Average TN by System for NitROE with Provisional Use Approval for Systems <2,000 Gallons Per Day



*Notes

MassDEP reviews performance data for nitrogen reducing technologies approved for use in Massachusetts on a yearly basis to maintain the Best Available Nitrogen Reducing Technology (BANRT) list in accordance with 310 CMR 15.215(2)(g).

In 2024, the BANRT analysis for the NitROE system included 45 systems with 31 systems having an average TN that meets the 11 mg/L effluent TN standard established in the technology approval. This correlated to 67% performance.

In 2025, the BANRT analysis for the NitROE system includes 57 systems with 31 systems having an average TN that meets the 11 mg/L effluent TN standard established in the technology approval. This correlates to a 54% performance.

Additional systems were eligible to be included in the 2025 BANRT analysis that did not have enough samples to be included in the 2024 BANRT analysis. Inclusion of these systems resulted in a lower performance for the NitROE technology at the 11 mg/L effluent TN standard.

At the time of publication of the 2025 BANRT list, all nitrogen reducing technologies with General Use certification perform to a 19 mg/L effluent TN standard. For this reason, MassDEP has also measured the performance of the NitROE system against the 19 mg/L effluent TN standard for the purposes of inclusion on the BANRT list. NitROE has an 84% performance at the 19 mg/L effluent TN standard.