FACILITY COMPLIANCE INSPECTION REPORT
Department of Environmental Quality
Division of Waste Management - Solid Waste Section

UNIT TYPE:												
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: WAKE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM		PERMIT NO.: 9228-CDLF-2001
CDLF	X	Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		FILE TYPE: COMPLIANCE

Date of Site Inspection: November 23, 2015 **Date of Last Inspection:** December 18, 2014

FACILITY NAME AND ADDRESS:
Red Rock Disposal LLC/Waste Industries, Inc. C&D Landfill
7130 New Landfill Drive
Holly Springs, NC 27540

GPS COORDINATES: N: 35.60580 E: -78.90062

FACILITY CONTACT NAME AND PHONE NUMBER:
Donald Plessinger, General Manager
Waste Industries, Inc.
w. 919-557-9583, c. 919-201-1434, f. 919-557-9523
Donald.plessinger@wasteindustries.com

FACILITY CONTACT ADDRESS:
Red Rock Disposal LLC/Waste Industries, Inc. C&D Landfill
7130 New Landfill Drive
Holly Springs, NC 27540

PARTICIPANTS:
Liz Patterson - NCDEQ – Solid Waste Section (SWS)
Donald Plessinger - Waste Industries, Inc.
Joan A. Smyth – Smith + Gardner
Kelly K. Houston, M.A. – AEI

STATUS OF PERMIT:
Permit To Operate (PTO) phases 1A, 1B, 1C-1, 1C-2 issued February 6, 2014
PTO expires July 3, 2023

PURPOSE OF SITE VISIT:
Comprehensive Audit

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 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.

The facility is a construction and demolition (C&D) debris landfill. The facility is permitted to receive C&D debris, inert debris, land clearing debris (LCD), and (used) asphalt from 60 of the counties in NC.

1. David Pepper with Waste Industries contacted Liz Patterson, Environmental Senior Specialist with NCDEQ, Division of Waste Management on Wednesday, November 18, 2015 to self-report the leachate breakout at Red Rock C&D Landfill. The leachate was first noticed on Tuesday, November 17, 2015.

2. The facility is in operation Monday through Friday, 7:00 am – 4:00 pm. The facility is secured by locked gate. The facility has proper signage. Facility personnel are on site during operating hours.

3. The facility crushes concrete as needed.

4. The facility is prohibited from receiving for disposal (but not limited to) hazardous waste, municipal solid waste (MSW), liquid waste, industrial waste, and yard trash.

5. The Office Manager is Francine Judd, (scale house/office: 919-557- 9583).

6. The current permit approves operation of Phase 1A, 1B, 1C-1, and 1C-2. The facility is actively operating in Phase 1C-2. Phases 1A, 1B, and 1C-1 have intermediate cover.

7. The facility is approved to accept approximately 2,000 tons per day, approximately 286 operating days per year in accordance with the facility franchise agreement granted by Wake County.

8. The waste type is construction and demolition waste. No unacceptable waste streams were noted.

9. The working face was around the ½ acre size. Six inches of earthen material should be properly applied once weekly or when the working face reaches ½ acre.

Working face of landfill

10. Edge of waste is marked by white 4”x4” wooden posts installed ~ every 50 feet. These are numbered and well maintained.

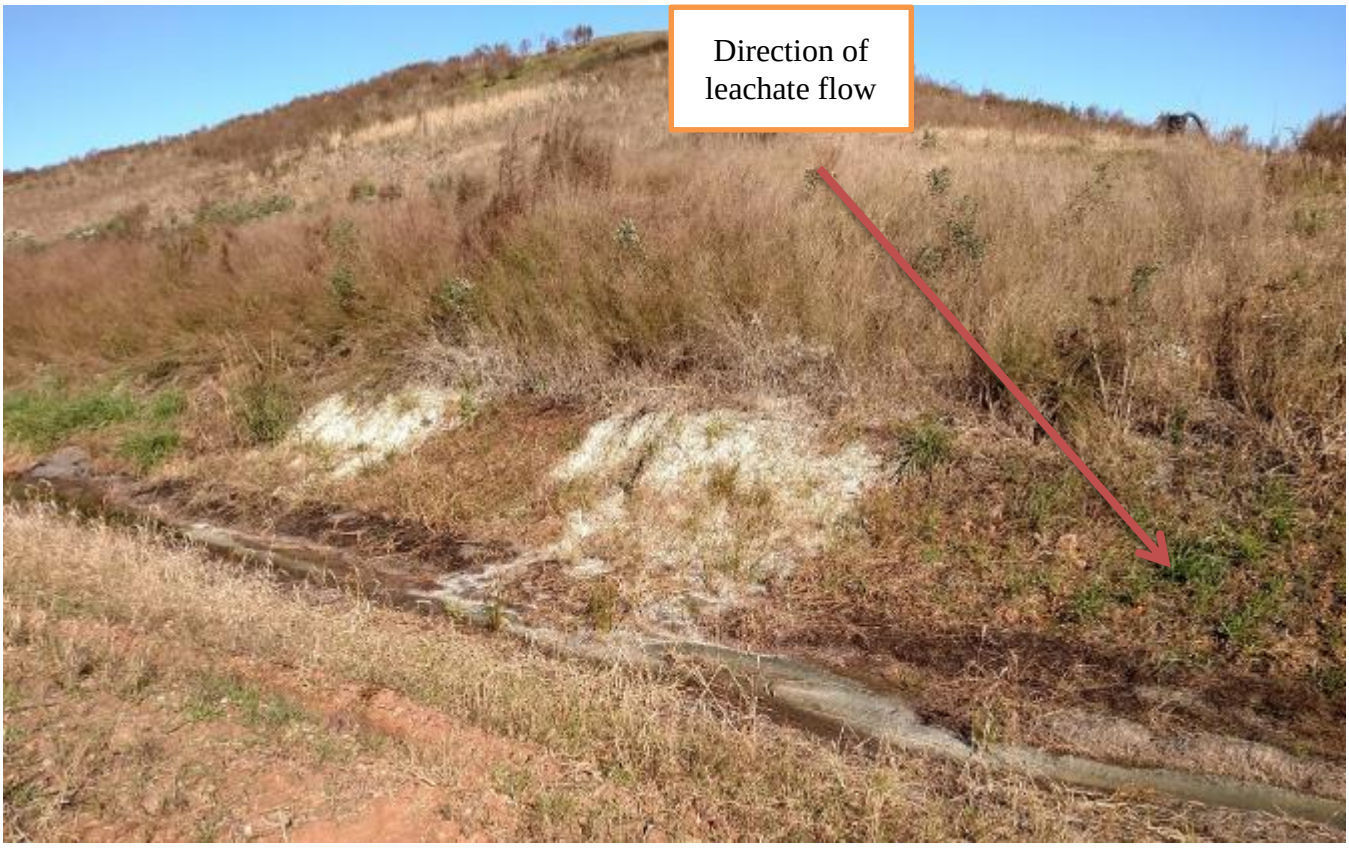
11. Windblown litter is well managed and no windblown litter was observed outside of the active working area during this inspection.

12. The facility has a water truck to control dust as needed. It is not used during times in which temperatures are below freezing.

13. The landfill cap is covered with native grasses and is mowed as needed. The cover was in good condition at the time of the inspection.

14. Kelly K. Houston, M.A. with AEI was onsite to explain aerosolization and answer questions about the demonstration that was set up. The Solid Waste Section has reviewed the "Emergency Seep Response – Aerosolization" request for the Red Rock C&D Landfill submitted by Smith Gardner, Inc. on November 24, 2015 (DIN 25325). The emergency response plan will pump leachate directly from the existing landfills sumps and incorporate two aerosolization units pumping 150 gallons per minute to evaporate the leachate over the eastern sedimentation basin. The Section approves this emergency response aerosolization plan.

15. **Leachate was observed seeping in several locations between Edge-Of-Waste Markers 50 and 52 of the southwestern slope of the landfill, then flowing into the storm water ditch at the base of this section of the landfill. This storm water ditch drains into an outfall which connects to a pipe which flows under the perimeter road to a sediment basin to the south. Liquid was observed in the storm water ditch and flowing into the sediment basin.**



Leachate Seep

Leachate

Remove the leachate contaminated soil from below the footprint and the storm water drainage ditch. This soil can be placed on the top of the landfill. Sample the soil and surface water according to the method listed below:

- **Submit a sampling plan for Solid Waste Section review within 45 days** and approval prior to conducting the sampling activities. Submit plan to Jaclynne Drummond, 1646 Mail Service Center, Raleigh, NC 27699-1664.
- The sampling plan should include sampling methodology and a figure depicting the sampling locations.
- A summary report (in electronic format) containing the results of the assessment should be submitted to the Solid Waste Section within 30 days of receiving the analytical results from the NC certified laboratory.

Soil Sampling

- Guidelines for soil sampling are located at: http://portal.ncdenr.org/c/document_library/get_file?uuid=d28d4f91-4b6d-4c9d-afd9-47c9ee93615f&groupId=38361.
- Conduct subsurface soil sampling to evaluate the extent of the potential environmental impacts from the release(s) at the facility. Discrete soil samples should be collected between one to two feet below ground surface. Composite soil samples will not be accepted. A background subsurface soil sample should also be collected.
- Analyze subsurface soil samples for the Appendix I of 40 CFR Part 258 list of constituents consisting of both VOCs and metals. Please also analyze for pH.
- The results should be compared to the Preliminary Soil Remediation Goal Table. Both the health based and the protection of groundwater soil goals must be met. The table is located at http://portal.ncdenr.org/c/document_library/get_file?uuid=0f601ffa-574d-4479-bbb4-253af0665bf5&groupId=38361.

Surface Water Sampling

- Guidelines for surface water sampling are located at http://portal.ncdenr.org/c/document_library/get_file?uuid=d28d4f91-4b6d-4c9d-afd9-47c9ee93615f&groupId=38361.
- Conduct surface water sampling to evaluate the extent of the potential environmental impacts from the release(s) at the facility. A background surface water sample should also be collected.
- Analyze surface water samples for the Appendix I of 40 CFR Part 258 list of constituents consisting of both VOCs and metals. Please also analyze for the field parameters pH, specific conductance, ORP, dissolved oxygen, and turbidity.
- The results should be compared to the 2B Surface Water Standards.

Corrective actions are needed as a result of this inspection.

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

Digitally signed by Liz Patterson
DN: cn=Liz Patterson, o=Division of Waste Management, ou=Solid Waste Section, email=elizabeth.patterson@ncdenr.gov, c=US
Date: 2015.12.22 19:16:12 -05'00'

Phone: 919-707-8286
Elizabeth.Patterson@ncdenr.gov

Liz Patterson, Environmental Senior Specialist
Regional Representative

Sent on: 12-22-2015	X	Email		Hand delivery		US Mail		Certified No. [__]

Copies: Dennis Shackelford, Eastern District Supervisor – Solid Waste Section
Elizabeth Werner, Permitting Hydrogeologist - Solid Waste Section
Jaclynne Drummond, Compliance Hydrogeologist - Solid Waste Section
Jessica Montie, Compliance Officer – Solid Waste Section