



# LAKE ACCOTINK FORECASTING

TASK FORCE MEETING – OCTOBER 2, 2023 CRAIG TAYLOR

Note: all materials in this presentation are based on high-level assessments and should be considered preliminary.



### 2. LAKE AS WETLAND

What is required to develop a plan to manage the lake footprint as a wetland?



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### Lake Accotink Park Master Plan Revision

### **Department Resources**

Department Homepage	>
Parks	+
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Trails	+
Special Topics	>
Holiday Hours and Class Schedules	>
Jobs at the Park Authority	+
Rentals and Permits	+
Long Range Planning	>
Planning and Improvements	+
Park News	>
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### **ANNOUNCEMENT**

The Lake Accotink Master Plan Revision community meeting at Cardinal Forest Elementary School scheduled for Tuesday, March 31, 2020 and the community meeting at the large waterfront pavilion in Lake Accotink Park on Saturday, April 18, 2020 are postponed indefinitely, due to Coronavirus (COVID-19) safety precautions. Public input continues to play a big role in developing a vision for how this park will serve the community for years to come. Please check the website in the upcoming weeks for rescheduled meeting dates. For current updates on the County's coronavirus response, please click here





Lake Accotink Park Master Plan Revision | Park Authority (fairfaxcounty.gov)

### **Questions About What the Lake Can Be**

- Is managing the lake as a wetland a viable or potentially desirable option? (Question 2)
  - What might it look like? (2c)
  - How long will it take to create a managed wetland that is a community asset providing environmental and recreational benefits? (2d)
- Could a managed wetland option include open water areas? (Question 3)
  - Where might open water be located? (3a)
  - What type of open water could be maintained? (3b)
- How would Lake Accotink Dam be incorporated into a managed wetland option? (Question 4)
  - Could the dam remain as is? (4a)
  - Could the dam be modified to improve wetland function and maintenance? (4b)
  - Would management options be improved by removal of any portion of the dam? (4c)
  - How could fish passage be incorporated into dam/lake management options? (4d)

### **USER EXPERIENCE**



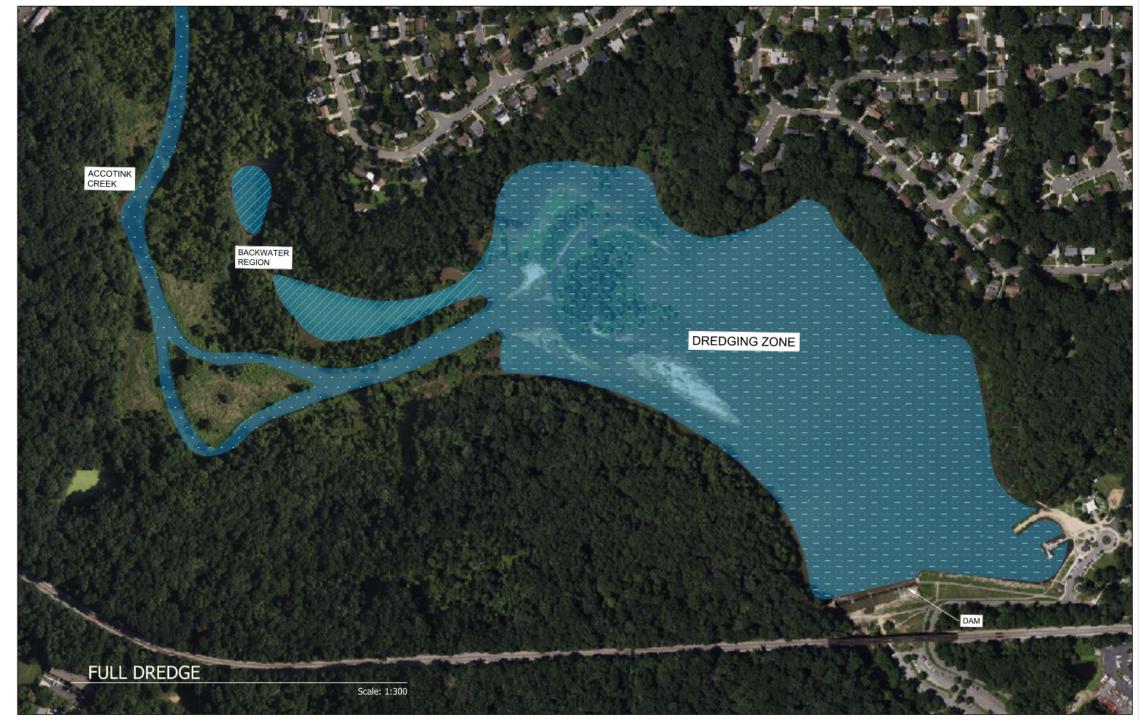














## **INFILLING ANALYSIS**

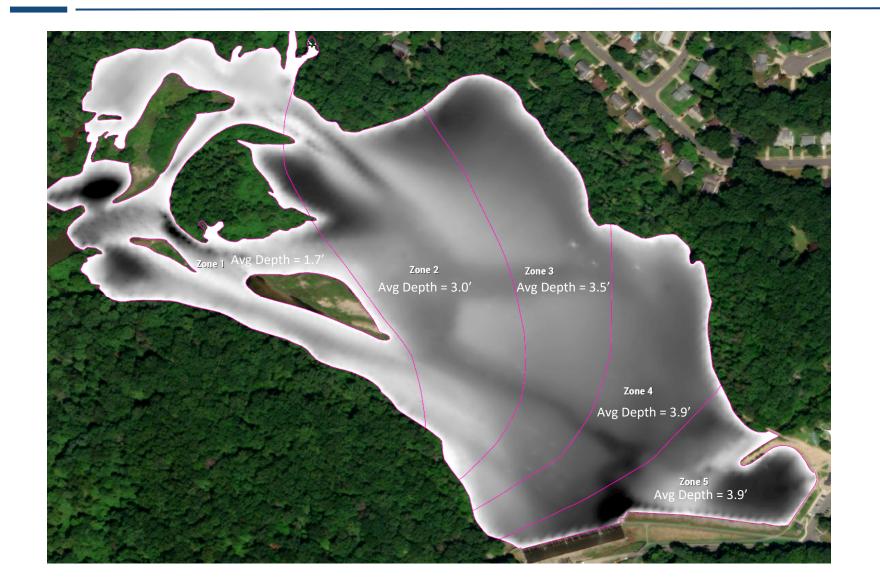
2016 2021







### **INFILLING ANALYSIS**





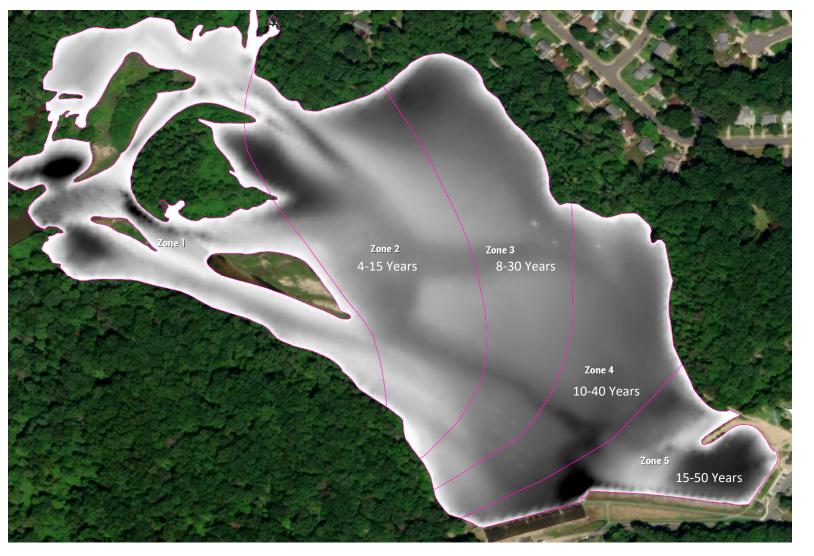
### **INFILLING ANALYSIS**

# Times until the Lake infills to approximately this level



Infilling rates from "Lake Accotink Sediment Management Program Study" by HDR 2002 Notes:

- Estimated Retention = 17,411 cubic yards/year
- Accotink
- Total Sediment Load = 33,900 cubic yards/year
- ~13% of total load is bedload



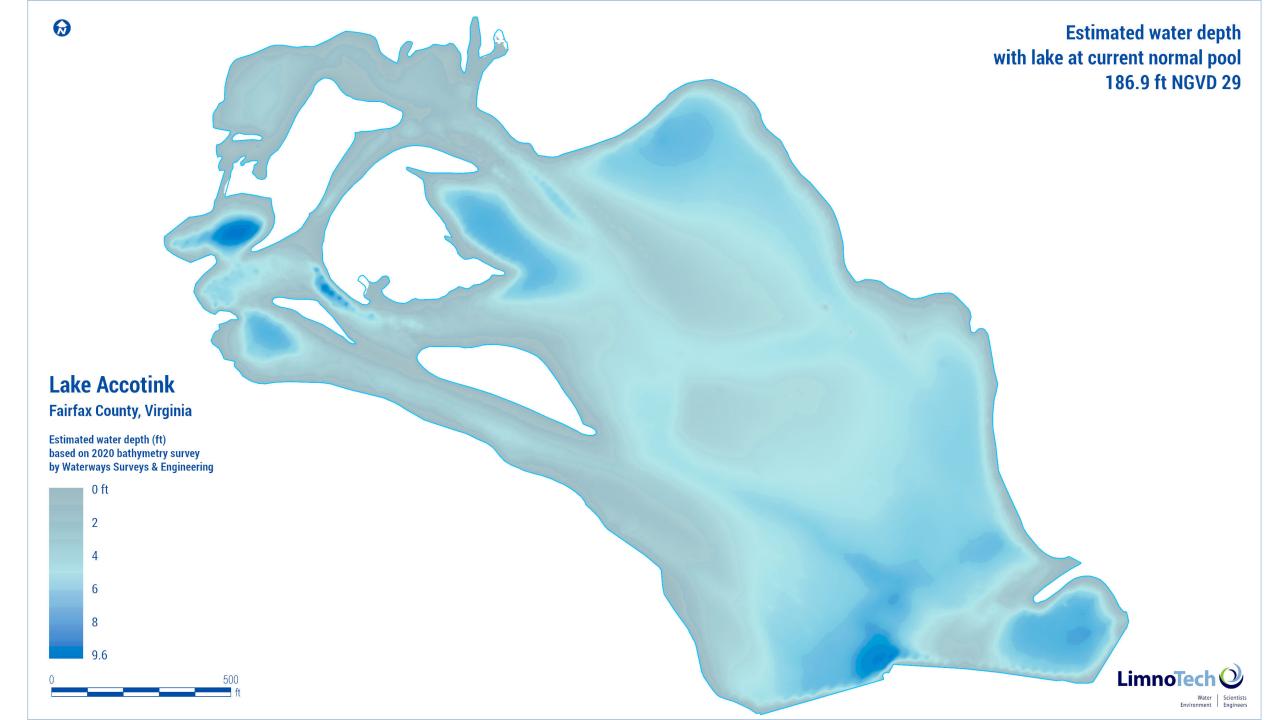


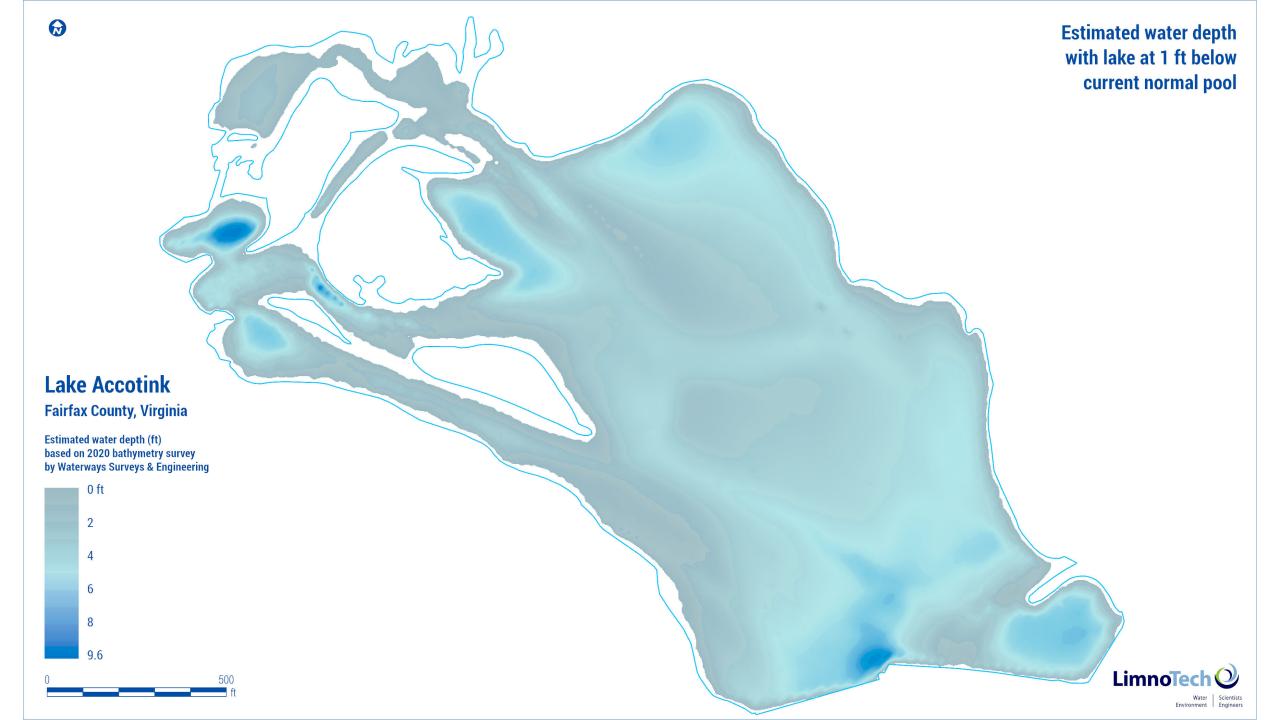


















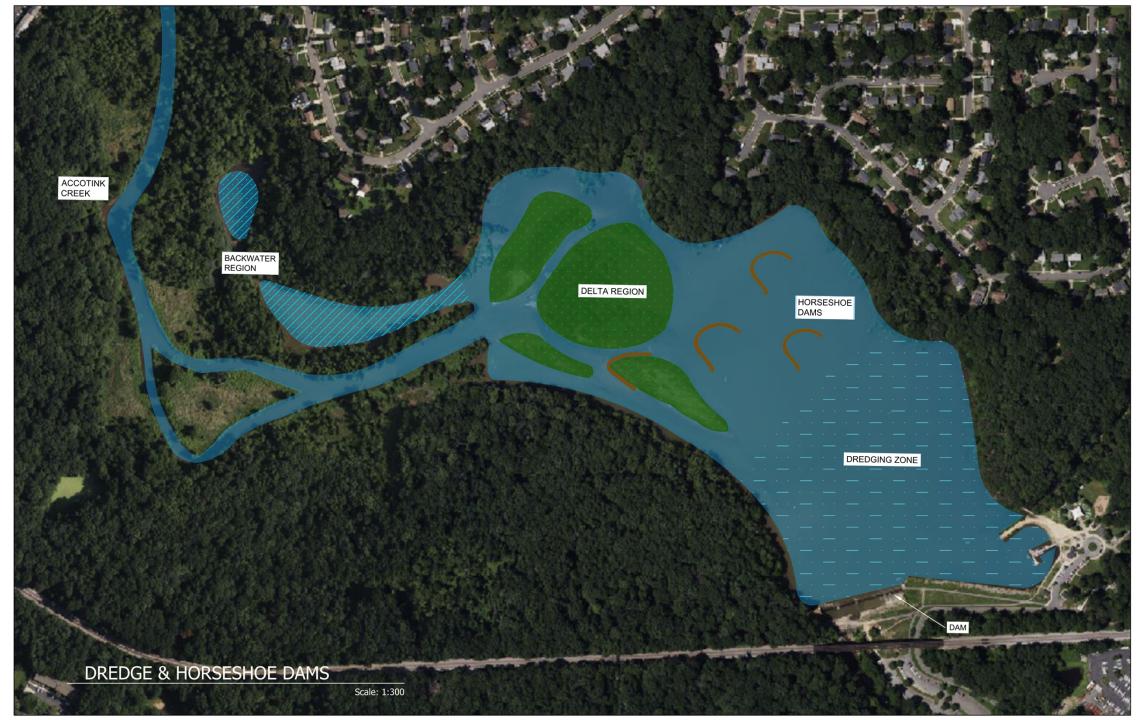




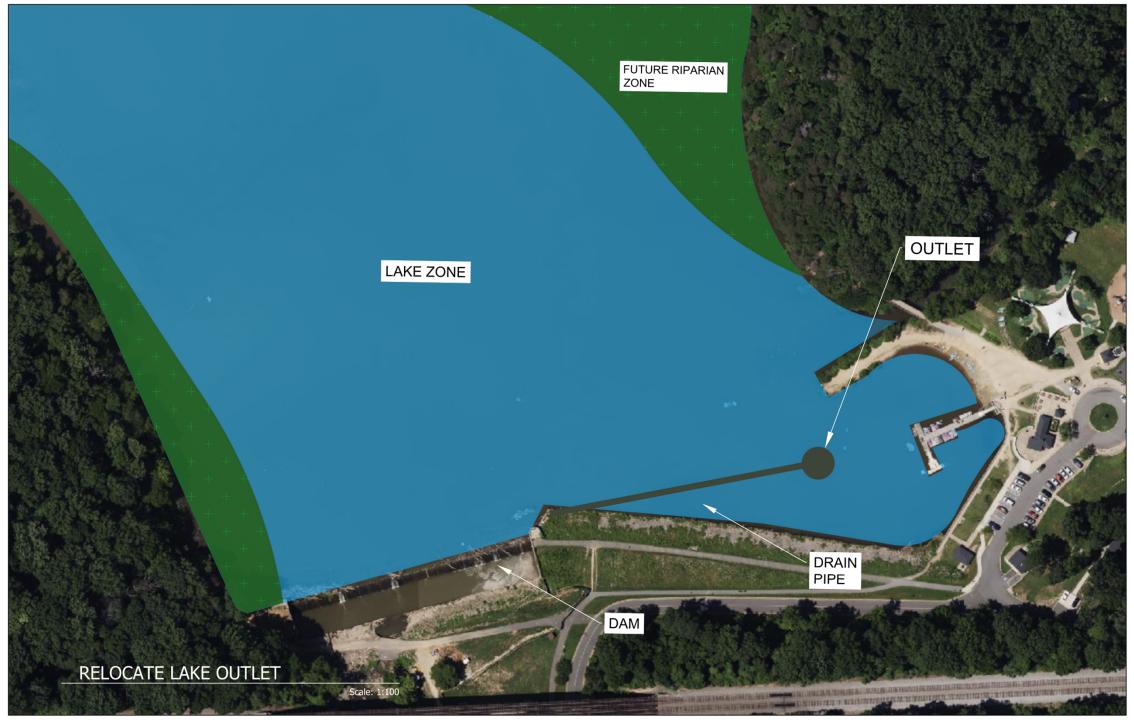




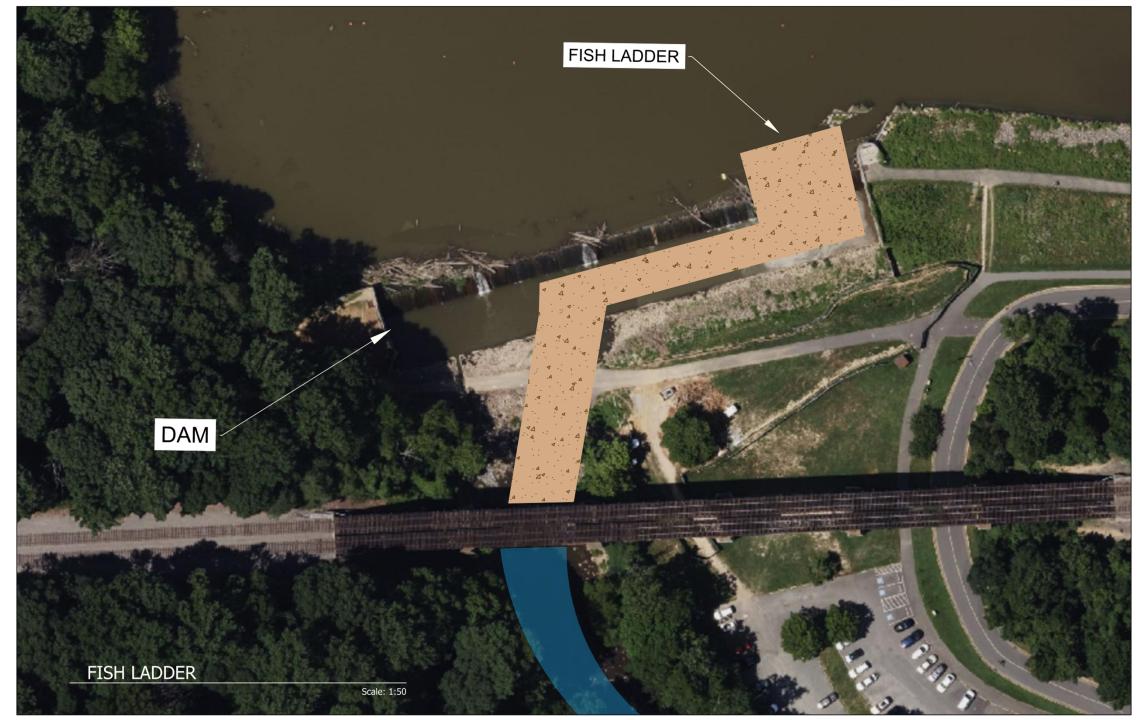














### 4. ACCOTINK DAM

D. How could fish passage be incorporated into dam/lake management options?







Little Creek
Dune Prairie Ranch, MO