

<b>NORTH CAROLINA DIVISION OF AIR QUALITY</b>		Region: Fayetteville Regional Office County: Sampson NC Facility ID: 8200149 Inspector's Name: N/A Date of Last Inspection: N/A Compliance Code: N/A
Air Permit Review – New Permit for ownership change in selected pieces of equipment processed in accordance with 2Q .0501(c)(1)		
Permit Issue Date: April <b>XX</b> , 2011		
Facility Data		Permit Applicability (this application only)
Applicant (Facility's Name): Black Creek Renewable Energy, LLC		SIP: 15A NCAC 2D .0516, 2D .0521, 2D .0524, 2D .0530, 2D .1100, 2D .1111, 2Q .0705, and 2Q, 0711
Facility Address: Black Creek Renewable Energy, LLC 7434 Roseboro Highway Roseboro, North Carolina 28382		NSPS: Subpart JJJJ NESHAP: Subpart ZZZZ PSD: CO, NOx, PM10, PM2.5 PSD Avoidance: N/A NC Toxics: Modeled toxic air pollutants 112(r): N/A Other: N/A
SIC: 4953/Refuse Systems NAICS: 562212/Solid Waste Landfill		
Facility Classification: Before: N/A      After: Title V Fee Classification: Before: N/A      After: Title V		
Contact Data		Application Data
Facility Contact Jerry Johnson Vice President Landfill Division (919) 877-7583 Waste Industries, Inc Raleigh, NC 27609 (919) 877-7583	Authorized Contact Jerry Johnson Vice President Landfill Division (919) 877-7583 Waste Industries, Inc Raleigh, NC 27609 (919) 877-7583 Jerry.Johnson@wasteindustries.com	Application Number: 8200149.11A Date Received: 12/17/2010 Application Type: New Permit Application Schedule: TV-1st Time
	Technical Contact Bryan Wuester, Landfill manager 7434 Roseboro Highway Roseboro, NC 28382 (910) 525-4132  Bryan.wuester@wasteindustries.com	Existing Permit Data Existing Permit Number: N/A Existing Permit Issue Date: N/A Existing Permit Expiration Date: N/A
Consultant: Richardson Smith Gardner & Associates email:cybele@rsgengineers.com		Contact: Ms. Cybele Brockmann      Phone: (919) 828-0577
Review Engineer: Booker Pullen Regional Engineer: Jim Moser	Review Engineer's Signature: _____	Comments / Recommendations: Issue: 10148T00 Permit Issue Date: April <b>XX</b> , 2011 Permit Expiration Date: March 31, 2016
	Begin Date: February 9, 2011	

**I. Background:**

Sampson County Disposal, LLC (SCD) operates an active municipal solid waste landfill near Roseboro, North Carolina under Air Permit No. 09431. The landfill is subject to NSPS in accordance with 40 CFR Part 60, Subpart WWW "Standards of Performance for Municipal Solid Waste Landfills". Subpart WWW requires that landfills above certain size thresholds install landfill gas collection and control systems. The collected landfill gas is required to be ducted to an open flare, gas treatment system, or alternative control system designed and operated to reduce NMOC emissions by 98% or an outlet concentration of less than 20 ppmvd. The landfill property covers approximately 935 acres bounded by woodlands and farmland. This landfill is currently permitted to operate eight 4-stroke, lean burn, 1,600 kW each, landfill gas-fired generator (genset) units that will generate electricity that will be sold to the local utility company.

Black Creek Renewable Energy, LLC purchased the engines and wishes to place them, along with one backup low flow landfill gas-fired flare (CD3), on a separate permit from the landfill. Black Creek will own and operate these sources.

Black Creek Renewable Energy, LLC and Sampson County Disposal, LLC are owned by the same parent company. Two separate permits will be issued and the eight genset units and the backup flare will be removed from the permit of the Sampson County Disposal facility. However, since both facilities are owned by the same parent company, the emissions from these facilities will be aggregated for regulatory purposes. Also, since the landfill owns the landfill gas treatment system, the engines do not have any compliance obligations for controlling NMOC emissions from the landfill. [40 CFR Part 60, §60.752(b)(2)(iii)]

**II. Purpose of application:**

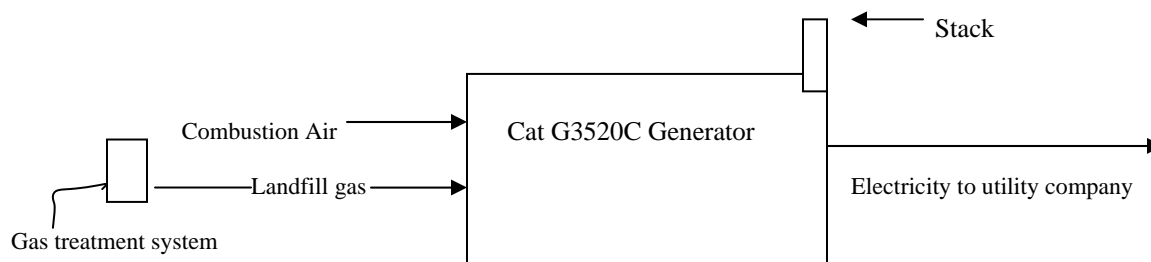
The purpose of this application is to request that the backup flare (CD3) and the eight 4-stroke, lean burn, 1,600 kW each, landfill gas-fired generators (gensets) be permitted under the name of Black Creek Renewable Energy, LLC and removed from the permit of Sampson County Disposal.

Application No. 8200149.11A was received by the Division of Air Quality (DAQ) on December 17, 2010. It was considered administratively complete for processing on that date. This application will be sent to the 30 day public notice and the 45 day EPA notice at this time.

The application for the installation of the eight genset units and new flares went through PSD review, and the required 30 day public. No modifications will be required for this ownership change of equipment. This permit application will be processed as a New Permit and a First Time Title V since the construction and operation permit was done in the PSD application.

**III. Summary of equipment being moved to Black Creek permit:**

**A. Eight landfill gas-fired Genset Units (1600 kW each, 2233 HP output each) and one back utility flare (ES-CD3)**



The following table contains a summary of all permitted emission sources:

Emission Source ID No.	Emission Source Description	Control Device ID	Control Device Description
ES-Gen-1 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-2 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-3 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-4 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-5 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-6 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-7 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-Gen-8 MACT, NSPS, PSD	Landfill gas-fired spark ignition genset unit (1600 kW, 2233 HP, lean burn)	None	None
ES-CD3	One low flow utility flare (21 million Btu heat input, 700 cfm)	None	None

**IV. Regulatory Overview:**

There will not be any changes in the existing applicable regulations in the transfer of the gas-to-energy equipment from the Sampson County Disposal Title V Permit to the Black Creek Renewable Energy Permit. After the Black Creek permit has gone through public notice and EPA review, the sources that have been transferred will be administratively removed from the Sampson County Disposal Permit.

- V. Non-Attainment:  
Sampson County has not been designated nonattainment for the eight-hour ozone standard.
- VI. A consistency determination is not required for this application because there is no modification required for this change of ownership and operation of selected pieces of equipment.
- VII. A Professional Engineer's is not required for this ownership and operation change in selected pieces of equipment.
- VIII. An application ownership fee in the amount of \$62.00 was received on December 17, 2010 with the application.
- IX. This facility is not subject to Section 112(r) of the Clean Air Act requirements because it does not store any of the regulated substances in quantities above the thresholds in the Rule.

**X. Public Notice Requirements**

A thirty-day public notice and EPA review period is required.

**Public notice:** The 30 day public notice period was from February XXX\_\_2011 through \_\_2011. \_\_ public comments were received for this permit application.

**EPA 45-Day review Period:** The DAQ sent copies of the appropriate information to the USEPA on June 16, 2009. The EPA 45-day review period was from \_\_\_\_\_. The USEPA \_\_\_\_ have any adverse comments on the ownership change for this facility.

**XI. Conclusion**

This application for an ownership change of selected equipment for the Black Creek Renewable Energy LLC, located at 7434 Roseboro Highway, Roseboro North Carolina, has been reviewed by the DAQ to determine compliance with all procedures and requirements. The Fayetteville Regional Office made comments on the draft permit. The DAQ has determined that this facility is complying or will achieve compliance as specified in the permit with all applicable requirements. The Fayetteville Regional Office \_\_\_\_\_.

**Issue Permit 10148T00**