



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

Table with columns for Unit Type (Lined MSWLF, Closed MSWLF, CDLF) and checkboxes for various waste types (LCID, YW, Transfer, Compost, SLAS, HHW, White goods, Incin, T&P, FIRM, Tire T&P/Collection, Tire Monofill, Industrial Landfill, DEMO, SDTF). Includes County: Davidson, Permit No.: 2906, File Type: COMPLIANCE.

Date of Site Inspection: 08/17/2016 Date of Last Inspection: 08/04/2016

FACILITY NAME AND ADDRESS:

Davidson County Integrated Solid Waste Management Facility
220 Davidson County Landfill Road
Lexington, NC 27292

GPS COORDINATES: N: 35.850925° W: 80.178865°

FACILITY CONTACT NAME AND PHONE NUMBER:

Name: Rex Buck, Public Services Director
Telephone: 336-242-2008
Email address: rex.buck@davidsoncountync.gov

FACILITY CONTACT ADDRESS:

P. O. Box 1067
Lexington, NC 27293-1067

PARTICIPANTS:

Steven Sink, Landfill Supervisor – Davidson County
Susan Heim, Environmental Senior Specialist, Solid Waste Section

STATUS OF PERMIT:

2906-MSWLF-1994: Closed
2906-MSWLF-2008: Issued 7/14/2014; Expires 5/28/18
2906-CDLF: Issued 5/28/2013; Expires 7/18/2018
2906-HHW: Issued 7/14/2014; Expires 5/28/2018

PURPOSE OF SITE VISIT:

Partial Inspection

STATUS OF PAST NOTED VIOLATIONS:

- 1. RESOLVED: 15A NCAC 13B .0542(l)(4) cited for failure to capture leachate or to treat it prior to discharge. Some additional cover had been placed on the top and on the side slopes to prevent leachate releases in the future. A berm had been placed along the toe of the landfill to catch any future leachate being emitted from the landfill. Please continue to monitor the facility for any signs of leachate outbreaks or seeps.
2. CORRECTIVE MEASURES IN PROGRESS: 15A NCAC 13B .0542(f)(1) cited for failure to apply adequate cover to waste at the C&D landfill. The northern and eastern slopes appeared to have sufficient cover over the waste at the time of this inspection. However, some areas on the top and southern side slope still had noticeable ruts and spotty areas where waste was visible. A heavy rain event again washed away much of the cover soil and caused more ruts and an uneven slope to result. Trucks were observed delivering soil to the top of the C&D landfill during this inspection,

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3. **CORRECTIVE MEASURES IN PROGRESS:** 15A NCAC 13B .1626(2)(a) cited for failure to adequately cover waste at the MSW landfill. Mr. Sink stated that the heavy rainstorms had subsided for the most part, and that the soil was beginning to be workable. Progress was observed in the process of recovering and regrading the slope on the northwest side of the active cell, and repairs to that area appeared to be well underway. Spotty areas of uncovered waste were observed at various areas on the landfill slopes and on the top, where the working face is tiny and maneuvering is very tight due to the small amount of airspace remaining in the active cell. Ensure that all exposed waste is covered immediately.
4. **CORRECTIVE MEASURES IN PROGRESS:** 15A NCAC 13B. 1626(7)(a) cited for failure to prevent silt from leaving the MSWLF facility. On the date of this inspection, no silt was observed leaving the landfill. Slope repairs and regrading were observed to be underway on the northwest slope of the active cell. Mr. Sink stated that additional cover and regrading would continue and the northern slope that faces the new cell would be addressed next. Some of the previous attempt at seeding had resulted in scattered areas of new vegetation, however, Mr. Sink noted that overall reseeding would occur as quickly as repairs could be completed. Compliance will be achieved once vegetative cover is established on the slope facing the new cell construction.
5. **CORRECTIVE MEASURES IN PROGRESS:** 15A NCAC 13B. 1626(7)(b) cited for failure to prevent on-site erosion. Progress was observed in providing additional cover and regrading some of the eroded areas of the slopes of Phase 2 of the MSW landfill. Significant work is still needed on the northern slope that faces the new cells. Mr. Sink stated that slope repairs and regrading will be completed as quickly as possible so that reseeding can be scheduled.
6. **CORRECTIVE MEASURES IN PROGRESS:** 15A NCAC 13B. 1626(7)(c) cited for failure to provide for a vegetative cover sufficient to restrain erosion within 30 working days or 120 calendar days of completion of any phase of MSWLF development. Thus far, efforts at establishing a stable vegetative cover have not been effective. Temporary measures to contain runoff were observed to be in place in areas of the active MSF landfill, and additional soil had been added to the active portion of the northwest side slope, and regrading was underway. However, most of the sparse vegetative cover that had existed prior to recent heavy rain events is no longer in place. Mr. Sink advised that reseeding would take place again as quickly as slope repairs could be completed.

**SUMMARY OF VIOLATIONS AND CORRECTIVE MEASURES:**

The previously observed violations addressed in numbers 2 through 6 above can be summarized as relating to adequate coverage of waste and erosion and sedimentation control. Although corrective measures were undertaken immediately after the initial inspection on June 2, 2016, a series of heavy rain events washed away the additional cover that had been added to the side slopes, created large ruts and gullies and virtually eliminated all traces of seeding that had been done on at least three occasions. Because work was observed to have been undertaken and, in some cases, completed, the compliance deadline, originally set at August 1, 2016, will be extended to September 30, 2016. At that time, compliance must be demonstrated through established vegetative cover on the slopes of the active MSW landfill and the C&D landfill.

**OBSERVED VIOLATIONS:**

No additional violations were observed during this inspection.

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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. Additional soil had been added to the top and side slopes of the C&D landfill. The cover soil appeared to be very rocky, making it difficult to ensure even coverage and grading.
2. Mr. Sink stated that cover and grading work will continue until the required final grades are established at the C&D landfill. He added that he is working with Pieter Sheer, Smith-Gardner, to ensure that the landfill is being properly prepared for the closing process.
3. Some erosion was still evident at the toe of the C&D landfill, but temporary berms had been created to contain the silt and runoff (see photo below).
4. The working face of the MSW landfill was very compact and level and had been configured to match the final grades of the active cell. Mr. Sink estimated that there were less than five days of capacity remaining. Areas of uncovered waste were observed on the side slopes and in the area of the working face, and buzzards were seen scavenging. Ensure that all exposed waste is covered at the end of each working day.
5. The results of the concerted efforts made to collect and remove windblown litter throughout the facility were observed to have been effective. Some mowing had occurred in the areas surrounding the scale house. Only a small amount of windblown trash was observed during this inspection, which occurred at approximately 10:00 am. Ensure that windblown trash is collected throughout the facility at the end of each working day.
6. Electronics waste was observed to be palletized and stored under cover or inside the unused transfer station building. Unsorted/unprocessed electronics were stored inside the cardboard collection building. Mr. Sink stated that approximately 6 trailer loads of electronics waste had been prepared for transport. He added that a relationship had been re-established with Power House for electronics recycling, and he hoped to have these loads shipped out in the near future.
7. In the white goods collection area, units containing CFCs were observed to be separated from non-CFC containing units and properly stored upright awaiting evacuation. Mr. Sink stated that he was reviewing proposals from certified contractors for CFC evacuation. He explained that non-CFC units are regularly processed through the compactor by staff and transported to Pugh Auto Crushing and Recycling for recycling.
8. A considerable amount of latex paint was observed to be remaining in the HHW collection area. Mr. Sink stated that the contractor had poured up several pallets of latex paint since the last inspection, and that he was working to ensure that the material was processed and removed on a regular basis in order to avoid a large stockpile being stored onsite in the future.
9. A Permit to Operate the newly constructed cell (Phase 2, Area 2, Cell 2) was issued on August 18, 2016, post-inspection, alleviating concerns about the lack of remaining capacity in the current cell (Phase, 2, Area 2, Cell 1). On August 19, Mr. Sink advised me in a telephone conversation that he intended to begin diverting household trash to the new cell immediately.

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*Toe of C&D landfill with silt ponded at temporary berm. Note uneven grade with some uncovered waste resulting from the rocky cover soil.*



*Repairs being made along the south slope of the active MSW landfill in the area of the working face.*



*Compact working face with only a few days of airspace remaining in active cell.*



*Erosion from heavy rain events on north slope of active MSW landfill.*



*Erosion evident, some uncovered waste, repairs underway on north slope of active MSW landfill.*



*Eroded areas and repaired areas along northern slope with new cell in the background.*

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

Phone: 336-776-9672

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Susan Heim  
Environmental Senior Specialist  
*Regional Representative*

Sent on: <b>August 22, 2016 to Rex Buck.</b>	<b>X</b>	Email		Hand delivery		US Mail		
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Copies: Jason Watkins, Field Operations Branch Head – Solid Waste Section  
Deb Aja, Western District Supervisor – Solid Waste Section  
Jessica Montie, Compliance Officer – Solid Waste Section  
Zeb Hanner, County Manager – Davidson County  
Steven Sink, Landfill Supervisor – Davidson County  
Angela Jones, Solid Waste Administrative Assistance – Davidson County