

The PAD™ - G Process

From the Industry Leader in Aerobic Digestion Technology

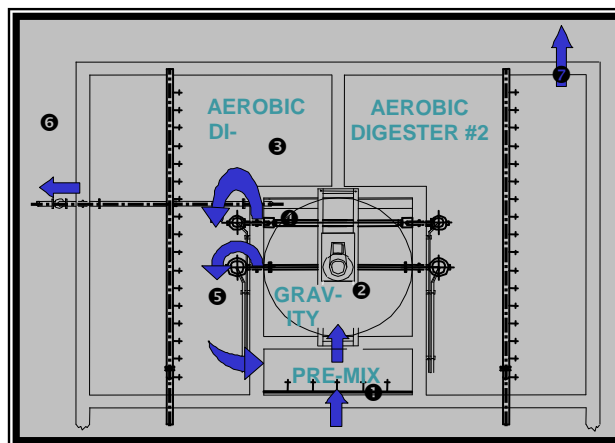


...is an enhanced digestion process guaranteed to achieve Class B Biosolids

- with operator friendly equipment
- in a reduced volume

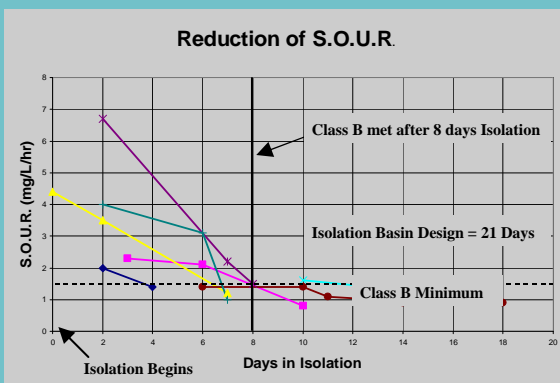
- using less energy
- and reducing hauling costs

- 1 Influent flows into Pre-Mix
- 2 After aeration, Pre-Mix flows into Gravity Thickener
- 3 Scum is airlifted into In-Loop Digester
- 4 Thickened sludge is air-lifted into In-Loop Digester



- 5 Digester overflows back into Pre-Mix
- 6 Supernatant is sent to head of the plant
- 7 Digested sludge leaves from Isolated Digester

SOUR Reduction During Isolation Phase of PAD-G®



- Consistent Class B Quality
- Empty Tanks = Energy Savings
- Pathogens Reduced along with S.O.U.R.

Nutrient Control in PAD-G® Process

Typical Digester Decant TSS: 3,400 mg/l
 Typical Gravity Thickener Supernatant TSS: 400 mg/l
 PAD-G Supernatant TSS: < 50 mg/l

Measurement	Shelton, WA	Stockbridge, GA
TSS	25 mg/l	10-50 mg/l
Phosphorus	Not Measured	0.3-1.0 mg/l
Ammonia-N	5 mg/l	8 mg/l

- PAD-G Supernatant Quality is Excellent
- Ammonia and Nitrates Removed with Nitrification/Denitrification
- Phosphorus in Supernatant Reduced

