


Solid Waste Management Permit Issues and Information

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DENR

Presentation Objectives

- ◆ Lined Landfill Components
 - ◆ Permit Process
 - ◆ Update on Large Projects
 - ◆ Update on proposed Construction and Demolition Debris Rules
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Modern Municipal Solid Waste Landfill



MUNICIPAL SOLID WASTE LANDFILL CONSTRUCTION





Clay Liner



Compactive Effort



HDPE Deployment



Fusion Welding



Seam Testing - Air Pressure



Seam Testing - Vacuum



Leachate Collection - Granular Drainage and
Protective Layer



Leachate Collection Pipe Trench

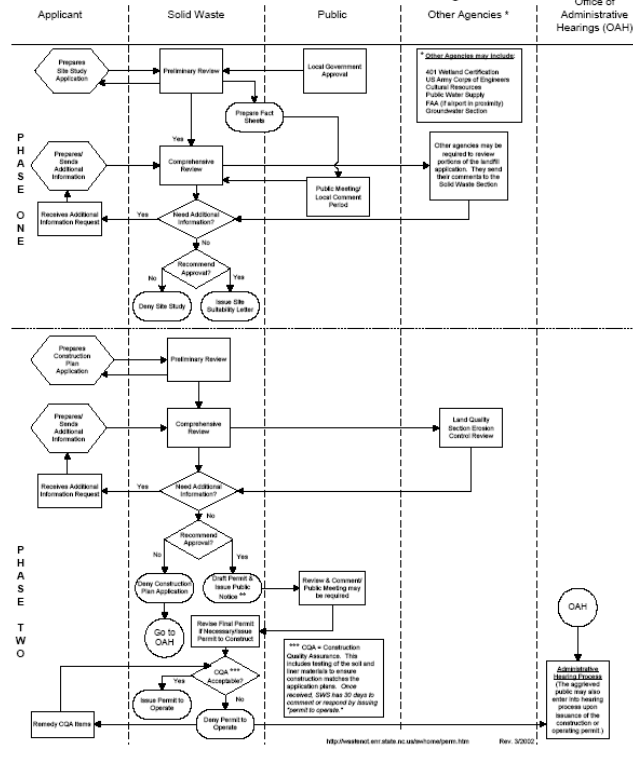


Sump and Riser

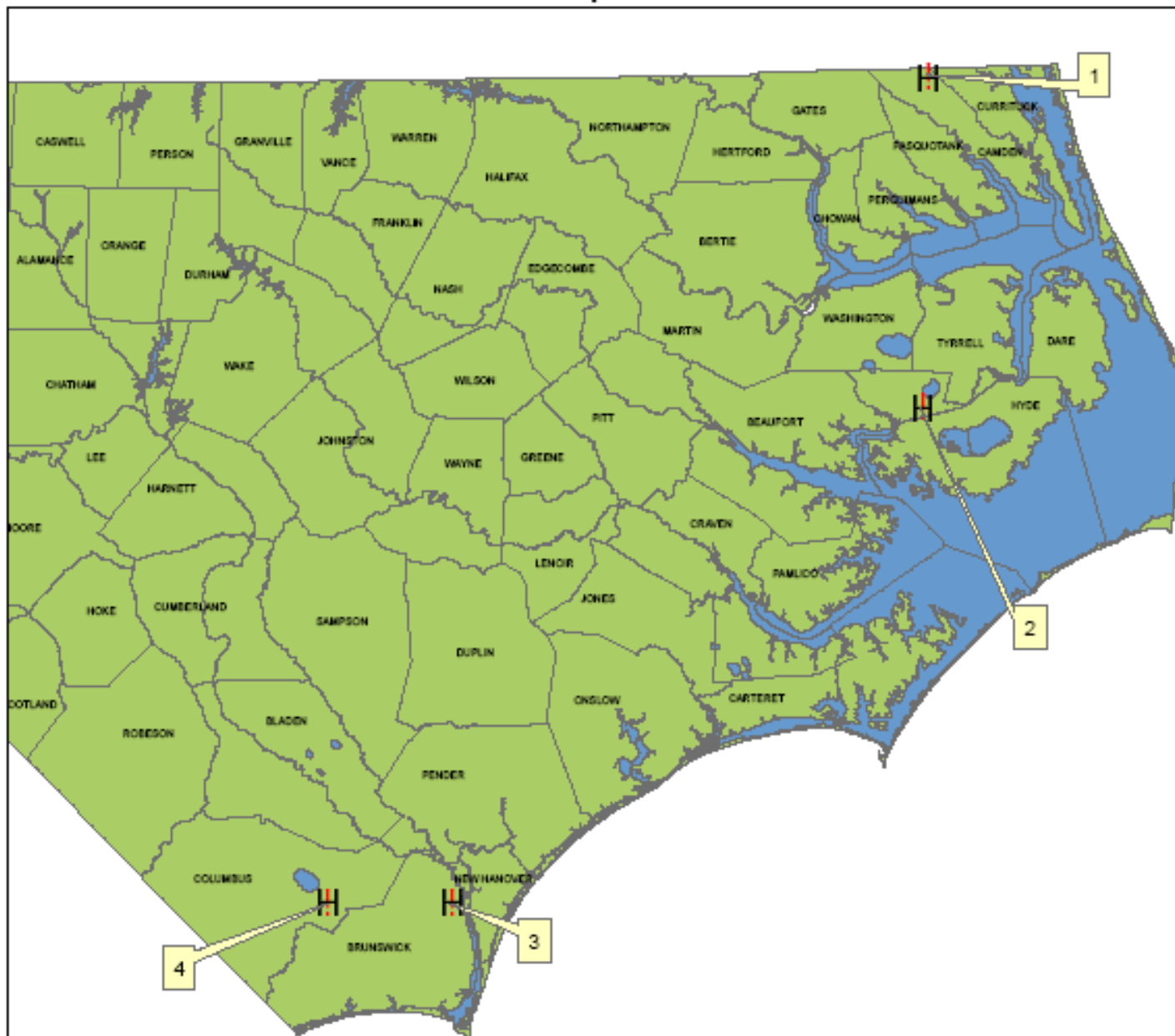


Leachate Storage Tanks

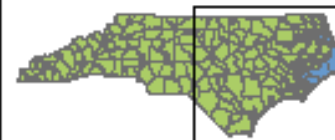
Solid Waste Landfill Permitting Process **New Municipal Solid Waste Landfills** Solid Waste Section - Division of Waste Management




Proposed Landfills in Eastern North Carolina




1. Black Bear, LLC
Waste Industries
(MSW Landfill)
2. Alligator River, LLC
(C&D Landfill)
3. North Carolina Resource
Conservation, LLC
Sims Group USA Corp.
formerly HugoNEU
(Autofluff Recycler)
4. Riegel Ridge, LLC
Waste Management, Inc.
(MSW Landfill)



Riegel Ridge LLC- MSW

- ◆ Location- Columbus County
 - ◆ Parent Company- Waste Management of the Carolinas, (Waste Management Inc.)
 - ◆ 107 acre footprint, 20 year life
 - ◆ 1500 tons per day
 - ◆ Service area- 25 NC and 15 SC counties
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Riegel Ridge Continued..

- ◆ Under Review for several years
 - ◆ Section conducting compliance audit
 - ◆ Awaiting wetlands permit from the Army Corps of Engineers
 - ◆ Major technical and permitting issues satisfied for site study
 - ◆ Site Suitability Letter to follow in the near future
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**Riegle Ridge LLC – MSW
Columbus County**



Black Bear LLC, MSW

- ◆ Location- Camden County, on US 17 south of the VA state line
 - ◆ Parent- Waste Industries USA Inc.
 - ◆ 490 acre footprint, 30 year life
 - ◆ 10,000 tons per day
 - ◆ Service area, East of I-75
 - ◆ Anticipate barge waste to Norfolk and truck down US 17.
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Black Bear LLC Continued

- ◆ Submitted in October of 2004
 - ◆ Under Review
 - ◆ Waste Industries will be a party to the permit, financial qualifications reasons
 - ◆ Not yet officially on the application
 - ◆ Need compliance audit
 - ◆ Subject to legal action from City of Chesapeake, Va.
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Black Bear LLC – MSW- Camden County




Alligator River Recycling LLC

Construction and Demolition Debris

Recycling and Treatment and Processing Facility with a Landfill


- ◆ Location- Hyde County, on the Intercoastal Waterway between the Alligator and Pungo Rivers
 - ◆ 100 Acre Footprint, 3000 tons per day
 - ◆ Service area- East of I-75
 - ◆ Barge facility with recycling
 - ◆ Company permitting barge facilities in Delaware and possibly Massachusetts.
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Alligator River LLC Continued


- ◆ Currently under review
 - ◆ Business structure being determined so that financial qualifications can be evaluated
 - ◆ Needs compliance audit
 - ◆ Barge facility undergoing Environmental Impact Assessment process for the Corps and CAMA
 - ◆ Early in the permit process
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North Carolina Resource Conservation and Recovery LLC

Industrial Treatment, Processing and Storage Unit for ASR
(Auto Shredder Residue)

- ◆ Location- Navassa, Brunswick County
 - ◆ Parent – Sims Group USA Corp, formerly Hugo Neu
 - ◆ 5000 tons per day for processing
 - ◆ USA service area
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NCRCR LLC Continued

- ◆ Sims recently acquired Hugo Neu
 - ◆ Financial Qualifications and compliance audit to be performed
 - ◆ Company working on wetland permits
 - ◆ Preliminary hydrogeologic investigation underway.
 - ◆ Navassa has confirmed the franchise and agreed to Sims being a party to the permit
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Navassa, Brunswick County

Solid Waste Rulemaking - Construction and Demolition Debris Proposed Rules


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- ◆ Rules for Construction and Demolition Debris proposed (Feb 15, 2006 publication in NC Register)
- ◆ Currently under the old, 1980's vintage, sanitary landfill rules
- ◆ Process began in 2000, after Hurricane Floyd
- ◆ Rules were proposed in 2003, withdrawn to revise in response to comments.

C&D Rule Making continued

- ◆ Revisions address the primary concern of continued operation of C&D units on top of old, closed MSW's
 - ◆ Include provisions for public participation, updated environmental protections, waste acceptance criteria, closure and post-closure plans and funding
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C&D on top of MSW

- ◆ Owners may continue the use of C&D's on top of MSW's if they meet the following:
 - ◆ Obtain local government approval
 - ◆ Prepare an Assessment of Corrective Action Plan under Section 1600.
 - ◆ Update Operations, Closure and Post-closure Plans
 - ◆ Post Financial Assurance
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For More Information...

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