



**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

<b>UNIT TYPE:</b>											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	<b>COUNTY:</b> Halifax <b>PERMIT NO.:</b> 4204-INDUS-1994 <b>FILE TYPE:</b> COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill	<input checked="" type="checkbox"/>	DEMO		SDTF	

**Date of Site Inspection:** August 10, 2015      **Date of Last Inspection:** April 24, 2014

**FACILITY NAME AND ADDRESS:**

Halifax Coal Ash Landfill  
 921 Liles Road  
 Halifax, NC 27839

**GPS COORDINATES:** N: 36.38029 W: -77.81138

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Ed Stanfield, Tel- 252-586-7516, [solidwaste@schoollink.net](mailto:solidwaste@schoollink.net)

Greg Griffin, Tel- 252-583-1451, [griffing@halifaxnc.com](mailto:griffing@halifaxnc.com)

**FACILITY CONTACT ADDRESS:**

Halifax County Industrial Coal Ash Landfill  
 PO Box 70  
 Halifax, NC 27839

**PARTICIPANTS:**

Ed Stanfield, Halifax County, Landfill Supervisor  
 Greg Griffin, Halifax County, Director of Public Utilities  
 Shawn McKee – NCDENR, Solid Waste Section  
 Mary Whaley – NCDENR, Solid Waste Section  
 Larry Frost – NCDENR, Solid Waste Section  
 Elizabeth Werner – NCDENR, Solid Waste Section  
 Shannon Aufman – NCDENR, Solid Waste Section

**STATUS OF PERMIT:**

Active. Permit 4204-INDUS-1994 was issued on March 27, 2012 and will expire on March 27, 2017.

**PURPOSE OF SITE VISIT:**

Comprehensive Inspection

**STATUS OF PAST NOTED VIOLATIONS:**

None

# FACILITY COMPLIANCE INSPECTION REPORT

## Division of Waste Management Solid Waste Section

Page 2 of 2

### **OBSERVED VIOLATIONS**

**15A NCAC 13B .0505 (3)(b)** *Areas which will not have additional wastes placed on them for 12 months or more, but where final termination of disposal operations has not occurred, shall be covered with a minimum of one foot of intermediate cover*

The facility is in violation of the above rule in that it failed to place intermediate cover on areas that have not had additional ash placed during the last 12 months.

**Within 60 days of receipt of this inspection report, any areas which will not have additional wastes placed on them for 12 months or more, must be covered with one foot of intermediate cover.**

**15A NCAC 13B .0203(d)** *states “By receiving solid waste at a permitted facility, the permittee(s) shall be considered to have accepted the conditions of the permit and shall comply with the conditions of the permit.”*

**Ops Plan 2.5.6.2** *states “unless suitable vegetation can be established on the surface of the ash a 12-inch layer of soil cover should be placed over the ash on all outer side slopes. This intermediate cover should be seeded immediately and graded such that all precipitation run-off is channeled to the surface water systems.”*

The facility is in violation of the above rule in that it failed to prevent the erosion of the side slopes by not providing soil cover and/or permanent vegetation as noted in Ops Plan 2.5.6.2.

**Within 60 days of receipt of this inspection report, side slopes should be regraded to prevent erosion, covered with soil sufficient to establish vegetation, and seeded and mulched. Additionally, ash should be removed from ditches and sediment basins to restore them to their designed capacity.**

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.

### **ADDITIONAL COMMENTS**

1. The coal ash landfill is one of several units located at the facility owned by Halifax County. The other units include a construction and demolition landfill, a municipal solid waste (MSW) transfer station, and a closed unlined MSW landfill.
2. The Permit to Operate shall expire March 27, 2017. Pursuant to 15A NCAC 13B .0201(g), no later than November 27, 2016, the permittee must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
3. The coal ash landfill is permitted to receive only coal combustion by-products in accordance with the approved plan. Municipal solid waste, construction and demolition debris waste, land clearing and inert debris, hazardous waste, special waste, and liquid waste are prohibited from disposal in the coal ash landfill.

**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 3 of 3

4. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25. The following facility staff are Certified Landfill Operations Specialists:

Edgar Stanfield, expires June 13, 2016

Clifton Jones, expires May 9, 2016

Randy Pike, expires May 20, 2018

5. The landfill is permitted to receive waste only from the coal-fired power plant in Weldon, NC, which is currently owned by the Westmoreland Coal Company. The Westmoreland plant in Weldon is not currently running at full capacity, such that ash disposal needs are less, and vary by seasonal demand for electricity. The amount of coal ash being brought to the industrial landfill has fallen off significantly due to the cutback in operating time at the plant. A total of 41,569.55 tons of coal ash were accepted during FY14-15. Coal ash was accepted at the landfill during all months except October 2014.
6. Groundwater, surface water, basin effluent, and stream sediment locations are sampled semi-annually. The last sampling events occurred on August 14, 2014 and February 9, 2015. Results from these events were reviewed during the inspection. Sampling results were consistent with previous events; no concerns were noted.
7. An inspection of all monitoring points was conducted during the inspection. Observations and necessary corrections are noted below:

<b>4204-INDUS-1994</b>			
<b>Monitoring Well ID</b>	<b>Well Tag</b>	<b>Concrete Pad</b>	<b>Comments</b>
<b>Groundwater Monitoring Wells</b>			
MW-8	Yes	Yes	<b>has label, but not marked as MW-8 / needs correct identification</b>
MW-9	Yes	Yes	
MW-10	Yes	maybe	<b>outer metal casing cap broken, needs repair, verify concrete pad integrity</b>
MW-11	Yes	maybe	<b>verify concrete pad integrity</b>
MW-12	Yes	maybe	<b>outer metal casing cap broken, needs repair, verify concrete pad integrity</b>
MW-17	No	No	<b>needs permanent metal ID tag, concrete pad needs repair</b>
<b>Surface Water Locations</b>			
SW-3	NA	NA	<b>needs permanent signage marking consistent sample location and a readily accessible unobstructed path</b>
Basin 1	NA	NA	<b>needs permanent signage marking consistent sample location</b>
<b>Sediment Basin Sample Locations</b>			
SS-1	NA	NA	<b>needs permanent signage marking consistent sample location</b>
SS-2	NA	NA	<b>needs permanent signage marking consistent sample location</b>

8. No unpermitted waste was observed in the landfill during the inspection.

**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 4 of 4

9. Ash is currently being placed in Cells 1 and 2.
10. Spreading and compaction of the ash is performed with a D6 bulldozer.
11. Edge-of-waste markers were in place and being maintained.
12. Dust control is done using a water truck which is kept onsite. During periods without significant precipitation, facility staff should be extra diligent in monitoring and addressing dusting on and around the working face.
13. Significant erosion was observed on side slopes such that coal ash has washed into perimeter ditches and has washed into the sediment basin. Ash was observed at the inlet to the sediment basin. **Within 60 days of receipt of this inspection report, side slopes should be regraded to prevent erosion, covered with soil sufficient to establish vegetation, and seeded and mulched. Additionally, ash should be removed from ditches and sediment basins to restore them to their designed capacity.**



Toe of the northern slope; ash in perimeter ditch



Erosion on western slope



Inlet to sediment basin with visible ash.



Top of reworked slope with erosion at bottom.

**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

Page 5 of 5

14. As a reminder, per Permit to Operate, Condition # 59 “Ash which has been placed to final elevations around the perimeter of the facility must be covered with a minimum of 12 inches of soil. Final cover and seeding must be implemented within 30 days of an area reaching final grade.” Additionally, per 15A NCAC 13B .0505(3)(c) “After final termination of disposal operations at the site or a major part thereof, or upon revocation of a permit, the area shall be covered with at least two feet of suitable compacted earth.”

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



Phone: 919-707-8284

Environmental Senior Specialist  
***Regional Representative***

<b>Sent on:</b> September 4, 2015		Email: X		Hand delivery		US Mail		Certified No. [ ]
--------------------------------------	--	-------------	--	---------------	--	---------	--	-------------------

Copies:

- Ellen Lorscheider, Section Chief, Solid Waste Section
- Ed Mussler, Permitting Branch Head, Solid Waste Section
- Jason Watkins, Field Operations Branch Head, Solid Waste Section
- Dennis Shackelford, Eastern District Supervisor, Solid Waste Section
- Elizabeth Werner, Permitting Hydrogeologist, Solid Waste Section
- Larry Frost, Engineering Project Manager, Solid Waste Section
- Shannon Aufman, Permitting Engineer, Solid Waste Section
- Jessica Montie, Compliance Officer, Solid Waste Section