IN THE ROUND DEWATERING
CLAYTON, INDIANA
JAMES PENNER

HOW I STARTED...
• LAND APPLIED UNTIL REGULATIONS CHANGED YEARS AGO
• ALAR MACHINE
• BELT PRESS- OR-TEC
• DEWATERING BOX
• NOTHING WAS WORKING AND OUT OF FRUSTRATION CAME UP WITH DEWATERING DEVICE THAT WORKS!

DO I NEED TO SCREEN MATERIAL?

THE PROCESS
• The trucks are unloaded and stored in holding pit once ready a trash pump is used to pump up to dewatering device.
DOES THE KIND OF PUMP MATTER?

WHY POLYMER?
- If it will Floc it will dewater.
- Mix with polymer just before going into dewatering drum

HOW DO YOU MIX THE POLYMER?
- Polymer will freeze and needs to be protected from environment
- It does not hurt the WWTP

FILLING THE DRUM...
- ALREADY MIXED POLYMER

WHAT DO YOU DO WITH CLEAR WATER?
- Run it back through the wastewater treatment plant then it eventually will be out to the creek.
WHAT ABOUT THE TILES?
- Made of interlocking plastic material
- Easy to rinse
- Easy to change if breaks
- Durable
- Curved to go around the drum
- Do they wear out?

MORE TILES

BEGINNING ROTATION PROCESS
- This is how it works

FINISHING ROTATION
- Wrapping it up

WHAT DOES IT LOOK LIKE WHEN IT IS DONE?
- It is dried material no water running out of it and not unloaded on mulch to absorb moisture

WHAT DO YOU DO WITH THE SOLID MATERIAL?
- Several possibilities
  - Landfill
  - Compost and then sell it
  - Land apply if obtain permits in certain parts of world
**GETTING SPECIFIC...**

- How many gallons go into the unit?
- Can I add more to it once it has started rotating?
- How many tons of dried “stuff” will I end up in one load?

**HOW LONG DOES IT TAKE TO PROCESS?**

- I turn it on at night before I leave the shop and it is done in the morning ready to be dumped and reloaded.

**HOW IS IT POWERED?**

- It is powered by a 1/2 horse electric motor.
- 110 Volts
- Variable speed forward and reverse

**HEAVY DUTY GEAR BOX**

- One revolution every 2 1/2 hours
- Rotates the same direction

**HOW DO I GET IT READY TO RUN AGAIN?**

- Occasionally rinse with garden hose
- No shovel
- No scraper
- No pressure washer

**WHAT ARE THE DIMENSIONS?**

- 90 inches in diameter (standard can not change)
- Roll off truck 20 foot long
- Semi roll off up to 30 foot long
30 FOOT DRUM ON TRAILER ROLL OFF

WHAT DOES IT COST TO RUN?
- Landfill cost?
- Polymer cost?
- Electric cost?
- Clearwater cost?

HOW MANY GALLONS CAN BE PROCESSED IN A DAY?
- HOW LONG DOES IT TAKE TO DO THAT?
- DO I NEED TO PHYSICALLY BE THERE WHILE IT IS FILLING AND ROTATING?
- HOW LONG SHOULD IT ROTATE?
- HOW DRY WILL THE SOLIDS BE?
- HOW QUICK CAN I FILL IT?

WHAT ARE MY OPTIONS?
- SIZE OF UNIT
- PORTABLE UNIT
- PERMITS NEEDED?
- WHAT IS IT MOUNTED ON?
- WHAT EQUIPMENT DO I NEED SO I CAN RUN THE MACHINE?

WILL IT WORK WITH GREASE?
- AS LONG AS YOU HAVE THE PROPER POLYMER IT WILL WORK WITH GREASE
- I HAVE DONE LOADS OF JUST GREASE AND HAVE HAD GOOD RESULTS
- pH WILL NEED TO BE ADJUSTED FOR STRAIGHT GREASE

WHAT ABOUT THE WEATHER?
Does freezing weather matter?
Can the unit be outside?
THANK YOU

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ANY QUESTIONS?

THANK YOU!