NAWT
Septage Processing

What are my disposal resources and how do they fit

National Association of Wastewater Transporters, Inc.
Introductions

- Tom Frank
- 2nd generation
- Huntsburg, Ohio
Resources available

- One size does not fit all
- You & your competition are different
You

- Your Environment
  - Your Property
  - Your State
  - Your County
  - Your neighbors
- Your employees
  - EXPERTS
- Your Customers
  - Competitors
- Your Trucks {Equipment}
  - My own Facility

Your Resources
Your State {Regulations}

- Land application
- Treatment permitting

Watch Animal waste
Your County [Local Regulators]

- First call should be to you
- You are the ‘Expert’
- Work with them
  - Doughnuts
- Different wastes maybe handled differently
- Zoning can be a help with neighbors
Your neighbors

- Issues
  - Trucks
  - Odors
- Relationships
  - Do your part
Public perception

- Valuable neighbor
- Expert in field
- Quality service
- NOT~
  - The local problem
  - The place that smells
  - UGH.........
Customer sources of waste

- Homes
- Business
- Wastewater treatment plants
- Industry
- Commercial – Grease traps
Deciding

- All the information
- All the rules
- Field trips to operating facilities
- NAWT Waste Symposium
  - Orlando, FL 10/09
Moving your business forward

- WASTE STREAMS
- AREA RESOURCES
- ECONOMIC CONSIDERATIONS
  - TECHNOLOGY RESEARCH
  - ENGINEERING AND PLANNING
  - BUILDING AND OPERATION
LOCAL (OR NOT SO LOCAL) DISPOSAL OPTIONS

Land app

my facility

Public WWTP
TRANSFERRING TO WWTP
SCREENING AND DIRECT DISCHARGE TO WWTP
Working with Local WWTP

- Approach with plan
- Think of it as a Partnership
- Work through their benefits
- Minimize your cost
DEWATERING TREATMENT FACILITY

- Thickening
- Dewatering
- Further treatment
  - Composting
  - Heat Drying
DEWATERING TECHNOLOGIES

- BELT PRESS
- CENTRIFUGE
- SCREW PRESS
- ROTARY PRESS
- PLATE AND FRAME PRESS
- DEWATERING BOX
- SOLIDIFICATION
- JUGGLER
STORAGE

• INCOMING SLUDGE

• EFFLUENT BEFORE FINAL DISCHARGE
Sludge after dewatering

- LAND APPLICATION
- LANDFILL
- COMPOSTING
BENEFICIAL REUSE

- LAND APPLICATION
- OWN/LEASE
- SELL PRODUCT
WATER AFTER DEWATERING

- DISCHARGED TO PUBLICLY OWNED TREATMENT WORKS
- SPRAY IRRIGATION
- SUBSURFACE IRRIGATION
- IN SOME CASES – DIRECT DISCHARGED
FINAL EFFLUENT

- ONSITE
  - Spray
  - Subsurface
  - Surface water discharge
DISCHARGE TO SEWER

- Quality of Discharge
- Sewer Use Ordinance
- Further Treatment Needed
- No Treatment Needed

➢ Transport via pipe or truck

➢ How close – How far
GREASE

FOLLOW 257 RULE – IS NOT COVERED UNDER THE 503 RULE

- FRYER OILS
- GREASE TRAP WASTE
GREASE

- OPPORTUNITIES
  - TREATED AND REUSED
  - HEATED AND SEPARATED
- DEWATERED
- IN SOME STATES ~ LAND APPLIED
WASTEWATER TREATMENT PLANTS

- Different regulations
- LARGE BUSINESSES
- MOBILE HOME PARKS
- SCHOOLS
- HOSPITALS, ETC…
WASTE FROM WASTEWATER TREATMENT PLANTS

- DEWATERED
- DIFFERENT CRITERIA FOR LAND APPLICATION
- FINAL EFFLUENT – SIMILAR TO DEWATERED SEPTAGE EFFLUENT
INDUSTRIAL WATER

- CONTAINER FILTER
- SOLIDIFICATION

With consideration, it could be run through a mechanical dewatering process.
LAND APPLICATION

- My land
- Rented property
- Other
PARTNERING

• Farmers
• Discontinued farming operation
• Other professionals {Co-op}

Get approval
Your employees

- A BIG decision
- Necessary ‘EXPERTS’
  - Accountant
  - Lawyer
  - Banker
  - Engineer [Equipment Suppliers]
  - Marketing
Your Customers

- Needs
  - Future growth
- Working with Customers
  - Marketing
  - Contracts
Business thoughts

- Customers; sustainability or long term survival and commitment
- Not just pump & dump
- Pumping reports to customers
- Record keeping of service done
- O-M, can also generate financial opportunities
Your Truck(s) {Equipment}

- Old ~ New
- Full dump
- Tipable
- Vac all
- Recycling
Full Dump
Vac all
Recycling Trucks

- Returning water to the Tank
- Screening separation
  - Simon Moos
- Sensor operation
  - Juggler
Step 1
Supernatant is drawn up.
Step 2
Sludge and scum are drawn up.
Step 3
Supernatant is treated and returned to tank.
It's QUESTION TIME!!