

Tittabawassee River, Saginaw River & Bay Site

Tittabawassee River Floodplain

Mary P. Logan – U.S. EPA

CAG Meeting March 17, 2015



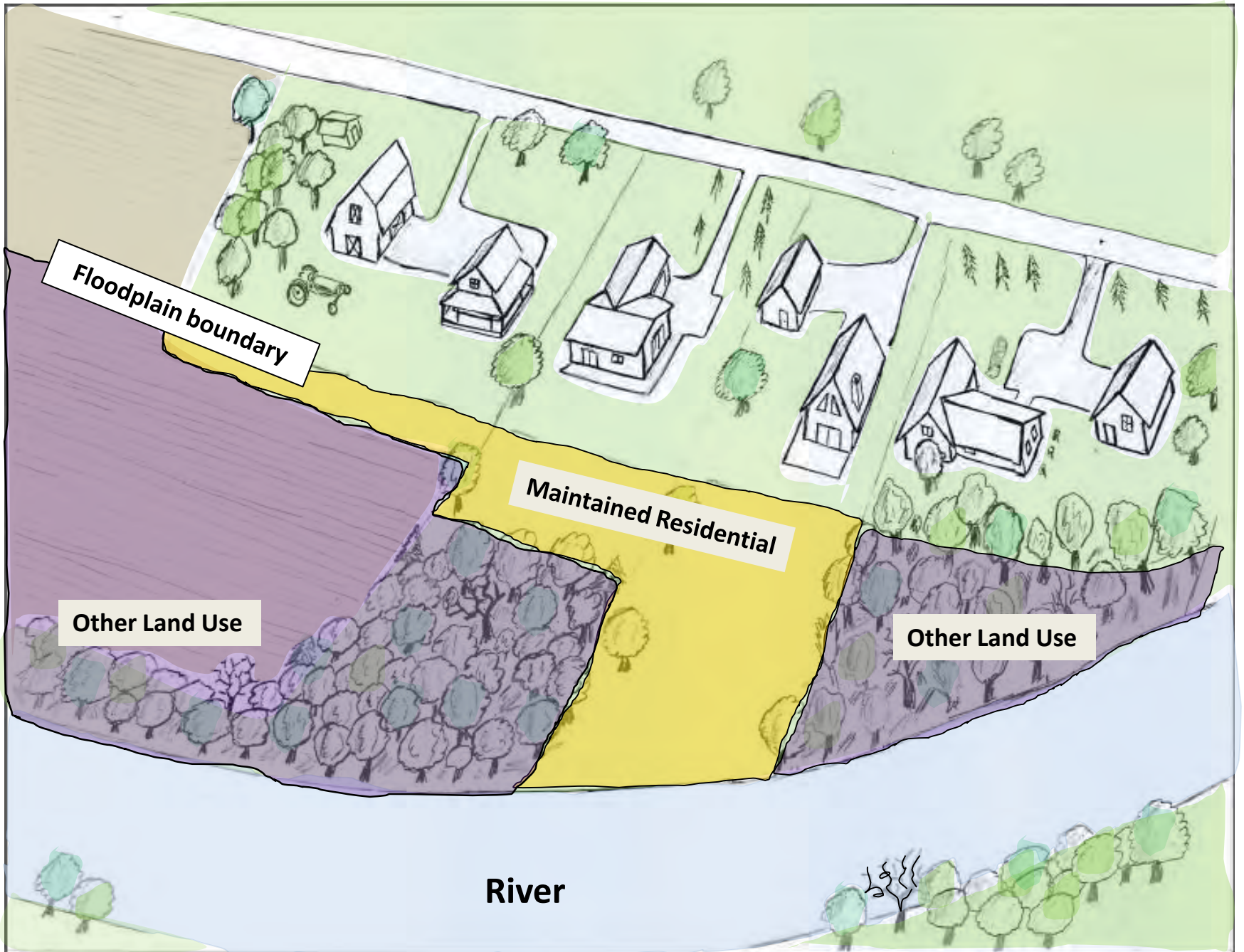
Tittabawassee River 8-Year Floodplain

- Frequently flooded area along the lower 21 miles
- About 4,500 acres in the 8-year floodplain
- Dioxins, primarily furans are the contaminants of concern
 - Distribution is not uniform
- Not all areas will need cleanup



EPA's Selected Cleanup Plan

- Maintained Residential Areas – If dioxin levels are greater than 250 ppt, soil will be dug up and hauled away. Soil will be replaced and grasses and plants restored.
- Other Land Use Areas – If dioxin levels are greater than 2,000 ppt, soil will either be dug up and hauled away or covered with clean materials. EPA will work with each property owner on the right approach.



Public Comments

- Public comment taken by EPA from August 15 through October 14, 2014
- Comments from
 - Eleven individuals
 - Six groups
- Comment categories:
 - Remedy options; basis for action and conceptual site model; Cleanup Numbers; communication; remedy implementation; property use; recontamination and flooding; dioxins and health; specific information requests; and miscellaneous comments

Outcome

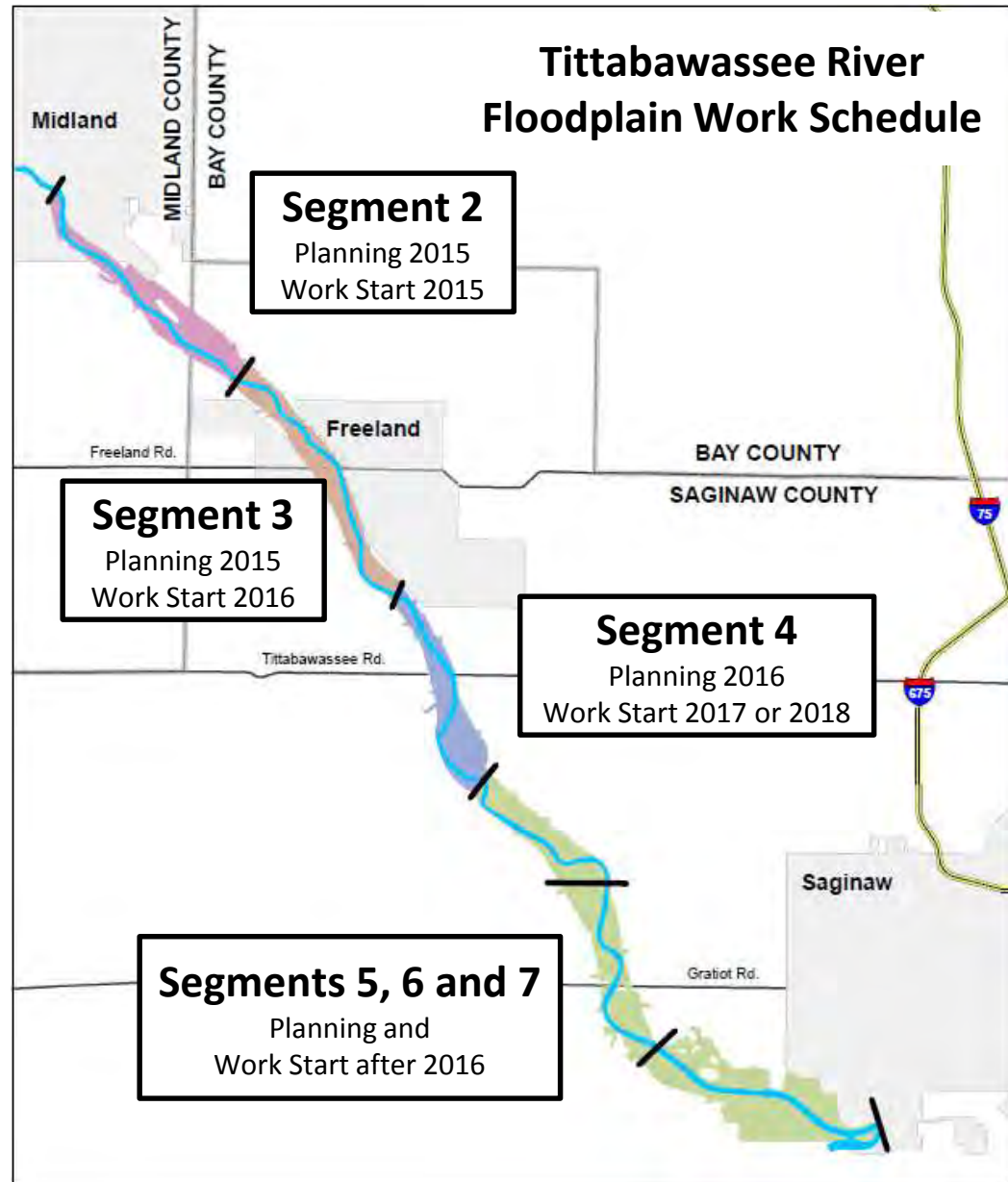
- Cleanup plan (Action Memorandum) finalized January 2015
 - Responsiveness Summary attached to Action Memo
- Change to final plan
 - Some commenters felt that there should be a process for making exceptions to the Cleanup Numbers in ecologically important areas that have little chance of use by the most sensitive human receptors.
 - Therefore, the Action Memo provides flexibility for EPA to conduct a property-specific evaluation, with the possibility that there could be a property-specific cleanup number developed that results in the preservation of habitats and ecosystems of exceptional quality.

Scope of Work

- ~ 4,500 acres along 21 miles
- > 700 property parcels to be evaluated
 - Large parcels may be sub-divided for the assessment
 - > 500 parcels with dwellings
- > 600 owners to work with

Implementation Approach

- Floodplain work will be up-to-downstream, segment-by-segment
- Work to start adjacent to Segment 2
- Each floodplain segment cleanup expected to take 1 – 2 years
 - In-channel and bank work done concurrently



Implementation Approach (cont.)

- Property-by-property evaluations will be done to determine if cleanup is needed
 - Focus on the 8-year floodplain
 - Dioxin levels compared to cleanup goal
 - Only a portion of the property may need work
- If cleanup is needed, owners will have input on property-specific plans and schedules

Planning

- General Design and Implementation Work Plan
 - Describes how specific property parcels requiring work will be identified
 - Describes general details on how work will be done
- Segment Work Plan
 - Details on the application of the General Design and Implementation Work Plan for that segment
- Property-specific design plans

Additional Elements

- Post-Cleanup Site Control Plans:
 - Monitoring plan to ensure that future land use is consistent with the site-specific cleanup number(s)
 - Monitoring plan to assess post-flood conditions and potential recontamination
 - Monitoring and maintenance plan for Site areas with clean covers
 - Tracking refusals
- Development/ implementation of an Institutional Control Implementation and Assurance Plan
- Outreach/ communication

Projected Schedule

Project Area	2013	2014	2015	2016
Segment 1	Remobilize to finish field work			
Segment 2	Propose cleanup plan to public Finalize cleanup plan	First season of in-channel and bank work	Remobilize to finish bank work	
Tittabawassee River Floodplain	Engage floodplain stakeholders regarding cleanup options & tradeoffs Develop cleanup plan	Propose cleanup plan to public Finalize cleanup plan	First season of field work (Along Segment 2)	Second season of field work (Along Segment 3)
Segment 3		Develop cleanup plan	Propose cleanup plan to public Finalize cleanup plan	In-channel and bank work

QUESTIONS?