



**US Army Corps
of Engineers®**

Rouge River – Wayne Road, Michigan

Great Lakes Tributary Model Program (Section 516e, WRDA 96)

Project Location: The Rouge River watershed is 438 mi² and drains through a federally-maintained deep-draft navigation channel before discharging to the Detroit River, in the City of Detroit, Michigan.

Project Description: The low-head dam at Wayne Road in Wayne, MI has been identified by the Michigan DNR as adversely affecting the Rouge River fishery by prohibiting fish passage. Removal of the dam would help to reconnect the Rouge River Area of Concern to the Detroit River and Lake Erie ecosystem. As such, there is great local interest in removing this dam. However, there is concern that removing the dam will mobilize impounded sediment and cause biotic impairment to the downstream reaches and furthermore increase dredging requirements in the downstream federal channel.

Project Benefits: The Corps performed a geomorphic assessment of the Rouge River both upstream and downstream of the Wayne Road dam. This assessment may be used to calculate the volume of sediment stored in the impoundment and the aerial extent of this sediment. The post-dam change in hydraulic gradient was determined and sediment entrainment calculations were performed to determine the mobility of the impounded sediment.

Status: A detailed scoping report was approved in July, 2009. Collection of geomorphic data and the final report have been completed.

Schedule:

Milestone	Date
Complete scoping report	Jul 2009
Complete tool development	Mar 2011
Training workshop	Mar 2011

Project Costs:

Estimated Project Costs	
Federal – E&W	\$27,483
Federal – GLRI	\$0
Total	\$27,483

Project Partners: Wayne County Department of Environment, Wayne County Parks and Recreation Department, Friends of the Rouge.

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