



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost	<input checked="" type="checkbox"/>	SLAS	COUNTY: Durham PERMIT NO.: 32-04 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Site Inspection: December 4, 2014

Date of Last Inspection: March 10, 2014

FACILITY NAME AND ADDRESS:

City of Durham Large Type 1 Solid Waste Compost Facility
 2115 East Club Boulevard
 Durham, NC 27704

GPS COORDINATES: N: 36.03767 E: -78.85255

FACILITY CONTACT NAME AND PHONE NUMBER:

Bruce Woody, City of Durham Solid Waste Management- Disposal Manager
 w. 919-560-4186 x32228
 f. 919-560-1197
 c. 919-452-5919
bruce.woody@durhamnc.gov

FACILITY CONTACT ADDRESS:

City of Durham Solid Waste Management
 Bruce Woody, Disposal Manager
 1833 Camden Avenue
 Durham, NC 27704

PARTICIPANTS

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)
 Bruce Woody, City of Durham Solid Waste Management - Disposal Manager

STATUS OF PERMIT:

Permit To Operate (PTO) issued June 30, 2014
 PTO expiration date June 9, 2015

PURPOSE OF SITE VISIT:

Comprehensive Inspection

STATUS OF PAST NOTED VIOLATIONS

None

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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.

ADDITIONAL COMMENTS

On December 4, 2014, John Patrone met with Bruce Woody to conduct a comprehensive inspection of the City of Durham Large Type 1 Solid Waste Compost Facility located on East Club Boulevard in Durham, Durham County.

1. The facility is a Large Type 1 Solid Waste Compost (SWC) Facility. It grinds yard waste and produces mulch from untreated and unpainted wood and wooden pallets.
2. The facility is in operation Monday through Friday 7:30 am to 4:30 pm and on Saturday 7:30 am to noon.
3. The facility permit, operations plan, and site plan were discussed.
4. The area allotted for facility operation is 11.02 acres.
5. The facility is located adjacent to the City of Durham Closed Municipal Solid Waste (MSW) Landfill, No. 32-01, access via gravel service road.
6. City of Durham vehicles haul material on site. Residents off-load material at a designated area adjacent to the City of Durham Transfer Facility (32-12), located at the entrance to the gravel service road. Material from the resident drop-off is placed into open top containers by facility personnel.
7. The facility contracts with King Management NC LLC to have material ground. The contractor maintains a grinder on site, unless needed elsewhere.
8. All material brought to the facility is weighed on the vehicle scale at the City of Durham Transfer Facility.
9. The facility does not compost material. The ground yard waste is hauled to Novozymes North America, Inc. Large Type 3 SWC Facility (35-04) to complete the compost process.
10. The mulch produced from untreated and unpainted wood and wooden pallets is hauled to the South Boston Energy Project (in VA).
11. The facility is composed of five functional areas: receiving, mulching, windrow (used for temporary storage of ground yard waste), curing/storage (not used), and stormwater retention (pond).
12. If material is composted on site the facility is required to adhere to the composting process as outlined in the permit and operations plan. When the permit is renewed ensure that the current facility operational process is also incorporated into the operations plan.
13. Yard waste is typically ground once or twice a week and hauled-off site weekly.
14. Untreated and unpainted wood and wooden pallets are ground monthly or as needed and hauled-off site.
15. The facility conducts temperature readings on the ground yard waste to ensure that the temperature is maintained below 160° F prior to it being hauled-off site. Monthly temperature records were verified for July 2014 through October 2014.
16. Mr. Woody stated that moisture readings are commonly conducted but the meter is broken. He stated that the facility will obtain a new moister meter by 2015.
17. The facility maintains records of the amount and type of material received and hauled-off. The amount of material received from July 2014 through November 2014 is 5,255.03 tons and the amount hauled-off during the same time period is 5,029.03 tons.
18. The facility annual report (FAR) received by the SWS is dated July 24, 2014. Facility throughput for July 2013 through June 2014 is 15,603.06 tons. The amount of ground yard waste produced is 15,487.05 tons and the amount of mulch created is 116.01 tons.
19. The facility has a stormwater retention pond designed to capture runoff from the site (sized to capture 100 year peak discharge and store 100 year - 24 hour storm event).

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20. The facility is required to remove accumulated sediment in the stormwater retention pond to maintain design storage volume.
21. The facility shall maintain the integrity of the pond liner at the level of the pond freeboard and below.
22. The stormwater retention pond maximum reading on the monitoring gauge is 302.3 feet (above sea level).
23. During the inspection the stormwater retention pond reading on the monitoring gauge was at 301.2 feet.
24. The stormwater retention pond is piped (siphon controlled, manually operated) to the North Durham Water Reclamation Facility. The amount of stormwater siphoned is measured by a flow meter.
25. The facility has a Local Discharge Permit, Industrial Pretreatment Program Permit #4002, expiration: 12/31/15.
26. The facility conducts a stormwater retention pond inspection twice daily: 8 am and 3 pm.
27. Incoming yard waste windrow/pile dimension maximum is: 12 feet high by 25 feet wide. Active composting (ground material) windrow/pile dimension maximum is: 7 feet high by 14 feet wide. Product storage (mulch) windrow/pile dimension maximum is: 10 feet high by 20 feet wide.
28. Incoming yard waste piles were near the maximum height. Ensure they do not exceed 12 feet high.
29. A 25 foot access shall be maintained between windrows/piles.
30. Ensure operational areas are graded such that water does not pond.
31. There was no indication of erosion or runoff.
32. The City of Durham Fire Department is able to respond to an emergency at the facility.
33. The facility is secured by a locked gate at the entrance to the access road.
34. Access roads are of all-weather construction.
35. The facility has proper signage.
36. The permit expiration date is June 9, 2015.
37. The permit renewal application should be submitted to the SWS by February 9, 2015.

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

Phone: 336-776-9673

John Patrone, Environmental Senior Specialist
 Division of Waste Management, NCDENR

Sent on: <u>December 11, 2014</u>	X	Email		Hand delivery		US Mail	Certified No. []
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Electronic Copies: Deb Aja, Western District Supervisor - SWS
 Sarah Rice, Compliance Officer - SWS
 Tony Gallagher, Supervisor - Composting & Land Application Branch - SWS
 Donna Wilson, Environmental Engineer - SWS
 Liz Patterson, Environmental Technician - Composting & Land Application Branch - SWS
 Donald Long, City of Durham - Solid Waste Director donald.long@durhamnc.gov
 Robert Williams, City of Durham – Assist. Director of Operations robert.williams@durhamnc.gov

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Digital pictures taken December 4, 2014
by John Patrone, DWM-SWS

Unground yard waste (woody material) pile



Unground leaf piles



Stormwater retention pond



Stormwater pond level monitoring gauge

