









## Pleasure House Point Wetlands Restoration Project

City Council Briefing

LJ Hansen, P.E. | November 26, 2024







#### **Agenda**

- Project Site
- History
- Project Scope
- Similar Project
- Schedule
- City Commitment
- Funding
- Next Steps



#### **Restoration Site**

- Undeveloped area (~12.3 acres)
- West of Lesner Bridge





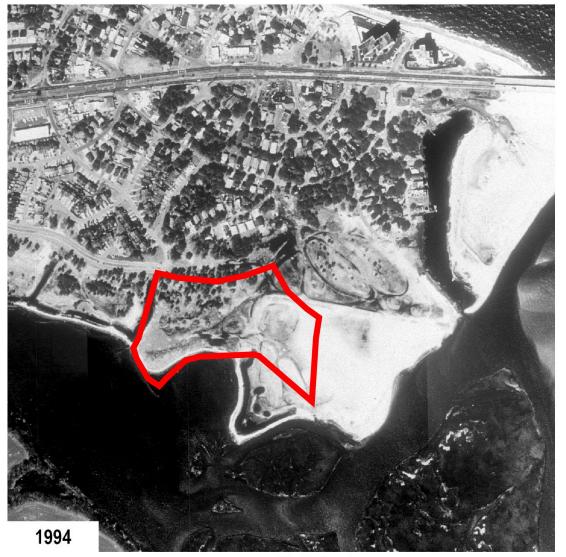
#### **Site History**

- In 1954 Princess Anne County, Virginia Beach Erosion Commission and the U.S Army Corps of Engineers designated the area as a "spoil site" for use in dredging the Lynnhaven Inlet.
- Prior to the 1970's the area existed in a natural condition as a partially wooded inlet over-wash area with a broad expanse of wetlands.
- Between 1971 and 1972 it is reported that over one million cubic yards (+1M CY) of dredge material was placed over the wetlands (behind a perimeter dike constructed along the shorelines of Crab Creek and Pleasure House Creek).
- Pleasure House Point was acquired and preserved in July 2012 as a collaborative effort between the Trust for Public Land, the City of Virginia Beach, and the Chesapeake Bay Foundation.
- The property was under the threat of development for many years.



#### Existing Site - 1958 to 1994









#### Existing Site - 2002 to 2011









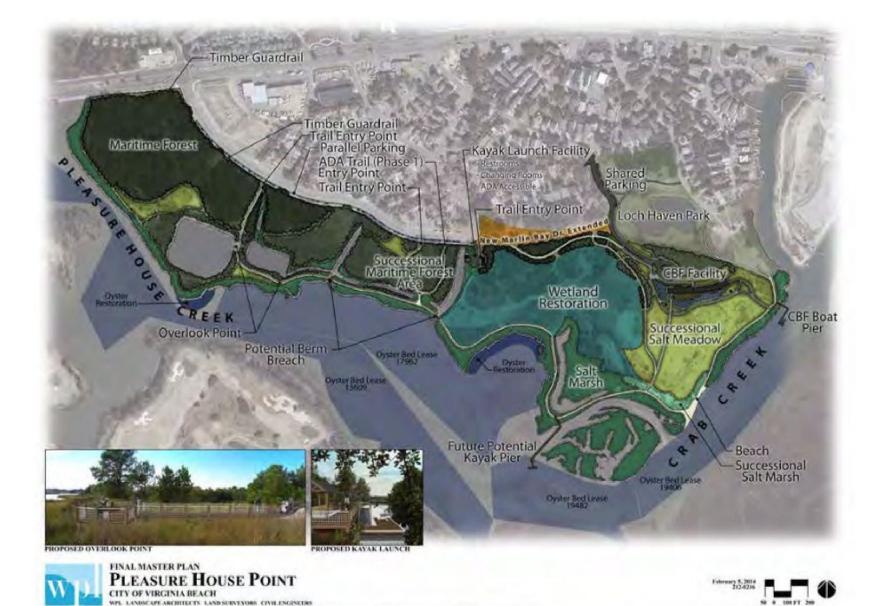
#### **Existing Site - 2024**



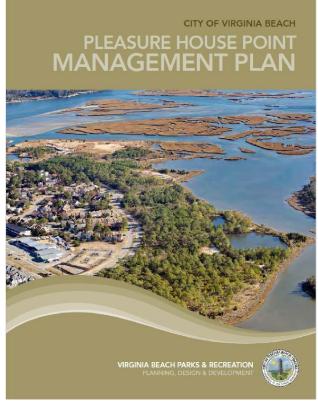
#### **Plan History**

- 2013-2017: Development of the Pleasure House Point Management Plan
  - Plan developed in coordination with the community
  - Included several public meetings
- **2017 2018:** 
  - Mitigation Banking Instrument developed (City & Agencies)
  - Design Plans developed through 90%
- **Feb 2018:** Received USACE Permit Project not executed at that time





# Master Plan (2013-2014)







#### **Conservation Easement**









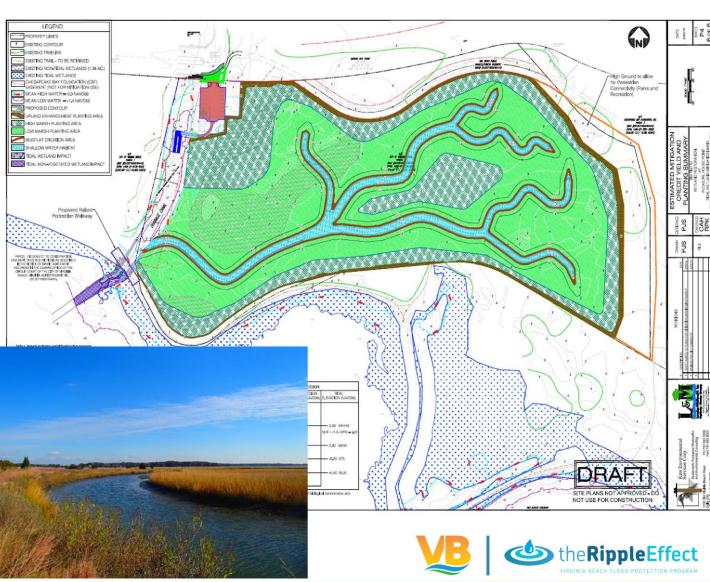


## Restoration Project Scope



# Master Plan: Establishment of Wetlands and "Banking" Operation

- Public Works will establish tidal wetlands and vegetation as part of a "Bank"
- Credits will be used for City Projects
  - Flood Protection Projects
  - Dredging Projects
  - Water Quality
    Improvement Projects
  - Roadway Projects
  - Other Public Infrastructure



#### **Goals and Objectives**

- The objective of the Pleasure House Mitigation Bank is to Restore/Create:
  - 6.22 acres of tidal vegetated wetlands
  - 1.78 acres of non-vegetated tidal wetlands
- The additional goal of the Bank is to provide economically efficient off-site compensation for impacts to tidal wetlands that cannot be practicably avoided for the City of Virginia Beach projects.

(Source: MBI, Page 2)



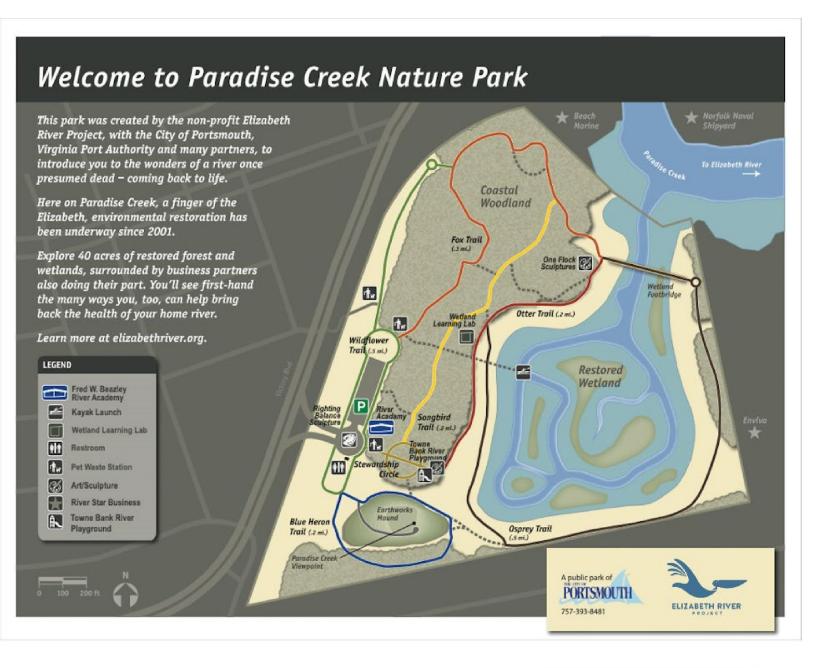
#### **Purpose and Need**

- Currently, there are no tidal wetland credits available in the City, public or private.
- The Windsor Woods "Mega-Bundle" Design-Build project needs 2.7 acres of Tidal Wetland credits.
- Tidal Wetland Credits Required:
  - Windsor Woods Pumpstation = 0.4 Acres
  - North London Bridge Creek and South London Bridge Creek = 2.3
    Acres



# Similar Project





#### **Similar Project**

Paradise Creek
 Nature Park –
 1141 Victory Blvd.
 Portsmouth, VA



#### **Paradise Creek Nature Park**







#### Paradise Creek Nature Park continued...







## Schedule



#### **Current Schedule**

- Complete Design Plans: November 2024 February 2025
- Construction: February 2025 October 2025
  - **Site Clearing:** February March 2025
  - **Earthwork and Landscaping:** March August 2025
  - Planting: June October 2025
- Completion: October 2025
- First Year Monitoring: October 2025 October 2026
- **Tenth Year Monitoring:** October 2035 October 2036
- Long Term Maintenance Responsibilities Begin: Oct 2036



#### **Release of Credits**

- The tidal wetland credits will be released based on the following:
  - Total Tidal Wetland credits created 8.00 acres
  - 15% (1.2 acres) available after issuing NTP for construction
  - 25% (2.0 acres) available after project is complete
  - 50% (4.0 acres) available after year one monitoring
  - 90% (7.2 acres) available after year two monitoring
  - 100% (8.0 acres) available after 10 years of monitoring



# City Commitment



#### City Responsibilities and Duration

- The Pleasure House Point Natural Area will be managed as a Natural Area Preserve by the City of Virginia Beach Department of Parks and Recreation.
- The site must be managed consistent with conservation goals used to rank and fund the project as listed below:
  - Maintain habitat values
  - Maintain Coastal Maritime Forests
  - Maintain water quality
  - Maintain educational and recreational values not detrimental to other aspects





- Maintenance and Monitoring (10-Years)
- Catastrophic Event Restoration (10-Years)
- Long-term Maintenance (Perpetual, as-needed)
- Land Use Restrictions (Perpetual)
- Reporting to the State and Federal Agencies
  - Credits Used, Periodic Inspections, Annual Maintenance

# City's Commitment





- Total Project Costs: \$12.1M
- Includes \$135K Long Term Monitoring & Management
  - Habitat Maintenance and Restoration
  - Legal Fees (if needed)
  - Facilities Maintenance
  - Yearly Monitoring & Reporting to State and Federal Agencies

# City's Financial Commitment



#### **Funding**

	Total Budgetary Cost Estimate	ATD	ВТС
Pleasure House Point Mitigation (CIP 100304)	\$12,086,638	\$426,492	\$11,660,143
Transfers proposed from	:		
Beach Replenishment II (CIP 100038) – Requested to be made whole in FY26 Budget			\$2,593,508
Rudee Inlet Weir Replacement (CIP 100617) – Requested to be made whole in FY26 Budget			\$4,066,635
Princess Anne Plaza North London Bridge Creek Pump Station (CIP 100517)			\$5,000,000
Transfer to:			
Pleasure House Point Mitigation (CIP 100304)			\$11,660,143

■ The project will be funded by the Coastal CIP and the Flood Protection Program CIP.

#### **Next Steps**

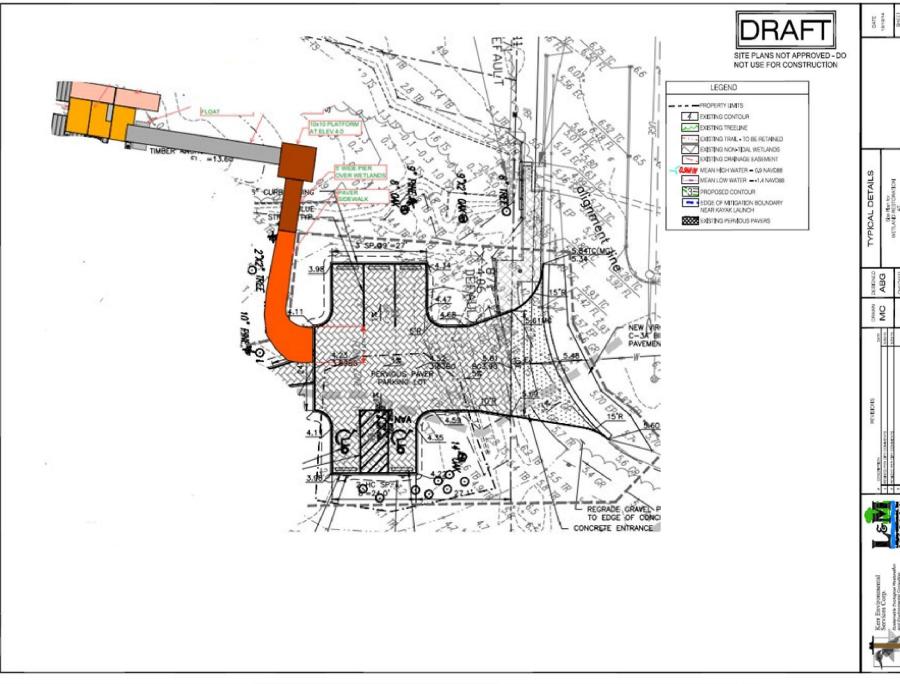
Presentation to BAC – December 19th

Ordinance to transfer funds – January 7th

**Mobilization & Construction Begin – February 2025** 

### **Questions?**



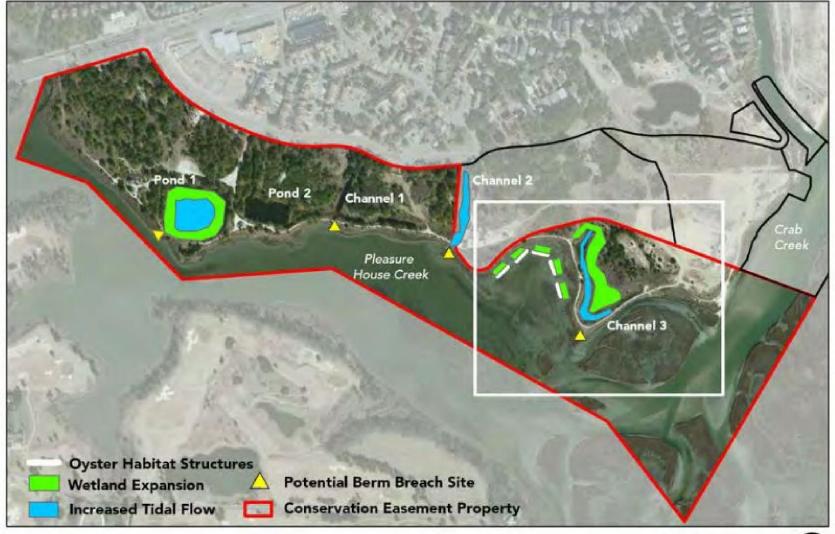






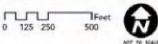


#### **Potential Wetland Restoration & Enhancement Areas**













#### **Kayak Launch Included**

- Handicap accessible kayak launch
- Ties into Pleasure House Creek











#### **Kayak Launch Included**

- Handicap accessible kayak launch
- Ties into Pleasure House Creek

