

# **Ottawa River Restoration Project at the University of Toledo**

## **Construction (July 29<sup>th</sup> – August 13, 2013)**

**Funded by Ohio EPA 319 Program and USFWS (GLRI)**

**Design by ACOE Buffalo and Dave Derrick (ACOE)**

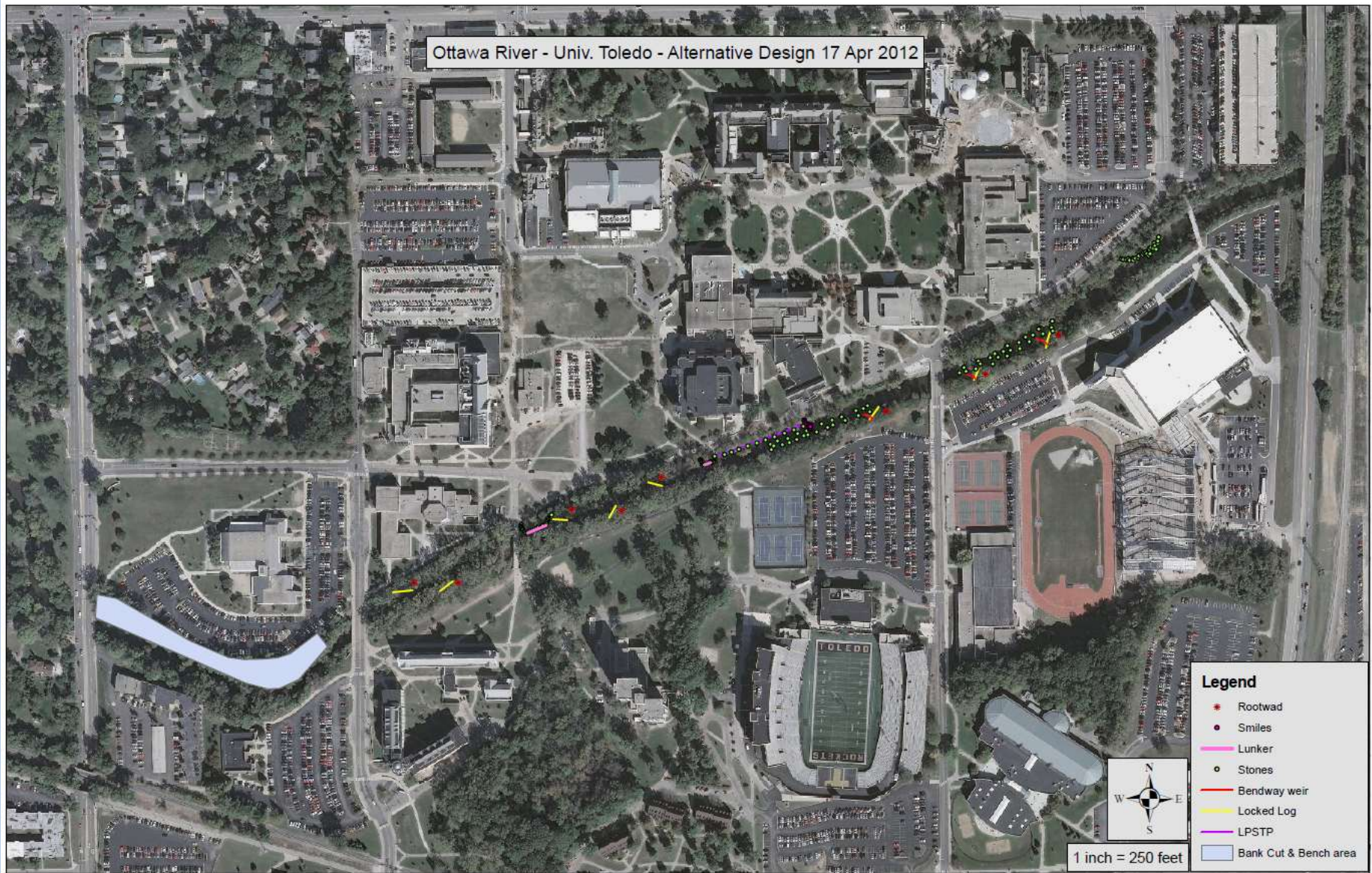
**Project Management: Patrick Lawrence (University of Toledo), Matt Horvat (TMACOG)**

**Contractor: Dave Hails (Ecological Restoration Inc.)**





# Design Plan





# Mobilization









# Locked Logs (Reach 2)











# LUNKERS #1 (Reach 3)



























# Locked Log #1 (Reach 3)









# LUNKERS #2 (Reach 3)

















# Long Log with Hydraulic Cover Stones (Reach 3)













# Longitudinal Peaked Toe Protection (LPTP) with single stone bendway weirs (Reach 4)

































# Hydraulic Cover Stones (Reach 4)

















# Bendway Weir with locked log (Reach 4)













# Bendway Weir with locked log #1 (Reach 5)













# Bendway Weir with locked log #2 (Reach 5)













# Hydraulic Cover Stones (Reach 5)













# Mini Bendway Weir and stepping Stones (Reach 5)

















# Access Path (Reach 5)













# De-Mobilization













# At work.....







U.S. Fish and Wildlife Service  
**Great Lakes  
Restoration Initiative**  
The program provides funding for the development and implementation of projects to restore and enhance the Great Lakes ecosystem. For more information, visit [www.greatlakesrestoration.gov](http://www.greatlakesrestoration.gov)

**University of Toledo  
Ohio River Restoration Project**  
The project aims to restore the Ohio River ecosystem and improve water quality. For more information, visit [www.toledo.edu/ohio-river](http://www.toledo.edu/ohio-river)

**Great Lakes Restoration Initiative  
by Program**  
The Great Lakes Restoration Initiative (GLRI) is a federal program that provides funding for the development and implementation of projects to restore and enhance the Great Lakes ecosystem. For more information, visit [www.greatlakesrestoration.gov](http://www.greatlakesrestoration.gov)

















CAT

602

Reserved  
Hybrid  
Vehicle  
Parking  
Only



Sort of at work....

















# A Visitor





*The End*

**...or is it a new  
beginning?**

