

# Potomac Shores Water Tank Project

September 13, 2017

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

Design Engineer: Hazen and 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
  - ◆ Provides emergency storage in the event of a main break or power outage
  - ◆ Improves operational efficiency

# Project Location

- Project is located in the Potomac Shores area, off River Heritage Boulevard
- This location provides:
  - A site near the customers to be served in the Dumfries and Potomac Shores areas
  - A high ground elevation to minimize cost and optimize hydraulic performance
  - An existing, proffered easement

# Project History

- ◆ Tank requirement identified in the late 1990's with the County's development of the Cherry Hill Sector Plan
- ◆ Tank first shown on the 2003 PWC Comprehensive Plan Map and continues to be shown on the current map
- ◆ Tank introduced in the Service Authority's 2005 Capital Improvement Program
- ◆ Site easement, access road and water main provided by the Developer per proffer agreements
- ◆ Preliminary Engineering Report (PER) to evaluate tank siting alternatives completed in October 2016
- ◆ First Community Outreach Meeting held on February 13, 2017

# Preliminary Design Parameters

## ◆ Style

- ◆ Hydropillar – steel bowl with steel fluted column base (most common style used by the Service Authority)
- ◆ 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 135 feet

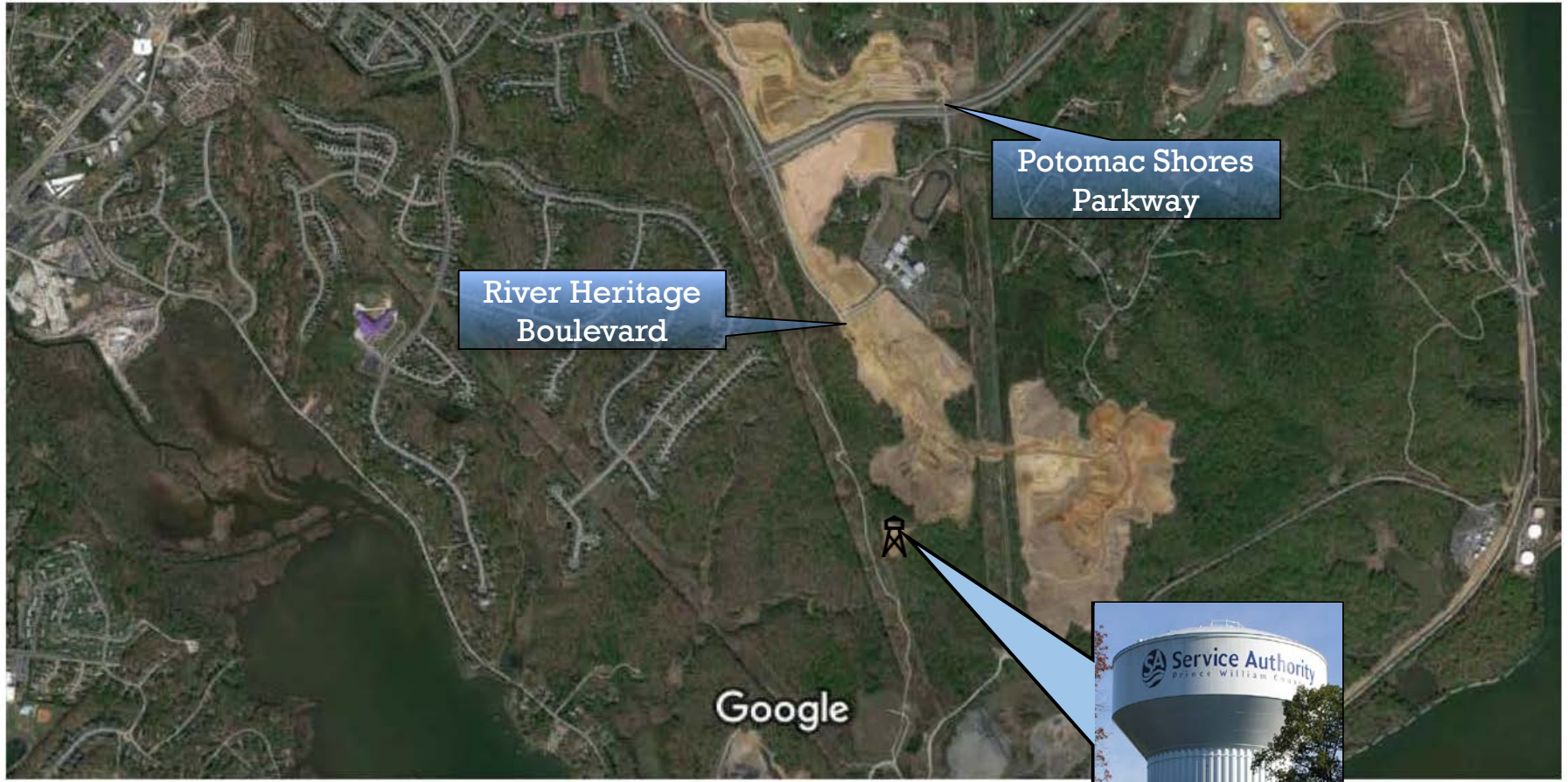
# Service Authority's 2 MG Dominion Valley Tank



# Service Authority's 2 MG Gainesville Tank



# Overall Aerial View



River Heritage  
Boulevard

Potomac Shores  
Parkway

Google



# Site Aerial View



View of Proposed Tank from River Heritage Boulevard and Dominican Drive

River Heritage Boulevard

Tank Site

Access Road

# View of Proposed Tank from River Heritage Boulevard and Dominican Drive



# Anticipated Project Schedule

- ◆ Design and Permitting:
  - May 2017 – March 2019
- ◆ Community Outreach: Ongoing
- ◆ PWC Public Facility Review Process:
  - July 2017 – November 2017
- ◆ Start of Construction:
  - Fall 2019
- ◆ Construction Phase:
  - 18 to 24 Months

# Next Steps

- ◆ Final Design
- ◆ PWC Public Facility Review (PFR) Process
  - County sends out notification of the Planning Commission Meeting to area residents
  - Public can provide input at the Planning Commission Meeting
    - Anticipated date: November 1, 2017
- ◆ Design continues to meet PFR approval requirements

# Contacts

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Community Relations and Outreach Manager

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Project Website:

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

# Q & A

Questions?