

Four Lakes Task Force

Gladwin and Midland Counties' Delegated Authority
of the Four Lakes Special Assessment District

MBOR Presentation

Kayla Stryker, FLTF Treasurer

March 10, 2023



Four Lakes Task Force

Agenda

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- General Information
- 2020-2022 Progress and Funding
- Lake by Lake Updates
- Timeline



History of the Lakes

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1923 |

Dams were built primarily for hydropower, with lake recreation easement rights to property owner

1976-2018 |

FERC assumed regulatory authority of the dams by the 1990s; by 2018 FERC proposed Edenville license be revoked

2018-2020 |

Part 307 Legal Lake established & an agreement with Boyce Hydro to acquire the dams – which did not proceed

May 2020-2022 |

A significant recovery effort to take the dams & stabilize shoreline & dams. Study begun for engineering a construction plan

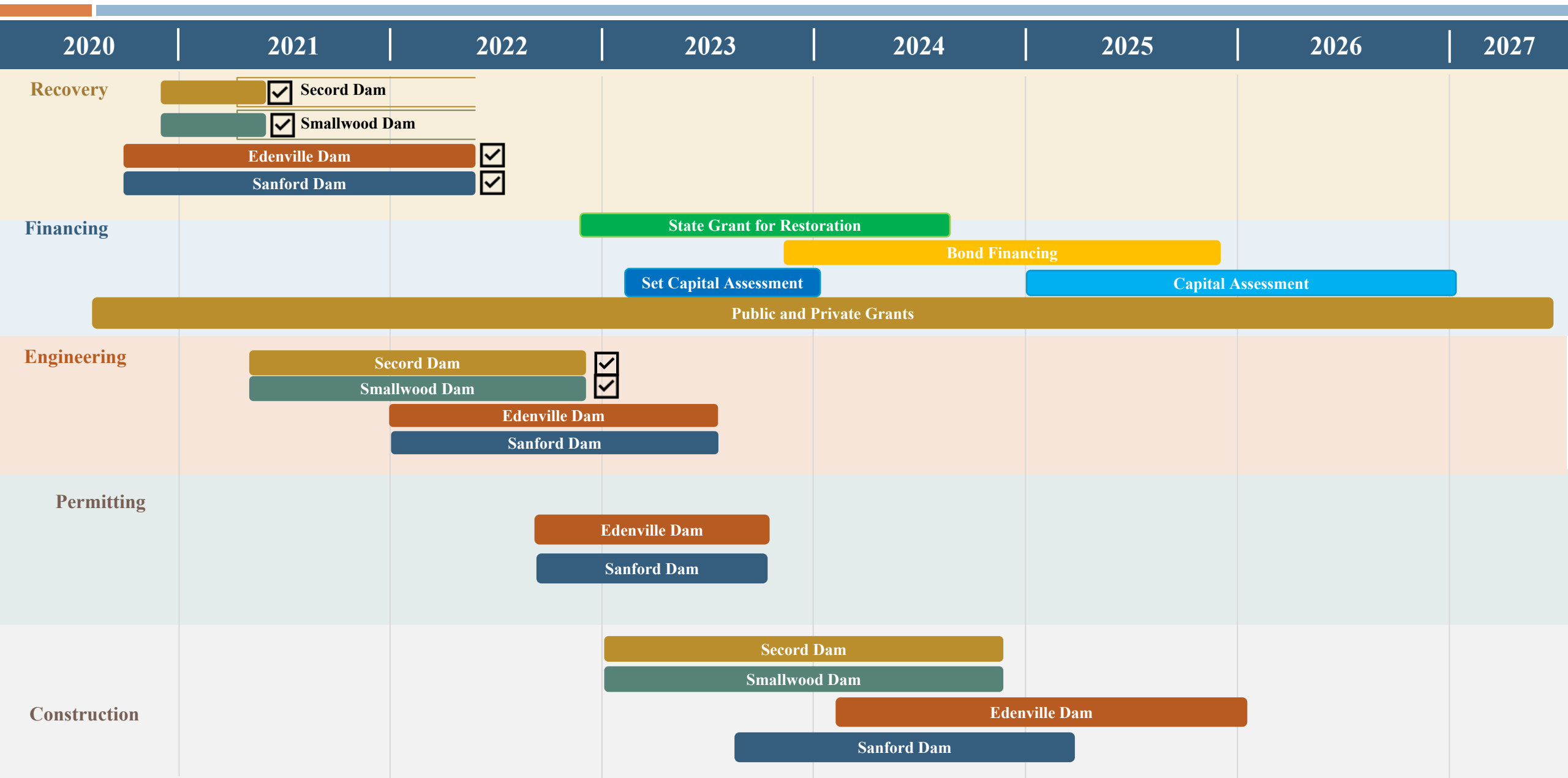
2022-2026 |

Dam and lake repair and restoration phase

 Four Lakes Future |

Primarily for recreation, “Run of the river”

Dam Restoration Timeline



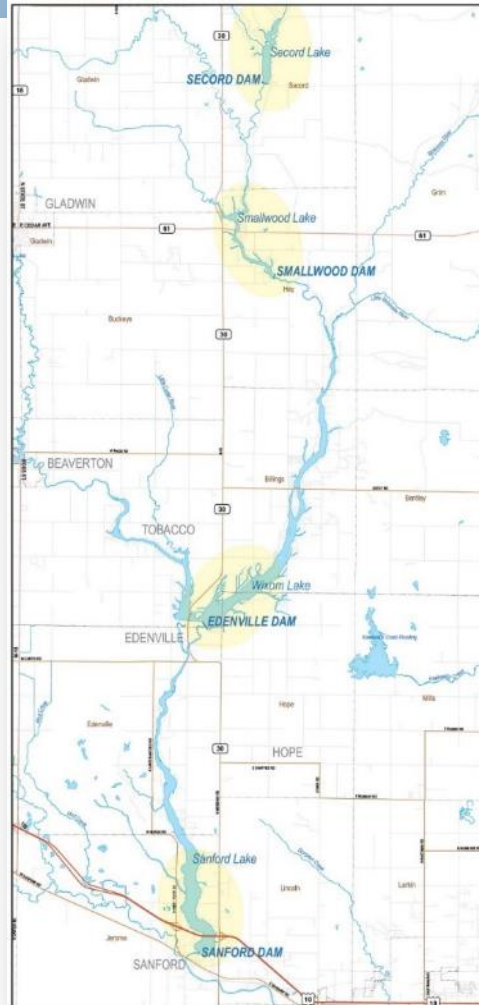
About Four Lakes Task Force

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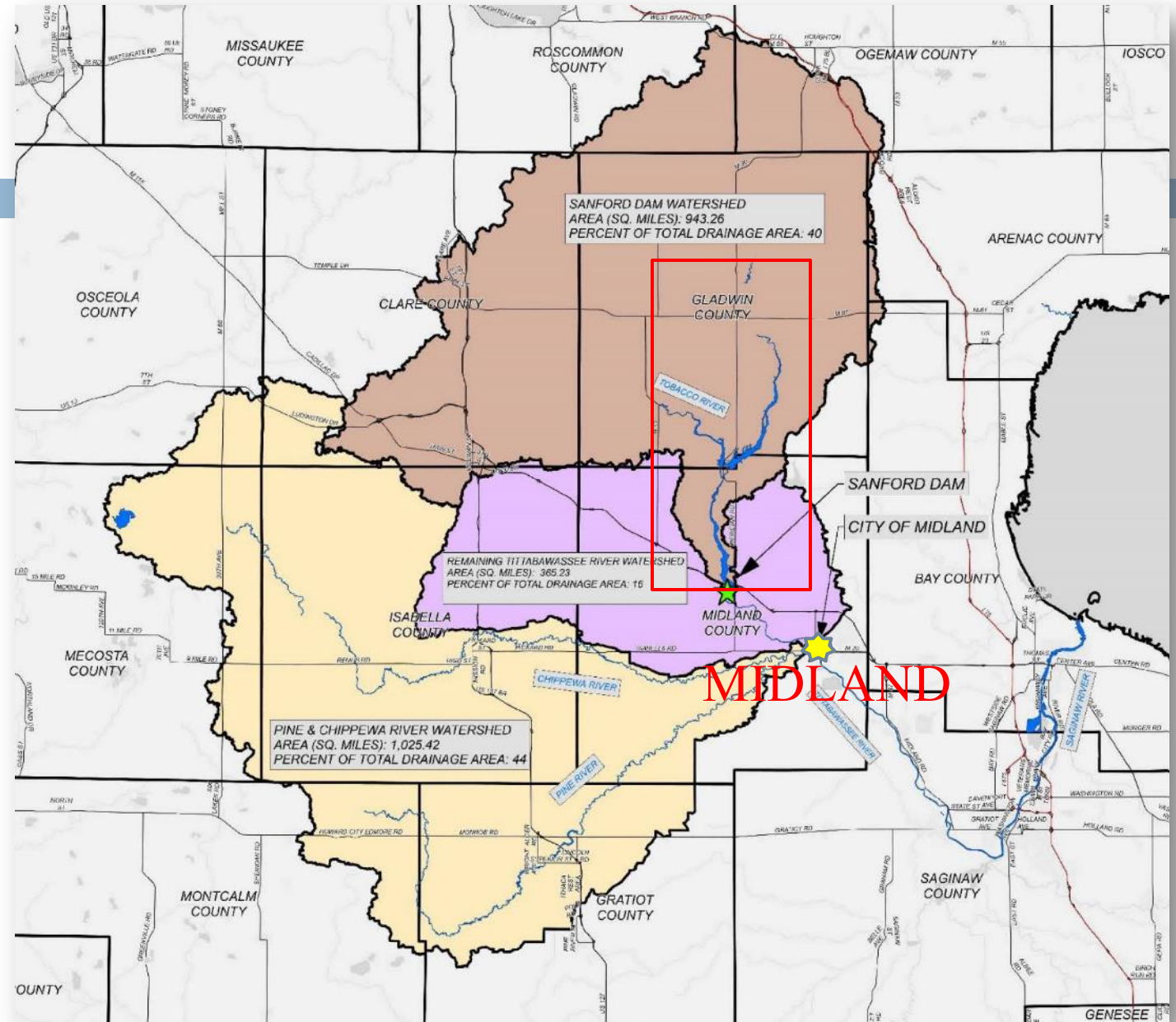
- A 501(c)(3) nonprofit organization led by volunteer lake residents
- The “Delegated Authority” for Midland and Gladwin counties to restore and oversee the maintenance and operations of Secord, Smallwood, Wixom and Sanford lakes and their dams
- Formed in 2018 by representatives from the Lake Associations with a goal to transition the four hydroelectric dams from private ownership to public ownership
- Governed by Part 307 “Inland Lakes Levels” of the Michigan Natural Resources and Environmental Protection Act
 - The purpose of Part 307 is to provide for the control and maintenance of inland lake levels for the benefit and welfare of the public
 - A delegated authority is assigned by the counties to provide for and maintain the lakes
 - Part 307 allows counties to make policy decisions as to the levels of their inland lakes, and to finance, build and maintain dams as necessary
- Focus of reconstruction is DAM SAFETY
- Project Team:
 - Spicer Group – Program Manager / Construction / Permitting
 - GEI Consultants – Dam Safety / Design
 - Merjent / Streamside – Environmental
 - Ayres Associates – Hydrology
 - AECOM – Third Party Review



City of Midland is at the Base of Three Major Rivers



The Four
Lakes



The Watershed

2020 – 2022 Progress and Finance



2020-2022 Recovery Milestones

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- Dam Stabilization- projects on Smallwood, Secord, Edenville and Sanford dams have all been completed resulting in safe and stable structures for the interim period before restoration construction can begin.
- Debris Removal – Sanford Dam Debris Removal, Downstream Debris Removal and Bottomland Debris Removal. On Sanford Lake, 1,044 debris points were removed to-date. On Wixom Lake, 1,307 debris points were removed.



- Shoreline Erosion – FLTF has performed 22 shoreline stabilization projects and 6 culvert stabilization projects. In total, 10,634 feet of shoreline was restored using 48,335 tons of riprap among other materials.

CURTIS ROAD



2020-2022 Restoration Pre-Construction

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- Precipitation and flood modeling and design engineering were completed allowing Secord and Smallwood to acquire all permits and select a contractor
- Edenville and Sanford dams are nearing 100% design engineering and are moving through the permitting process
- Dam and bottomland properties were acquired on behalf of the counties through condemnation
- Hydrology analysis, PMP study, Feasibility study, environmental studies- all completed to allow for permitting and restoration to move forward



FLTF Expenditures and Funding

2020-2022 High Level Interim Expenditures prior to Construction						
	State of Michigan	Federal	Private Donations	Homeowner Share	SAD	Total Expenditure
Recovery	\$ 12,146,317	\$ 19,899,473		\$ 691,880		\$ 32,737,670
Preconstruction Restoration	\$ 20,616,737		\$ 1,368,486			\$ 21,985,222
O&M	\$ 855,211		\$ 875,812		\$ 1,399,810	\$ 3,130,834
Total Spent on interim by source	\$ 33,618,265	\$ 19,899,473	\$ 2,244,298	\$ 691,880	\$ 1,399,810	\$ 57,853,726

Funding Sources - post May 2020	
State of Michigan	
SOM \$15M Interim	\$ 15,000,000.00
SOM \$2.5M Interim	\$ 2,500,000.00
EGLE Funds	\$ 3,000,000.00
\$10M Interim	\$ 10,000,000.00
\$190M Restoration	\$ 190,000,000.00
USDA NRCS	
EWP Grants	\$ 19,899,473.10
MEDC Grant, Private Donations	
FLTF was granted \$5M from MEDC in 2019 that was expended on costs related to the FLTF project through May 2020, at which point all funds were expended and FLTF began to use private donations, SOM grants and NRCS funds.	

- \$5.5M was set aside for recovery and \$25M was set aside for preconstruction restoration expenditures
- Expenditures to date are ~\$3M over that allowance, with \$3.5M in addition budgeted in 2023
- This reduces the funds that are available to apply to restoration construction by ~\$6.5M
- Detailed cost estimates and assessment updates will be provided in April 2023

Lake by Lake



Secord

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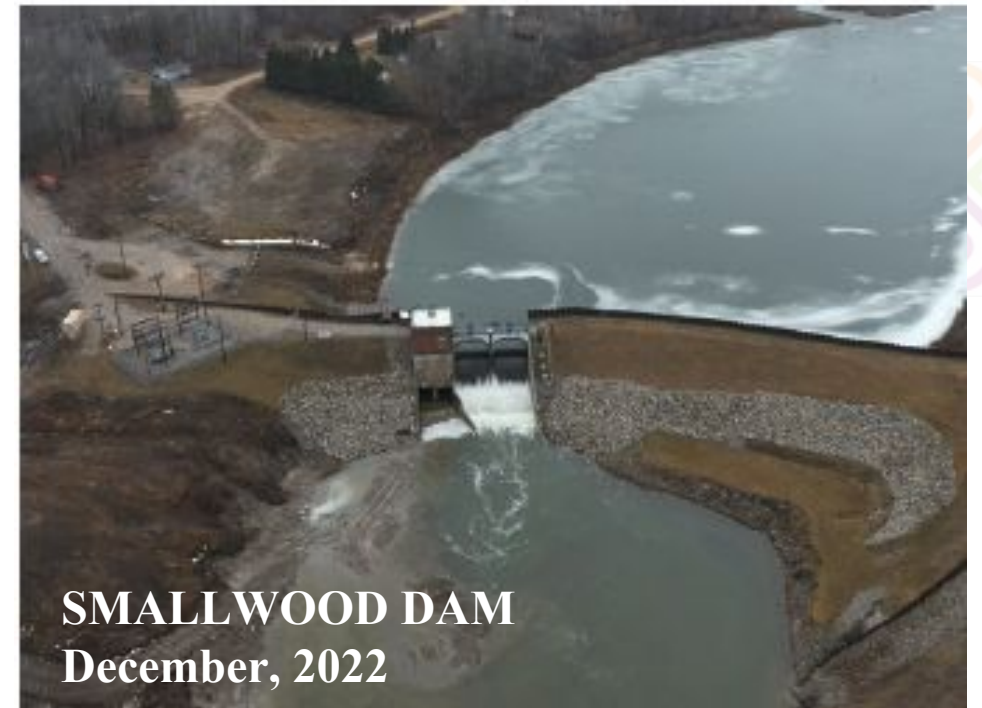
- Dam has been stabilized
- Permit has been issued
- Pull-ahead projects in progress
- Restoration construction starting this month
- Construction completed 2024



Smallwood

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- Dam has been stabilized
- Permit has been issued
- Pull-ahead projects in progress
- Restoration construction starting this month
- Construction completed 2024



Wixom

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- Dam Stabilization completed
 - Sediment plug removed from river
 - Flow restored to natural stream
- Permitting is in process
- Projects are out for construction bid
- Pull-ahead projects identified
- Construction completed 2026

EDENVILLE DAM
May 21, 2020



MAJOR ACCOMPLISHMENT

October 28, 2021 | Tittabawassee River once again flows in its original path through the Edenville Dam



Sediment Plug Removal – Edenville Dam

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Sanford

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- Dam Stabilization completed
 - Sheet pile into embankment
 - Flow restored to natural stream
- Permitting is in process
- Projects are out for construction bids
 - Pull-ahead projects identified
- Construction completed 2026

