81.29110°
MW-4D	35.33220°	-81.29109°
MW-5	35.33417°	-81.29153°

Table 1: Locational data for Groundwater Monitoring Wells

6. A random inspection of the groundwater monitoring well found the wells to be properly secured with padlocks and marked with unique identifies. (Photo #2)
7. There are two surface water sampling locations, identified as “upstream” & “downstream”. (Figure 1)
8. Analysis of the two surface water samples collected on December 12, 2014 did not indicate the presence of quantifiable target constituents above the *NC Surface Water Wetland Standard* (15A NCAC 02B) or above the *EPA National Criteria* standards (utilized by the NC Division of Water Quality as the default standards for non-listed parameter).



1. Gate at the landfill entrance.



2. Groundwater monitoring well (typical) MW-5.

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3. Looking (S) down the access road. The model airplane air strip is in the center back ground.



4. PVC edge-of-waste marker (typical) on the western side of the landfill.

9. Results of the most recent analysis of water quality samples that were collected on December 12, 2014 were reviewed. All of these samples were analyzed for the presence of *Appendix I Volatile Organic Compounds (VOCs)* and for eight RCRA metals.
10. Groundwater samples collected from MW-1, 2, 4, 4D and 5 indicated target constituents above the *North Carolina Groundwater Protection Standards (NCGPS)*
11. The head-space of wells of MW-1, 2, 3, and 5 along with wells SP-1 and SP-2 are sampled on a quarterly basis for the possible presence of landfill gas.
12. A *LANDTEC Gem™ 2000 Portable Landfill Gas Analyzer* was most recently used by landfill staff to monitor for the presence of landfill gas on September 2, 2014. No exceedances of the landfill gas standard (5% methane by volume at the property boundary) were detected.
13. A good vegetative cover is established on the landfill. There were no instances of trees or other woody vegetation on the cap.
14. No ponding of water on the landfill was observed.
15. No excessive erosion of the landfill cap was observed.
- 16.

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

Phone: (828) 296-4705

 Bill Wagner
 Environmental Senior Specialist
Regional Representative

Sent on: 1/27/15 to: Earl Mathers – Gaston Co. Manager, P.O. Box 1578, Gastonia, NC 28053		Email		Hand delivery	X	US Mail		Certified No.
Sent on: 1/27/15 to: Ray Maxwell, Gaston Co. Public Works Director		Email		Hand delivery	X	US Mail		Certified No.

ec: Deb Aja, Western District Supervisor – Solid Waste Section
 Sarah Rice, Compliance Officer – Solid Waste Section
 Marcie Smith, Solid Waste & Recycling Administrator – Gaston County

c: Earl Mathers, Gaston Co. Manager