



Queens Lake Project Management Update 3/20/2024





PRESENTATION OVERVIEW

- **Introductions**
- **Before & After Expectations**
- **AH Current Scope of Work**
- **General Design/Construction Process Overview**
- **Current Status of Stream Restoration**
- **Current Status of Dam & Spillway Improvements**
- **Dam & Spillway Highlights**
- **Questions and Answers**



INTRODUCTIONS

Brian Fuller

- Deputy County Administrator

Rob Krieger

- York County Director of Public Works

Joe Brogan, PE

- York County Chief of Stormwater Programs

Travis Rhodes, PE

- York County Assistant Engineering Manager

Robert Walters, EIT

- York County Engineer I

Jay Allen, PE

- AH Engineering Contract Manager

Will Browning, PE

- AH Engineering Project Manager



BEFORE & AFTER EXPECTATIONS

- **Partnership, cooperation and compliance**
- **Agreements and obligations**
- **The ball is rolling**
- **Standing committee**
- **The next several years**



PROGRAM STATUS SUMMARY

- **Dam & Spillway Improvements**
- **Stream (ravine) Restoration**
- **Princess Pond**
- **“Area 10” - Upstream Lake Restoration**
- **Program Capital & Grant Funding**
- **Maintenance obligations (“What will our 20k/year pay for?”)**

AH CURRENT SCOPE

- **Pre-Design**

- Conceptual Study for Stream Restoration, Princess Pond Dredging, Spillway Repair Concepts

- **Design**

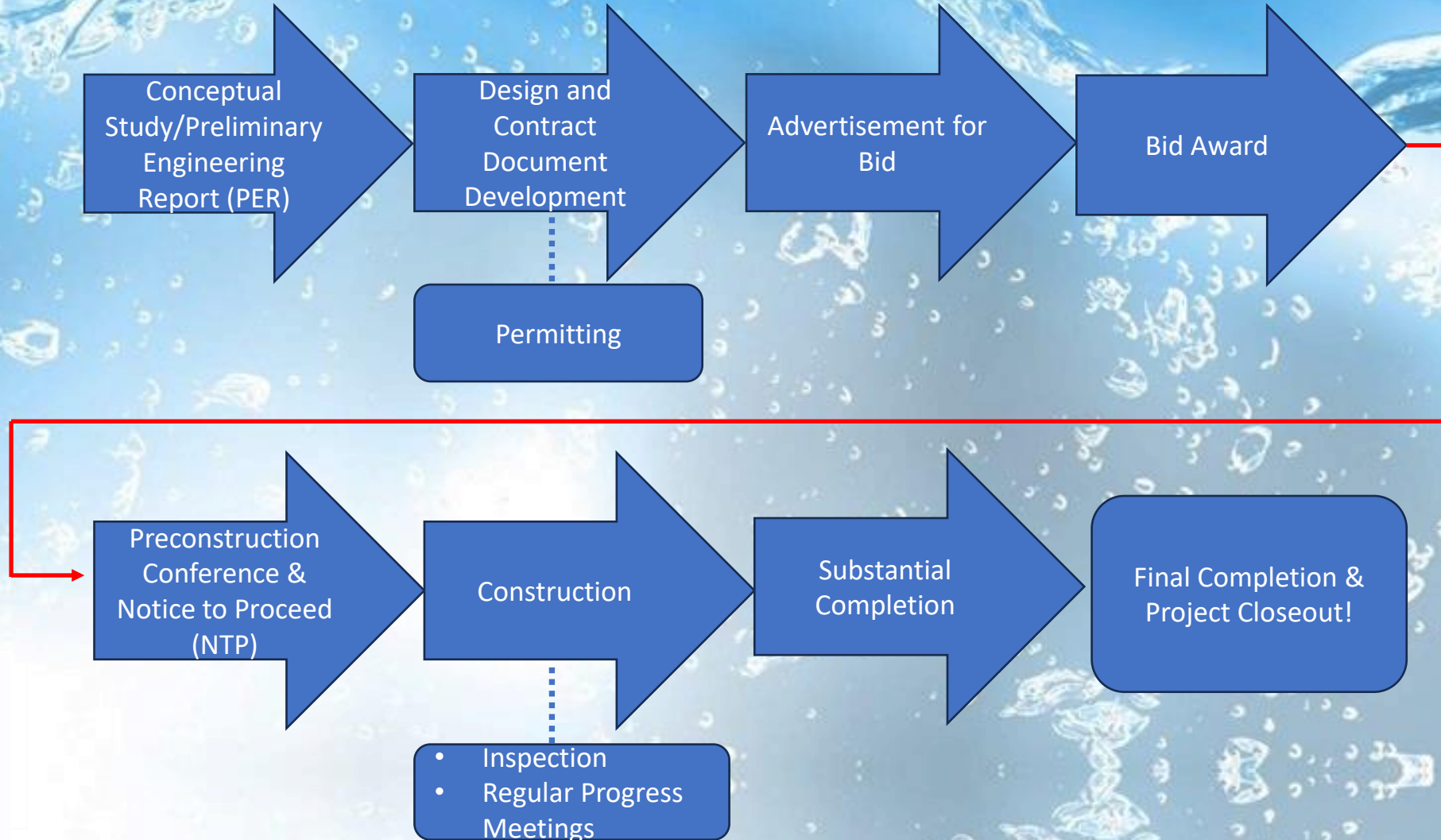
- Stream Restoration
- Spillway Repair
- Permitting

- **Bidding Support**





GENERAL DESIGN/CONSTRUCTION PROCESS OVERVIEW





CURRENT STATUS OF STREAM RESTORATION

- **60% Plans Submitted to County**
- **Comments Received**
 - Changes to limit area of disturbance
 - Not yet ready to share
- **Project will reduce erosion and siltation into lake**





CURRENT STATUS OF DAM & SPILLWAY RESTORATION

- Dam Design Complete (AMT)
- Spillway Design at 90%
 - Permitting Underway
- Projects to be bid together under one general contractor
- Common Easement (similar to sewer pipe bridge) required
 - Requires Community approval
 - Individual negotiated with QLCA endorsement

QUEENS LAKE DAM SPILLWAY IMPROVEMENTS
 DAM INVENTORY #199016
 YORK COUNTY, VIRGINIA
 90% DESIGN SUBMITTAL
 MARCH 2024

LOCATION MAP
SCALE: N.T.S.

VICINITY MAP
APPROX. SCALE: 1" = 1.000'

SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	SPILLWAY IMPROVEMENTS CROSS SECTION
5	SPILLWAY CONCRETE REPAIR DETAILS
6	COMPOSITE SHEET PILE & CAP DETAILS
7	EROSION & SEDIMENT CONTROL PLAN
8	EROSION AND SEDIMENT CONTROL DETAILS
9	EROSION AND SEDIMENT CONTROL DETAILS
10	EROSION AND SEDIMENT CONTROL DETAILS
11	TRAFFIC MANAGEMENT PLAN

1 OF 11

QUEENS LAKE DAM REHABILITATION
 YORK COUNTY, VA
 DAM INVENTORY NO. 199016

— PREPARED FOR —
 Queens Lake Community Association
 234 East Queens Drive
 Williamsburg, VA 23185

SEQUENCE OF CONSTRUCTION

1. VERIFY ALL SET POINTS, POINTS, BENCH MARKS THAT THEY ARE CORRECT AND USE AS REFERENCED.
2. EXISTING DAM, SPILLWAY, AND APPROACH ROAD SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION.
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NO TREES OR SHRUBS ARE TO BE PLANTED ON SLOPES.

Sheet List Table

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QUEENS LAKE DAM REHABILITATION
 DAM INVENTORY #199016
 YORK COUNTY, VIRGINIA

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COVER SHEET
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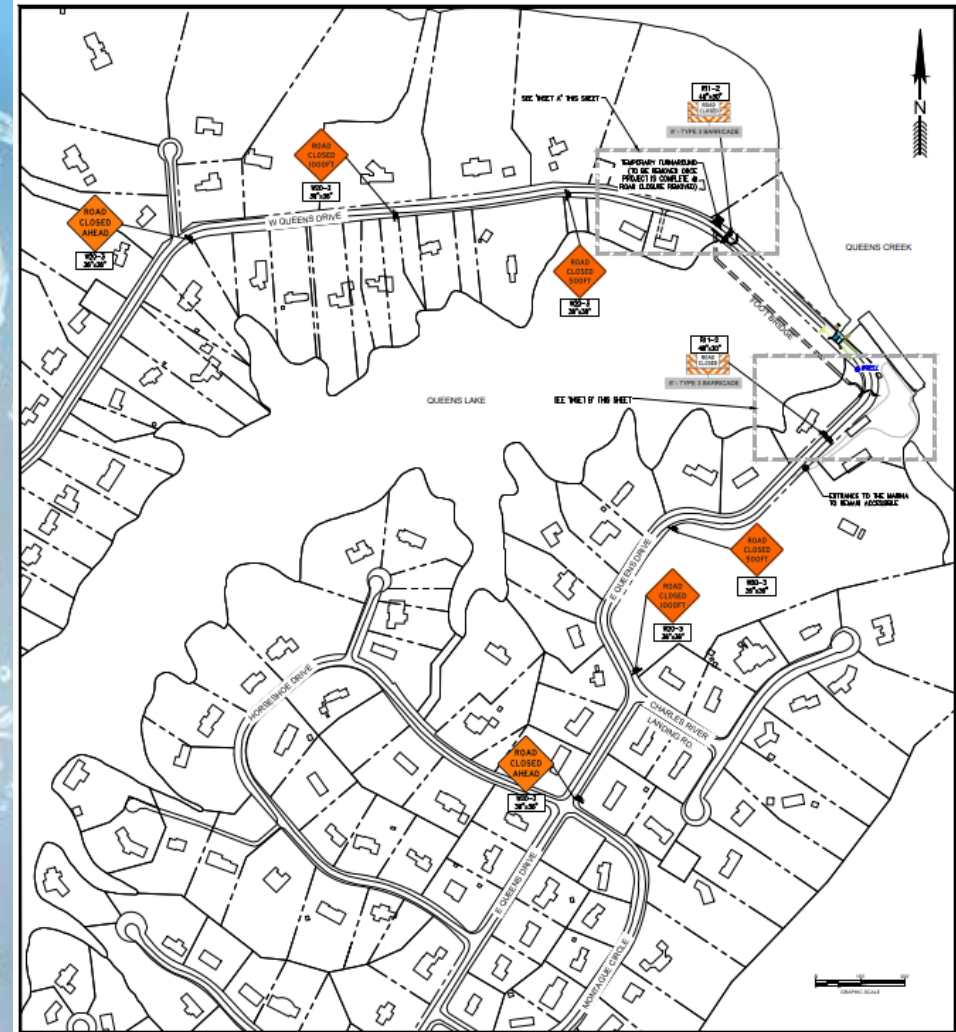
DAM & SPILLWAY HIGHLIGHTS

- Virginia Department of Conservation and Recreation (DCR) suggested lowering Lake
- Current design will not require lowering Lake
- Contractor to establish temporary bypass pumping to maintain Lake levels during normal inflow & storm events
- DCR requires current siphon piping to be removed
 - Restored spillway will accommodate for 100-yr storm event
 - If new permanent siphon desired, will require VDOT approval
 - May cause delay



DAM & SPILLWAY HIGHLIGHTS

- Road will need to be closed for major construction activities – approx. 6-8 months
- Pedestrian bridge will only be closed for driving of sheet piles – 2 to 3 months
 - Noise
 - Public safety





Thank you!
Any Additional Questions?

