

Potomac Shores Water Tank Project

September 13, 2017

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

Design Engineer: Hazen and Sawyer



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

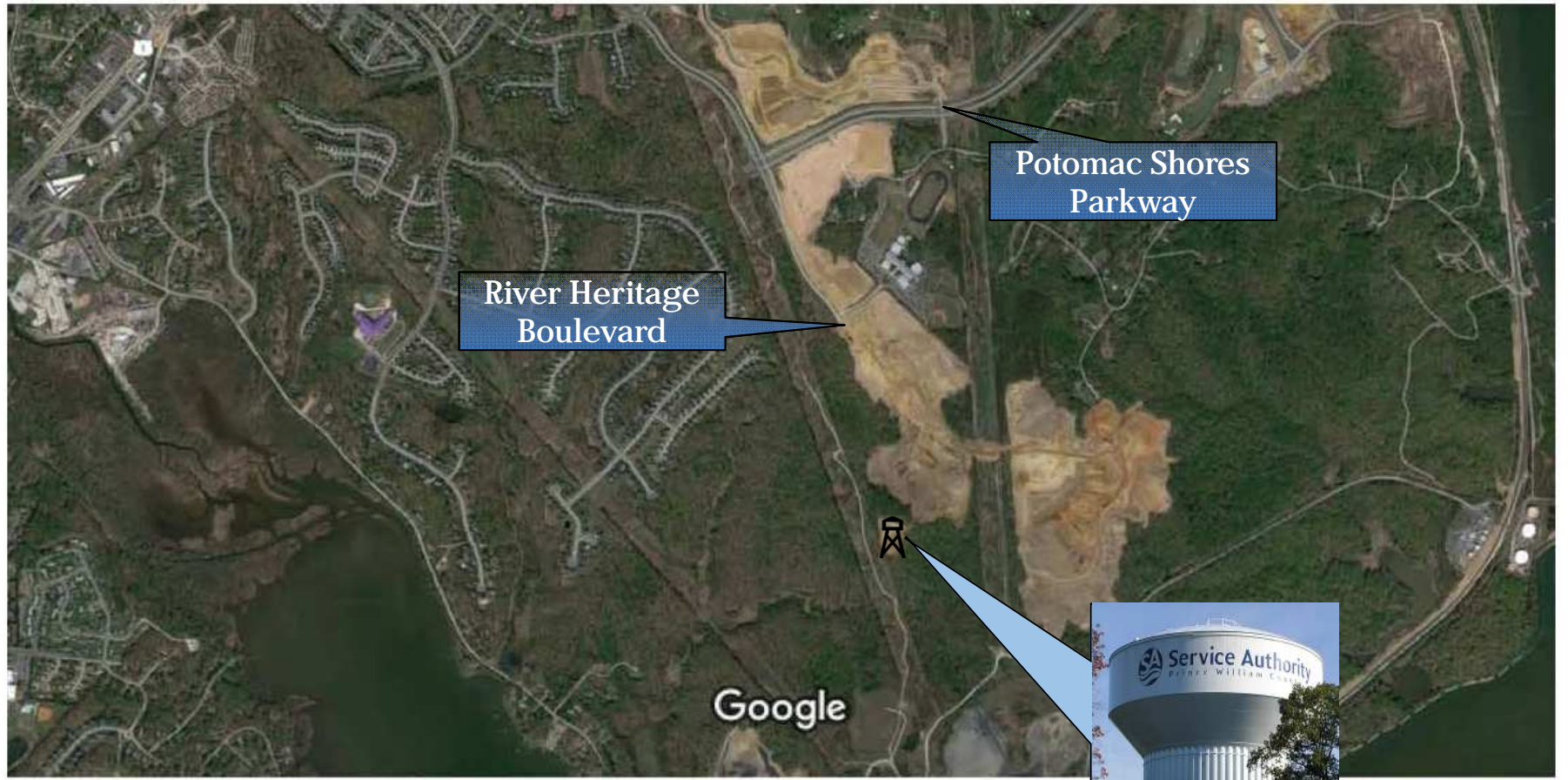
Service Authority's 2 MG Dominion Valley Tank



Service Authority's 2 MG Gainesville Tank



Overall Aerial View



Site Aerial View



Heritage
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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 Duration:
 - 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

- ◆ Service Authority's Community Relations Liaison
 - Marlo Thomas Watson
 - 571-285-8127

Project Email: potomacshorestank@pwcsa.org

Project Website: <http://pwcsa.org/potomac-shores-tank>

Q & A

Questions?