



ENVIRONMENTAL REVIEW COMMISSION LAGOON CONVERSION PROGRAM

Patricia K. Harris, Director
Soil & Water Conservation - NCDENR
November 25, 2008





Lagoon Conversion Program

- \$2,000,000 to convert anaerobic lagoon & sprayfield systems to innovative systems
- “Development of Environmentally Superior Technologies – Phase 3 Report”
- NC Agriculture Cost-Share Program
- Round 1 - 90% cost-share up to \$500,000
- Established advisory committee
- Developed selection criteria and process



RULEMAKING TO IMPLEMENT PROVISIONS OF S1465

- Stakeholders Process
- EMC approved rules on November 13, 2008
- Rules Review Commission for final approval
- Effective as early as January 2009?
- Make Performance Standards Permanent
(Attachment A – 15A NCAC 02T .1307)
- Lagoon Conversion Requirements
(Attachment C – 15A NCAC 02T .1309)



Selection Timeline

- February 1 – request for applications
- March 17 – applications due
- March 24 – preliminary review by DENR
- April 15 – existing lagoon guidance finalized
- April 24 – site visits & producer discussions
- May 2 – review of additional information
- May 8 – financial reports due
- May 23 – round 1 participants selected
- May 27 – Commission approves allocations



Round 1 Applications

	Requested	Match	Total Cost
1. Centralized - Sampson	\$ 500,000	\$ 75,000	\$ 575,000
2. Farm - Sampson	\$ 500,000	\$ 56,000	\$ 556,000
3. Farm - Sampson	\$ 500,000	\$ 56,000	\$ 556,000
4. Farm - Pitt	\$ 432,216	\$ 48,024	\$ 480,240
5. Farm - Wilson	\$ 500,000	\$ 175,865	\$ 675,865
6. Centralized - Greene	\$ 475,877	\$ 52,876	\$ 528,753
7. Farm - Greene	\$ 475,877	\$ 52,876	\$ 528,753
Totals	\$ 3,383,970	\$ 516,641	\$ 3,900,611

Producer Concerns

- April 24 site visits
- Use of existing lagoon as a back-up system
- Tax concerns
- Economic climate
- Ag Cost-Share Program requirements
- Waste operator certification requirements



Existing Lagoon Guidance

- Dual permit
(innovative + existing NPDES/State)
- Maintain both systems
(lagoon, receiving fields & crops and innovative waste management systems)
- Storage component for treated effluent
(current permitting requirements)
- Treatment component
(synthetic liner & located outside of the 100 yr. floodplain)
- No Fault Failure
(Petition SWCC to revert)
- 10 yr. maintenance
- Released April 15
- Updated May 23
- 15A NCAC 02T .1309



Super Soils USA, Inc. Centralized Composting System



- Compost solids from several *existing* swine farms
- Soil amendment, container mix, potting soil & fertilizer
- Distribution market throughout southeastern US
- Constructing 50 yd³/hr mixing and bagging facility
- Expansion to facilitate solids from 10 standard size finishing operations

"Participating in the program took my average farm to the top of the field" Billy Tyndall, EST Participant, Smithfield Agreement

Super Soils USA, Inc

On Farm Solids Separation & Liquid Treatment



- **Tyndall Hog & Chicken Farm**
5,880 head feeder-to-finisher
- **Pope & Son Swine Farm**
8,820 head feeder-to-finisher
- Sampson County
- Solids Separation; Nitrification/
Denitrification; Soluble
Phosphorus Removal
- Solids transported offsite

Super Soils USA, Inc

On Farm Solids Separation & Liquid Treatment



- **Tyndall Hog & Chicken Farm**
5,880 head feeder-to-finisher
- **Pope & Son Swine Farm X**
8,820 head feeder-to-finisher
- Sampson County
- Solids Separation; Nitrification/
Denitrification; Soluble
Phosphorus Removal
- Solids transported offsite

Next steps...

- Submit permit applications by Jan 1, 2009
- Installation by July 2009 (September 2009)
- Construction checks & monitoring
- Permanent Performance Standards as early as January 2009
- Advisory Committee meeting Jan/Feb 2009

**2009
LAGOON
CONVERSION
PROGRAM**

