NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 19, 2012

Mr. Gerald M. Murrell
Waste Management of Carolinas, Inc.
3920 River Rd.
Wilmington, NC 28412

RE: Closure Notification of SLAS-10-15 and SLAS-10-16 Permits
Waste Management of Carolinas, Inc.
Hwy 133 and SR 1529 in Brunswick County

Dear Mr. Murrell:

The Division of Waste Management has closed out the permits for Septage Land Application Sites, **SLAS-10-15** and **SLAS-10-16,** located in Brunswick County. The Division is closing these permits based on receiving a notice of cease operation for each site on November 2, 2012. Therefore septage can no longer be applied to these sites. Remember that land application of septage on sites that are not permitted can result in administrative penalties of up to $15,000 per violation per day in accordance with NC General Statute 130A-22. Also understand that there are time restrictions as to the use of this site for public access and food production. Restrictions range from 12 to 38 months. Refer to the Environmental Protection Agency (EPA) regulations within 40 CFR 503.32(b)(5). I have enclosed a copy of that section for your reference. If you have any questions concerning this matter, please do not hesitate to call me at (919) 707-8283.

Sincerely,

Chester R. Cobb

Chester R. Cobb, Soil Scientist
Composting & Land Application Branch

Enclosures
cc: Central Files
Lawrence Sprunt, Landowner
Brunswick County Health Department

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less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or give away in a bag or other container for application to the land; or at the time the sewage sludge or material derived from sewage sludge is prepared to meet the requirements in §503.10 (b), (c), (e), or (f), unless otherwise specified by the permitting authority.

(iii) The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or give away in a bag or other container for application to the land; or at the time the sewage sludge or material derived from sewage sludge or material derived from sewage sludge is prepared to meet the requirements in §503.10 (b), (c), (e), or (f), unless otherwise specified by the permitting authority.

(7) *Class A - Alternative 5.* (i) Either the density of fecal coliform in the sewage sludge shall be less than 1000 Most Probable Number per gram of total solids (dry weight basis), or the density of *Salmonella*, sp. bacteria in the sewage sludge shall be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land; or at the time the sewage sludge or material derived from sewage sludge is prepared to meet the requirements in §503.10 (b), (c), (e), or (f).

(ii) Sewage sludge that is used or disposed shall be treated in one of the Processes to Further Reduce Pathogens described in appendix B of this part.

(8) *Class A - Alternative 6.* (i) Either the density of fecal coliform in the sewage sludge shall be less than 1000 Most Probable Number per gram of total solids (dry weight basis), or the density of *Salmonella*, sp. bacteria in the sewage sludge shall be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land; or at the time the sewage sludge or material derived from sewage sludge is prepared to meet the requirements in §503.10(b), (c), (e), or (f).

(ii) Sewage sludge that is used or disposed shall be treated in a process that is equivalent to a Process to Further Reduce Pathogens, as determined by the permitting authority.

(b) *Sewage sludge - Class B.* The requirements in either §503.32(b)(2), (b)(3), or (b)(4) shall be met for a sewage sludge to be classified Class B with respect to pathogens.

(ii) The site restrictions in §503.32(b)(5) shall be met when sewage sludge that meets the Class B pathogen requirements in §503.32(b)(2), (b)(3), or (b)(4) is applied to the land.

(2) *Class B - Alternative 1.*

(i) Seven samples of the sewage sludge shall be collected at the time the sewage sludge is used or disposed.

(ii) The geometric mean of the density of fecal coliform in the samples collected in paragraph (b)(2)(i) of this section shall be less than either 2,000,000 Most Probable Number per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

(3) *Class B - Alternative 2.* Sewage sludge that is used or disposed shall be treated in one of the Processes to Significantly Reduce Pathogens described in appendix B of this part.

(4) *Class B - Alternative 3.* Sewage sludge that is used or disposed shall be treated in a process that is equivalent to a Process to Significantly Reduce Pathogens, as determined by the permitting authority.

(5) *Site Restrictions.* (i) Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land
surface shall not be harvested for 14 months after application of sewage sludge.

(ii) Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil.

(iii) Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil.

(iv) Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.

(v) Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

(vi) Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

(vii) Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge.

(viii) Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

(c) *Domestic septage.* (1) The site restrictions in §503.32(b)(5) shall be met when domestic septage is applied to agricultural land, forest, or a reclamation site; or

(2) The pH of domestic septage applied to agricultural land, forest, or a reclamation site shall be raised to 12 or higher by alkali addition and, without the addition of more alkali, shall remain at 12 or higher for 30 minutes and the site restriction in §503.32 (b)(5)(i) through (b)(5)(iv) shall be met.

§503.33 Vector attraction reduction

(a)(1) One of the vector attraction reduction requirements in §503.33 (b)(1) through (b)(10) shall be met when bulk sewage sludge is applied to agricultural land, forest, a public contact site, or a reclamation site.

(2) One of the vector attraction reduction requirements in §503.33 (b)(1) through (b)(8) shall be met when bulk sewage sludge is applied to a lawn or a home garden.

(3) One of the vector attraction reduction requirements in §503.33 (b)(1) through (b)(8) shall be met when sewage sludge is sold or given away in a bag or other container for application to the land.

(4) One of the vector attraction reduction requirements in §503.33 (b)(1) through (b)(11) shall be met when sewage sludge (other than domestic septage) is placed on an active sewage sludge unit.

(5) One of the vector attraction reduction requirements in §503.33 (b)(9), (b)(10), or (b)(12) shall be met when domestic septage is applied to agricultural land, forest, or a reclamation site and one of the vector attraction reduction requirements in §503.33 (b)(9) through (b)(12) shall be met when domestic septage is placed on an active sewage sludge unit.

(b)(1) The mass volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent (see calculation procedures in "Environmental Regulations and Technology-Control of

NOTICE OF CEASED OPERATION OF A SEPTAGE LAND APPLICATION SITE

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT - SOLID WASTE SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1646

RECEIVED OCT - 2 2012 SOLID WASTE SECTION

I hereby inform the Division of Waste Management that I will not be operating Septage Land Application Site number SLAS -10-15 after October 5, 2012.

Site Operator's Signature _____

Operator's Name (please print) Jerry Murrell, Septic Operations Manager

Cobb, Chester

From: Cobb, Chester
Sent: Thursday, October 04, 2012 3:12 PM
To: 'Carroll, Shawn'
Cc: Gallagher, Tony; Scott, Michael
Subject: Closure of SLAS-10-16 and SLAS-10-15
Attachments: CEASE-SITE.doc

Tracking:

Recipient	Read
'Carroll, Shawn'	
Gallagher, Tony	
Scott, Michael	Read: 10/4/2012 3:13 PM

Shawn,

As we talked about the other day, I have attached a blank closure form that can be used to notified the Division of the permittee desire to close a septage land application site. Since the ownership change of Orton Plantation, there have been verbal communications with different people from Waste Management of Carolinas Inc. about permits SLAS-10-16 and SLAS-10-15 and nothing has been resolved as of today. **The Division needs to have written confirmation within one week of this email of Waste Management of Carolinas, Inc. intention for SLAS-10-16 and SLAS-10-15.** Below is a summary of what I have for each permit.

Permit SLAS-10-16
Site is located off of SR 1529 in Brunswick County. The previous permit for this site was issued for 57 acres that was divided into two fields (Field 1 with 50 acres and Field 2 with 7 acres). This permit expired on October 10, 2010. An application for permit renewal and landowner authorization form was received on July 15, 2010. The landowner was identified as Orton Longleaf, LLC. It was communicated to me that there had been no applications to this site since October 10, 2005. No nutrient management plan was received with the application. **THE DIVISION NEEDS A CLOSURE NOTICE OR COMPLETE RESUBMITTAL OF AN APPLICATION FOR PERMIT RENEWAL.**

Permit SLAS-10-15
Site is located off of Hwy 133 in Brunswick County. The current permit for this site is issued for 577 acres that is divided into four fields (Field 1 with 116 acres, Field 2 with 171.5 acres, Field 3 with 38 acres, and Field 4 with 151.5 acres). This permit was to expire on July 8, 2014. It has been communicated to the Division that there has been a landowner change on the property for which this site is located on. **THE DIVISION NEEDS A CLOSURE NOTICE OR A COMPLETED APPLICATION REFLECTING THE NEW LANDOWNER AND A LANDOWNER AUTHORIZATION FORM.**

If you have any questions, please contact me.

Thanks,

Chester

Chester R. Cobb
Soil Scientist
Composting and Land Application Branch

MAILING ADDRESS: NC DENR, Division of Waste Management
1646 Mail Service Center, Raleigh, NC 27699-1646
PHYSICAL ADDRESS: Green Square Complex, 217 W. Jones Street, Raleigh, NC 27603
Phone & Fax: 919-707-8283
chester.cobb@ncdenr.gov
http://portal.ncdenr.org/web/wm/sw

Cobb, Chester

From: Carroll, Shawn [scarrol3@wm.com]
To: Cobb, Chester
Sent: Thursday, October 04, 2012 7:29 PM
Subject: Read: Closure of SLAS-10-16 and SLAS-10-15

Your message

To:
Subject: Closure of SLAS-10-16 and SLAS-10-15
Sent: Thursday, October 04, 2012 7:29:12 PM (UTC-05:00) Eastern Time (US & Canada)

was read on Thursday, October 04, 2012 7:29:07 PM (UTC-05:00) Eastern Time (US & Canada).