

CASE FILE



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SITE CIVIL IMPROVEMENT ↔ EROSION CONTROL ↔ SURFACE WATER QUALITY

GeoPro® Learning Tool

September 26, 2008

Valhalla Park [Delhi Depot], Delhi Township, MI

Nutrient Separating Baffle Box reduces nutrient & bacteriological loadings

to achieve improvement -
one must deploy alternative approaches

Such is the performance intent for the storm drain water treatment system installed at Valhalla Park. Rather than utilize a conventional 'first-flush' approach, C2AE focused on implementing a system which could function for all flows anticipated within this new storm drain. In addition, the selected design set out to reduce the **contaminant loadings** generated by traditional approaches.

The first step taken to accomplish these goals included the selection of a **Nutrient Separating Baffle Box [NSBB]**, Model 6-12. This unit provides gross contaminant treatment for flows of up to 46 cfs, with an 80% TSS reduction for flow rates of up to 24 cfs. Since NSBBs uniquely separate most of the light organic matter and litter from the water using a ramped screen system, which enables storage of these contaminants above the static water line between events, subsequent storm flushes cause far less bacteriological, nutrient, BOD and COD loads from entering receiving waters.

This same approach in reducing or eliminating 'wet sump' storage carried over to the storm drain pipe and structure components as well. **The Valhalla Park system is designed without sumps.** Since each sump eliminated reduces the volume of anaerobic digestion by a minimum of nearly one cubic yard, significant reductions in storm drain generated contaminants results. And the efficiency of maintaining the storm system is greatly enhanced via the need to set up and remove collected contaminants at a single location [NSBB] rather than at the multitude of sump locations.

This fresh approach to storm drain water quality was installed by *ET MacKenzie Company*.



Bottom unit delivered to site with internal components installed



NSBB completed - ready for pipe installation & backfilling

For addition information, visit our [web site](#), contact your *Regional Representative* or visit the [manufacturer's web site](#).



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