Dewatering Containers

Ms. Therese Wheaton
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"Specializing in Industrial and Municipal Solids Liquid Separation"

The Regulators are Our Friends!

CONTAINERIZED DEWATERING SLUDGE BOXES

Chemically Treated Septic & Grease

You Should Be Safe Opening Gate...

...If the Material is Firm in the Truck

"Firm in the Truck Waste" is a "Solid Waste"
Optimizing Chemistry is Important!

Grease Trap Separation & Optimization

Conditioning & Pumping: What Change Should We Expect?

Really Cool Septic Separation:

Chemical Addition & Optimization

CONTAINERIZED DEWATERING SLUDGE BOXES

Fit the Chemistry to the Process

Chemically Treated Grease Trap
CONTAINERIZED DEWATERING
SLUDGE BOXES

Chemically Treated Septic

In-The-Round Dewatering
Similar, But Different...

The Plan...Where will the Water & Solids Go?
- Secure Relationship with Regulators
- Determine Water Quality Requirements
- City Ordinance has the “Rules”
- Landfill vs. Beneficial Reuse of Solids
- We Can Provide you with a “Gameplan”.

FREE CLUES

5-12% Becomes Solids
88-95% Becomes Liquid
Only 2-3% Can Become Fuel

Solids Quality; Disposal or Beneficial Re-Use

Different Chemistry = Different Results

5-12% is Solid Waste
Landfill or Beneficial Reuse *Good Question!*

Good Question!
Industrial Pre-Treatment or Irrigation

88-95% of Trucked Volume is Cleaner Water

What Pumpers Need to Know:

The Regulators Are Our Friends!
Local, State & Federal Rules

Can we do it better?

DEWATERING CONTAINERS FOR WATER POLISHING
- Some Operations Must Get Dry Solids
- Disposal Fees Sometimes Dictate Costs
- Water Quality Standards are HIGH (low values)
- Facilities Compromise Solids for Water Quality
- Facilities Compromise Water Quality for Solids
- TS in Water Must be in 100-300 ppm
- Final Clarifiers are Costly

Screw Press…Dryer Solids

Belt Filter Press…Dryer Solids
Rotary Press…Dryer Solids

Centrifuges…Dryer Solids

There is an Easy Way to Polish

TS in Water Often Exceeds Discharge Permit

WATER POLISHING

CAPTURE TOTAL SUSPENDED SOLIDS

Filtrate is Inside the Container

Dirty Filtrate in the Container Is Re-circulated

FINAL INSTALLATION…TSS CLARIFICATION
Clean Effluent is Discharged to Sewer Plant

Effluent out of Dewatering Container

Chicken Slaughterhouse Optimization:
Chemical Separation of Septic Solids & Water

CONTAINERIZED DEWATERING SLUDGE BOXES

Chemically Treated Grease Trap
Chemically Treated Septic
CONTAINERIZED DEWATERING
SLUDGE BOXES
Chemically Treated Septic & Grease

CONTAINERIZED DEWATERING
➢ Water Quality
➢ Requires no rinse water in process
➢ LOW Maintenance
➢ Filtrate meets industrial pre-treatment
➢ Financially Attractive for 1-5 Million Gallons / Year

MODULATE FOR GROWTH
RECEIVING/DE-GRIT + SCREENING + EQUALIZATION + DEWATER + ODOR CONTROL

QUESTIONS?

Thank You... Therese Wheaton
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