



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

**UNIT TYPE:**

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		<b>COUNTY: HENDERSON</b> <b>PERMIT NO.: SWCD-45-01</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM		
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO	<input checked="" type="checkbox"/>	SDTF		

**Date of Site Inspection:** 5/6/2013

**Date of Last Inspection:** 11/15/2012

**FACILITY NAME AND ADDRESS:**

Waste Stream Innovations (WSI)  
 4028 Haywood Road  
 Mills River, NC 28759

**GPS COORDINATES:** N: 35.374254 E: -82.544585

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Name: Andrew Huske  
 Telephone: (828) 273-7585  
 Email address: [huskeandrew@bellsouth.net](mailto:huskeandrew@bellsouth.net) ; [wastestreaminnovations@gmail.com](mailto:wastestreaminnovations@gmail.com)

**FACILITY CONTACT ADDRESS:**

290 Cashdon Drive  
 Mills River, NC 28759

**PARTICIPANTS:**

Andrea Keller – NCDENR Solid Waste Section  
 Andrew Huske – Facility Owner/Operator

**STATUS OF PERMIT:**

Active Demonstration Project – initiated April 23, 2010  
**Expired – April 23, 2012**

**PURPOSE OF SITE VISIT:**

Comprehensive site inspection and Closure Plan review

**STATUS OF PAST NOTED VIOLATIONS:** None

**OBSERVED VIOLATIONS:**

**15A NCAC 13B .0201 Permit Required (c)** No solid waste management facility shall be established, operated, maintained, constructed, expanded or modified without an appropriate and valid permit issued by the Division.

**15A NCAC 13B .1408 Testing and Reporting Requirements (a) (1)** A composite sample of the compost produced at each compost facility shall be analyzed at intervals of every 20,000 tons of compost produced or every six months, whichever comes first, for test parameters for each Type of facility as designated in Table 3 of this Rule.

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As of April 23, 2012 the facility has been operating with an expired Demonstration permit. The July 12, 2012 Inspection Report noted an Observed Violation (15A NCAC 13B .0201) and the facility was required to submit a formal plan for closure. The required plan was received on July 21, 2012 and listed actions as outlined in comment #2 below. Additionally, during the November 15, 2012 Inspection it was noted that the facility was due for a round of analytical, pathogen, and foreign matter testing.

During the May 6, 2013 site inspection the planned closure activities were not completed and no further plan for closure had been submitted by the facility per the request of the Section in the November 15, 2012 Inspection Report. Additionally, it was stated by Mr. Huske that no further testing had been conducted. **The facility must, by June 21, 2013, submit this plan in writing to Tony Gallagher, Compost & Land Application (CLA) Branch Manager with a deadline of 180 days for completion of all closure activities.** If the facility intends to compost the remaining peat/vegetable matter to Class B standards for land application the plan must outline this activity and at a minimum the Waste Analysis Report must be underway (samples to the NC Department of Agriculture & Consumer Services – see item #5 below). **No composted material can be removed from the site for sale until the facility tested the finished product in accordance with .1407 and .1407, and submitted the test results to the Section:**

Plan: Tony Gallagher  
NCDENR Division of Waste Management  
Solid Waste Section  
1601 Mail Service Center  
Raleigh, NC 27699-1646  
[tony.gallagher@ncdenr.gov](mailto:tony.gallagher@ncdenr.gov)  
(919) 707-8280

Test Results: Andrea Keller  
NCDENR Solid Waste Section  
Asheville Regional Office  
2090 US Hwy 70  
Swannanoa, NC 28778  
[andrea.keller@ncdenr.gov](mailto:andrea.keller@ncdenr.gov)  
(828) 296-4700

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**

1. On site to conduct comprehensive site inspection and to discuss the closure status of the facility. Recent weather events (rain) in the area appeared to have not severely impacted the facility – no flooding or drainage issues were noted.



2. The Compost Demonstration approval expired on April 23, 2012. Issues remaining for the facility, as outlined in the Closure Plan document submitted to the Section on July 31, 2012, and as stated in the August

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14, 2012 Inspection report and again in the November 15, 2012 Inspection Report:

- a. *Completion of all composting within the next 3-4 months (of existing feedstocks: ~1000 cy plus material generated from the screening of the remaining greenhouse wastes, ~250 cy peat moss and plant waste, dairy manure ~600 cy);*
- b. *Clearing and removal of all plastics (unscreened ~ 3000-4000 cy);*
- c. *Grinding of all remaining land clearing and untreated wood pallets (~500 cy unground); and*
- d. *Removal of all remaining materials.*

*In addition to the processing and final removal of all waste currently stored on site at the facility, please note that the facility is due for a round of analytical, pathogen, and foreign matter testing.*

In review of the above closure requirements, Mr. Huske provided the following update:

- a. Not completed. Approximately 500 cy of the original ~1000 cy had been composted, 50% of the ~250 cy peat most had been processed/composted or was in process, the 600 cy of manure had been processed/composted or was in process. Active composting was ongoing at the time of the inspection.;
- b. Not completed. Plastics (sorted/screened) were still staged on site and Mr. Huske stated that he was still attempted to find a market for sale for these materials. The ~3000-4000 cy of unscreened plastics (containing peat/plant organics) had not been screened or sorted. It was stated that Mr. Huske did not want to screen this material before he had a plastics market as he would be less able to control the plastics (windblown) on site.
- c. Not completed. Grinding of land clearing materials and wood pallets had not occurred. No known time from for accomplishing this task (based on deal with grinding company).
- d. Not completed.

As the original period (3-4 months) for completing all composting, removing all plastics, the grinding and removal of all remaining wood materials, and removal of all materials from the site is now significantly overdue the facility is required to submit, in writing, a status update to the Section ([tony.gallagher@ncdenr.gov](mailto:tony.gallagher@ncdenr.gov)) outlining the progress made toward completing the closure requirements and details on how the facility will be brought back into compliance with the Section (see Observed Violations section above).

3. During the November 15, 2012 site inspection the test requirements were discussed. **At this time, the facility is overdue for routine sampling. Please comply with this requirement and send the results (analytical metals, pathogens, and foreign matter tests) to the Section ([andrea.keller@ncdenr.gov](mailto:andrea.keller@ncdenr.gov)).** Note that the foreign matter test (screening of finished product) does not require lab costs and the Waste Analysis Report through the NC Department of Agriculture can provide some metals and nutrient analysis but all testing requirements of 15A NCAC 13B .1408 but be met prior to any further distribution of compost product.
4. Please send records (per 15A NCAC 13B .1408(b)) including daily operational logs, temperature data, and quantity of material processed to the Section for review ([andrea.keller@ncdenr.gov](mailto:andrea.keller@ncdenr.gov)).
5. During the previous site inspections it was noted that material, primarily the finished compost product, continued to be removed from the site and the previous inspection report stated the following:

*However, the plant vegetation and soils in containers which remain on site have not been screened or separated from the plastics. As this material may be difficult to compost (to Grade A requirements) at this point without further additional nitrogenous materials or supplements, please contact Tony Gallagher (919-707-8280) to further discuss the options available (Grade B compost, soil amendment, test requirements, etc.).*

Mr. Gallagher will be able to discuss, in detail, the process by which the material may be allowed to be

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managed on site with alternative methods which could address the lack of nitrogenous materials, the ability to meet Grade A requirements, or the financial cost of disposal for the remaining feed stocks. If the facility intends to work toward distribution or land application of Class B compost the **Waste Analysis Report should be sampled for immediately** (<http://www.ncagr.gov/agronomi/uyrwaste.htm>) so that results can be discussed with the Section and provided during the soil amendment calculations.

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



Andrea Keller

Environmental Senior Specialist

***Regional Representative***

Phone: 828-296-4700

Mailed on: 5/21/13		<b>Email:</b> <a href="mailto:huskeandrew@bellsouth.net">huskeandrew@bellsouth.net</a> ; <a href="mailto:wastestreaminnovations@gmail.com">wastestreaminnovations@gmail.com</a>			<b>US Mail:</b> 290 Cashdon Drive Mills River, NC 28759
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ec: Michael Scott, Section Chief – Solid Waste Section  
Tony Gallagher, Compost and Land Application Branch Manager – Solid Waste Section  
Jason Watkins, Western District Supervisor – Solid Waste Section  
Sarah Rice, Compliance Officer – Solid Waste Section