



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

| <b>UNIT TYPE:</b> |                                     |                     |                                     |               |                                     |                     |                                     |         |  |      |   |
|-------------------|-------------------------------------|---------------------|-------------------------------------|---------------|-------------------------------------|---------------------|-------------------------------------|---------|--|------|---|
| Lined MSWLF       | <input checked="" type="checkbox"/> | LCID                |                                     | YW            |                                     | Transfer            | <input checked="" type="checkbox"/> | Compost |  | SLAS | <b>COUNTY: Davidson</b><br><b>PERMIT NO.: 29-06</b><br><b>FILE TYPE: COMPLIANCE</b> |
| Closed MSWLF      | <input checked="" type="checkbox"/> | HHW                 | <input checked="" type="checkbox"/> | White goods   | <input checked="" type="checkbox"/> | Incineration        |                                     | T&P     |  | FIRM |   |
| CDFL              | <input checked="" type="checkbox"/> | Tire T&P/Collection | <input checked="" type="checkbox"/> | Tire Monofill |                                     | Industrial Landfill |                                     | DEMO    |  | SDTF |   |

**Date of Site Inspection:** 06/12-15/15      **Date of Last Inspection:** 11/02/14

**FACILITY NAME AND ADDRESS:**

Davidson County Solid Waste Management Facility  
 220 Davidson County Landfill Road  
 Lexington, North Carolina 27292

**GPS COORDINATES:**    **N:** 35.85281    **E:** 80.17620

**FACILITY CONTACT NAME AND PHONE NUMBER:**

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**FACILITY CONTACT ADDRESS:**

P.O. Box 1067  
 Lexington, North Carolina 27293-1067

**PARTICIPANTS:**

Rex Buck, Public Services Director  
 Angela Jones, Administrative Assistant  
 Steven Sink, Landfill Supervisor  
 Michael Lankford, Convenience Center/Recycling  
 Sherri Robbins, Administrative Assistant  
 Linda Riner, Scale House Attendant  
 Hugh Jernigan, N.C. Solid Waste Section

**PERMIT HISTORY/STATUS OF PERMIT:**

**October 8, 1993-** Original Permit to Construct: *(MSW Unit- Phase 1, Area 3).*  
**June 22, 1994-** Permit to Construct Modification: *(Alternative CQA Plan).*  
**June 24, 1994-** Permit to Construct Modification: *(Alternative Plan for Clay Liner Verification).*  
**July 14, 1994-** Permit to Construct Modification: *(Liner Repair and Reconstruction Plan).*  
**September 28, 1994-** Original Permit to Operate: *(MSW Unit- Phase 1, Area 3).*  
**January 17, 1995-** Permit to Operate: *(MSW Unit- Phase 1, Area 3, Cell 3B).*  
**February 20, 1995-** Permit to Construct: *(MSW Unit- Phase 1, Area 1).*  
**August 21, 1995-** Permit Renewal: *(MSW Unit- Phase 1, Area 1).*

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**March 13, 1996-** Permit to Operate: *(MSW Unit- Phase 1, Area 1).*  
**August 18, 1999-** Permit to Construct: *(MSW Unit- Phase 1, Area 2, Cell 1).*  
**May 30, 2000-** Permit to Operate: *(MSW Unit- Phase 1, Area 2, Cell 1).*  
**June 22, 2001-** Permit to Operate: *(HHW Facility).*  
**November 20, 2001-** Permit to Operate: *(C&D Landfill Unit- Phase 1).*  
**May 15, 2002-** Permit Modification: *(Mobile Home Deconstruction for C&D Landfill and Alternative Daily Cover for MSW Landfill).*  
**June 24, 2003-** Permit to Operate: *(MSW Unit- Phase 1, Area 2, Cell 2).*  
**September 8, 2005-** Permit to Construct: *(C&D Landfill Unit- Phase 2).*  
**April 10, 2006-** Permit to Operate: *(C&D Landfill Unit- Phase 2).*  
**April 27, 2007-** Permit Modification: *(MSW Landfill Unit- Partial Closure of Phase 1, Areas 1 & 3).*  
**September 28, 2007-** Permit to Construct: *(MSW Landfill- Phase 2 Area 1).*  
**December 8, 2008-** Permit to Operate: *(MSW Landfill- Phase 2 Area 1) (Partial Closure Phase 1, Areas 1 & 3) (Closure Modification and Regrading Plan, Phase 1).*  
**July 18, 2011-** Permit to Construct/Operate: *(Permit to Construct C&D Landfill- Phase 4) (Permit Renewal to Operate MSW Landfill- Phase 2, Area 1) (Permit Renewal to Operate C&D Landfill- Area 3) (Operations Plan Modification).*  
**May 28, 2013-** Permit to Construct/Operate: *(Permit to Construct MSW Landfill- Phase 2, Area 2) (Permit to Operate C&D Landfill- Phase 4) (Closure of MSW Landfill- Phase 1, Area 1B) (Operation Plans Modification) (C&D Landfill Unit- Approval for Acceptance of Fiber Glass Waste from PPG Lexington Facility).*  
**August 27, 2013-** Permit to Operate: *(Permit to Construct and Operate Solid Waste Transfer Facility) (Operations Plan Modification).*  
**July 14, 2014-** Permit to Operate/Construct: *(Permit to Operate new Phase 2, Area 2, Cell 1 MSWLF) (Permit to Construct Phase 2, Area 2, Cell 2 MSWLF).*  
**Permit To Operate Expiration Date, \*Permit 2906-MSWLF-1994: Not Applicable, Closed**  
**Permit To Operate Expiration Date, \*Permit 2906-MSWLF-2008: May 28, 2018**  
**Permit To Operate Expiration Date, \*Permit 2906-CDLF-: July 18, 2016**  
**Permit To Operate Expiration Date, \*Permit 2906-TRANSFER-2013: August 27, 2018**  
**Permit To Operate Expiration Date, \*Permit 2906-HHW-: May 28, 2018**  
**Note: The identification of file location in Solid Waste Section electronic files is designated by \***

### PURPOSE OF SITE VISIT:

Comprehensive Facility Inspection/Transfer Station Pre-operational Meeting

### STATUS OF PAST NOTED VIOLATIONS:

None

### 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.

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### ADDITIONAL COMMENTS

#### General Information

1. The permitted facility consists of two Municipal Solid Waste Landfills (closed Phase 1 MSWLF and active Phase 2 MWLF), Construction and Demolition Landfill, Household Hazardous Waste Collection Facility, Tire Collection Site, White Goods Collection and Processing Facility, a metals collection site, a waste drop-off convenience area for cars and small trucks, household textiles recycling area, electronics collection/recycling site, a drop-off convenience area for selected recyclables, a gas extraction/electric generation facility located at the closed Phase 1 MSW Landfill, and a Solid Waste Transfer Station (Permit to Construct and Operate issued 08/27/13). A closed unlined MSW Landfill (Permit 29-02, Holly Grove Landfill) is located on adjacent property.
2. An inspection was conducted for all facility components on 6/12/15, with completion of records review conducted on 6/15/15.
3. A pre-operational meeting for the Transfer Station was also conducted in conjunction with the inspection. All requirements have been met for operation of the Transfer Station as per the current Permit to Operate.
4. The facility is permitted to receive waste from Davidson County and the county may extend the service area to adjacent counties (Guilford, Forsyth, Davie, Rowan, Stanley, Montgomery, and Randolph) (Permit to Operate, Part 1, General Facility Conditions, page 11, Item #8) .
5. Approved locations for maintenance of facility operational records are the Davidson County Landfill office located at 220 Davidson County Landfill Road, scale house for Phase 2 MSWLF, and the Davidson County Public Services offices located at 945 North Main Street, Suite B, Lexington, N.C. 27293.
6. Reviewed current permit (dated July 14, 2014-Doc ID: 21357), approved Operational Manual (Revised July 31, 2013-Doc ID: 19418), tonnage reports, and other operational records for the facility and facility components.
7. The facility is covered under N.C. General Storm Water Permit No. NCG120000, expiring October 31, 2017. The facility is monitoring and reporting under the provisions of the Storm Water Permit.
8. The facility is covered under an approved Erosion and Sedimentation Control plan.
9. The facility has a discharge permit (via pump and haul) with the City of Lexington Waste Water Treatment Plant for leachate generated from the closed Phase 1 (lagoon) and active Phase 2 (storage tank) MSW landfills.
10. Reviewed facility training records including SWANA certifications, waste screening training, and other related solid waste training.
11. Current SWANA certifications for all facility areas of operation include, but not limited to:
  - Allen Bowman, Landfill Operations Specialist-expires 03/14/2016
  - Danny Cox, Landfill Operations Specialist-expires 02/18/2016
  - Darrell Leonard, Landfill Operations Specialist-expires 03/14/2016
  - Darrell Leonard, Transfer Station Operations Specialist-expires 06/19/2018
  - Daniel James, Landfill Operations Specialist-expires 03/14/2016
  - Todd Hancock, Landfill Operations Specialist-expires 03/14/2016
  - Keith Cecil, Landfill Operations Specialist-expires 10/01/2016
  - Kenneth Biggs, Landfill Operations Specialist-expires 10/01/2016
  - Kenneth Biggs, Transfer Station Operations Specialist-expires 06/19/2016
  - Jamie Jarrell, Landfill Operations Specialist-expires 10/01/2016
  - Michael Lankford, Landfill Operations Specialist-expires 11/15/2017
  - Michael Lankford, Transfer Station Operations Specialist-expires 06/19/2016
  - Michael Lankford, Certified Landfill Manager-expires 06/06/2017
  - Richard Hedrick, Landfill Operations Specialist-expires 03/14/2016
  - Sam Grubbs, Landfill Operations Specialist-expires 03/14/2016
  - Mark Pierce, Landfill Operations Specialist-expires 10/01/2016
  - Mark Pierce, Transfer Station Operations Specialist-expires 06/19/2016
  - Sherri Robbins, Landfill Operations Specialist-expires 10/01/2016
  - Charlie Brushwood, Transfer Station Operations Specialist-expires 06/19/2016
  - Charlie Brushwood, Certified Landfill Manager – expires 04/16/2018
  - Steven Sink, Transfer Station Operations Specialist-expires 06/19/2016
  - Steven Sink, Certified Landfill Manager – expires 04/30/2017.

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12. Annual facility financial assurance documentation was submitted to the Solid Waste Section for the year on November 26, 2014. **Submittal of financial assurance documentation for the year 2015 is due by November 30, 2015.**
13. A 1.6 MW electric power generation facility utilizing landfill gas is operated on the site by Davidson Gas Producers, LLC. Landfill gas is currently being extracted from gas wells on the closed Phase 1 MSW Landfill, Phase 2 MSW Landfill, and 11 gas wells on the closed Holly Grove Landfill (Permit 29-02). Approximately 15-20 million cubic feet of landfill is extracted monthly from the landfill gas wells.
14. Reviewed the facility 2014 Greenhouse Gas report dated May 14, 2015.
15. The Davidson County Landfill has a Title V Air Quality Permit issued by the Division of Air Quality.

### **Phase 1 Landfill Unit (Closed)**

16. Phase 1 disposal operations were completed on November 18, 2009 for closure contours, establishing crown, and preparation for methane studies for a landfill gas extraction system.
17. November 18, 2009 should be considered "last receipt of waste" in Phase 1 for the purposes of MSW landfill closure.
18. The permit issuance of May 28, 2013, included approval of closure certification for Phase 1 Area 1B, completing approval of closure certification for the entire Phase 1, Area 1/Area 2/Area 3 MSW Landfill.
19. Note: May 28, 2013 is the start date for the 30-Year Post Closure Maintenance requirements for the Phase 1 MSW landfill.
20. The entire cap system of the closed Phase 1 MSW Landfill was observed to be stable with good vegetative cover. The vegetation on the landfill cap is mowed in the fall, yearly.
21. Small trees are to be removed from rock drainage channels on landfill side slopes.
22. Periphery ditches of the landfill are well maintained and no erosion areas were observed on the Phase 1 Landfill.
23. Sedimentation basins well maintained and have adequate retention capacity.
24. Edge of waste markers are in place on Phase 1.
25. The landfill gas extraction system (39 wells) is operating and supplying the landfill gas to energy plant. Davidson Gas Producers, LLC began electric generation operations in November 2010.
26. Reviewed the landfill gas monitoring program and quarterly methane monitoring sampling results for Phase 1.
27. The last landfill gas monitoring event was conducted on March 25, 2015. No methane was detected in facility structures (HHW facility, scale house, maintenance shop, recycling facility buildings, office, white goods facility, yard box attendant structure, French drain location, manhole at leachate lagoon, and convenience area) and 13 landfill gas monitoring wells. The methane monitor utilized is a Multi-Rae+ rented from Geodic. The quarterly methane monitoring reports include manufacturer's calibration, field calibration, and weather data. Starting September, 2015 landfill gas monitoring will be conducted under contract by Smith-Garner, Inc.
28. Reviewed the Phase 1 landfill ground water/surface water/leachate monitoring program. The approved monitoring system consist of 13 monitoring wells (MW-1S, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7S, MW-7D, MW-8, MW-9A, MW-10, MW-11, MW-12) and two surface monitoring locations SW-1 (upstream)/SW-2 (downstream on Jimmy's Creek).
29. The last semiannual surface water/ground water/leachate monitoring event was conducted on April 13-17, 2015. The report for the April 2015 monitoring event has not been submitted at this time and will be forthcoming upon completion of analysis of the sampling event.
30. Reviewed the previous monitoring event report for the September 24-25, 2014 sample event. Inorganic constituents consisting of Cobalt and Chromium were detected in monitoring wells MW-8 and MW-1. Acetone was the only organic parameter detected and was not detected above the SWSL or 2L standards. The analytical results for the September 2015 monitoring event were consistent with historical data and not indicative of contamination from the landfill according to report conclusions, according to the report.

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31. Observed monitoring wells observed to be properly labeled, locked, and accessible.
32. Leachate generated by the Phase 1 MSW Landfill is collected in a lagoon and hauled via tanker trucks to the City of Lexington Waste Water Treatment Plant.
33. Reviewed leachate hauling records and contingency plans. Hauling records are accompanied with Waste Identification forms signed by the waste treatment plant.
34. The Phase 1 leachate collection lagoon was observed to have adequate retention capacity available.

### **Phase 2 MSW Landfill Unit**

35. Disposal operations began December 10, 2008 for the Phase 2, Area 1 MSW Landfill.
36. Permit to Operate for Phase 2, Area 2, Cell 1 was issued July 14, 2014. Initial waste disposal in Area 2, Cell 1 the last week of August 2014. The July 14, 2014 permit issuance included a Permit to Construct for Phase 2, Area 2, Cell 2. Scheduling for construction of Cell 2 has not been planned at this time.
37. At current disposal rates, an estimated 30 months of volume is remaining in the current Area 2, Cell 1 landfill area.
38. Reviewed the landfill gas monitoring program and quarterly methane monitoring sampling results for Phase 2. The current methane monitoring plan was approved by the Solid Waste Section January 11, 2013 (document ID 18015). The last landfill gas monitoring event on March 25, 2015 detected no methane in facility structures and 9 landfill gas monitoring locations and scale house. The methane monitor utilized is a Multi-Rae+ rented from Geotech. The methane monitoring reports include manufacturer's calibration, field calibration, and weather data. Starting September, 2015 landfill gas monitoring will be conducted under contract by Smith-Garner, Inc.
39. Reviewed MSW Landfill daily cover verification logs (Conditions of July 15, 2009 Compliance Order/November 6, 2009 Consent Agreement) as included in Section 1.12 (Record Keeping), Item P. of the approved Operation Manual (July 2013 revision).
40. Reviewed landfill staff training plan and landfill staff training logs (Condition of July 15, 2009 Compliance Order/November 6, 2009 Consent Agreement) as included in Appendix I of the approved Operation Manual (July 2013 revision).
41. Reviewed leachate release prevention plan (Condition of July 15, 2009 Compliance Order/November 6, 2009 Consent Agreement as included in Appendix H of the approved Operation Manual (July 2013 revision).
42. Reviewed weekly leachate tank inspection logs and quarterly/annual training logs, as required by the leachate release prevention plan.
43. The facility contracts for annual leachate system inspection cleaning. A leachate system line cleaning and leachate system video inspection was conducted JetClean America October 28, 2014. The submitted inspection report stated there were no issues associated with the leachate system cleaning. Annual leachate system cleaning is scheduled for November 2015. Video inspections of the leachate system collection lines are conducted once every three years.
44. Reviewed the Phase 2 MSW landfill ground water/surface water/leachate monitoring program. The approved monitoring system consist of 9 monitoring wells (MW-1, MW-2, MW-3S, MW-4S, MW-5, MW-6S, MW-8, MW-9, MW-10S) and two surface monitoring locations SW-1, SW-2.
45. The last semiannual surface water/ground water/leachate monitoring event was conducted on April 13-17, 2015. The report for the April 2015 monitoring event has not been submitted at this time and will be forthcoming upon completion of analysis of the sampling event.
46. Reviewed the previous monitoring event report for the September 24-25, 2014 sample event. Inorganic constitutes consisting of Cadmium, Cobalt, Chromium, and Vanadium were detected in monitoring wells and are determined to be naturally occurring. No organic constitutes were detected during the monitoring event. The analytical results for the September 2015 monitoring event were consistent with previous historical data, according to the report.

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47. Leachate generated by the Phase 2 MSW landfill is collected and stored in a 330,000 gallon storage tank (550,000 secondary containment area) and is hauled to the City of Lexington Waste Water Treatment Plant. At the time of the facility inspection the leachate storage tank was registering 8 feet of leachate.
48. Hauling records are accompanied with Waste Identification forms signed by the waste treatment plant.
49. The MSW Landfill is approved for the use of tarps as an alternative daily cover as per Operation Manual and permit amendment of 5/15/02.
50. Reviewed waste screening/random inspection program, contingency plans, and waste screening reports.
51. Reviewed completed waste screening/random inspection reports for the period 04/16/15- 06/09/15. There were 16 waste screenings/random inspections conducted this time period with accompanying photo documentation. Section 2.3.1 of the Operation Manual states a minimum of one vehicle per week of incoming loads are to be inspected. Excellent report documentation, and the facility is meeting frequency requirements for random inspections.
52. The MSW Landfill is currently receiving approximately 400 tons per day; the MSW Landfill received 7,748.48 tons for the month of May 2015.
53. The most recent Annual Facility Report for the reporting period July 1, 2013-June 30, 2014 indicated the facility disposed 95,538.12 tons of waste.
54. The MSW landfill Permit to Operate contains permit conditions to allow for disposal of Waste Water Treatment Plant (WWTP) sludge. The facility received 238.44 tons of sludge for the month of May 2015, of which the total includes sludge from water treatment plants.
55. Leachate recirculation is approved by permit conditions, but there are no current plans by the facility to install or operate a leachate recirculation system.
56. Observed disposal operations at the Phase 2 MSW landfill.
57. Currently disposing of waste in Phase 2, Area 2, Cell 1. Initial waste disposal were conducted in Phase 2, Area 2, Cell 1 in August, 2014
58. The working face was observed to be small, efficiently sized, and well defined; the tipping deck area was well maintained and free of debris for effective ingress and egress of disposal vehicles.
59. Waste from current and previous daily disposal operations in Cell 1 appeared to well compacted.
60. Excellent daily cover from previous daily disposal operations.
61. All weather roads are maintained within the landfill site.
62. Windblown materials observed to be effectively controlled and collected. No windblown material observed on or off site. The facility has portable fences available to be utilized as needed.
63. Observed monitoring wells found to be labeled, accessible, and locked.
64. No on-site or off-site erosion noted. Sedimentation basins maintained and have adequate retention capacity.
65. Intermediate soil cover has been placed over all completed areas of Phase 2, Area 1 and seeding for vegetative cover was conducted in the fall of 2014.
66. Landfill staff periodically inspect side slopes of inactive areas of the Phase 2 MSW landfill for erosion, weak areas of intermediate cover, and potential leachate seepages. Repairs have recently been conducted over two areas measuring approximately 20ft. X 30ft. on the north facing side slopes of Phase 2, Area 1 in response to observation by landfill staff of discolored vegetation and darkened soil. These soil and waste was removed from these areas, taken to the working face, soil cover was reapplied and compacted.
67. Vegetation has been established on previous inactive areas of the Phase 2 MSW landfill.
68. Edge of waste markers in place on the Phase 2 MSW landfill.

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**C&D Landfill**

69. The Construction and Demolition Landfill facility began receiving waste on December 4, 2001.
70. Deconstruction of mobile homes is approved by 05/15/02 Permit modification and Operation Manual approval at the C&D landfill. No mobile homes have been deconstructed in the past year and the most recent receipt of a mobile home and deconstruction was on 09/13/13.
71. The permit issuance of May 28, 2013 includes approval for operation of the Phase 4, C&D Landfill area, and approval for acceptance of fiberglass waste from PPG Industries.
72. During the month of May 2015, 2505.18 tons of waste was disposed in the C&D Landfill, including 1,603.88 tons of fiberglass waste.
73. The annual facility for the reporting period July 1, 2013-June 30, 2014 indicated the facility disposed 23,516.76 tons of waste. This was a significant increase over the previous year (+9,933.18 tons) and the increase is attributable to fiberglass disposal.
74. The C&D Landfill is approved for, and conducts recycling activities on site consisting of metals, clean wood, cardboard and other recyclables which are placed in proper containers at the end of each day.
75. The facility is approved for a roofing shingle recycling program, but at this time there are no plans to initiate or operate this activity.
76. Reviewed the approved C&D landfill ground water monitoring program. The approved ground water monitoring system consists of 5 monitoring wells (Well ID. CDMW-2, CDMW-3, CDMW-5, CDMW-6, and CDMW- 7), in addition monitoring MW1-S associated with the Phase 1 MSW landfill is utilized as an up-gradient monitoring well. No surface water monitoring locations are associated with the facility.
77. The last semiannual surface water/ground water/leachate monitoring event was conducted on April 13-17, 2015. The report for the April 2015 monitoring event has not been submitted at this time and will be forthcoming upon completion of analysis of the sampling event.
78. Reviewed the previous monitoring event report for the September 24-25, 2014 sample event. Inorganic constituents consisting of Iron and Manganese were detected in monitoring wells and are determined to be naturally occurring. No organic constituents were detected during this monitoring event
79. Observed C&D Landfill disposal operations, currently operating in the Phase 4 area.
80. The working face was effectively sized, well defined, and well compacted.
81. No on-site or off-site erosion observed.
82. Sedimentation basins are well maintained and have adequate retention capacity for rainfall events.
83. Previous weekly and intermediate soil covers have been conducted as per requirements. The facility maintains a log for the C&D Landfill dates of soil cover. Reviewed the daily logs for verification of weekly soil cover requirements. The C&D landfill is not approved for an alternative cover.
84. Periodic seeding has been periodically conducted for vegetative cover over completed side slopes and vegetative cover established over the completed side slopes.
85. Additional soil cover has been placed in preparation for scheduled fall seeding.
86. Sedimentation basins are maintained and have adequate retention space for rainfall events.
87. The C&D landfill unit has a leachate sump system located in the northwest corner of the landfill. The system has not been accumulating leachate and has not required pumping in the 4 past years.
88. Observed incoming loads, all incoming waste generated from construction and demolition operations during inspection period. No prohibited waste was noted in the C&D landfill.
89. Reviewed random inspection/waste screening program and reviewed waste screening reports. Section 2.3.1 of the Operation Manual states a minimum of one vehicle per week of incoming loads at the C&D Landfill are to be inspected. During the period 04/11/15 - 05/28/15, 13 random inspections with accompanying photo documentation were conducted, meeting requirements of the Operation Manual.
90. Edge of waste markers are in place around the C&D Landfill.
91. Monitoring wells were observed to be labeled, accessible, and locked.
92. Windblown materials well controlled and collected.

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#### **Household Hazardous Waste Facility**

93. The facility was initially permitted to operate June 22, 2001.
94. Reviewed HHW facility operations and procedures.
95. The HHW facility was previously operated by Davidson County staff and open to Davidson County citizens on Wednesdays, Saturdays, and by appointment for special considerations.
96. As of December 7, 2013 the HHW facility has operated first Saturday of each month and by contract with Resource Recovery and Reduction (3RC), Winston-Salem, NC. Davidson County residents may also utilize the 3RC HHW facility in Winston-Salem.
97. Delivery and processing operations at the Davidson County facility are in covered areas. An emergency drain and sump is located in the delivery area for potential spills.
98. Reviewed HHW facility Operations Manual (Appendix G, Facility Operations Manual, July 31, 2013 revision), contingency plans, and spill prevention plans.
99. The facility is permitted to receive paints, poisons, flammable solvents, flammable solids, antifreeze, used oils, oxidizers, aerosols/compressed gas, acids, batteries, fluorescent light bulbs, and other miscellaneous HHW waste.
100. Non-hazardous latex paints are solidified on site for disposal in the MSW landfill. Other non-hazardous residues are also sent to the MSW Landfill.
101. The facility does not accept explosives, biohazard material, or radioactive waste.
102. The annual facility report indicated the facility collected 43,773 pounds of HHW during the reporting period July 1, 2013-June 30, 2014. The materials collected included: Compressed Gases- 643 lbs., Flammable Liquids- 9,686 lbs., Flammable Solids -2,207 lbs., Oxidizing Material- 224.0 lbs., Poisonous Material – 1,151 lbs., Corrosive Material – 772 lbs., Fluorescent Lightbulbs – 447 lights, Paint- 27,066 lbs., Antifreeze – 550 lbs., Used Oil- 1,474 lbs., and Used Oil Filters -1,800 lbs.
103. Conducted records review of the Davidson County HHW facility. The facility received the following amounts for the period July 2014 – April 2015: latex paint- 20,683.6 lbs., oil based paints- 8,087.2 lbs., high BTU (gas)- 695.1 lbs., flammable solids- 1,767.8 lbs., pesticides/fertilizers- 761 lbs., used oils- 1,229.4 lbs., antifreeze- 624 lbs., aerosols- 534.3 lbs., oxidizers- 75 lbs., acids/bases- 361 lbs., used batteries 4 lbs., fluorescent bulbs- 4 lbs., and mercury- 1 lb.

#### **Solid Waste Transfer Station**

104. Conducted a pre-operational meeting for Davidson County Transfer Station as per the Permit to Operate issuances of August 27, 2013 and July 14, 2015.
105. Construction activities have been completed at the facility located at the former county material recovery facility.
106. Reviewed approved documents and Operations Manual (dated - *April 2013 (Revised July 2013)*) for the Transfer Station facility.
107. Operational criteria for the site is included in the approval documents listed in the Permit to Construct and Operate issued August 27, 2013 (Doc ID: 19146- *Davidson County Transfer Station Permit Application*, April 2013 and Doc ID: 19418- *Response to Review Comments w/Revised Operations Manual* July 2013).
108. The Transfer Station is permitted to receive and transfer both C&D and MSW waste. Typically the facility will handle C&D waste and contingencies are in place for receipt of MSW waste as per the approved Operations Manual.
109. The facility intends to transport C&D waste from the Transfer Station to a C&D recycling facility (Abbey Green, Inc., Permit No. 3424) and back-haul processed C&D waste from Abbey Green to the Davidson County C&D Landfill. Discussions with Allen Gaither, Solid Waste Permit Engineer, on 6/15/16 verified approval of this operation as per information found in Doc ID: 19418- *Response to Review Comments w/Revised Operations Manual* July 2013.

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110. All waste received at the Transfer Station will be weighed (Operations Manual, Section 2.7.1). **Note: All waste received at the Transfer Station and processed C&D waste received from Abbey Green should have verified scale weights in order to fulfill Annual Facility Report requirements and disposal tax reporting requirements.**
111. All waste will be removed from the tipping floor at the end of each operating day and placed in transfer trailers or containers (Operations Manual, Section 2.7.5).
112. The tipping floor will be swept clean and/or rinsed at the end of each operating day. If MSW waste is received the tipping shall be rinsed at the end of each operating day (Operations Manual, Section 2.7.5).
113. Thorough cleaning of the Transfer Station shall be conducted weekly with an antibacterial agent to sanitize the work area (Operations Manual, Section 2.7.6). Suggest a log be maintained and placed in the operating record to verify weekly cleaning requirements.
114. Leachate generated by the facility will be collected via floor drains and stored in a leachate storage tank. Collected leachate will be pumped and hauled to the Lexington WWTP.
115. A minimum of one vehicle per week of incoming loads are to be inspected (waste screening/random inspection documentation) at the Transfer Station (Operations Manual, Section 2.3.1).
116. Material recovery may be conducted at the facility for clean wood, pallets, cardboard, brick, block, concrete, and metals (Operations Manual, Section 2.7.7).
117. All requirements have been met for operation of the Transfer Station as per the current Permit to Operate. The facility is tentatively scheduled to begin operation within 2-4 weeks.

### **Other Facility Components**

118. Observed operations at the small vehicle/resident waste disposal convenience and recycling area, tire collection site, household textiles recycling area, electronics recycling area, white goods collection/processing facility, and scrap metal collection area. Bed mattresses were previously collected and processed on site, but are now sent directly to a mattress recycler for processing.
119. The convenience/recycling area collects used cooking oil, lead acid batteries, propane tanks, automobile radiators, motor oil, and used oil filters.
120. Observed white goods collection/processing facility, and metals collection and processing areas. White goods brought in by county residents are processed at the site and have CFC's, motors, wiring, and other components removed before shipment to recyclers. The facility shipped approximately 46.95 tons of recycled appliances to processors during the period July 1, 2014 – May 31, 2015.
121. Textiles collected for recycling are collected and loaded into trailers for shipment. During the period July 1, 2014 – May 31, 2015 the county shipped 54.24 tons to textile recyclers.
122. Observed electronics recycling area. Collected computers and televisions are sorted and shrink wrapped for shipment to electronics recyclers.
123. The county shipped 184.90 tons of electronics to their contracted electronics recycler during the period July 1, 2014 – May 31, 2015.
124. The county has an approved Electronics Recycling Plan and is eligible for distributions from the Electronics Management Fund. **Note: The county Electronics Recycling Plan verification is due to the Solid Waste Section by December 31, 2014. Approval of the Electronics Recycling Plan is necessary in order to receive distributions from the Electronics Management Fund.**
125. Reviewed county recycling in-bound out-bound totals. Single stream recyclables collections from county convenience sites and other county collection sites are being sent to the North Davidson Garbage Service material recovery facility for processing.

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- 126. Conducted a review of the County scrap tire collection program.
- 127. Observed the scrap tire collection site. Incoming scrap tires are placed directly into trailers by scrap tire haulers, and monitored by scale house personnel at the Phase 1 area scale house. Loaded trailers are taken to U.S Tire.
- 128. Reviewed recently processed tire certification forms. Tire certification forms were found to be fully documented, including signatures on Part 1 and Part 2 of the tire certification form.
- 129. During the month of May 2015, record reviews indicated 138.91 tons of tires were received at the county tire collection site, including approximately 19 tons of tires from county tire clean-ups. Excellent documentation regarding tire tonnages received at the Davidson County tire collection site.
- 130. A Temporary Disaster Debris Storage and Processing site (DD 29-002) is located at facility. The site was activated on April 2, 2014 for collection and processing of vegetative debris generated by the March 6-7 2014 ice storm. The site collected approximately 5,700 cubic yards of vegetative debris. The collected debris was ground for mulch and offered to Davidson County citizens as free mulch. All mulch has been removed from the site and the site has been de-activated.

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



Environmental Senior Specialist  
*Regional Representative*

Phone: 336-776-9672

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