Company Overview

- Formed in 1993

- Joint venture of four hog producers
  - Smithfield Foods
  - Murphy Family Farms
  - Prestage Farms
  - Carroll’s Foods

Today, Circle Four is a wholly owned subsidiary of Smithfield Foods.
Commercial Market

- Raise over 1.2 million market hogs a year.
- Customers:
  - Farmer John, Los Angeles, CA (1,000,000 hogs/yr)
  - Yosemite Meats, Modesto, CA (100,000 hogs/yr)
  - Miscellaneous Markets (100,000 hogs/yr)
Groundwater Protection

- DEQ Regulated
- County Conditional Use Permits
- Lagoon Liners
- Monitor Well Network
- Environmental Management System
Circle Waste Handling System

- Waste is handled by approximately 120 lagoons
- Primary lagoon (60) is designed to anaerobically treat waste and contain 20 years of sludge accumulation.
- Secondary lagoon (60) is designed to store waste through the winter and evaporate the stored waste in the summer.
Monitor Well Sampling

- Currently have 140 Monitor wells
- Have done nearly 6,000 samples since 1993
- Required to sample twice a year
- Sampling is done by Circle Four
- State also samples once per year to verify results
Environmental Management System

- ISO 14001 Certified
- EMS Policy Commitments
  - Commitment to Continuous Improvement
  - Legal & Regulatory Compliance
  - Pollution Prevention
Proposed Projects

- Windmills
  - Investigate leasing excess property north of Milford to a windmill company for the purpose of wind generation of power.
  - Why?
    - Have done a lot of energy projects and wanted to do something bigger.
    - Currently leasing property for cattle grazing.
    - Looked for an industry that has low environmental impact and no long term use of water.
    - We are in a global economy. If we can produce renewable energy here it will benefit the environment as a whole.
  - Progress:
    - Signed a lease agreement with developer
    - Should be starting construction in spring of 2008 provided that final details with BLM and State Tax commission worked out.
Proposed Projects

• Recycle System
  – Investigate and trial a recycle system in Utah that would enable us to turn off the recycle pump at night without freezing the lines during the winter.

• Farm personnel are not present in the barns 24 hours per day. When absent, any plugging or overflow from the recycle system could go undetected for up to 16 hours.

• In the event of a spill, staff is required to stop the flow and follow our spill response

• Following a significant spill, as much liquid waste as possible is recovered and returned to a containment basin.

• Following repairs, a complete evaluation of the spill’s impact on the environment is made by collecting soil and/or groundwater samples. Mitigation efforts such as soil excavation and disposal may be necessary.
Causes of Effluent Spills
Start-up to 12/29/05

- Recycle Pump left Running: 13
- Improper Repair or Installation: 11
- Broken Clean Out Pipe: 8
- Clean Out Caps Removed: 5
- Broken Underground Pipes: 4
- Clogged Pipe: 4
- Pump/Hose Malfunction: 4
- Liner Damage: 3
- Human Error: 3
Recycle System Project

• As shown in the graph, Recycle blockage is the number one cause of spills at Circle Four.
• By reconfiguring the recycle system, we believe that design improvements will minimize spill occurrence.
• Reducing spills will decrease the volume of contaminants associated with hog manure that may be released to soil and groundwater, such as nitrate, chlorides, ammonia, and dissolved solids.

• Progress:
  – Currently installed
  – In the process of trialing system.
Community Outreach Programs

- We participate in many community events and programs, below are list a few of them:
  - Science and history fair judges
  - Conduct tours for high school FFA programs.
  - Conduct tours for College agriculture classes.
  - Provide guest lectures for local classes and events on hog production.
  - Provide local FFA groups with pigs for pig projects
  - Donate tens of thousands of dollars to local groups and charities yearly.
  - Participate in local events (relay for life, parades etc..)
  - Are in the process of providing a semi-annual Community Newsletter.
Questions?