



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost	X	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: March 10, 2014

Date of Last Inspection: February 14, 2013

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- Acting Waste Disposal Manager
 w. 919-560-4186 x32228
 f. 919-560-1197
 c. 919-475-2489
bruce.woody@durhamnc.gov

FACILITY CONTACT ADDRESS:

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

PARTICIPANTS

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

STATUS OF PERMIT:

Permit To Operate (PTO) issued June 9, 2010
 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 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 March 10, 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 (for compost) and produces mulch from untreated and unpainted wood and wooden pallets.
2. The facility permit, operations plan, and site plan were discussed.
3. The area allotted for facility operation is 11.02 acres.
4. Material is received from Durham County.
5. The facility is in operation Monday through Friday 7:30 am to 4:30 pm and on Saturday 7:30 am to noon.
6. The facility is located adjacent to the City of Durham Closed Municipal Solid Waste (MSW) Landfill, No. 32-01, access via gravel service road.
7. 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.
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. The mulch produced from untreated and unpainted wood and wooden pallets is hauled to the South Boston Energy Project (in VA).
10. The facility is composed of five functional areas: receiving, grinding, windrow (not used), curing/storage (not used), and stormwater retention (pond).
11. If material is composted on site the facility is required to adhere to the permit and operations plan. When the permit is renewed/modified ensure that the facility operational process is incorporated into the operations plan (yard waste ground not composted on site).
12. The facility contracts to have material ground. The contractor maintains a wood grinder on site, unless needed elsewhere.
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 moisture and temperature readings once or twice a week on ground yard waste piles to ensure that the temperature is maintained below 160° F prior to it being hauled-off site. Monthly records of moisture and temperature readings were verified for July 2013 through February 2014. Ground yard waste piles are not turned prior to being hauled-off site unless required to reduce temperature.
16. The facility has a temperature probe and moisture meter. Ensure temperature probe and moisture meter calibration is documented.
17. The facility operational capacity is limited to 14,000 tons of feedstocks per year received for composting.
18. The facility maintains records of the amount and type of material received. The amount of material received from July 2013 through February 2014 is 9,127.92 tons of yard waste and 73.02 tons of untreated and unpainted wood and wooden pallets.
19. The facility annual report (FAR) received by the SWS is dated August 1, 2013. Facility throughput for July 2012 through June 2013 is 13,955.81 tons. The amount of ground yard waste produced is 13,789.07 tons. The amount of wood mulch created is 136 tons. When the facility permit is renewed/modified it is suggested that the operational capacity increase.

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20. 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).
21. The facility is required to remove accumulated sediment in the stormwater retention pond to maintain design storage volume.
22. The level of the stormwater retention pond is required to be maintained ≤ 302.28 (feet above sea level) on the monitoring gauge. During the inspection the stormwater retention pond monitoring gauge was at 300.
23. The stormwater retention pond is piped (siphon controlled, manually operated) to the North Durham Water Reclamation Facility (City of Durham letter, 03/16/11). The facility has an Industrial Wastewater Discharge Permit #4002, effective: 01/01/13, expiration: 12/31/15.
24. Some of the stormwater retention pond liner sidewall protective gravel layer has slid into the pond. It is suggested that it be removed from the retention pond and replaced/reapplied.
25. Mr. Woody stated that punctures in the stormwater retention pond were repaired in the summer of 2013. And that the repaired area is above the level at which stormwater is siphoned-off.
26. Provide SWS with a summary report of the repair work to the stormwater retention pond liner (SWS email, 09/28/11). Contact: Donna Wilson, Environmental Engineer, SWS – Permitting Branch at 919-707-8255.
27. Additionally, discuss with Ms. Wilson the fulfillment of the requirement (per the aforementioned, #25) regarding the April 25, 2011 City of Durham letter to SWS to inspect the pond twice daily, three times a week, maintain the water level accordingly, and install a deer/litter fence around the pond. Records were reviewed for pond inspections and water level for January and February 2014.
28. The deer/litter fence, surrounding the stormwater retention pond, is in poor condition. Ensure it is repaired accordingly per the City of Durham April 25, 2011 letter to SWS.
29. Mr. Woody stated that facility personnel conduct daily inspection of the site.
30. If subgrade rutting occurs the facility should back blade and level the area to ensure positive drainage.
31. There was no indication of erosion or runoff.
32. The facility shall maintain 25' fire lanes.
33. The City of Durham Fire Department will respond to an emergency at the facility.
34. The facility is secured by a locked gate at the entrance to the access road.
35. Access roads are of all-weather construction.
36. The facility has proper signage.
37. The permit expiration date is June 9, 2015.
38. Permit renewal application should be submitted to the SWS ~ February 9, 2015.

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



Phone: 336-771-5095 Fax: 336-771-4631

John Patrone
Environmental Senior Specialist
Regional Representative

Sent on: <u>March 24, 2014</u>	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	Certified No. <u> </u>
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Electronic copies: Jason Watkins, Western District Supervisor - SWS
Sarah Rice, Compliance Officer - SWS
Tony Gallagher, Supervisor - Composting & Land Application Branch (SWS)
Donna Wilson, Environmental Engineer
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

Digital pictures taken March 10, 2014
by John Patrone, DWM-SWS

Ground yard waste



Yard waste to be ground



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Deer fence in need of repair



Deer fence in need of repair and stormwater retention pond



Stormwater retention pond



Stormwater retention pond liner sidewall protective gravel layer missing; should be replaced/reapplied

