

Wellzyme Bioremediation Benefits

Scum Pit & Lines

- Keeps waste fluid, soft and pumpable
- Keeps waste from compacting
- Eliminates pockets where gases can build-up. Compression can cause explosions

Primary Clarifiers

- Increases primary settleability of solids
- Decreases scum blanket

Aeration Tank

- Reduces B.O.D.
- Reduces final suspended solids (SS)
- Reduces Foam
 - From detergent (white foam)
 - From Nocardia* (tan/brown foam)
 - *Nocardia amarae – Actinomycete – (Bacteria/Funfi)
 - Extra housekeeping effort
 - Blockage of scum removal
 - Odor from drying scum
 - Health risks associated with pathogens in windblown foam
 - Reduction of oxygen transfer at the surface of mechanically aerated basins
 - Increased B.O.D. & S.S. in plant effluent when scum escapes from the secondary clarifier
- Reduces Bulking & Rising Sludge
 - High nitrogen level (E-Z N)
 - High Sludge Volume Index (SVI) – Filamentous Bulking

Trickling Filters

- Promotes growth needed for oxidation
- Digests scum and unwanted slime
- Accelerates the decomposition of slough
- Decreases ponding

RBC's (Rotating Biological Compacters)

- Digests scum, sludge and unwanted slime from disks and shaft, reducing weight and lessening the chance of bending
- Provides oxygen for growth
- Accelerates the decomposition of slough

Lagoons

- Increases settleability
- Promotes algae growth needed for oxidation

Imhoff Tanks

- Promotes settleability
- Degrades waste build-up in tanks and gas vents

Secondary Clarifiers

- Increases settleability of solids
- Reduces scum blanket
- Reduces B.O.D.
- Reduces final S.S.
- Decreases turbidity, therefore a clearer effluent
- Reduces Bulking (Filamentous Bulking- Sphaerotilus organisms)
 - Decreases high Sludge Volume Index (SVI)

Sludge Concentration Tanks, Sludge Thickening Tanks, Aroebic Digesters

- Reduces grease build-ups
- Reduces floatables
- Reduces odor
- Increases density of sludge
- Conditions sludge (breaks-up compacted sludge)
- Expands tank capacity

Anaroebic Digesters

- Reduces Foam – Heavy from Waste Activated Sludge W.A.S.
- Reduces crusting
- Reduces odors
- Increases Methane Production

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