



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

| UNIT TYPE: | | | | | | | | | | | |
|-------------------|--|-----------------------|--|---------------|--|---------------------|--|---------|---|------|--|
| Lined MSWLF | | LCID | | YW | | Transfer | | Compost | X | SLAS | COUNTY: Watauga PERMIT NO.: 95-04 SWC 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 Audit: February 11, 2009

Date of Last Audit: June 14, 2007

FACILITY NAME AND ADDRESS:

Appalachian State University Small, Type III Solid Waste Compost Facility
 265 Dale Street
 Boone, NC 28608-2105

GPS COORDINATES: N: 36.21323 E: -81.65750

FACILITY CONTACT NAME AND PHONE NUMBER:

Jennifer B. Maxwell
 w: 828-262-3190 x. 108
 c: 828-406-4090

FACILITY CONTACT ADDRESS:

265 Dale Street
 Boone, NC 28608-2105

AUDIT PARTICIPANTS:

John Patrone, NCDENR – Solid Waste Section (SWS)
 Jennifer B. Maxwell, Resource Conservation Manager
 Stanley Carroll, Operations Manager

STATUS OF PERMIT:

Permit To Operate (PTO) issued July 20, 2006
 PTO expires on July 1, 2011.

PURPOSE OF AUDIT:

Comprehensive Audit

NOTICE OF VIOLATION(S):

None.

You are hereby 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 Statute or Regulations. For the violation(s) noted here, you 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.

FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

Page 2 of 3

STATUS OF PAST NOTED VIOLATIONS:

None.

AREAS OF CONCERN AND COMMENTS:

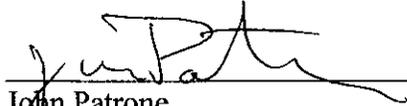
On February 11, 2009, John Patrone met with Jennifer Maxwell and Stanley Carroll and conducted a compliance audit of the Small, Type III Solid Waste Compost facility located on Dale Street (adjacent to the ASU Physical Plant) in Boone, Watauga County.

1. The facility site plan was reviewed and its operations plan verified.
2. The facility is a Small, Type III Solid Waste Compost Facility. It produces compost from fruit and vegetable waste and from coffee grounds, shredded paper, and (small amounts of) cooked meat generated by ASU Food Services. The facility primarily uses woodchips, provided by New River Light & Power (electric power company serving ASU), as a bulking agent but will also use some shredded pine bark.
3. The compost produced is used by ASU landscape services and the (ASU) Sustainable Development Teaching and Research Farm. Compost is not distributed to individuals or the general public.
4. Compost currently being used by ASU was composted ~ 2 years ago and is stored in a "finished" area down the road from the facility. Ms. Maxwell stated that there has been little demand by ASU for compost.
5. The facility's operation plan states that the static aerated compost method will be used. However, the facility is not currently operating the static aerated system. Material is being mixed (feedstock and bulking agent) and stockpiled on-site. Ms. Maxwell stated that the facility has not distributed compost (to ASU) in over a year.
6. The facility is mixing feedstock and bulking agent in one of three bins (cinder block bay, open at one-end) and moving material from bin to bin.
7. The size of the operation (material moved from bin to bin) has begun to outgrow the area allotted and is near the adjacent road. During the inspection it was noted that a small amount of runoff had filtered through wood mulch berms and into the road. Mr. Patrone stated that material must be contained within the bins and that a finely constructed berm must be put-in place at the open-end of each bin. It was suggested that a tarp be placed atop the bins.
8. Temperature records were verified for November and December 2008 and January 2009. The temperature records did not demonstrate that the facility obtained 131° F for 3 days or > 104° F for an additional 11 days, with an average temperature of > 113° F.
9. Testing records were verified for fecal coliform (Statesville Analytical), Heavy Metals (NCDA&CS – Agronomic Division, and manmade & inert material (ASU). Records were reviewed for July 2007 and January and July 2008.
10. Tonnage records for 2008 were reviewed. The facility received ~ 72 tons of food waste and ~ 13.5 tons of bulking agent.
11. Ms. Maxwell stated that the static aerated pile composting method has not been used because the front end loader continually hits the aeration system, requiring repairs.
12. Upon discussion with Mr. Patrone, Ms. Maxwell stated that the static aerated pile composting method will immediately be used. Mr. Patrone reminded her that the facility is required to document that it has maintained 131° F for at least 3 days and maintained > 104° F for an additional 11 days, with an average temperature of > 113° F.
13. The facility plans to conduct static aeration pile composting on the site and store bulking agent and feedstock in the bins. After the material has met the temperature requirements it will be brought down the road (~ 300 yards) to a curing and finished compost area, where the finished compost can be picked-up by ASU personnel.
14. The facility must redo its sign. The wording has faded and it is not located at the entrance to the facility. The sign must state the following: the type of wastes permitted to receive, hours of operation, and the facility permit number. Additionally, a sign must be posted that states that no hazardous waste, asbestos containing waste, or medical waste can be received.

FACILITY COMPLIANCE AUDIT REPORT
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Page 3 of 3

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


John Patrone
Environmental Senior Specialist
Regional Representative

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

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|--|--|---------------|-------------------------------------|---------|--|-------------------|
| Delivered on : <u>February 17, 2009</u> by | | Hand delivery | <input checked="" type="checkbox"/> | US Mail | | Certified No. [] |
|--|--|---------------|-------------------------------------|---------|--|-------------------|

cc: Mark Poindexter, Field Operations Branch Supervisor
Jason Watkins, Central Regional Supervisor
Donald Herndon, Compliance Officer
Michael Scott, Composting & Land Applications Branch Head