



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

<b>UNIT TYPE:</b>											
Lined MSWLF	<b>X</b>	LCID		YW		Transfer		Compost		SLAS	<b>COUNTY: WAYNE</b> <b>PERMIT NO.: 96-06</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods	<b>X</b>	Incineration		T&P		FIRM	
CDLF		Tire T&P / Collection	<b>X</b>	Tire Monofill		Industrial Landfill		DEMO		SDTF	

**Date of Site Inspection:** 4/25/13

**Date of Last Inspection:** 1/3/13

**FACILITY NAME AND ADDRESS:**

Wayne Co. MSWLF Landfill  
 460-B South Landfill Rd  
 Dudley, North Carolina 28333

**GPS COORDINATES:** N: 35.29650 W: 78.07050

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Tim Rogers, Solid Waste Director (919) 689 2994  
 Tim.Rogers@waynegov.com

**FACILITY CONTACT ADDRESS:**

Same as above

**PARTICIPANTS:**

Wes Hare, NCDENR - Solid Waste Section  
 Dennis Shackelford, NCDENR - Solid Waste Section  
 Ming-Tai Chao, NCDENR - Solid Waste Section  
 Christine Ritter, NCDENR - Solid Waste Section  
 Jessica Montie, NCDENR - Solid Waste Section

Jason Watkins, NCDENR - Solid Waste Section  
 Tim Rogers, Director, Wayne Co. SW  
 Randy Rogers, Asst. Director, Wayne Co. SW  
 Joan Snider, Wayne Co. SW

**STATUS OF PERMIT:**

Permit To Operate (PTO) Phases 1 & 2; Permit To Construct (PTC) Phase 3 was issued June 13, 2011.

**PURPOSE OF SITE VISIT:**

Comprehensive Inspection

**STATUS OF PAST NOTED VIOLATIONS:**

Not Applicable

**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.

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**ADDITIONAL COMMENTS**

General

1. This inspection was conducted by a Comprehensive Landfill Audit Team.
2. The service area for waste processing and disposal at this facility is Wayne County.
3. The site is open from 7am to 5:30pm Mon., Tue., Thur., and Fri.; 7am to 5pm on Sat.; closed Sun. and Wed.
4. The facility accepts approximately 240 tons of MSW per day.

Documentation

1. The permit, operations plans, contingency plans, closure plans, recordation documents, sampling reports and documentation, financial assurance, staff training, and site drawings were available for review and presented in an orderly manner.
2. Financial Assurance documents indicate closure, post-closure, and corrective action cost estimates of \$6,710,206, \$1,074,000, and \$3,000,000, respectively.
3. The permitted capacity of Phases One and Two combined is 1,785,711 cubic yards. The volume indicated in the 2012 Annual Report was 1,842,541. The reported value needs to be evaluated for accuracy and subsequent action.
4. Operators' certifications on file are as follows:
  - Randy Rogers- Certified Landfill Manager, exp. 5/6/14
  - Ricky Wood- Certified Landfill Operations Specialist, exp. 10/25/15
  - Delmus J. Cox- Certified Landfill Operations Specialist, exp. 10/25/15
  - Donald A. Tolman- Certified Landfill Operations Specialist, exp. 10/25/15
  - Howard Kostelecky- Certified Landfill Operations Specialist, exp. 10/25/15
  - J. Roger Combs- Certified Landfill Operations Specialist, exp. 10/25/15
  - James Johnnie Best- Certified Landfill Operations Specialist, exp. 10/25/15
  - Dennis G. Kidd, Jr.- Certified Landfill Operations Specialist, exp. 10/25/15
5. A video recording of the annual leachate maintenance was on-file. There was no report associated with the activity. It is recommended that the facility request written reports from the contractor performing line maintenance henceforth.
6. The tire records review revealed several forms that did not contain an original signature. Original signatures are required. There was also one form indicating a clean-up project. Funding is different for clean-up projects versus normal tire handling. It is recommended you contact our Central Office staff should you require any assistance with this.
7. The January 2005 to April 2013 monthly records for leachate inspection and quantity generated were in the operating record. According to the leachate quantity records from January 2013 to April 2013, it is evident that monthly leachate quantity generated from the landfill has approximately tripled the average leachate totals for the last five years. This is because the stormwater accumulated inside the new Phase 3 cell has been treated as leachate. It is suggested the county implement the following tasks:
  - a. The monthly inspection of leachate management system should also include inspection of the sump areas to ensure that the leachate collection & removal (LCR) pumps are functioning properly and there is no spillage or leakage around sump & riser areas. The existing inspection form would need to be revised to include this LCR sump area inspection.
  - b. The approved leachate/stormwater separation plan should be implemented so that the accumulated stormwater inside Phase 3 can be directly discharged to the nearby stormwater drainage system, rather than treated as leachate.
8. Permit To Construct for Phase 3- The Solid Waste Section (SWS) received the Construction Quality Assurance Report (CQA Report) for Phase 3 construction dated September 2012 (Doc ID 17224) and prepared by the Municipal Engineering Services Company (MESCO), P.A. The timeline regarding the permitting review (comments/responses) are summarized as follows:

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Date	Doc ID	Note
10/2/2012	17328	Comments on the CQA Report -Phase 3 Construction (Doc ID 17224)
1/22/2013	18209	Responses to Comment Nos. 1 thru 9, 10 & 11 and 16 dated 10/03/12 (Doc ID 17328)
1/28/2013	18295	Additional Comments (Doc ID 18295) on the responses (Doc ID 18209) No. 8i & 10 & 11
3/1/2013	18611	Responses to Comment No. 8i & 10 & 11 dated 1/28/13 (Doc ID 18295)
3/5/2013	18636	Responses to Comments Nos. 17, 18, 19, and 24 dated 10/03/12 (Doc ID 17328)
3/6/2013	18646	Additional Comments (Doc ID 18646) on the response (Doc ID 18636) No. 19 and requested re-run slope stability analysis w/ interface angle @ 18.26 degree (< the specified 26 degree)
3/28/2013	18791	Responses to DWM 10/03/2012 & 1/28/2013 Comment No. 8i ((Doc ID 17328 & 18295) on the CQA Report for Phase 3 Construction (Doc ID 17224).
4/8/2013	18792	Responses to DWM 10/03/2012 Comments No. 12, No. 13 & No. 14 (Doc ID 17328) on the CQA Report for Phase 3 Construction (Doc ID 17224).
4/9/2013		An e-mail sent to MESCO that all responses are acceptable and waiting on the Slope Stability Report.

As of April 24, 2013, the SWS cannot issue the PTO for Phase 3 because the response regarding the revised slope stability analysis of the liner system [tested interface friction angle of 18.26 degree which is less than the specified 26 degree in the approved CQA Plan/Technical Specification (Doc ID 14016)] has not been received, reviewed, and approved by the SWS. A response has been requested. The copy of the electronic mail dated April 09, 2013 between the SWS and MESCO was hand delivered for reference. Should the PTO for Phase 3 be approved, the Wayne County MSWLF can solve the problem of exceeding waste volume in Phases 1 & 2 as described in No. 3 of this section.

9. There were noted discrepancies associated with the groundwater potentiometric maps for 9606-MSWLF in the Aug 2011, February 2012, and August 2012 semi-annual sampling reports. MW-14, MW-15, and MW-16 are not consistently drawn or identified properly on all groundwater contour maps and/or groundwater elevation data for all of these wells not consistently listed. This could be a result of converting the existing piezometers to wells and not changing the label of the data point on the map from the piezometer identification to the well identification. Please identify all monitoring wells on future groundwater reports submittals.

Facility Grounds and Structures

1. The facility is fenced and gated to prevent unauthorized entry.
2. Signs are posted and contain all required information.
3. Tires are stored in trailers and taken to Carolina Tire.
4. Small waste loads and recyclables are handled near the front of the property, for convenience and safety. All roll-off containers are labeled based on waste type. This area was very clean and well organized.
5. White goods and other metals are stored separately in trailers. Kemp Recycling receives the metal and extracts refrigerant as needed. Refrigerant containing appliances are stored and hauled separately.
6. Tarps/synthetic liners are used as alternative daily cover (ADC). At the end of the week earthen material is placed over the waste.
7. Waste markers are being maintained.

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8. No problems were noted regarding the leachate collection system associated with Phases 1 and 2. Sedimentation/residual build-up in the leachate pond, albeit slight, should be removed prior to hurricane season.
9. Soil erosion along the side slopes was observed at numerous locations in the Phase 3 area. These eroded areas must be properly backfilled and compacted prior to receiving waste. This repair activity must be documented and placed in the operating record.
10. Geotextile fabric is installed on the Phase 3 leachate lines. Be sure to note the removal prior to waste acceptance in the Operating Records.
11. Soil cover appeared thin on some areas of the landfill. Be sure all areas are covered as required.
12. Windblown waste was heavy along the Phase 2 slope adjacent to the open unused cell for Phase 3. It is required to be returned to the working face at the end the operating day.
13. The top and side slopes are being maintained so as to provide positive drainage of stormwater. There were several areas where seeding is occurring, thereby maintaining adequate groundcover. Other newly disturbed areas of soil cover are scheduled for seeding.
14. A total of sixteen groundwater monitoring wells comprise the approved groundwater monitoring system at the MSWLF and are labeled MW-1 through MW-16. Pads were not visible and/or buried at several of the wells, including MW-2, MW-12, and MW-13. One of the wells, believed to be MW-10, had a well ID tag on the steel casing but had no identifying well number imprinted on the well tag. The ID tag for MW-7 was not affixed to the steel casing and found buried in the grass adjacent to the well. For the protection of the monitoring wells and to prevent precipitation or run-off water from channeling down the sides of the casing, concrete pads must be installed or repaired at these wells. MW-3 was observed with one foot or less of stickup above the ground surface. It is apparent the steel well casing was hit and subsequently dented by machinery or mowing equipment. We recommend raising the stickup of well and/or steel casing to prevent further damage from machinery or equipment. Landfill gas monitoring wells MP-17 through MP-30 were observed with steel casings but without locks. Locks on the casings of the landfill gas monitoring wells are required; MP-26 was not labeled.



Soil build-up around monitoring well



Erosion in Phase 3 cell

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Phase 3 cell



Waste/Recycling sorting and tire storage areas

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

Phone: 910.796.7405

Wes Hare  
 Environmental Senior Specialist  
*Regional Representative*

Sent on: 5/13/13	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	<input type="checkbox"/>	Certified No.
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- Copies:
- \* Dennis Shackelford, Eastern District Supervisor
  - \* Jessica Montie, Compliance Officer
  - \* Ming-Tai Chao, Permitting Engineer
  - \* Christine Ritter, Permitting Hydrogeologist
  - \* Jason Watkins, Western District Supervisor