

# Pay me Now or Pay me More Later!

## Confinement Barn Beef Operation: Penergetic g/k Base Case

- A 1,000 head beef barn uses 11.0 lbs. of penergetic g/k per week (572 lbs./yr.)
- @ \$376.00 per 22 lb. box (\$17.09/lb.) = 572 lbs./yr. (26 boxes) which costs \$9,776.00

## Alternative, if Penergetic g/k not used

- Beef Manure is normally not very homogenous so does not pump out easily.
- Consequently, for a 1,000 head barn, it is common to have to add/pump in 500,000 (or more) gallons of water to make the manure homogenous enough to pump out and spread (via drag line or haul and spread with tankers)
- Cost to haul water: 1¢ per gallon X 500,000 gallons = \$5,000.00
- Extra cost to haul out 500,000 gal. of water added to pit = \$10,000.00 (@ 2¢/gal.)
- Other costs associated with additional agitation required:
  - i) agitation pumps or boats (16 hours) – capital cost / depreciation (??)
  - ii) diesel = \$780.00 (240 gal. @ \$3.25/gal.)      iii) labor = \$240.00 (16 hrs X \$15.00)

## Cost Comparison

- With Penergetic g/k = \$9,776.00 (and no equipment costs!)
- Without Penergetic g/k = \$16,020.00 (plus equipment cost/depreciation!!)

Conclusion: Using Penergetic saves money and time.

Reduces wear and tear on equipment.

# Pay me Now or Pay me More Later! continued...

Custom Pumpout Operators are a good source of information on the Economic Benefits of using Penergetic g and g/k.

Custom Operators are frequently called on to pump out pits/lagoons due to:

- sludge accumulation in pit reducing (permitted) holding capacity
- rain or overland runoff filling the pits/lagoon

In either cases, a custom operator can be asked to provide this service ahead of the normal seasonally scheduled pumpout so as create more storage capacity.

Water accumulation can often reduce storage capacity by up to 50%; whereas, accumulated bottom sludge (not pumped out) can easily use up an equal amount of storage capacity. Typical cost to address these situations = \$3,000,00 per time.

In severe cases of sludge build-up an excavator or backhoe has to be brought in. Depending on the size of the pit/lagoon this cost can be \$75,000 to over \$100,000.

We have even witnessed livestock operators considering applying for a permit for a new pit/lagoon to achieve more storage capacity to address the reduced capacity problem associated with problematic bottom sludge accumulation.

Solution: (again) use Penergetic g or g/k to make manure homogenous, minimize/eliminate sludge accumulation and make pumpout easy (often with little or no agitation required).