

WASTEWATER *Solutions*



PIT RAIDER™

BIOLOGICAL LIFT STATION TREATMENT

- Controls odor and corrosion problems in sewer lines with a blend of anaerobic and aerobic bacteria
- Breaks down fats, oils and greases to reduce clogging and maintenance costs
- Effective at breaking down long-chain fatty acids



State®
Since 1911

CARE FOR WORK ENVIRONMENTS®

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WHAT IS PIT RAIDER?

Pit Raider is a consortium of purple sulfur, non-sulfur heterotrophic, phototrophic and autotrophic bacteria cultures that can be used in diverse environments including aerobic, facultative, anaerobic and anoxic zones of the wastewater system.

Pit Raider can metabolize sulfur and sulfur compounds such as hydrogen sulfide (H_2S), thiosulfate compounds ($S_2O_3^{2-}$) to inorganic sulfate salts and can be used as an effective way to control hydrogen sulfide wastewater systems. It can also be used to digest difficult to remove organic solids, fats, oils, and greases in the wastewater system often improving ammonia removal, reducing biological oxygen demand (BOD) and reducing sludge in wastewater lagoon systems.

HOW DOES IT WORK?

Pit Raider establishes a quick biofilm in forced mains and collection lines to establish cultures of bacteria that are particularly effective at removing hydrogen sulfide and neutralizing the source of hydrogen sulfide generation.

HOW PIT RAIDER WORKS TO CONTROL H_2S

- Pit Raider bacteria eliminates the organics that consume oxygen and drive down the oxidation-reduction potential allowing an ideal condition for sulfate reducing bacteria to reduce sulfates to hydrogen sulfide.
- Pit Raider can utilize nitrate in the anoxic respiration process in forced mains converting nitrate to nitrogen gas speeding up the biological process by a factor of 17 times based on ATP.

HOW PIT RAIDER WORKS TO CONTROL FOG BUILDUP

- The bacteria attach to surfaces, grow on the sewage and begin to attach to oil and grease. Once attached, they begin to digest the FOG.
- Over time, Pit Raider bacteria colonize the entire collection system providing effective FOG reduction.
- Pit Raider functions in low-oxygen environments and will out perform many commonly used bacterial blends used for FOG control.

DIRECTIONS FOR USE:

For applications, consult with your State Account Manager.

TECHNICAL DATA:

Appearance: clear to light brown

Liquid Odor: pungent

pH: 7.0

Solubility in Water: complete

Storage Conditions: Store in a well-ventilated area between 4°C - 32°C (40°F - 90°F). If product freezes, thaw gradually. Keeps integrity after thaw.

Bacterial Count: minimum aerobic and anaerobic bacteria – 500 million CFU/mL (1.9 trillion CFU/gallon)

Types of Biological Enzyme Production: Amylase, Lipase, Protease, Cellulase, Ammonia Assimilation, Reductase, Xylanase and Urease.

Catalyzes the breakdown of: proteins, starches, fats, oils and greases, cellular materials, sludge

Waste water temperature when applied: 7°C – 50°C (45°F – 120°F)

pH range: 5 – 9.5

OTHER STATE WASTEWATER TREATMENT PRODUCTS



Nutri Pro™
Hydrogen Sulfide
Treatment



Block Worx™ BCT
Time Release Bacteria
Block



Bio-Mate™
Biological Catalyst



Blanket 510
Wintergreen™
Floating Air Freshener

PACKAGING

123826	55 GL Drum
125512	15 GL Drum
123827	5 GL Pail
120227	1 GL Bottle/CS4



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