



Clinton River Area of Concern

2016 Area of Concern Annual Meeting

Dearborn, Michigan

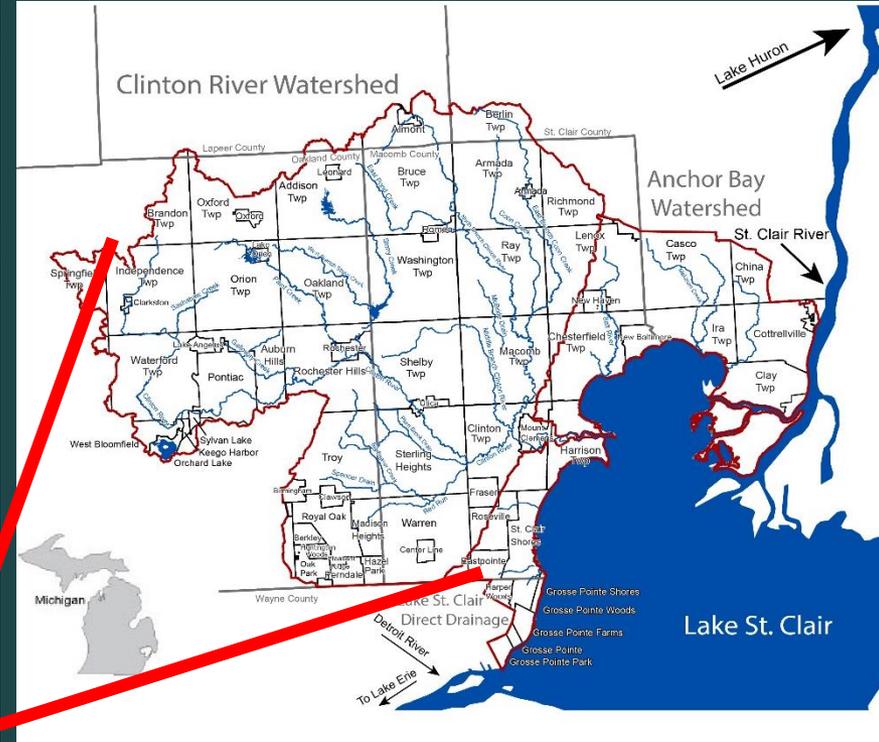
March 3, 2016



Great Lakes
RESTORATION



Clinton River Area of Concern



Clinton River AOC Background

AOC listed in 1988

Public Advisory Council (PAC) formed in 1989

Remedial Action Plans Identified 8 BUI's:

- Restrictions on fish and wildlife consumption
- Eutrophication or undesirable algae
- Degradation of fish and wildlife populations
- Beach closings
- Degradation of aesthetics
- Degradation of benthos
- Restriction on dredging activities
- Loss of fish and wildlife habitat

RAP Implementation Process over the Years

- Original Remedial Action Plans – 1988
- CRPAC meets quarterly over the next 25+ years. Members come and go. Plenty of lulls and years where nothing happened.
- Clinton River Watershed Council – PAC fiduciary/administration 2001
- Updated Remedial Action Plans – 2008
- Stage II Remedial Action Plans updated in 2011
- Delisting Targets for Fish/Wildlife Habitat and Population Beneficial Use Impairments for the Clinton River Area of Concern Addendum – 2015

Management Actions cont'

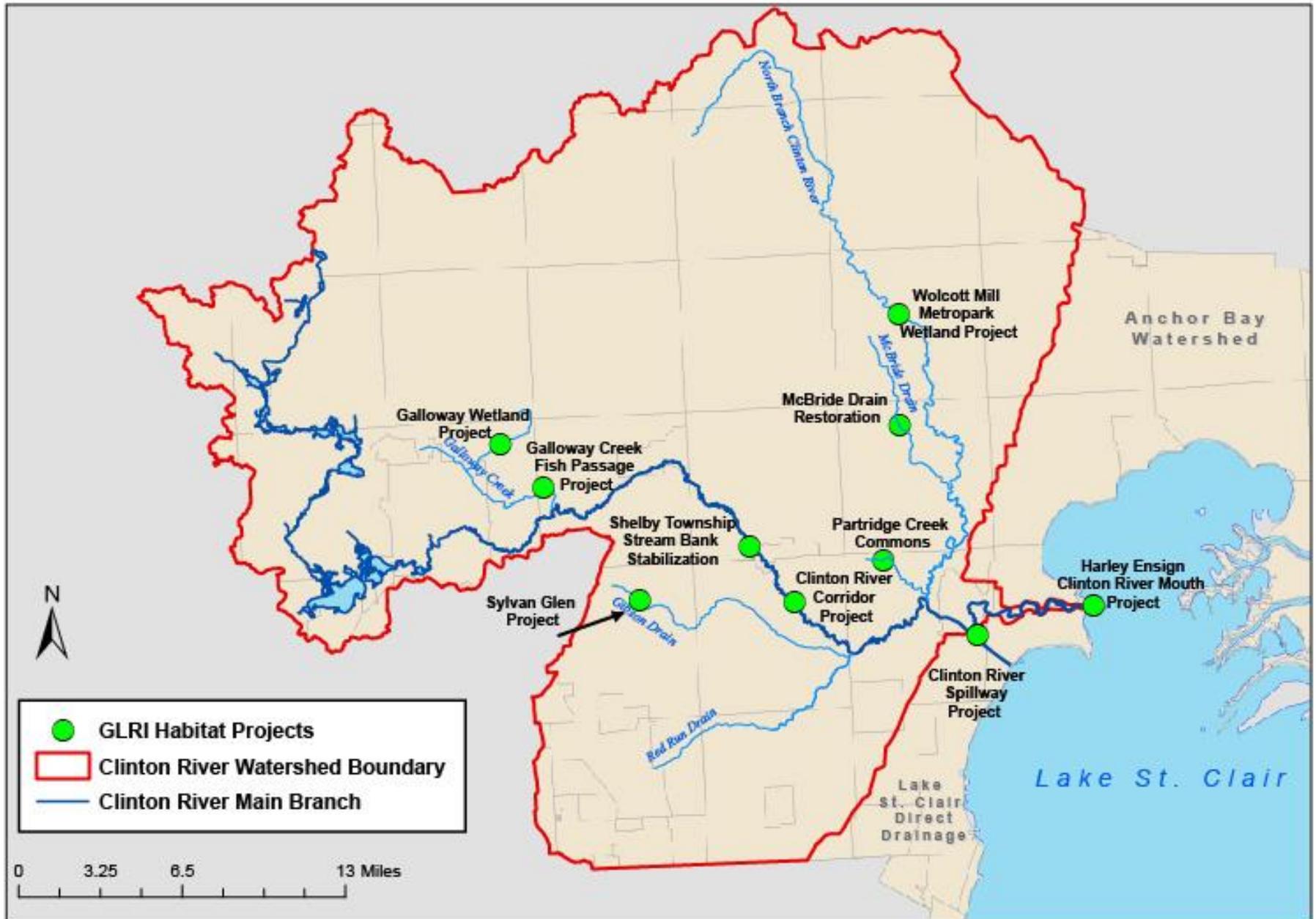
- Original Project list consisted of **100 habitat projects** (2010)
- Next four years whittled down to **17 from a matrix of choices** by the CRPAC Habitat Work Group and the EPA assistance
- Eventual funding of **11 projects** to completed within two year span
- Target 2018 for management actions to be complete

Plan for BUI Removals by 2018

Clinton River AOC BUI Removal Status

Impairment	MDEQ Target Year	Current Status	Comments by Tewkesbury
Beach closings	FY15	Currently drafting BUI removal document; awaiting finalization of revised MDEQ statewide BUI removal criteria for Beach Closings	Currently being drafted; will be given to PAC for review once complete
Eutrophication	FY16	MDEQ sampling and assessing in 2015; BUI is believed to no longer be present	Presence/absence sampling downstream of WWTPs identified in RAP
Fish consumption	FY16	Sampling and assessment in 2015 by MDCH & MDEQ	Sampling data will be compared to that of a non-AOC control site
Dredging	FY 16-17	EPA will be resampling in 2015 due to prior data quality issues; fish tissue sampling completed and being analyzed	Quality assurance issues with previous sampling
Degradation of benthos	FY 16-17	EPA will be resampling in 2015 due to prior data quality issues; Dredging BUI must be removed first	
Degradation of F&W Populations	FY 17	Contingent on implementation of 11 habitat projects in 2015-2016; EPA funding has been approved	
Loss of F&W habitat	FY 17	Contingent on implementation of 11 habitat projects in 2015-2016; EPA funding has been approved	
Aesthetics	FY17-18	EPA currently assessing site for remediation; possible enforcement actions	MDEQ is working with EPA to identify remedial actions

Clinton River Great Lakes Restoration Initiative Projects



Habitat Restoration Work

EPA Committed \$20 million in GLRI direct funding for 11 habitat projects with expected outcomes:

- Projects Metrics:
 - 235 acres of aquatic and terrestrial & habitat restoration
 - 92,000 feet of lineal channel restoration
 - 130 acres of floodplain and wetland restoration
 - 92,000 feet of in-stream habitat restoration
 - 365 tons of sediment loading reduction

AOC Celebration - EPA funding Nov 2015





Thank you