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MASTEP Technology Review

Technology Name: Nutrient Separating Baffle Box Suntree Technologies, Incorporated

Studies Reviewed: NJCAT Technology Verification – Nutrient Separating Baffle Box Suntree Technologies, Inc. November 2008.

Date: July 2, 2009

Reviewers: Jerry Schoen

Rating: 2

Brief rationale for rating:

This laboratory study is generally well conducted and documented. Quality control data is lacking; minor problems with some influent TSS sampling.

TARP Requirements Not Met*:

- No QC data

Other Comments

- Sediment removal efficiency (SSC), calculated according to the NJDEP weighted formula, was 67.3%.
- The 100% treatment flow rate for this system is 1.0 CFS.
- Particle Size Distribution, using a mix of Sil-Co-Sil 125 and OK-90, with d50 of 67 microns, closely matched the 55% sand, 40% silt, 5% clay mix recommended by NJDEP.
- A full range of flows (25% - 125%) was tested.
- Scour test was performed. No significant re-suspension occurred.

* Criteria also based on NJDEP laboratory testing guidelines.