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Evaluation Project

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MASTEP Technology Review

Technology Name: Hancor Storm Water Quality Unit - Hancor, Inc.

Studies Reviewed:

- Performance Evaluation Of Hancor Storm Water Quality Unit, Module II Hydraulic Performance And Removal Efficiency Testing, Colorado State University, April 2005
- Field Testing - Hancor Storm Water Quality Unit, TTL Associates, June 2004

Date: January 26, 2008

Reviewer: Jerry Schoen

Rating: 3

Brief rationale for rating: TTL Associates field test only monitored two storms. CSU Lab test did not provide analysis method; tested under low flow conditions, fairly high influent sediment concentrations

Other Comments:

CSU laboratory study

- Study reviewed study tested sediment and oil.
- Sediment removal efficiency was tested using two different sand/silt mixes, representing a good range of particle sizes, including a good amount of fine-grain particles (< 45 microns).
- A large number of test runs were conducted, but all were done under relatively low flow conditions: 40% of peak operating rate or less.
- Tests were also conducted at a fairly high range of influent sediment concentration (it is generally easier to achieve high removal rates when influent concentrations are high rather than low). However, removal rates were fairly consistent across all ranges.
- Sediment analysis method was not provided in this report, making it difficult to compare removal rates with other studies for this product or with other products.