



Dewatering Equipment

OUR PRODUCTS



NT-2500D



NT-8000E



NT-4000TR

WHY DEWATER?

If your Liquid Disposal options are:

- Expensive
- Far away
- Inconvenient offloading times
- Interfering with your goal of keeping your pump trucks busy

...Dewatering is worth looking into!

DISPOSAL COSTS TO CONSIDER

LIQUID WASTE STRAIGHT FROM THE PUMP TRUCK

- Distance to WWTFs that accept septage
- Septage disposal fees
- Do they accept grease trap waste?
- If so, what are the disposal fees?

DEWATERING

- Capital costs
- Disposal of dewatered or thickened sludge
- Dewatering effluent - municipal sewer connection & fees
- Operating Costs

DISPOSAL OPTIONS

SEPTAGE

- Land Application
- Landfill
- Compost
- WWTF

GREASE TRAP WASTE

- Methane Digester
- Landfill
- Compost
- WWTF

ANALYTICAL DATA

(mg/L)

SEPTAGE

	BOD	COD	TSS
Raw	9,200	25,000	34,000
Effluent	520	840	40
% Reduction	94%	96%	99%

GREASE TRAP WASTE

	BOD	COD	TSS	FOG
Raw	17,000	34,000	11,000	180,000
Effluent	1,600	3,400	180	30,000
% Reduction	90%	90%	98%	98%

Thickened Solids

- COD 180,000
- Fats, Oil & Grease 50,000
- Volatile Solids 99%

NOTES

1. This data is based on a snapshot to capture raw and effluent data on the same day for % reduction.
2. This data resulted from using the NT W740 screen.

INVESTMENT PAYBACK CALCULATIONS

Use the following information to calculate the payback period.

	Initial Investment	Annual Cash Inflow	Annual Cash Outflow
Current level investment (cost)	20,000		
Proposed investment (cost)	10,000		
Proposed investment (cost) (Full year capacity)			10,000
Proposed annual operating cost:			
Rent	10,000		10,000
Energy	10,000		10,000
Material (20% of sales)	10,000		10,000
Labor (20% of sales)	10,000		10,000
Selling expense (5% of sales)	10,000		10,000
Interest on investment	10,000		10,000
Other miscellaneous expenses	10,000		10,000
Proposed total annual cost (full capacity)			70,000
Proposed annual sales (full capacity)		100,000	
Proposed annual net cash flow (full capacity)		30,000	

HOW MUCH CAN I PROCESS IN A DAY?

NT-8000E

Each Box

- 30,000 gallons in at 1.5% solids
- Let Drain
- Produces ~12 ton at 15% solids
- Empty & Clean box

NT-2500D

- Depends on incoming Grit

NT-4000TR

One Thickening Reactor

- 12,500 gallons in at 1% solids
- ~3 hours to Fill
- ~2 hours to Drain
- Produces ~2,500 gal at 5% solids (80-90% Reduction)
- ~1 hour to Pump out thickened solids & run a Cleaning cycle

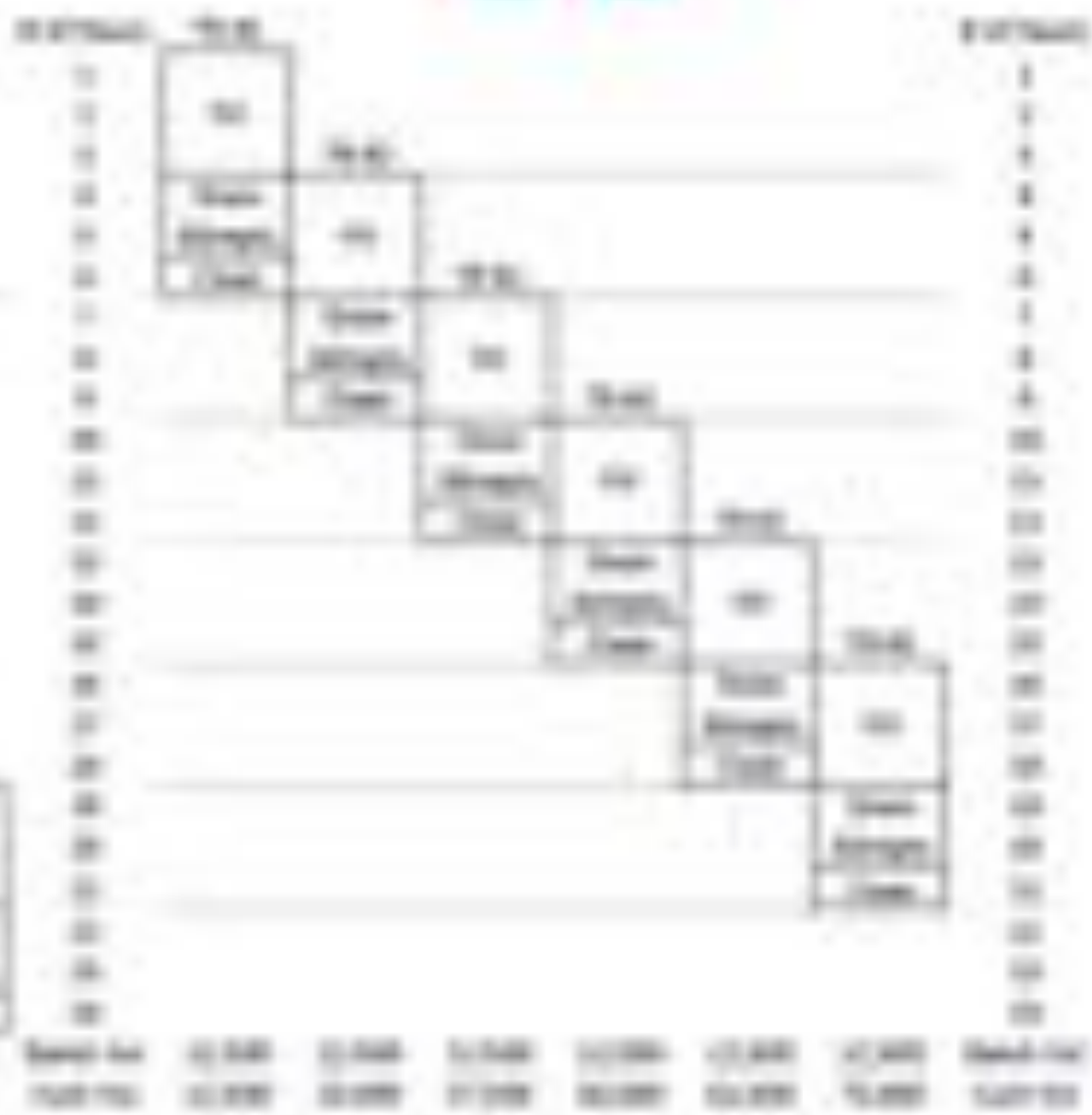
Multiple Thickening Reactors

- Continue processing while other TRs are draining & running a cleaning cycle

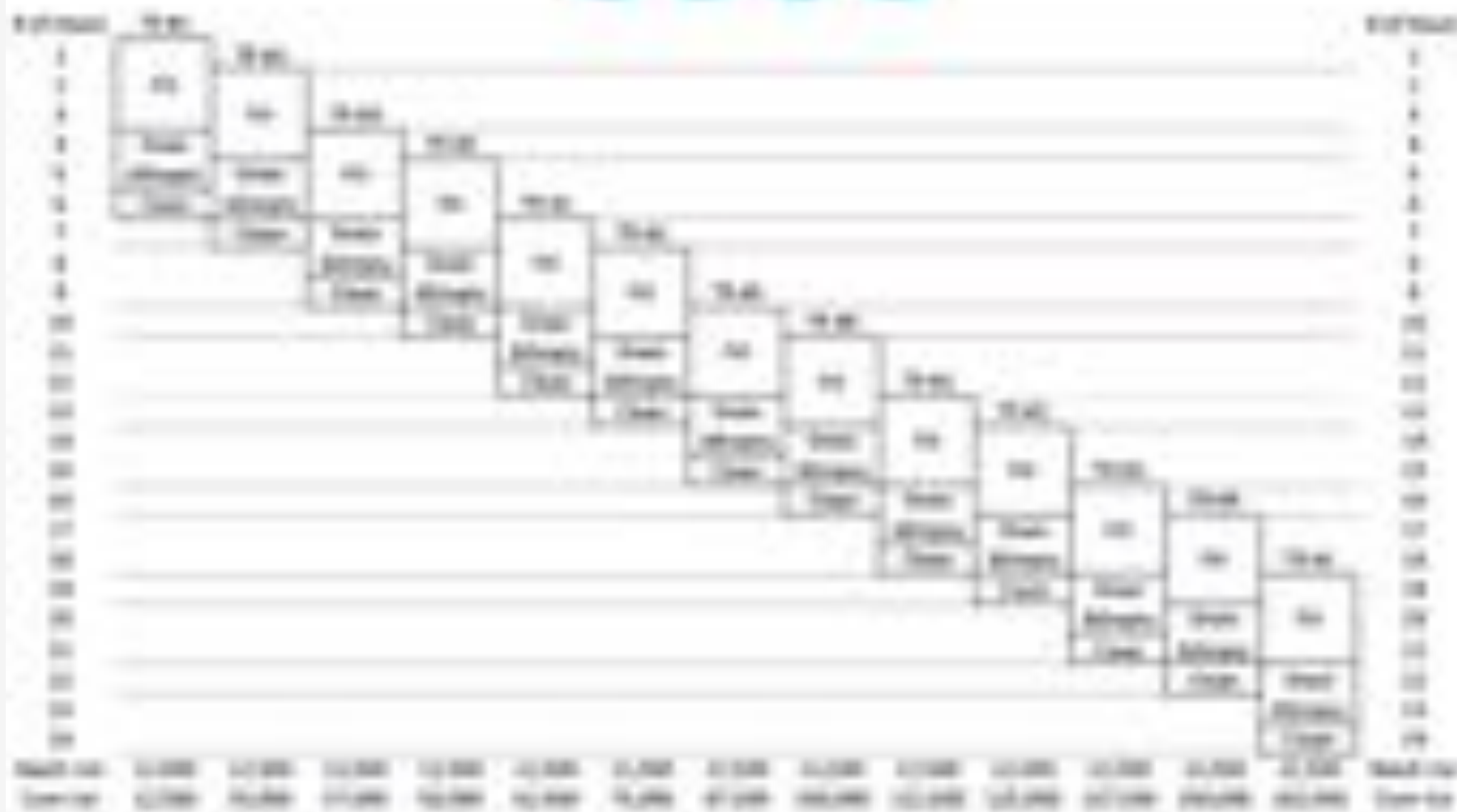
Scenario 1: Processing Queue



Scenario 2: Processing Queue



Series 1 Probability Function



WHY NEWTECH?

SERVICE, SERVICE, SERVICE!

NT-8000E

- Gravity dewatering
- Fixed Liner - reduced costs
- Durable stainless steel material options
- Custom options

NT-4000TR

- Gravity dewatering
- Stainless steel construction
- Self-cleaning CIP
- Can be used for many types of liquid waste

NT-2500D

- Great for staging onsite
- Fixed Liner - reduced costs
- Removable basket
- Durable stainless steel material options
- Custom options

SERVICES

- Feasibility calculations to demonstrate Quick Investment Recovery
- Customer Service
- Consulting
- Automation w/PLC
- Polymer Sales

QUESTIONS?