

# LAKE ACCOTINK PARK CIP DREDGING PROJECT

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BOS Budget Committee Presentation

September 17, 2019



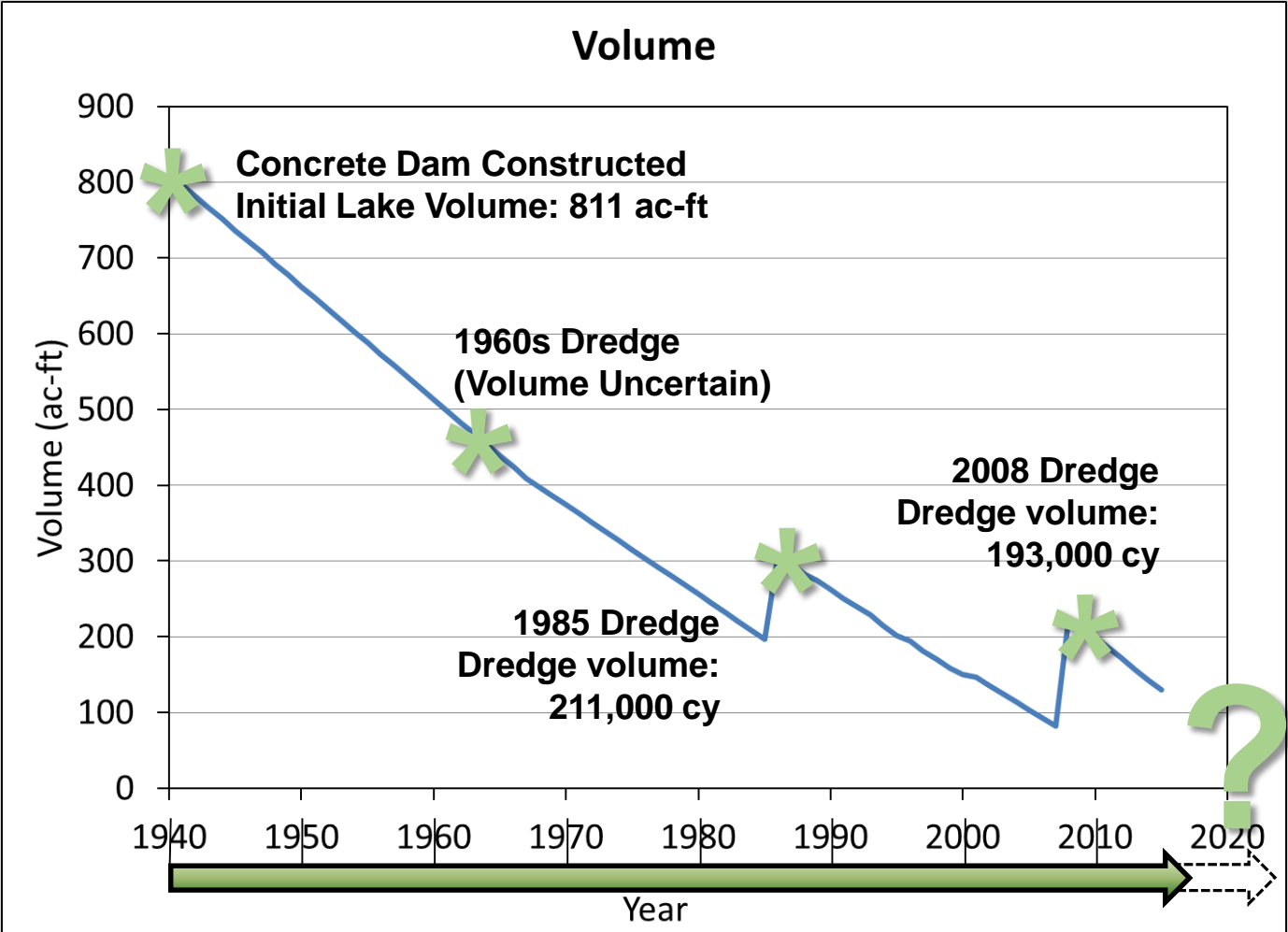
FAIRFAX COUNTY PARK AUTHORITY

## ***LAKE ACCOTINK CIP***

- Extensive public process conducted as part of Park Master Plan
- Community input supports maintaining lake as a recreational facility
- The park is visited by over 300,000 patrons annually
- FY 2020 –FY 2024 Adopted Capital Improvement Program identifies \$50 Million order of magnitude estimate for lake dredging
- April 30, 2019 Board of Supervisors FY 2020– FY 2021 Budget Guidance Item directed staff to update CIP recommendations to refine options, timeline, and appropriate funding mechanisms to address Lake Accotink.

# LAKE ACCOTINK CHANGES OVER TIME

- Lake Accotink has been dredged three times over the past 40 years.
- Previous dredging was completed in May 2008 (\$10 Mil.) and removed 193,000 CY of sediment.
- An average of 20,000 CY of sediment is deposited in the lake per year.
- The estimated average depth of the lake is 4 feet and will continue to decrease over time without intervention.



# LAKE ACCOTINK MASTER PLAN PUBLIC ENGAGEMENT PROCESS

- Master Plan began Spring 2016
- 5 public meetings/workshops held with community
  - Facilities, Programming & Usage
  - Natural and Cultural Resources
  - Trails
  - Lake Management
- Natural resource studies were conducted to inventory critical plant and wildlife species
- Lake options shared with the public
- Community Online Questionnaire for lake options was circulated
- Comments received through website, email, and by phone

# **LAKE ACCOTINK PUBLIC ENGAGEMENT PROCESS**

## ***Outcomes***

### Results of public input

- 90% favored having a lake
- 65% in favor of retaining the existing footprint
- Save Lake Accotink, a non-profit organization, submitted a petition in favor of dredging the lake and constructing a forebay
- HOAs adjoining Lake Accotink support retaining the lake

# RECOMMENDED DREDGING STRATEGY

## Description

- Dredge to restore lake to average 8 ft depth
- Pump sediment to Wakefield Park for dewatering and disposal
- Fund maintenance dredging program to maintain lake
- Retains aesthetic and recreation value of the lake

**Dredging Cost: \$ 30,500,000**

**Periodic Maintenance Dredging Annualized Cost: \$2,013,000**

**30 Year Lifecycle Dam Repair: \$4,700,000**



### Dredging Order of Magnitude Cost Estimate

Initial Dredging	Contingency	Total
\$24.5M	\$6.0M	\$30.5M

### Annual Costs

Maintenance Dredging	Dam Maintenance	Total
\$2.0M	\$0.013M	\$2.013M

### 30 Year Lifecycle Dam Repair & Upgrades

\$4.7M in Year 30

# How does the cost of dredging compare to stream restoration for downstream sediment reduction?

The lake currently removes sediment equivalent to restoring 33 miles of stream at a cost of \$230 million.



# LAKE ACCOTINK FINANCING OPTIONS

- **Virginia Clean Water Revolving Loan Fund (“Fund”)**
  - Department of Environmental Quality (DEQ) program administrator of the Fund; Virginia Resources Authority (VRA) is financial manager of the Fund
  - DEQ indicated in March 2019 the Lake Accotink project is eligible for funding; all qualifying projects receive an interest rate reduction of 1% below municipal market rates
  - DEQ confirmed the County’s dedicated source of stormwater revenue (\$3.25 per \$100 of Assessed Value) provides for an additional interest rate reduction of 1% below municipal market rates
  - Flexibility in debt service repayment through project completion
  - Loan would be subject to the approval of the State Water Control Board
  - Full year debt service for the entire \$30.5m estimated at \$1.5M/year per current market conditions
  - Anticipated debt service would begin in FY 2025/2026 and will be included in future STW service district budgets
- **Fairfax County Economic Development Authority**
  - Fallback option to pursue project financing
  - Previous examples of projects financed include Merrifield Center, Public Safety Headquarters, and Lewinsville Center





# LAKE ACCOTINK KEY DATES

Sept 2019	Advertised for Design Consultant
Sept 19, 2019	Public Master Plan Meeting
Oct 29, 2019	BOS Meeting Scope and Funding Strategy for Approval
Jan 31, 2020	Award Consultant Contract for Design & Permitting
March 31, 2020	Submit Request for VCWRLF Loan
June 30, 2020	Park Authority Complete Master Plan
Sept 30, 2020	State Approve VCWRLF Loan
Jan 31, 2021	Award Dredging Contract
March 1, 2022	Commence Dredging
March 1, 2025	Complete Dredging
March 1, 2029	Complete Permit Compliance Monitoring