



TMG's "Approach to Livestock"

A Natural and Sustainable Solution
for Organic Waste Management

Triumph Marketing Group LLC
2306 Orchard Lane
Centennial CO 80121

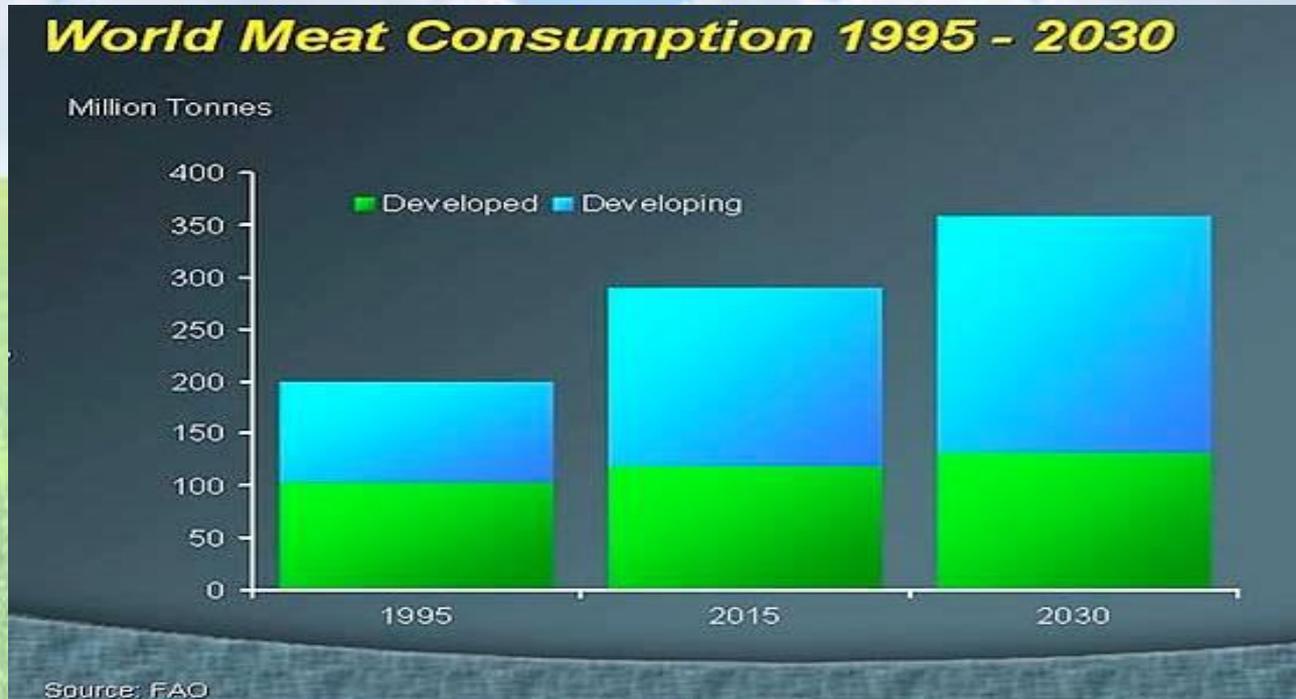
www.approachit.net
303-474-4649

MISSION CAPABILITIES VALUE PROPOSITION

- We **Eliminate** **ORGANIC** Wastes ... **on site...**
 - **Clear** Air in **Days**
 - **Clean** Water in **Weeks**
 - **Eliminate** Solids in **Months**

TMG Mission:
**Delivering improved value-
added technology for on-site,
organic and sustainable waste
handling and remediation**

A DOMESTIC AND WORLD ISSUE



***US CAFOs Produce Manure Wastes
1 Trillion Pounds /year AND Foul
600 Billion Gallons Water /year
13 Times the Mass Humans Produce
Totals Only 0.2 % of the World Bioremediation Market***

A NATIONAL ISSUE

- 9.2 Million Dairy cows
- 2.1 Million metric tons of Methane (8%)
- 120 pounds of manure waste per cow per day
- 3.98×10^{11} pounds of Manure per year

- 70 Million Hogs
- ZERO waste treatment plants
- Uneven nitrate values lost or overused

A STATE OF COLORADO ISSUE

- Dairy herd population **132,000 (up from 100,000)**
- Milk production **23,000 pounds per cow/year**

- Manure waste/head/day **120**
- Ammonia NH_3 **7,000 tons**
- Hydrogen Sulfide H_2S **1,100 tons**
- Methane CH_4 **22,000 metric tons**
- Water used to process **???? Loads**

Markets / Stakeholders

Domestic US Animal Waste

- ***\$5 to \$15 Billion per year in farmer Op Ex***
- ***Cap Ex for CAFOs and Transport waste is***
- ***\$8 to \$20 Billion per year***

- ***Farmers , CAFO Operators and Contractors***
 - ***22,000 CAFOs***
- ***NGOs (EDF, Sierra Club, Ducks Unlimited , et al.)***
 - ***600 Billion gallons of Water/year***
- ***Regulators (Fed EPA, State DENR/DWQ)***
 - ***1 Trillion Pounds of Solid Manure in CAFOs***
 - ***Point Source Nutrient Loading Regulatory Issues in Soil and Water***

TMG's Approach ..Technology

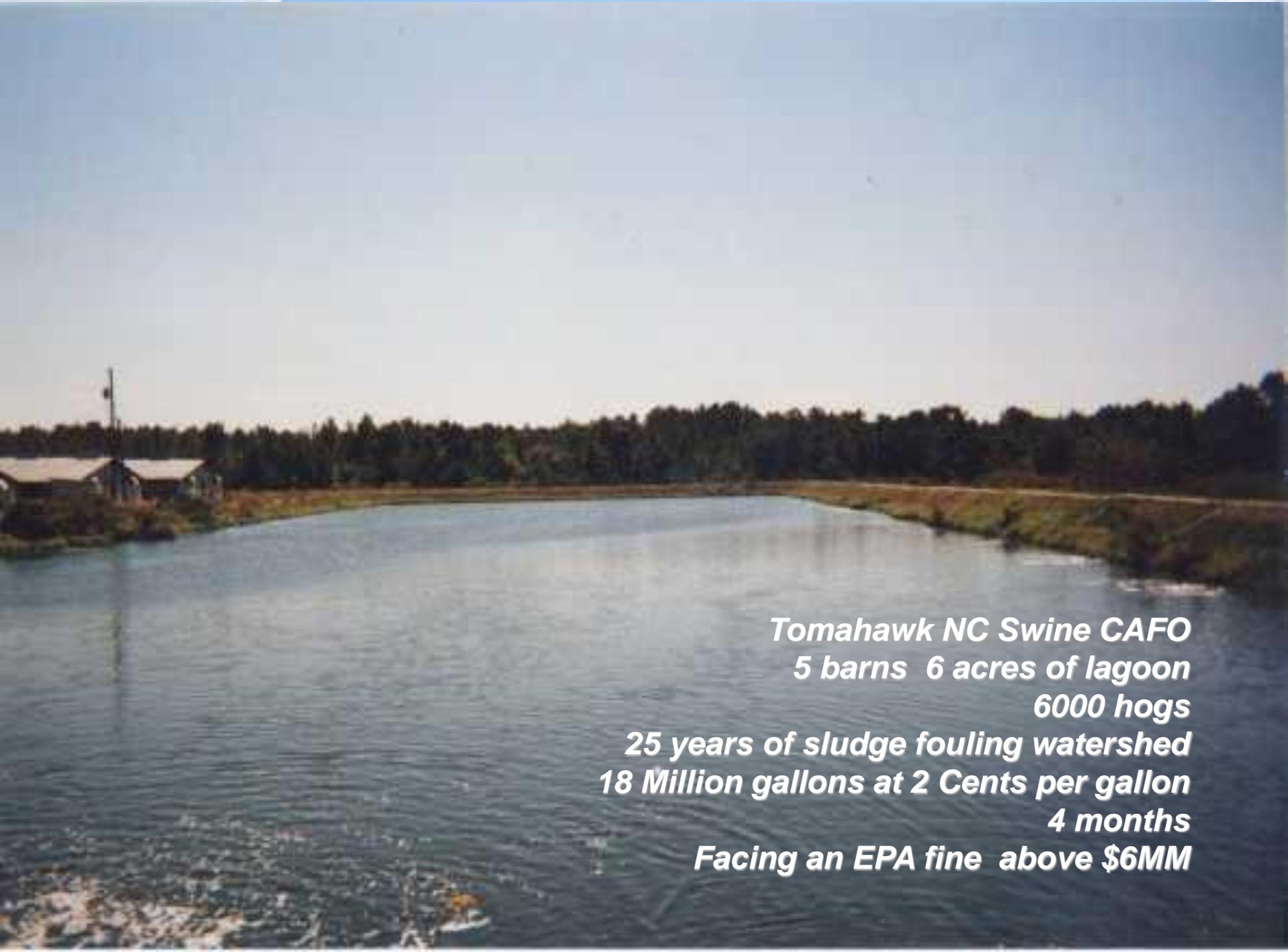
*Our Proprietary IP and our Service Accelerates **Natural & Sustainable Digestion 10^6 to 10^9 times***

WE APPLY EXTANT NATURAL PROCESSES using

- *The Biochemistry of Enzymes*
- *The Physics of SAR*
- *The Chemistry of Valence Electrons*
- *Fulfilling the Nitrogen Cycle,*
- *Achieving De-Nitrification*

PS....

**WE HAVE ALREADY SOLD this
System on
NINE Separate SITUATIONS**



Tomahawk NC Swine CAFO

5 barns 6 acres of lagoon

6000 hogs

25 years of sludge fouling watershed

18 Million gallons at 2 Cents per gallon

4 months

Facing an EPA fine above \$6MM

Present Lagoon in use today.
Black outline is fabric liner.

Pump and operation area. Most photos take from this area.

Old Lagoon we Treated in 2001-2

Green color indicates no wastes in the lagoon, natural water.

Spray Field that was used in early 2001

DWQ Location on reports;
34 deg 43 min 31 sec N
78 deg 19 min 60 sec W
Marker Pin location is at bottom center of page.

1153 ft

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500,000 Food Grease Traps



DAY 1

Note: First
Sample is Solid
Lard



DAY 12

Note: Some
digestion at top



DAY 15

Note: Zero grease
solids and milky
water

**Church's Fried Chicken Grease Trap, Omega Management Group
\$15,000, PLUS Subscription Service \$75 per month, Birmingham, AL**

Deliverables

- ***Remediation System***
 - ***Proprietary On-Site Enzymatic Composition***
 - ***Patent pending On-Site delivery Protocol***
- ***Subscription Service***
 - ***Long Term Contract for Delivery of Product***
 - ***On site***
 - ***Farmer applied***

COMPETITORS

- ***Traditions Since 14,000 BC***
 - ***Spreading /Drying (Worked Fine for Daddy)***
- ***OLD Science***
 - ***Anaerobic Storage (Long Term Pollution)***
 - ***Mechanical Materials Handling (Inefficient)***
- ***NEW Science***
 - ***BacteriaNo Novozyme's or DuPont's***
 - ***Composite Recovery Terra Blue (Expensive)***



BENEFITS ECONOMIC PROPOSITION

- ***Lower Cap Ex Cost***
 - ***Smaller Lagoons Save Land for Alternate Uses***
 - ***Smaller Lagoons Save Water***
 - ***Smaller Lagoons Save Money \$10,000 plus / acre to Build***
 - ***Increased Herd Size on the Same Lagoons***
 - ***Improves Operating Ratios....Current Regs***
 - ***Build CAFOs Closer to Markets***

BENEFITS

ENVIRONMENTAL PROPOSITION

- **Water**
 - ***Aerobic , Clear , Precipitate Inorganic Elements***
 - ***No longer Host to Insects (Mosquitoes, Flies, etc)***
 - ***No nitrates into watershed***
- **Air**
 - ***Eliminated GHGs (Methane, Ammonia, H₂S)***
 - ***Equivalent of 200 Metric Tons of CO₂ /year***
 - ***Odors***
- **Soil**
 - ***Reduced Point Source Nutrient Overloading***
 - ***P, K plus Trace Elements (copper, magnesium, etc)***

BENEFITS SOCIAL PROPOSITION

Sustainability

- ***Health (Folks Living Downwind)***
 - ***Eye Irritation, Nausea, Lung Edema, Mucous Irritation, Headache***
- ***Real Estate Value***
 - ***10% to 20% for Neighbors***
 - ***25% to 50% for Farmers with Closed Lagoon Liens (1700 in NC)***
- ***Quality of Life***
 - ***\$2MM Award in Missouri for Impact of Odor on Neighbors June 2011***
 - ***Mo passed a Law Limiting Compensatory Damages June 2011***

Go To Market

Capital

- ***Capital / Research Grants (validation only)***
- ***Family CompaniesImmediate market Intro***
- ***Channel Partners - Strategic Allies (one candidate)***
- ***Align with Govt/NGOs/Industry Ass.***
- ***Use of VARs (Co-ops, Agra-suppliers, Bank of Coops)***
- ***Educators & Regulators as "Sneezers"***

Go To Market Intellectual Property

- ***Proprietary Fermentation Process***
- ***Proprietary Application Regimen***

- ***Patent Pending on Aspects***
- ***Trade Secrets on Aspects***

- ***Reverse Engineering... "Bon chance" we are Organic Chemistry***

- ***Informs and Drives Capital Strategy***

GoToMarket

Sustainability

- ***Alignment with***
 - ***NGOs***
 - ***Industry Associations***
 - ***Regulatory Entities***
 - ***Ag Research***
 - ***Distribution and Channel Partners***

Plan B

Expanding Markets

- 1. Industrial Food Production Waste***
- 2. Grease Traps 500,000 Food Services***
- 3. Petrochemical & Petroleum Wastes & Spills (hydrocarbons v carbohydrates)***
- 4. Municipal Wastewater Facilities***
- 5. Industrial Waste Facilities & Sites***
- 6. Petrochemical & Petroleum Wastes & Spills (hydrocarbons v carbohydrates)***
- 7. International Bioremediation Services***

Go To Market

TMG TEAM

- *Ted Hoster* *Serial Entrepreneur*
- *Dr. Len Bull* *Ag Sci Prof, NC State*
- *Bill Scruggs* *Engineering Technician*
- *Gary Baise* *Enviro-Lawyer/Farmer*
- *Phil Reeves* *Strategic Sales*
- *Ross Breyfogle* *IP management*
- *Wilson Spencer* *Hog Farmer*
- *To be Named* *COO Integrator*

SCIENCE AND TECHNOLOGY TEAM

- Prof Shawn Archibeque CSU
- Prof Bill Wailes CSU Dairyman
- Jon Slutsky LaLuna Dairy /
water commissioner
- Prof Jim Parmentier Chief biologist
- Prof Maynard Hogberg ISU
- Prof David Williams NCSU

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