



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

August 5, 2013

Ms. Lori Wood  
Sanders Brothers Construction Company Inc.  
PO Box 60969  
North Charleston SC 29419-0969

RE: Notice of Permit Coverage  
Sanders Brothers Construction Co., Inc. - North Charleston Plant  
Permit Number: 9900-0234

Dear Ms. Wood:

The Department has renewed the Bureau of Air Quality's General Conditional Major Operating Permit for Asphalt Plants ("General Permit"). The renewed permit was issued on July 15, 2013 and will be valid through June 30, 2018. This permit supersedes any previous construction and/or operating permit issued to your facility. Your facility's coverage under the terms and conditions of this permit begins on August 5, 2013.

A copy of the General Permit and your facility's attachment(s) are enclosed with this letter. It is your responsibility to comply with all the requirements of this General Permit. The Department may conduct periodic inspections of your facility to determine compliance with the requirements of the General Permit. Any violations found during these inspections may result in an enforcement action. Therefore, it is incumbent upon you to ensure you are in compliance with the General Permit at all times. It is important for you to read this issued permit carefully and to understand all requirements. If any errors or emissions are found, immediately notify Kirk Schneider of my staff, via e-mail at Schneikg@dhec.sc.gov, or call (803) 898-4023.

If your facility no longer requires this permit, please submit DHEC Form D-2374 ("Permit Cancellation / Temporary Closure") to cancel your coverage under the General Permit. If coverage is not cancelled, you are responsible for all annual General Permit fees.

In the event, you disagree with the decision to approve the General Permit, or the terms and conditions of the General Permit, the enclosed "Guide to Board Review" explains the process for contesting the Department's decision.

Sincerely,

Elizabeth J. Basil  
Director, Engineering Services Division  
Bureau of Air Quality

EJB:kgs:kal  
Enclosure

cc: Permit File: 9900-0234  
ec: Mark Hiott, BEHS

**ATTACHMENT A**

**FACILITY INFORMATION**  
**Sanders Brothers Construction Co., Inc. – North Charleston Plant**  
**GCM-9900-0234**  
**Page 1 of 2**

**A - APPLICABLE PERMIT DATES**

COVERAGE DATE: August 5, 2013

**B - FACILITY PHYSICAL ADDRESS**

FACILITY STREET ADDRESS: 1981 Harley St.  
CITY, STATE, ZIP FACILITY IS LOCATED IN: North Charleston, SC 29406  
COUNTY FACILITY IS LOCATED IN: Charleston

<b>C - FACILITY EQUIPMENT</b>			
<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation Date/Modification Date</b>	<b>Control Device ID</b>
AP	500 tph Drum Mix Asphalt Plant (40CFR60 Subpart I Applicable)	1996 (2005)	BH
DB	150E+06 Btu/hr Asphalt Plant Dryer Burner LPG Propane and Natural Gas as Burner Fuels	1996	BH
LS	Lime Silo	1996	BV

<b>D - FACILITY CONTROL DEVICES</b>			
<b>Control Device ID</b>	<b>Control Device Description</b>	<b>Installation Date/Modification Date</b>	<b>Pollutant(s) Controlled</b>
BH	Pulse Jet Baghouse	1996	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
BV	Bin Vent Baghouse	1996	PM, PM <sub>10</sub> , PM <sub>2.5</sub>

<b>E - FACILITY EXEMPT EQUIPMENT</b>			
<b>Equipment ID</b>	<b>Source Description</b>	<b>Installation Date</b>	<b>Basis</b>
LAT	30,000 gallon Liquid Asphalt Tank	1996	SC Regulation 61-62.1, Section II(B)(2)(h)
PRT	30,000 gallon LPG Propane Tank	1996	Air Permitting Exemption List
HOH	2.1E+06 Btu/hr Hot Oil Heater LPG Propane as fuel	1996	SC Regulation 61-62.1, Section II(B)(2)(h)



## ATTACHMENT B

### MODELED EMISSION RATES Sanders Brothers Construction Co., Inc. – North Charleston Plant GCM-9900-0234 Page 1 of 3

The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards.

STANDARD NO. 2 - MODELED AAQS EMISSION RATES (lb/hr)							
STACK ID	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	Lead	HF
EP01 – Dryer Baghouse Exhaust	11.5	--	1.70	13.0	65.0	--	--
EP02 – Hot Oil Heater	0.0179	--	0.0216	0.3529	0.1976	--	--
EP03 – Lime Silo Bin Vent	0.0292	--	--	--	--	--	--

STANDARD NO. 7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (lb/hr)				
STACK ID	Minor Source Baseline Date(s)			
	11/30/77	--	11/30/77	3/07/89
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
EP01 – Dryer Baghouse Exhaust	2.3	--	0.34	2.6

STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (lb/hr)				
STACK ID	Benzene	Cadmium	Formaldehyde	Hexane
	71-43-2	7440-43-9	50-00-0	110-54-3
EP01 (aggregate drum baghouse exhaust)	0.195	0.000205	1.50	0.46
EP02A (Asphalt Silo #1 Filling)	0.0006	---	0.0140	0.0020
EP02B (Asphalt Silo #1 Loadout)	0.0004	---	0.0006	---
EP03A (Asphalt Silo #2 Filling)	0.0006	---	0.0140	0.0020
EP03B (Asphalt Silo #2 loadout)	0.0004	---	0.0006	---
EP04A (Asphalt Silo #3 Filling)	0.0006	---	0.0140	0.0020
EP04B (Asphalt Silo #3 Loadout)	0.0004	---	0.0006	---

## ATTACHMENT B

### MODELED EMISSION RATES Sanders Brothers Construction Co., Inc. – North Charleston Plant GCM-9900-0234 Page 2 of 3

STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (lb/hr)		
STACK ID	Nickel	POM
	7440-02-0	-
EP01 (aggregate drum baghouse exhaust)	0.0315	0.093738
EP02A (Asphalt Silo #1 Filling)	---	0.00048
EP02B (Asphalt Silo #1 Loadout)	---	0.0033
EP03A (Asphalt Silo #2 Filling)	---	0.0048
EP03B (Asphalt Silo #2 loadout)	---	0.0034
EP04A (Asphalt Silo #3 Filling)	---	0.0048
EP04B (Asphalt Silo #3 Loadout)	---	0.0033

STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS				
POLLUTANT	CAS NUMBER	EMISSION RATE (lb/day)	DE MINIMIS (lb/day)	PASS (Y or N)
Acetaldehyde	75-07-0	0.0	21.600	Y
Acrolein	107-2-8	0.0	0.015	Y
Arsenic	744-038-2	0.00672	0.012	Y
Benzene	71-43-2	4.68	1.800	N
Cadmium	744-043-9	0.00492	0.003	N
Cobalt	744-048-4	0.0003	0.003	Y
Ethylbenzene	100-41-4	2.88	52.200	Y
Formaldehyde	50-00-0	37.2	0.180	N
Hexane	110-54-3	11.04	10.800	N
Hexavalent chromium	1854-029-9	0.0054	0.030	Y
Hydrochloric Acid	7647-01-0	0.0	2.100	Y
Manganese	743-996-5	0.0924	0.300	Y

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**MODELED EMISSION RATES**  
**Sanders Brothers Construction Co., Inc. – North Charleston Plant**  
**GCM-9900-0234**  
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<b>STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS</b>				
<b>POLLUTANT</b>	<b>CAS NUMBER</b>	<b>EMISSION RATE (lb/day)</b>	<b>DE MINIMIS (lb/day)</b>	<b>PASS (Y or N)</b>
MEK	78-93-3	0.0	177.00	Y
Mercury	743-997-6	0.00288	0.003	Y
Naphthalene	91-20-3	1.08	15.000	Y
Nickel	744-002-0	0.756	0.006	N
Phenol	108-95-2	0.048	2.280	Y
POMs	>	2.25	1.920	N
Propionaldehyde	123-38-6	0.0	+	Y
Quinone	106-51-4	0.0	0.024	Y
Selenium	778-249-2	0.0042	0.012	Y
Toluene	108-88-3	0.072	24.000	Y
Xylene	1330-20-7	2.4	52.200	Y