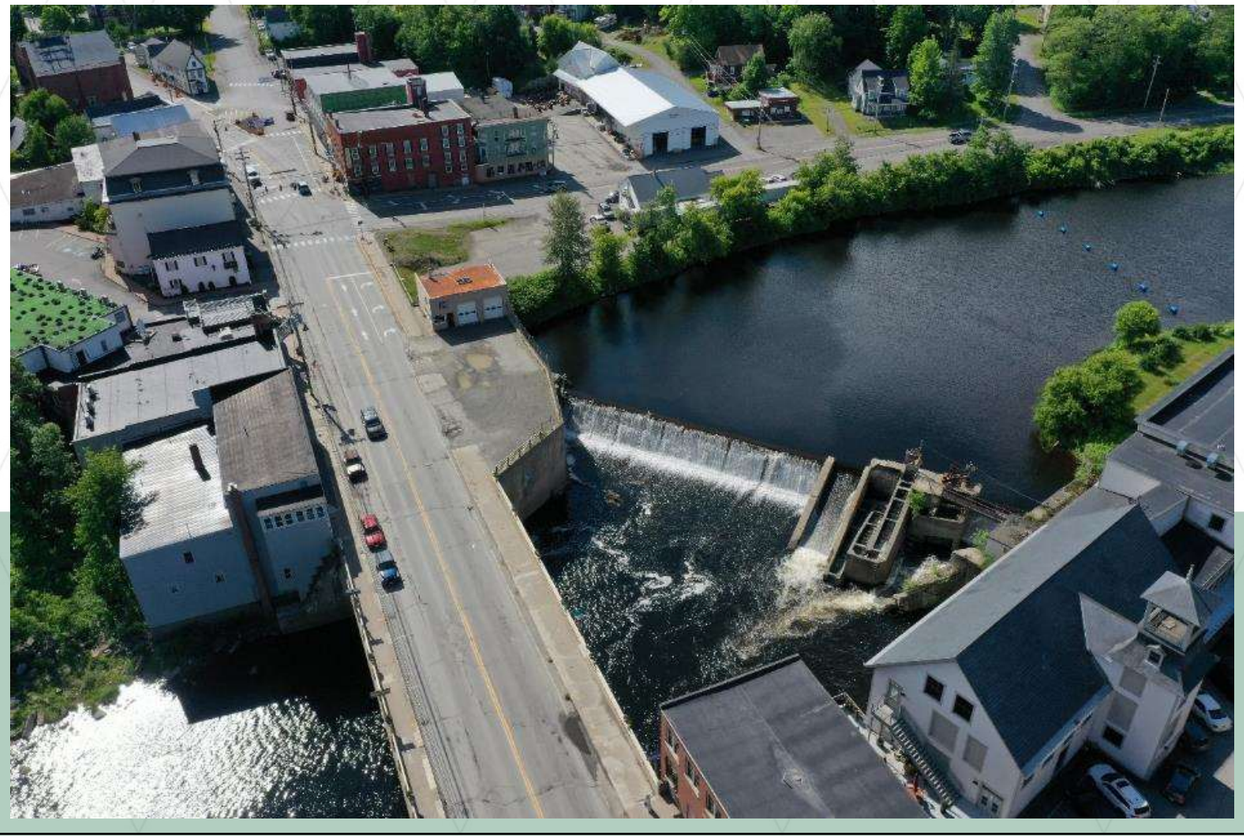
Mayo Mill Dam and Appurtenant Facilities Feasibility & Alternatives Study

for the Town of Dover-Foxcroft

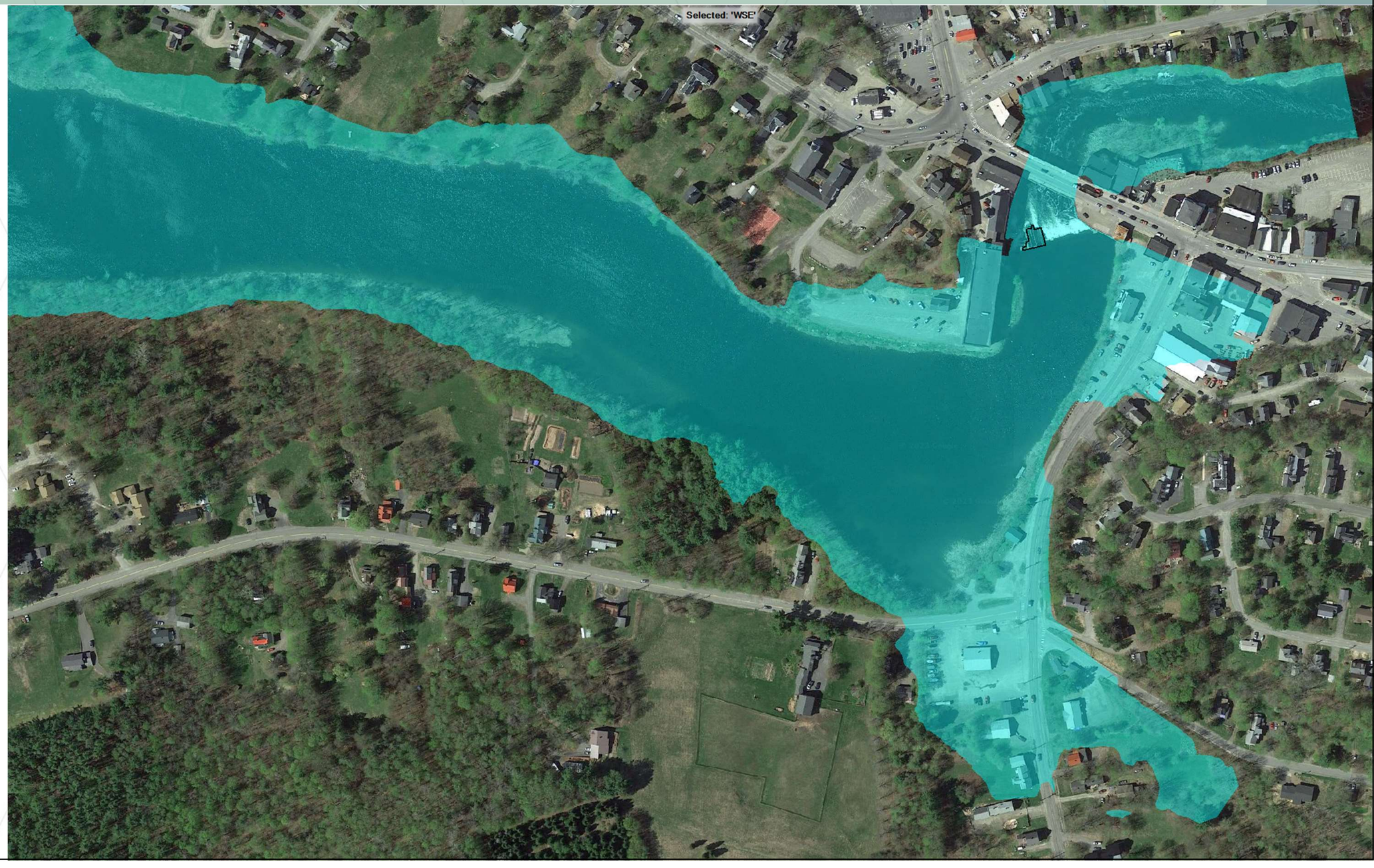
Presentation Overview:

- Flood Reduction Benefits – 10 min
  - Dam Modification Alternatives
  - Nature-like Fishway Alternatives
  - Dam Removal



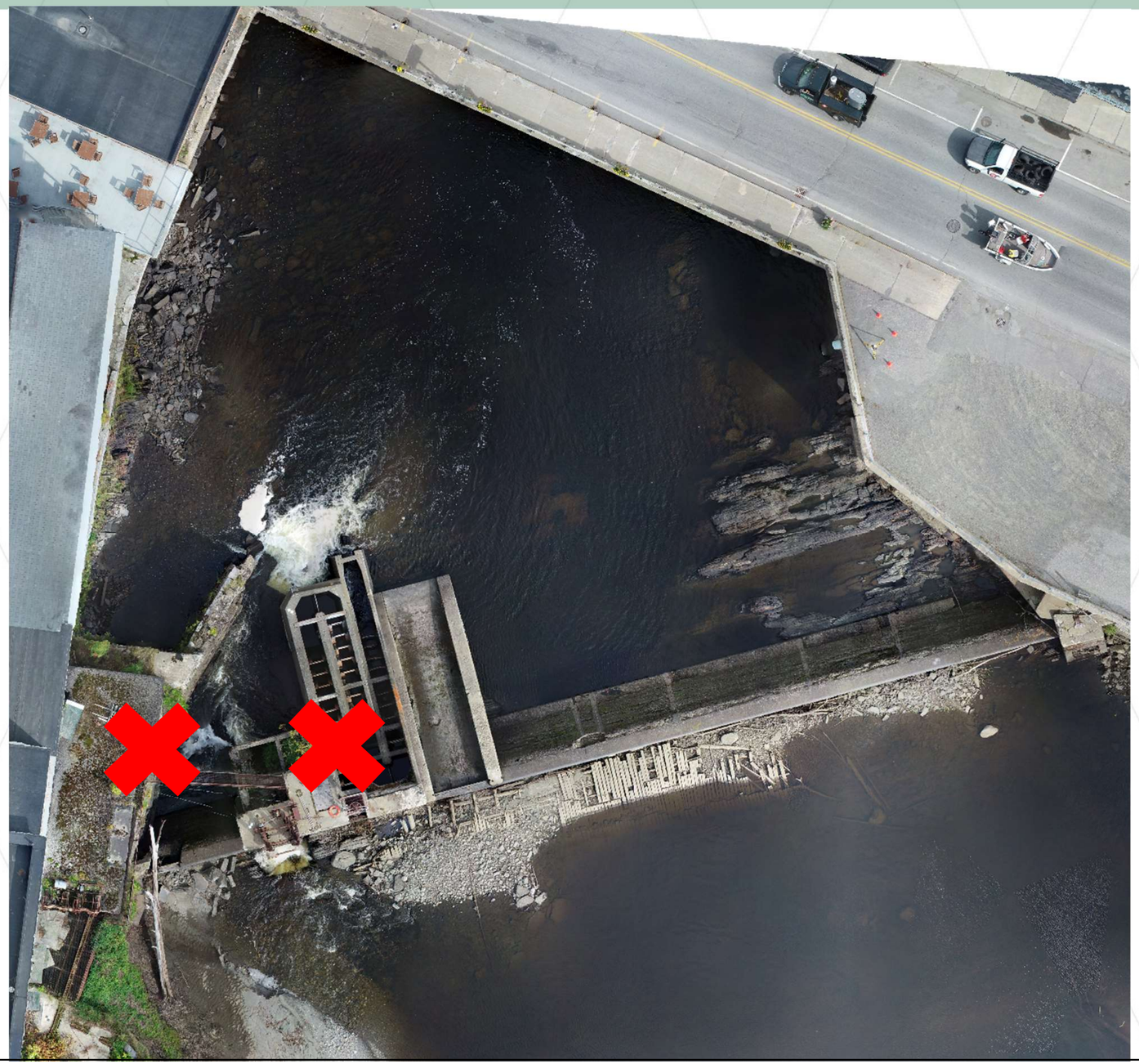
Funding for the report is provided by
NOAA Fisheries through the
Infrastructure and Investment Jobs Act.

100-Year Event Scenarios



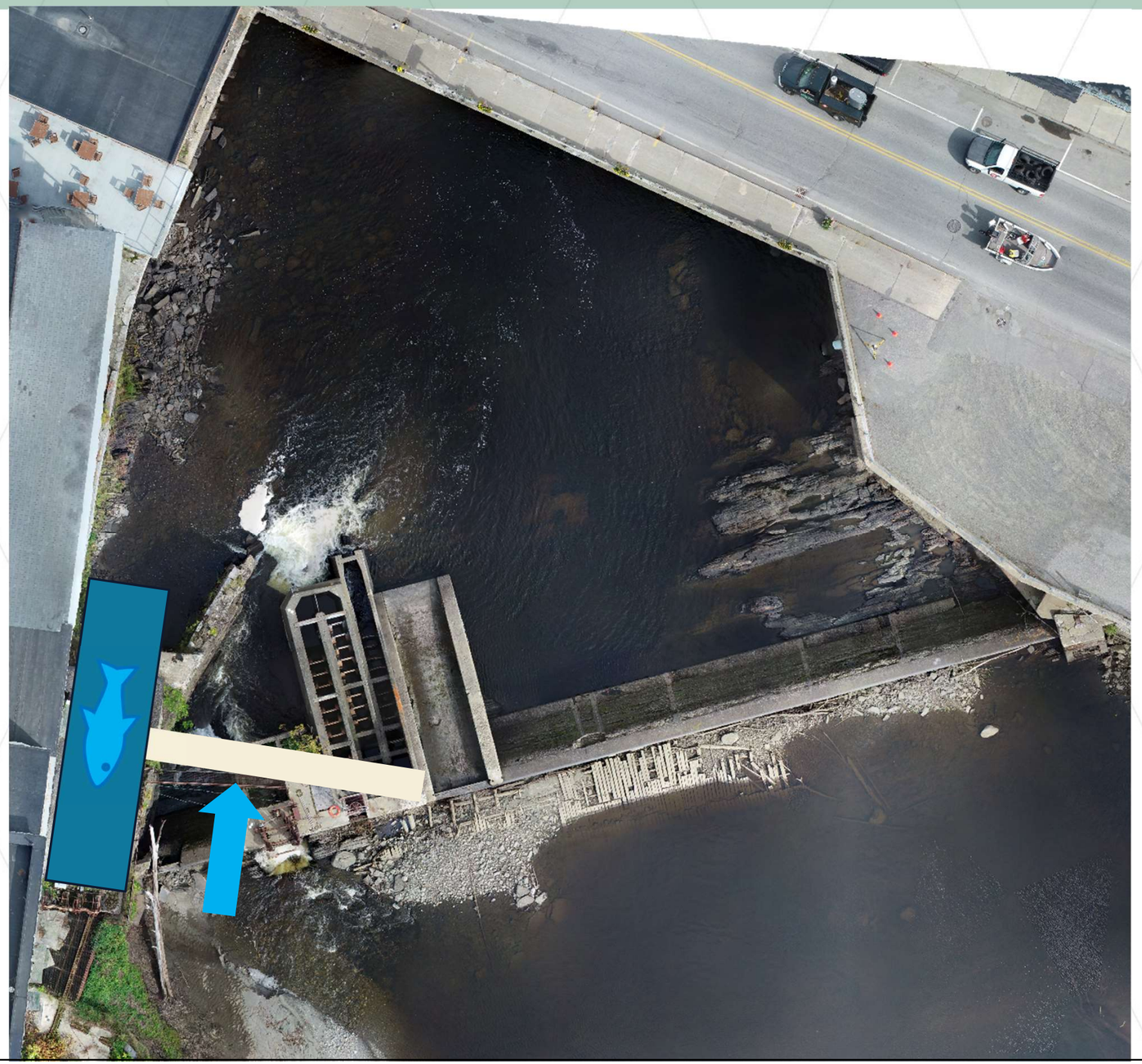
Existing Condition

100-Year Event Scenarios – Lower Levels at Dam



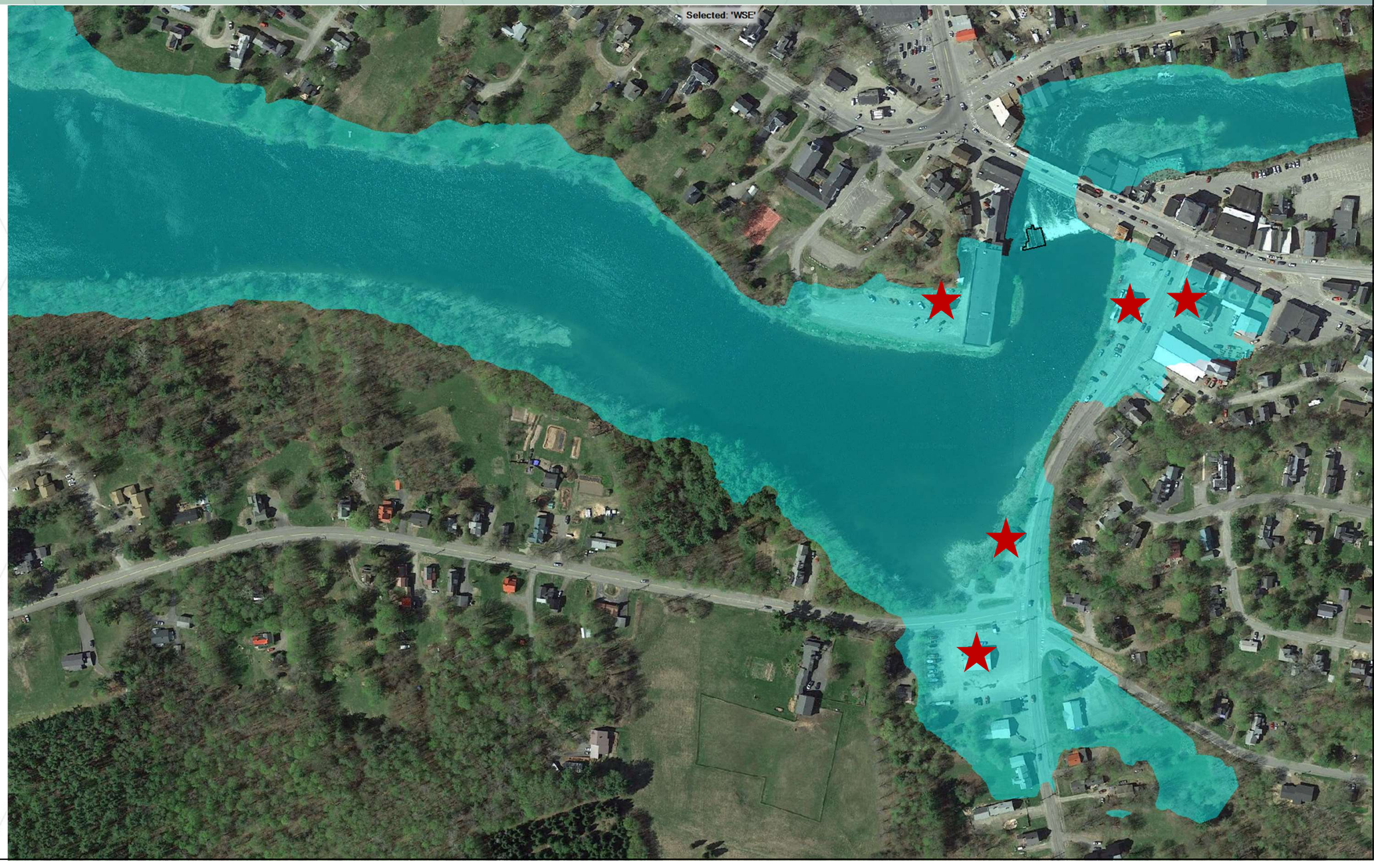
Dam Modification

100-Year Event Scenarios – Lower Levels at Dam



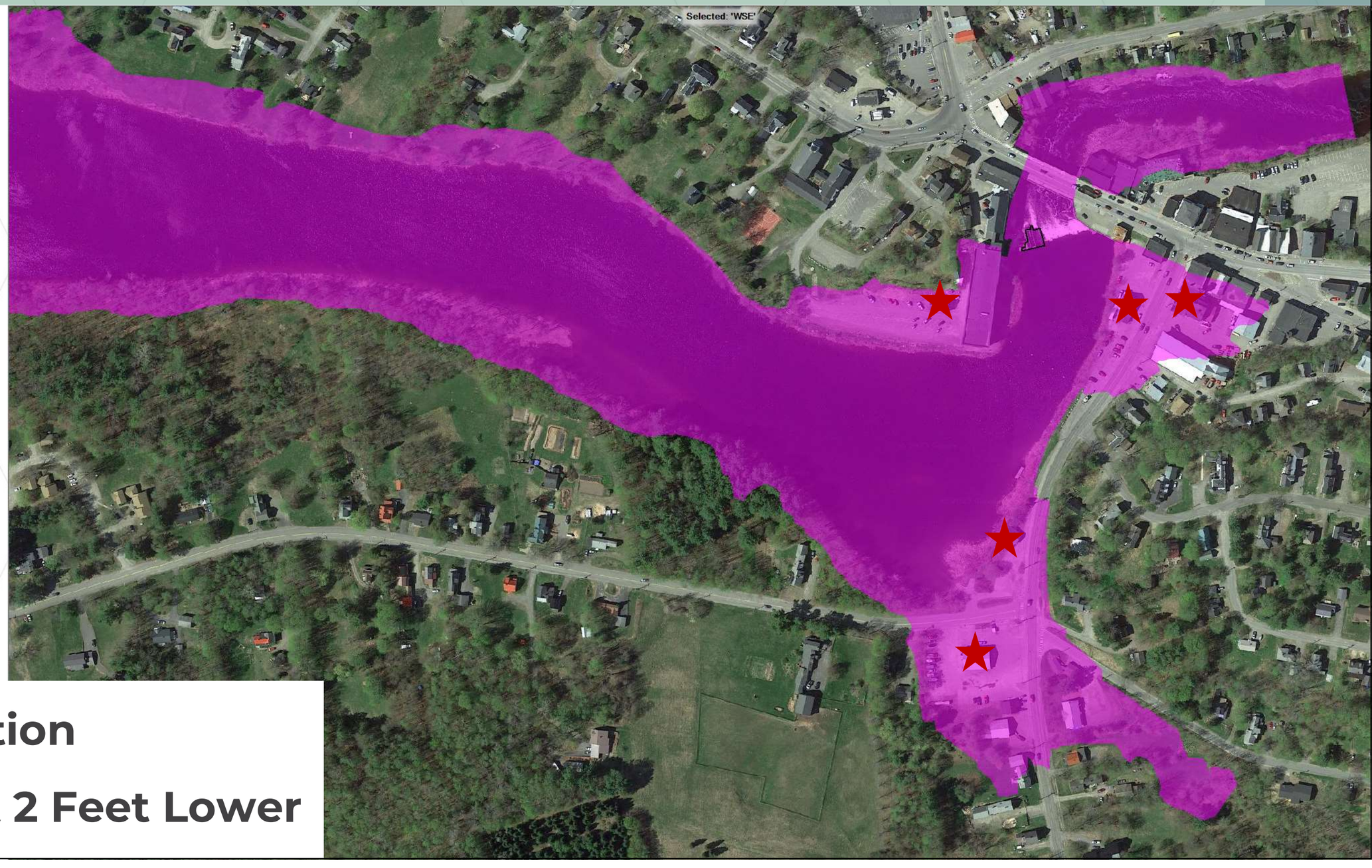
Dam Modification

100-Year Event Scenarios



Existing Condition

100-Year Event Scenarios – Lower Levels at Dam



Dam Modification

Impoundment 2 Feet Lower

100-Year Event Scenarios – Lower Levels at Dam

Dam Modification

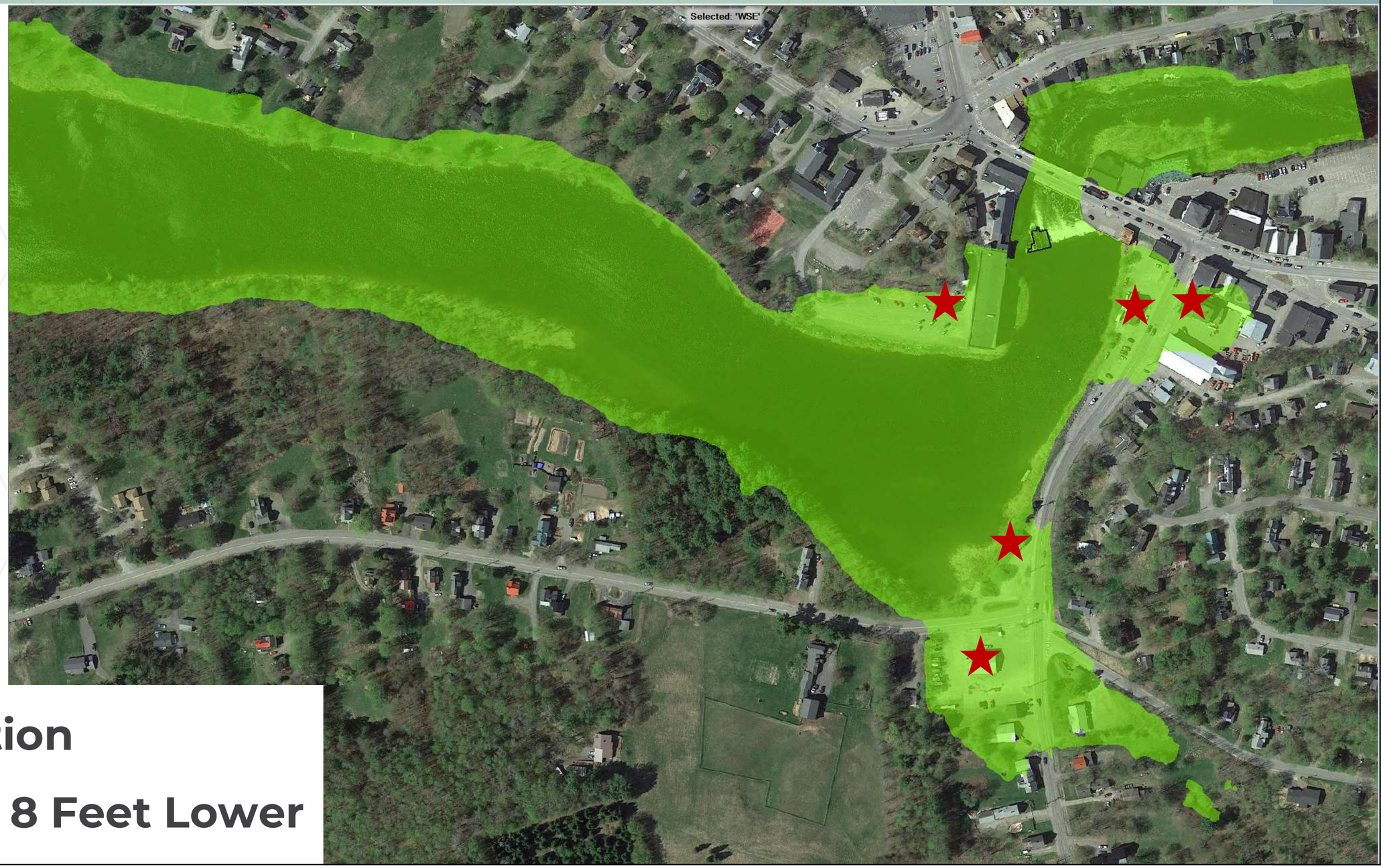
Impoundment 4 Feet Lower

100-Year Event Scenarios – Lower Levels at Dam

Dam Modification

Impoundment 6 Feet Lower

100-Year Event Scenarios – Lower Levels at Dam

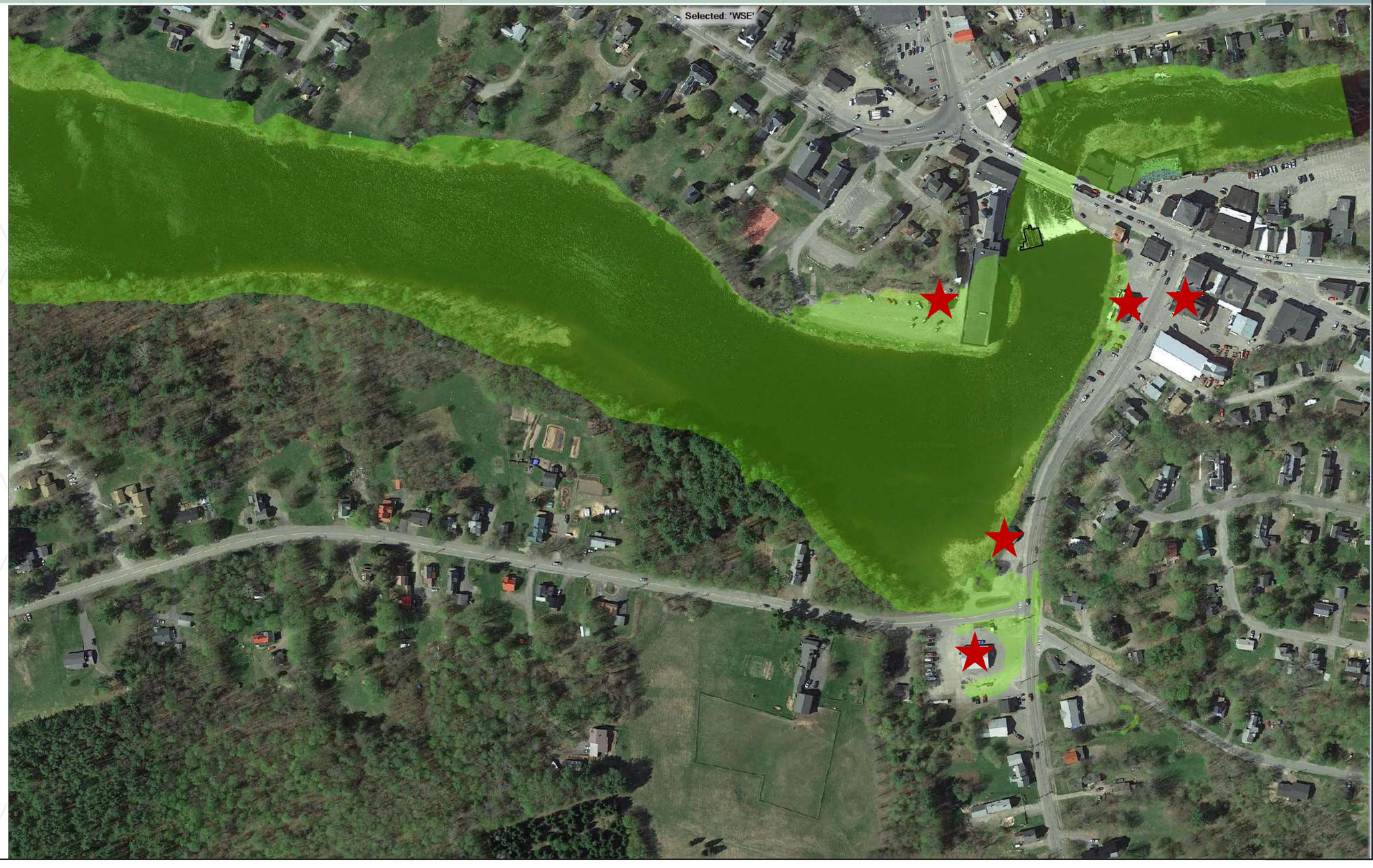


Dam Modification

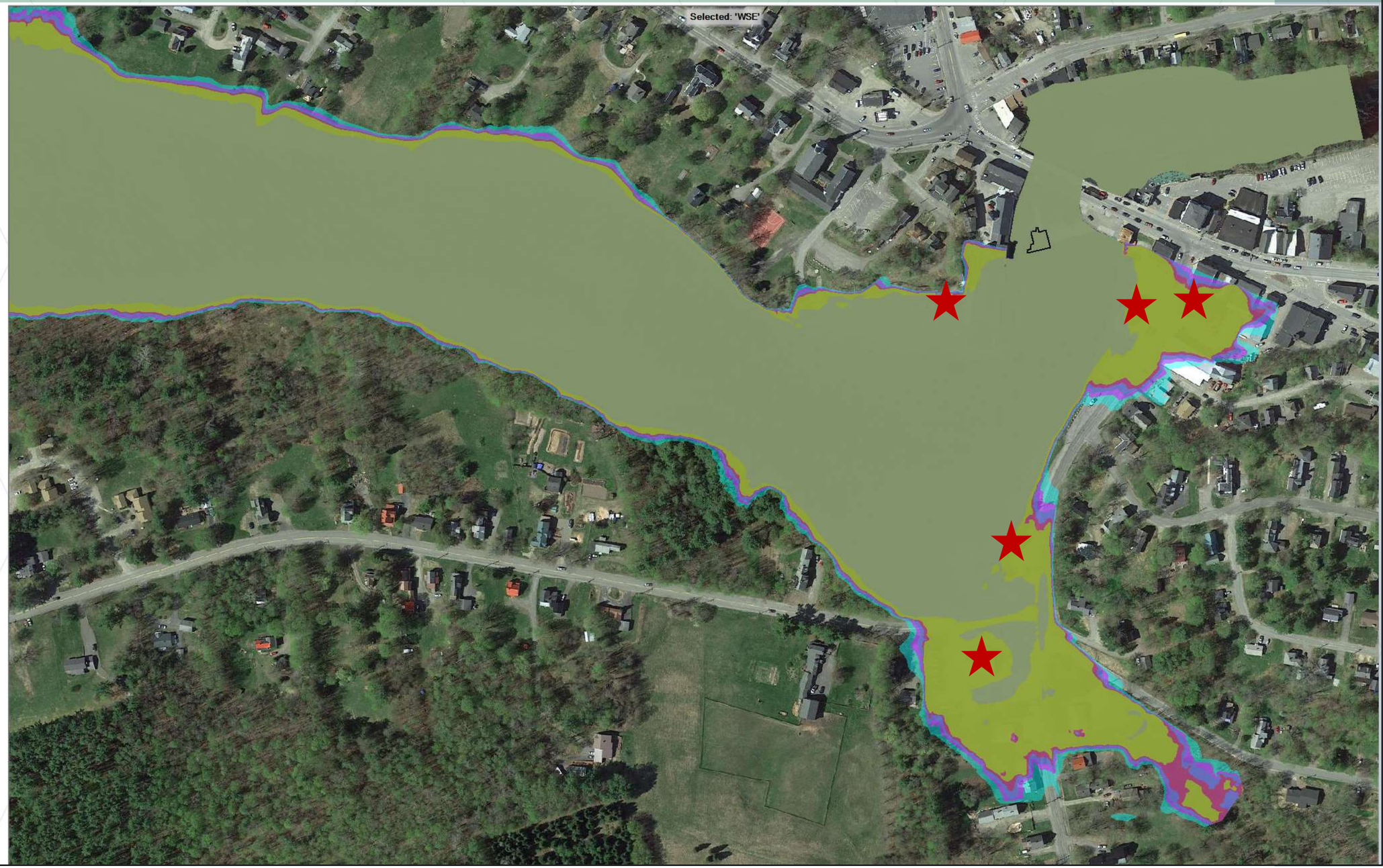
Impoundment 8 Feet Lower

100-Year Event Scenarios – Lower Levels at Dam

Dam Removal

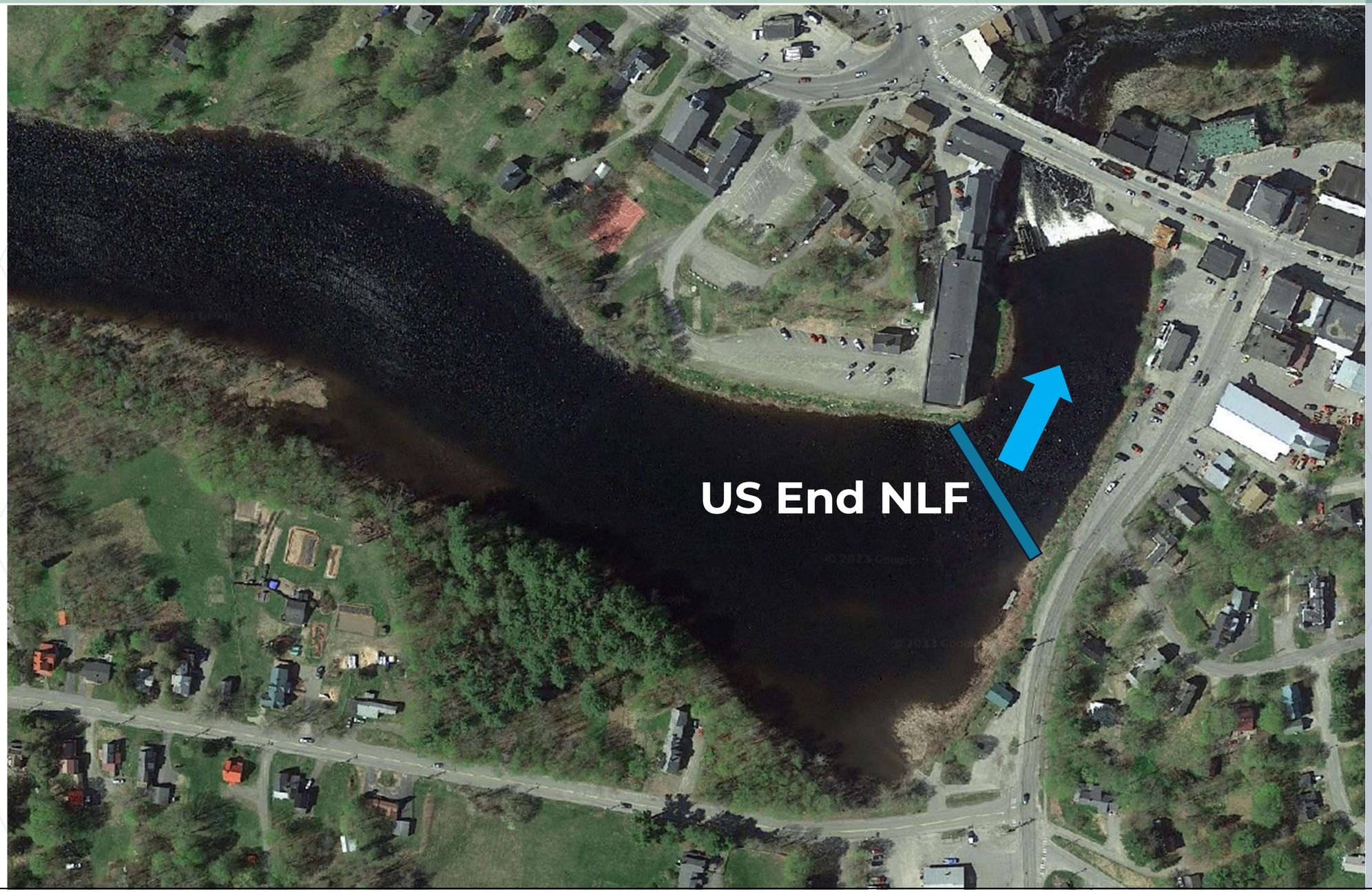


100-Year Event Scenarios – Lower Levels at Dam



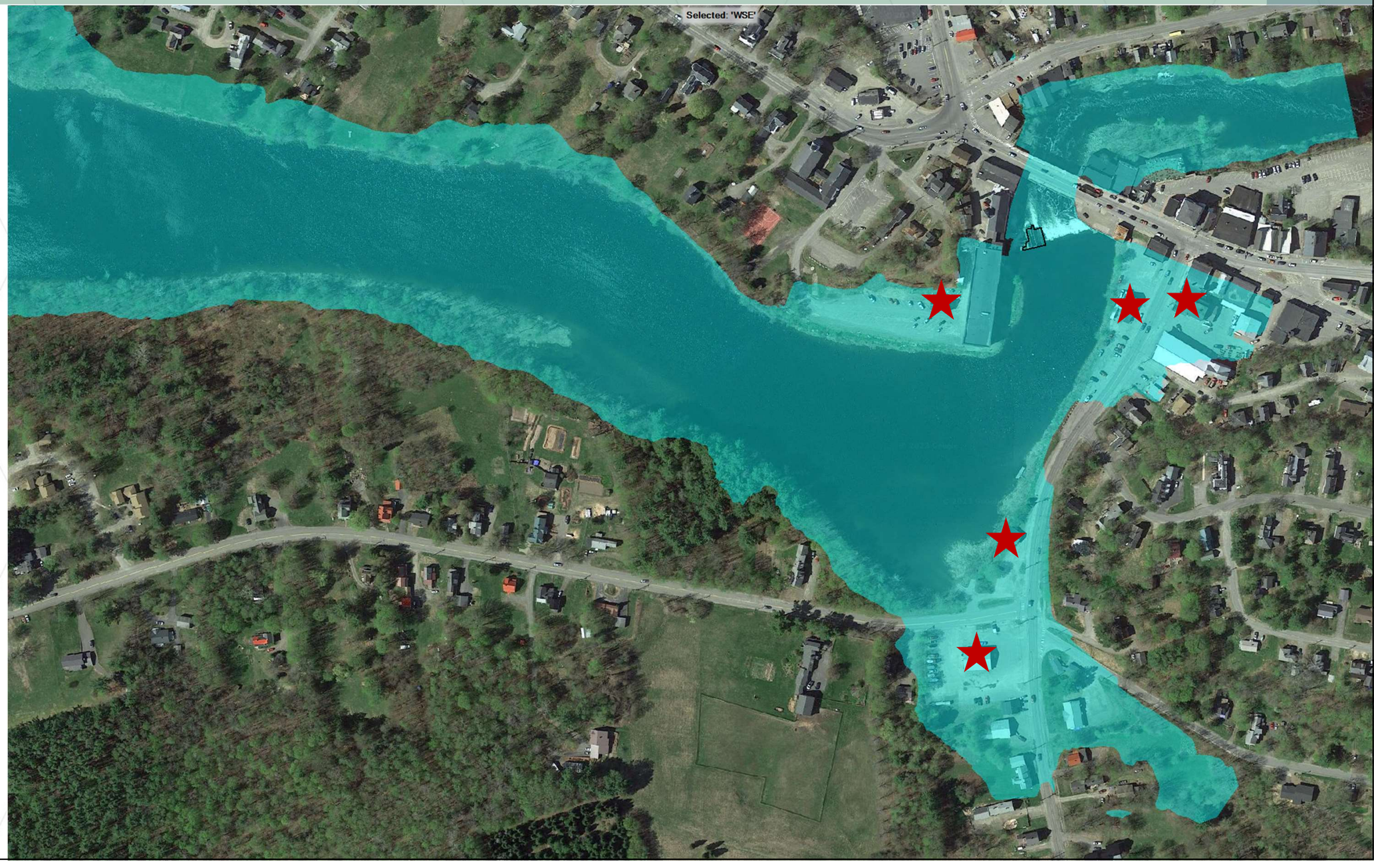
All Events

100-Year Event Scenarios – Nature Like Fishway



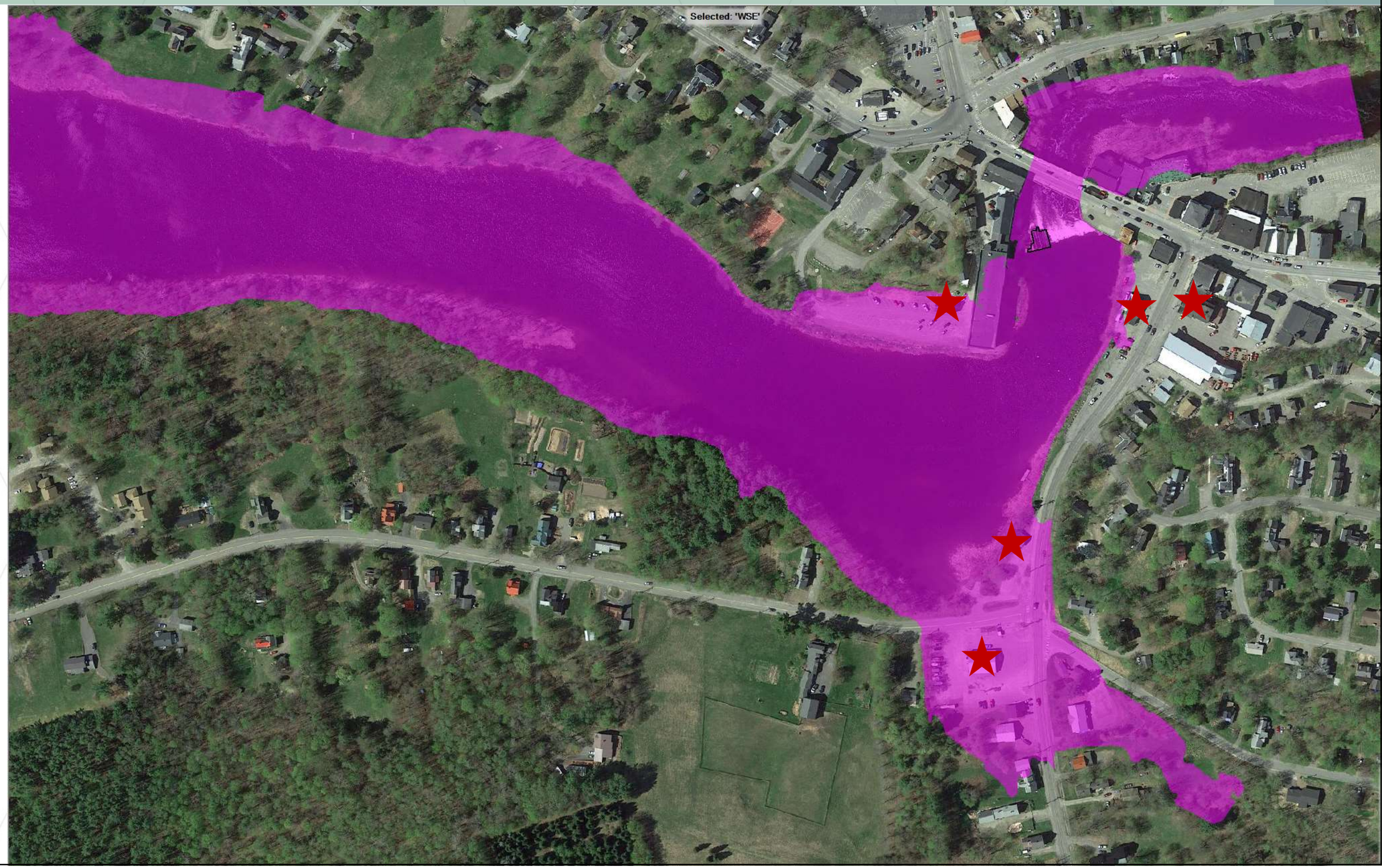
Bank to Bank NLF

100-Year Event Scenarios – Nature Like Fishway



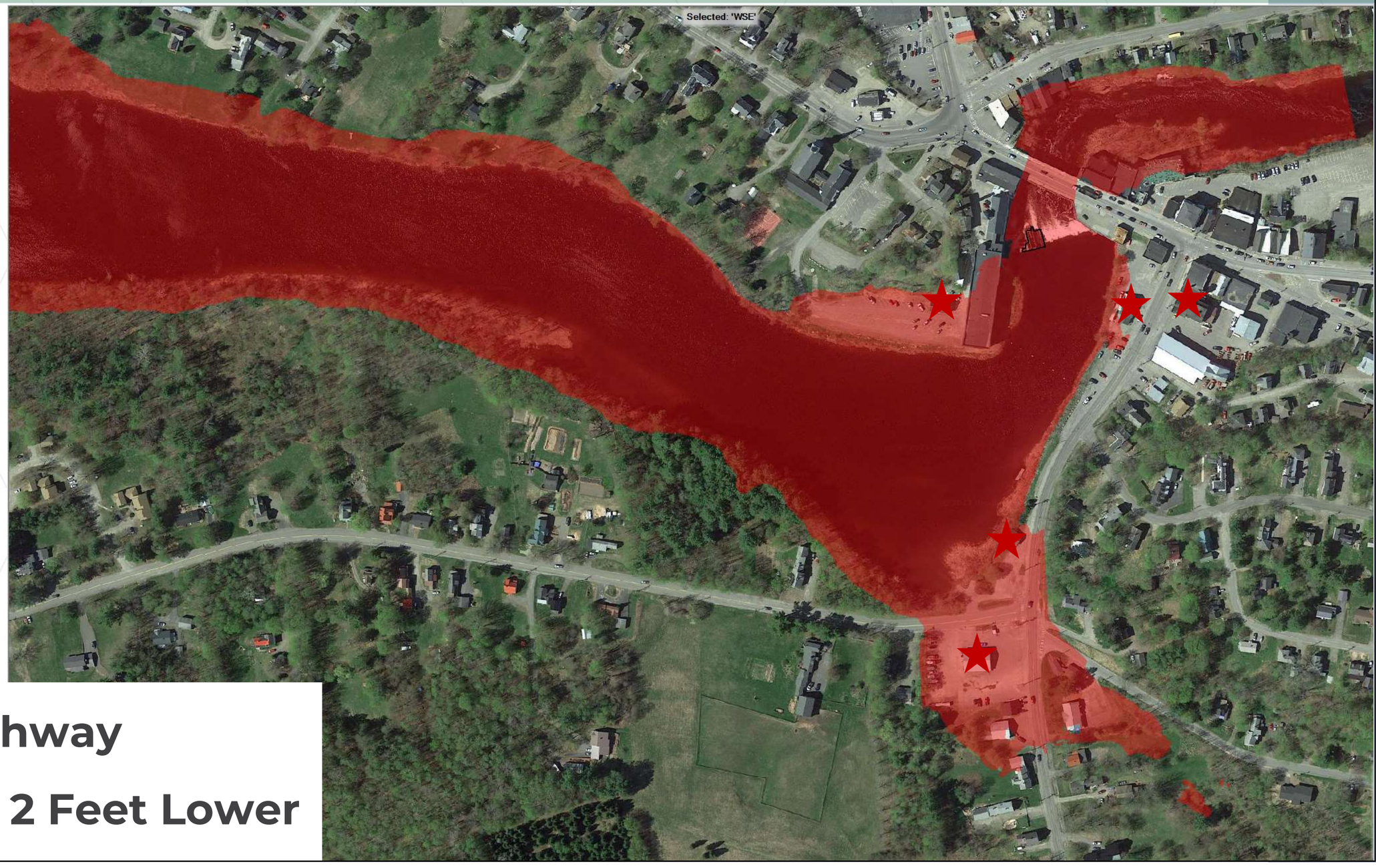
Existing Condition

100-Year Event Scenarios – Nature Like Fishway



NLF Full Impoundment

100-Year Event Scenarios – Nature Like Fishway



Nature-like Fishway

Impoundment 2 Feet Lower

100-Year Event Scenarios – Nature Like Fishway

Nature-like Fishway

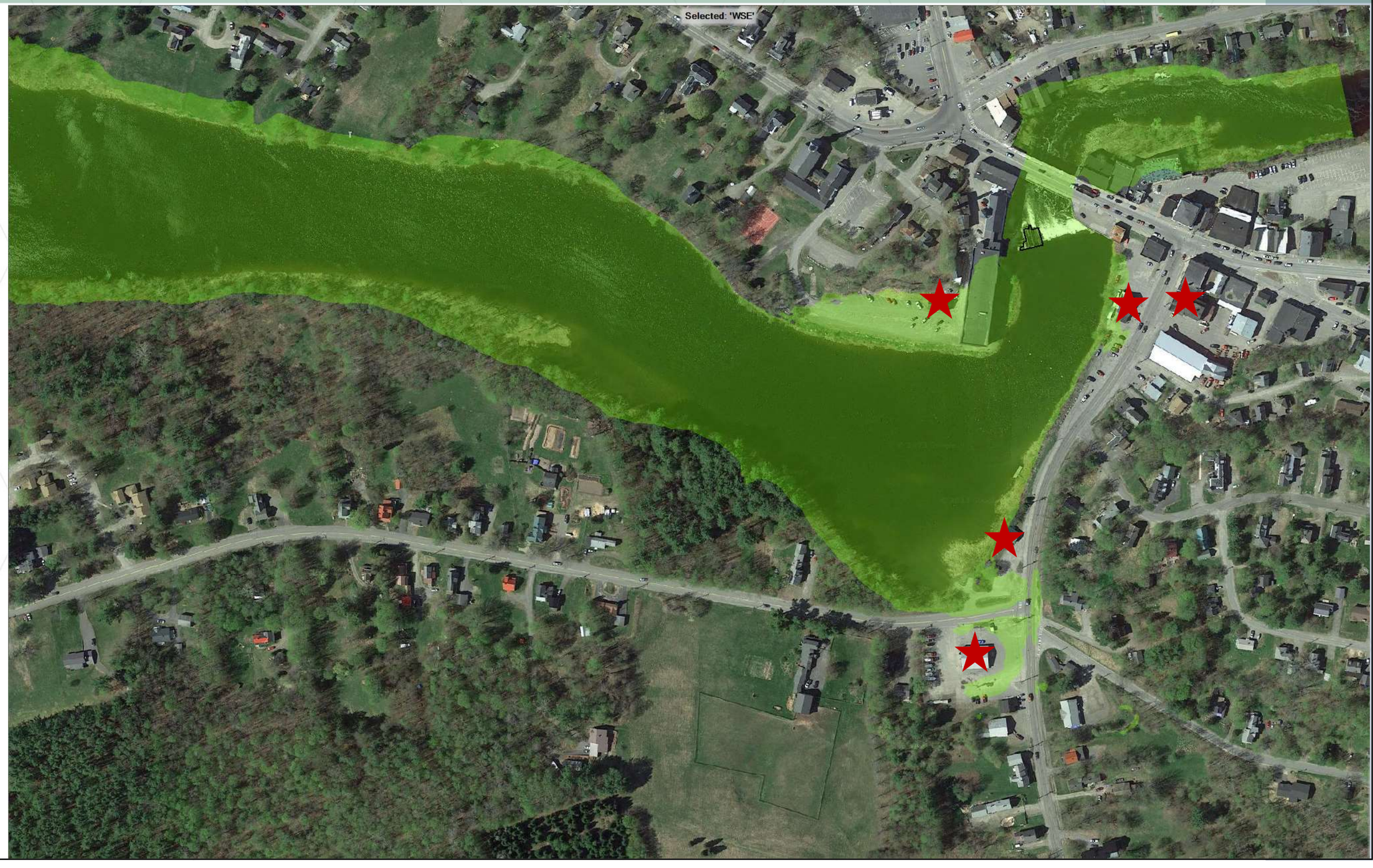
Impoundment 4 Feet Lower

100-Year Event Scenarios – Nature Like Fishway

Nature-like Fishway

Impoundment 6 Feet Lower

100-Year Event Scenarios – Nature Like Fishway



Dam Removal

100-Year Event Scenarios – Nature Like Fishway

All Events

100-Year Event Scenarios

Take Home Points

- Dam modification at dam per alternatives does not offer reduction able to remove buildings in target areas of downtown and Cove area from base flood zone (~1.3 to 3 feet reduction)
- Bank to Bank NLF offers notable reduction downtown (~6.5 feet)
- Bank to Bank NLF offers ~2-4.5 feet reduction near Cove at Pine and South Streets
- Dam removal offers notable reduction downtown (~6.5 feet)
- Dam Removal offers ~6 feet reduction near Cove at Pine and South Streets
  - ~1.5-4 feet lower than NLF near Cove at Pine and South Streets
- Mill parking lot in base flood zone in all cases
  - Existing (7-8 feet depths)
  - Dam removal (1-2 feet depths)