

SYSTEM STUDY: Republic Services - McCarty Landfill (Houston, TX)



FAST FACTS

Project:

✓ Containerized bioFAS™ MBBR/DAF System for Landfill

Industry:

✓ Landfill Leachate

Application:

- ✓ COD reduction
- ✓ Ammonia oxidation

<u>SYSTEM</u> <u>BENEFITS/HIGHLIGHTS:</u>

- Compact footprint
- Modular/Mobile design
- **♦** Simple operation
- Minimal operator maintenance

Problem:

Increasingly stringent ammonia discharge requirements threatened to put the landfill out of compliance with its Municipal discharge permit.

Solution:

bioprocessH2O supplied a three-stage, containerized bioFAS™ MBBR system to reduce COD and ammonia, keeping the landfill in compliance. bioprocessH2O supplied the ancillary equipment (DAF unit, compressor, control panels, etc.) in a shipping container to expedite the installation process.

Status/Results:

The bioFAS[™] MBBR system effectively removes ammonia by >95% and meets the discharge permit requirements. The use of mobile frac tanks and containerized equipment allows for potential relocation of the treatment system. Additional details can be provided by bioprocessH2O.

bioFAS™ MBBR System Design Criteria:

Parameter	Influent	Effluent Requirements
Wastewater Flow	20,000 GPD	-
COD	8,000 mg/L	-
Ammonia-N	1,700 mg/L	<700 mg/L

Contact bioprocessH2O today!