

# Dumfries Pressure Zone Elevated Water Storage Tank Project

February 13, 2017

SA Project Manager: David L. Guerra, P.E.

Design Engineer: Hazen & Sawyer



**Service Authority**  
Exceptional Water Service

# Agenda

- ◆ Purpose of the Project
- ◆ Project History
- ◆ Preliminary Design Parameters
- ◆ Anticipated Project Duration
- ◆ Next Steps
- ◆ Contacts
- ◆ Q&A

# Purpose of the Project

- ◆ Improve Service and Reliability to the Community
  - ◆ Provides additional storage volume to help maintain system pressures during peak demands
  - ◆ Provides fire protection storage at build-out
  - ◆ Provides emergency storage in the event of a main break or power outage
  - ◆ Improves operational efficiency

# Project History

- ◆ Tank requirement identified in the late 1990's with the County's development of the Cherry Hill Sector Plan
- ◆ Tank shown on the 2003 PWC Comprehensive Plan Map
- ◆ Tank introduced in the Service Authority's 2005 Capital Improvement Program
- ◆ Site easement, access road and water main provided for by the Developer per proffer agreements
- ◆ Preliminary Engineering Report (PER) completed in October 2016 by the Service Authority's design consultant

# Preliminary Design Parameters

## ◆ Style

- ◆ Hydropillar – steel bowl with steel fluted column base (most common style in PW County)
- ◆ Site will incorporate the Service Authority's standard security features of fencing and lighting

## ◆ Size & Dimensions

- ◆ 2 million gallon capacity
- ◆ Upper bowl diameter about 100 feet
- ◆ Base diameter about 75 feet
- ◆ Tank height approximately 115 feet

# Service Authority's 2 MG Dominion Valley Tank



# Service Authority's 2 MG Gainesville Tank



# Overall Aerial View



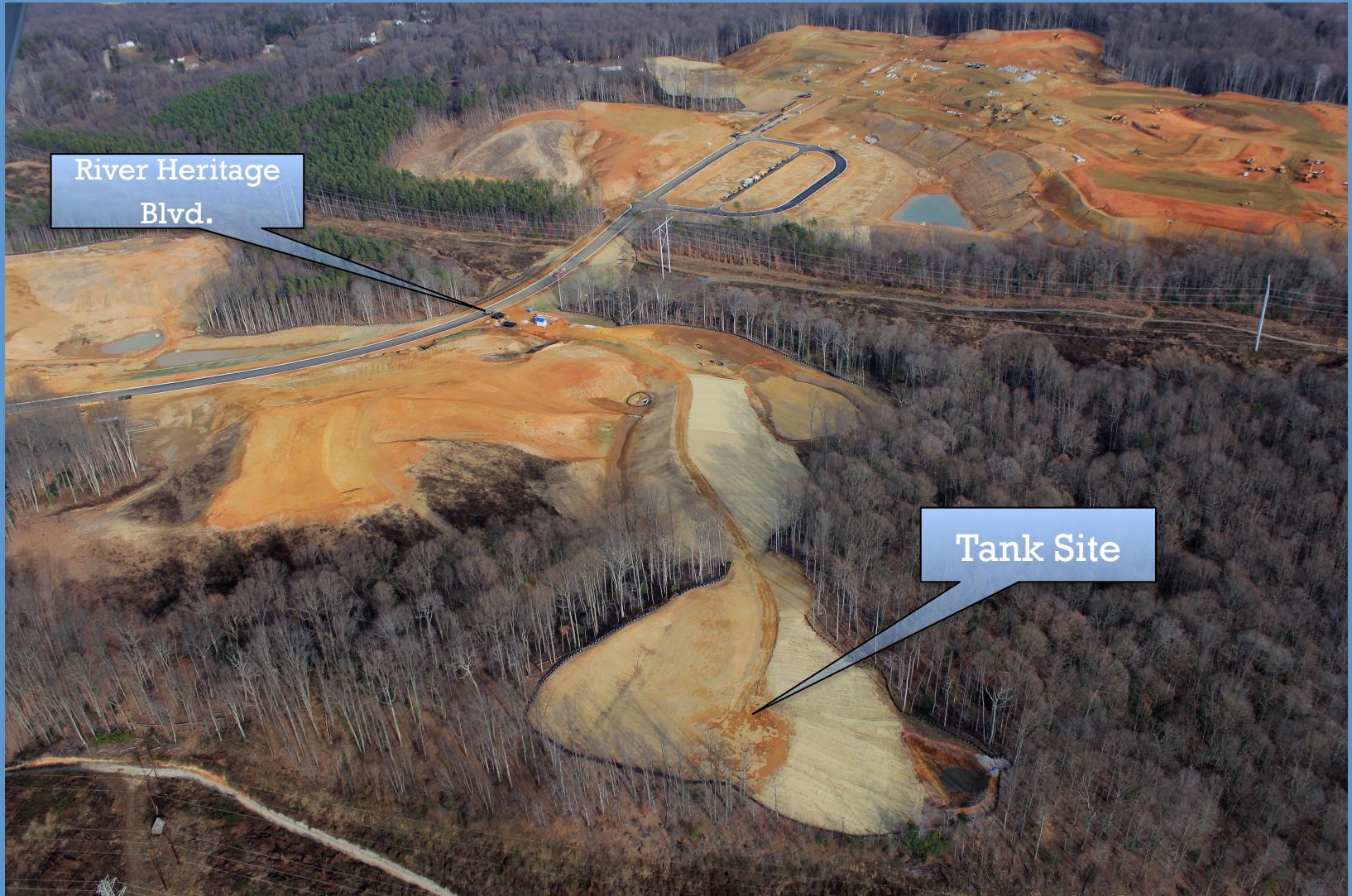
River Heritage Blvd.

Potomac Shores Pkwy.

Google



# Site Aerial View



River Heritage  
Blvd.

Tank Site



# Anticipated Project Schedule

- Design and Permitting:
  - March 2017 – February 2019
- Community Outreach: **Ongoing**
- PWC Public Facility Review Process:
  - June 2017 – October 2017
- Start of Construction:
  - Spring 2019
- Construction Duration:
  - 18 to 24 Months

# Next Steps

- ◆ Begin Final Design
- ◆ Start PWC Public Facility Review (PFR) Process
  - Submit application and documentation showing the project satisfies the intent of the approved comprehensive plan
  - Hold additional public meetings as needed
  - County sends out notification of a public meeting to all impacted residents
  - Public can provide input at Planning Commission meeting
- ◆ Design continues to meet PFR approval requirements

# Contacts

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Project Website:

<https://www.pwcsa.org/potomac-shores-tank>

# Q & A

Questions?