

CASE FILE



PRICE & COMPANY
Solutions Grounded in Experience

SITE CIVIL IMPROVEMENT ↔ EROSION CONTROL ↔ SURFACE WATER QUALITY

GeoPro® Learning Tool

December 1, 2008

Mill Race Office Park, Commerce Township, Oakland County, MI NSBB System Flexibility Overcomes Demanding Performance/Geometrical Constraints

Selecting a storm drain treatment unit might be difficult when faced with the desire to significantly improve water quality during full-flow conditions and having to install the system under challenging site constraints. To meet these simultaneous conditions, *Mill Race Ventures, LLC* elected to use a **Nutrient Separating Baffle Box [NSBB]**, Model 4-8, for in-line treatment associated with this new retail development. The 24" concrete pipes carry 12.61 cfs during a design full-flow event [10 yr 24 hr]. With an 80% TSS reduction anticipated for flows of 8 cfs or less, nearly all runoff will be significantly improved regardless of storm size or frequency. And, *Mill Race Ventures* had no problems installing this **NSBB** even though the exit pipe was pre-embedded in a concrete retaining wall and at right angles to the inlet pipe. This ability to work with both performance and geometrical mandates is inherent with **NSBBs** as each unit is custom designed and fabricated to location-specific needs.

NSBBs offer performance flexibility - in terms of both quantity of flow which may be treated without by-pass and breadth and effectiveness of contaminant removal. Further, their performance efficiency is possible in small box sizes, making new and retrofit installations simple, fast and relatively non-intrusive to nearby utilities and structures. All units are custom designed, enabling such anomalies as multiple inlet and/or outlet pipes, angled inlet and/or outlet pipes inlets and added contaminant storage capacity which lower maintenance call frequency. Even with this flexibility, **NSBBs** offer economy in terms of capital expense and life-cycle maintenance costs per treated flow rate. In short, **Nutrient Separating Baffle Box** are the logical choice for storm drain system water quality improvement.



NSBB 4-8 unit - inlet pipe not yet installed



Outlet pipe orientation requires slanted skimmer placement

For addition information, visit [our web site](#), contact your *Regional Representative* or visit

[Suntree Technologies, Inc.'s web site](#), manufacturer of the **Nutrient Separating Baffle Box** system.



PRICEANDCOMPANY.COM

*Trademark of Price and Company, Inc.

Metro Grand Rapids, MI
425 36th Street SW, Wyoming, MI 49548-2108 Toll Free: 800-248-8230

Metro Detroit, MI
29165 Wall Street, Wixom, MI 48393-3525 Toll Free: 866-960-4300