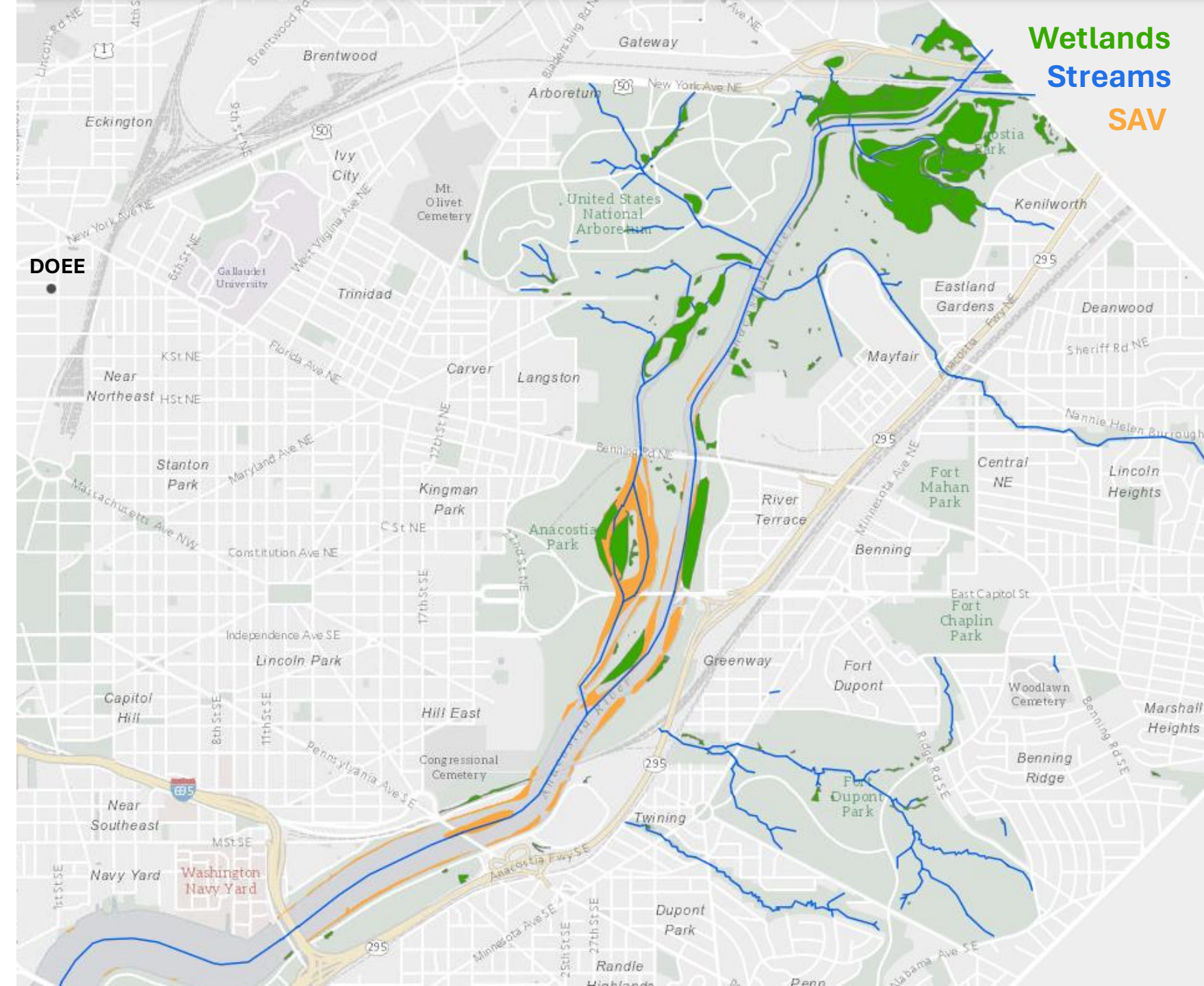


Kingman and Heritage Islands Field Trip

CBP HGIT Spring 2024



★ ★ ★ DEPARTMENT
OF ENERGY &
ENVIRONMENT



Wetlands
Streams
SAV

DC Aquatic Resource Registry



<https://www.kingmanisland.com/>





1917 vs 2023

Kingman and Heritage Islands were formed from dredge spoils in 1903

Seawall construction circa 1938 channelized the Anacostia

Northern part of Kingman Island also dredged around this time to form Kingman Lake above Benning Rd.

Finding the Island's Purpose

USACE marsh restoration project completed in 2000

- Recreational “lake”
- Gardening plots (Depression era)
- Dumping ground
- Airport
- National Children’s Bicentennial Island (1973)
- NPS land transferred to District (1996)
- Natural area for environmental education (2000 and 2016)
- Mayoral Designation as State Conservation Area (2018)

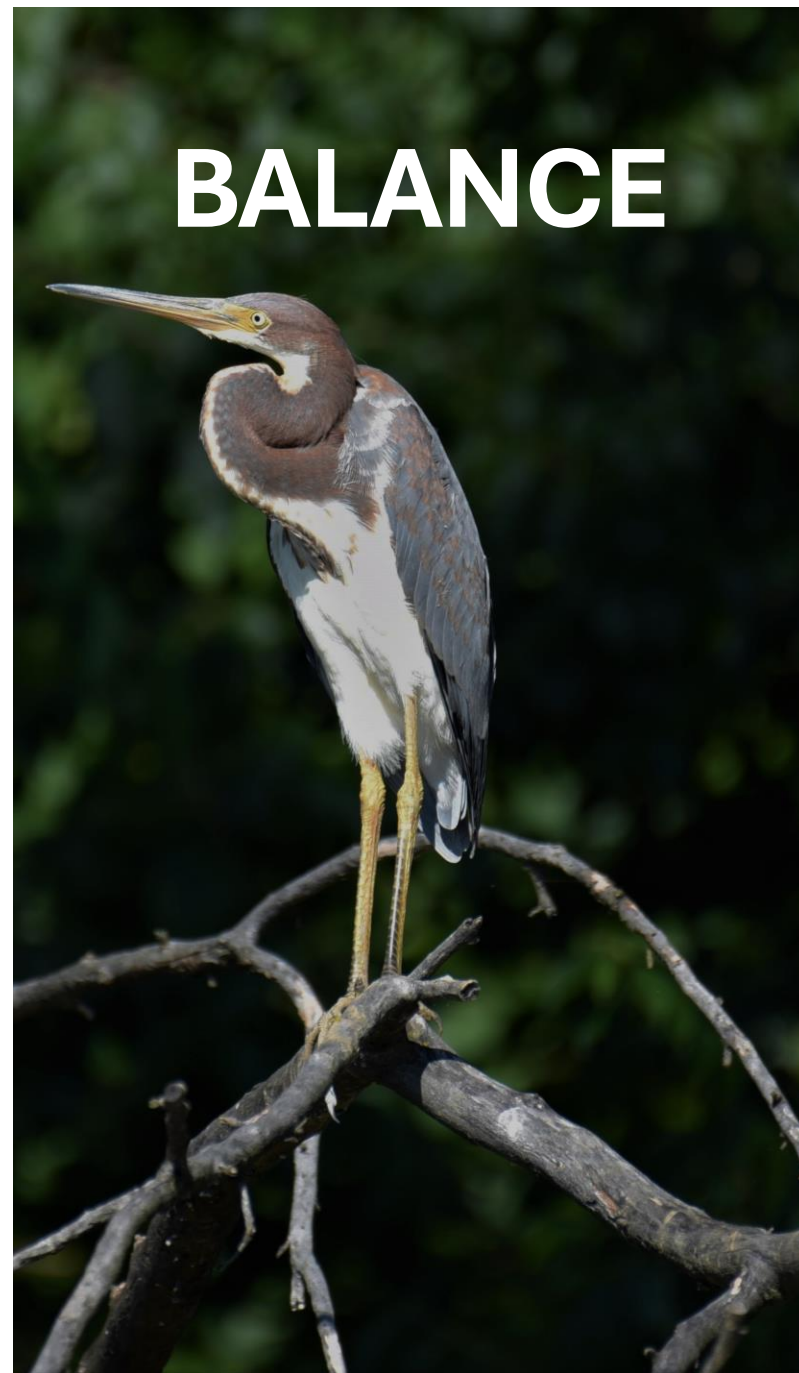
FINDING



A



BALANCE



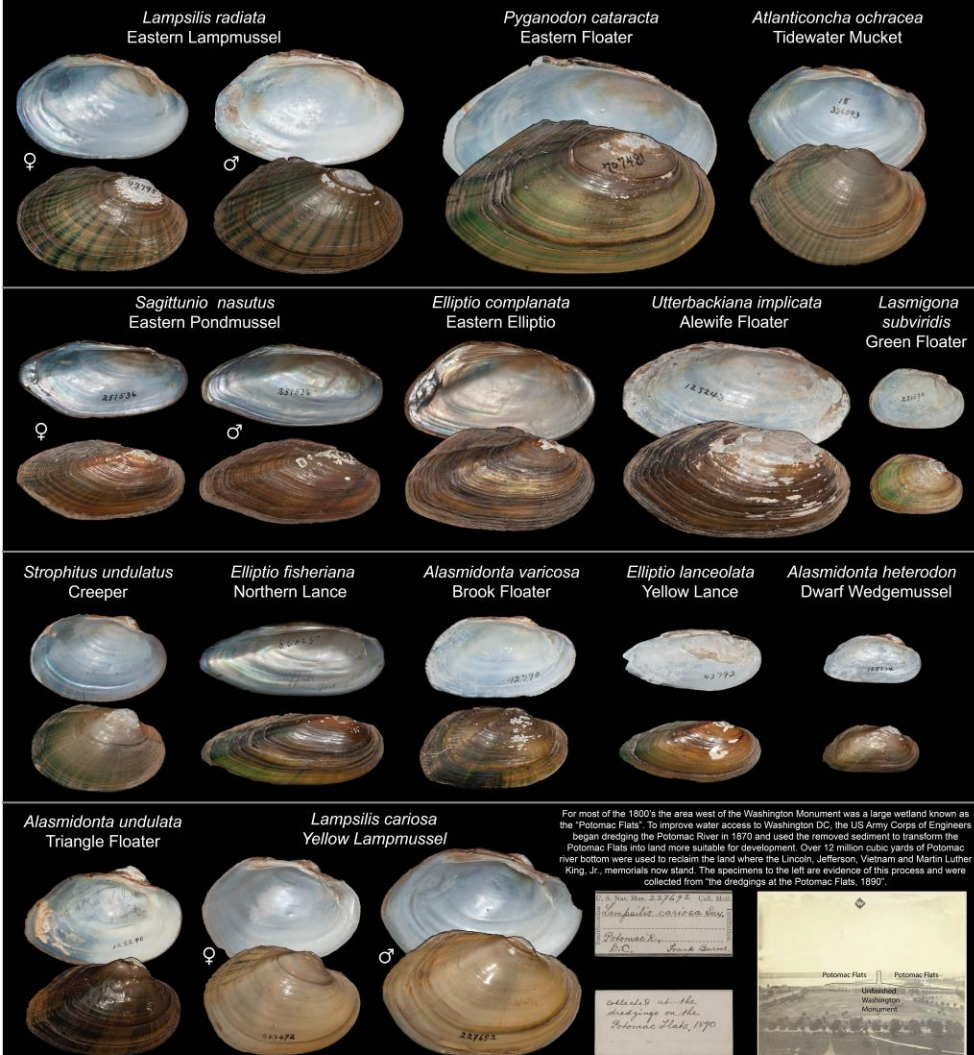
Programming & Partnerships

- Management
- Outreach
- Environmental Education
- Citizen Science
- Recreation
- Service
- Workforce Development



Freshwater Mussels of the District of Columbia

Freshwater mussels are among the most endangered animals in the United States with 90 species listed under the Endangered Species Act. Historically, at least 14 freshwater mussel species were known to occur in the District of Columbia. Unfortunately, many of these species have not been seen in the District for decades. Freshwater mussels are an ecologically important part of the Potomac River ecosystem; a single adult mussel can filter between 10-20 gallons of water a day. The decline of freshwater mussel diversity and abundance reduces the capacity of these filter feeders to provide important ecosystem services that have the potential to improve water quality. The Smithsonian's National Museum of Natural History and the Anacostia Watershed Society are working to better understand and conserve freshwater mussel biodiversity.



Achievements

- State Conservation Area and Critical Wildlife Area
- Kingman Rangers
- Restoration
 - Meadow
 - Mussels
 - Wild Rice
- Toxic waste removal
- Water Quality- DC River Tunnel

Kingman Lake Wetlands Project Goals

- Restore habitat for American black duck, striped bass, American shad, river herring, and various freshwater mussel species
- Promote natural floodplain and fringe wetland reconnection
- Increase native submerged aquatic vegetation (SAV) beds and freshwater mussel beds
- Provide nature-based solutions to minimize shoreline erosion
- Provide resilience to climate change impacts.

Alignment with District and NPS plans goals and priorities

- Sustainable DC Plan
- DC Wildlife Action Plan
- DC Climate Resilient Plan
- Anacostia River Corridor Restoration Plan

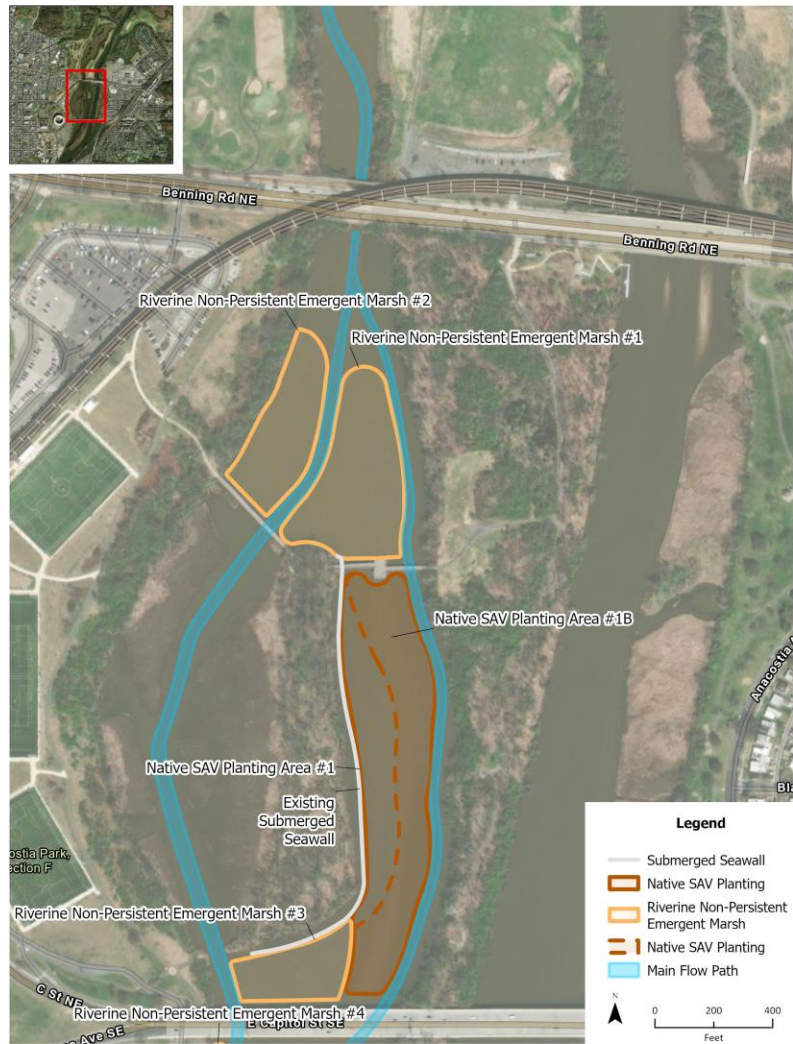
- Functional Uplift

Draft Concepts for Kingman Lake

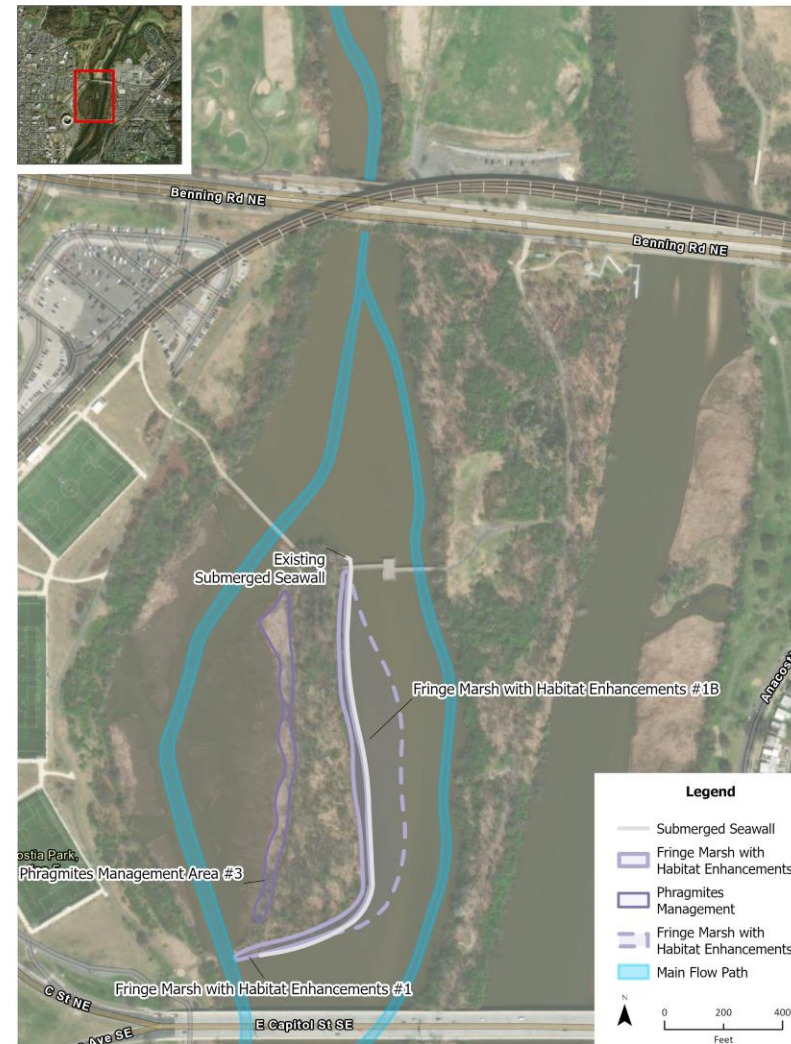


Restoration Type	Acres
Fringe Marsh with Habitat Enhancement	0.98
Mudflat Enhancement	2.52
Native SAV Planting	9.53
Phragmites Management	5.68
Riverine Non-Persistent Emergent Marsh	10.34
Woody Debris Enhancement	26.35
Total	55.4

Central Kingman Lake

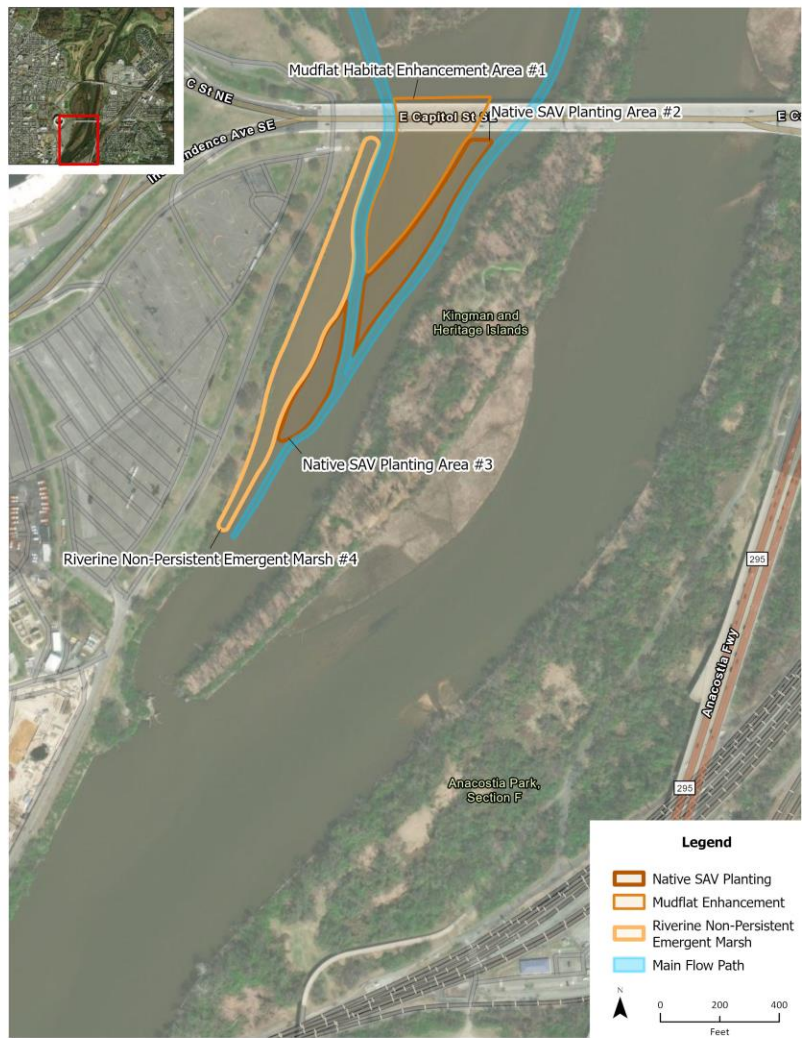


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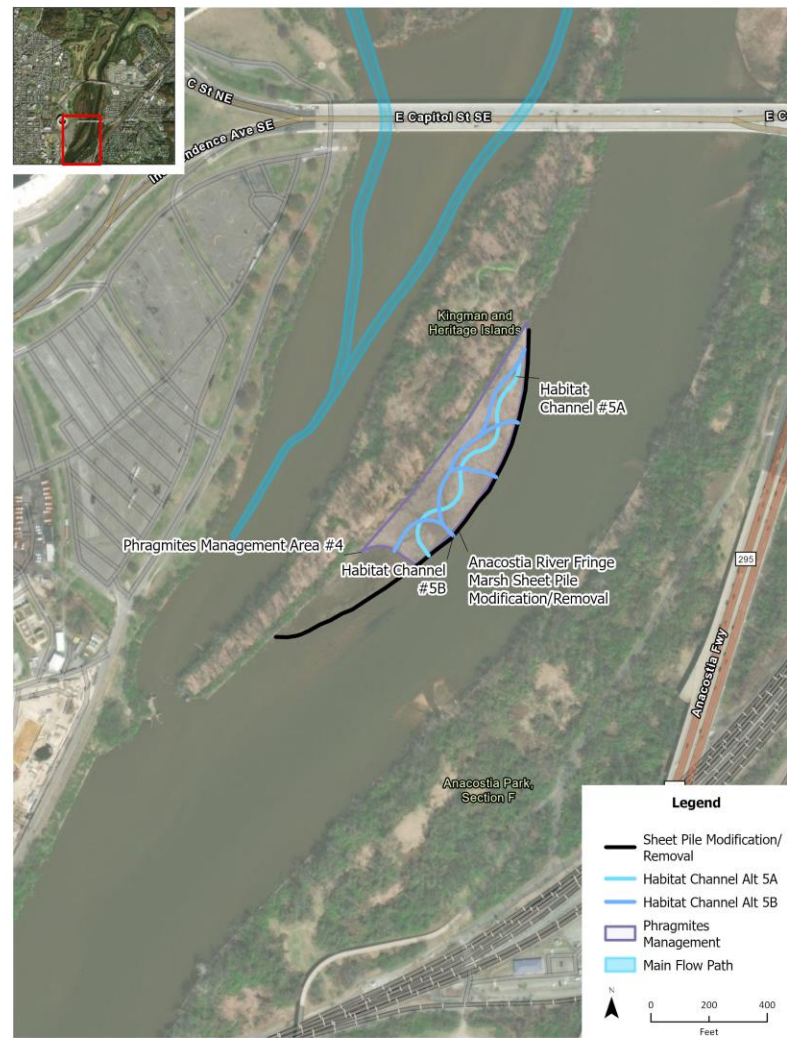


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Lower Kingman Lake



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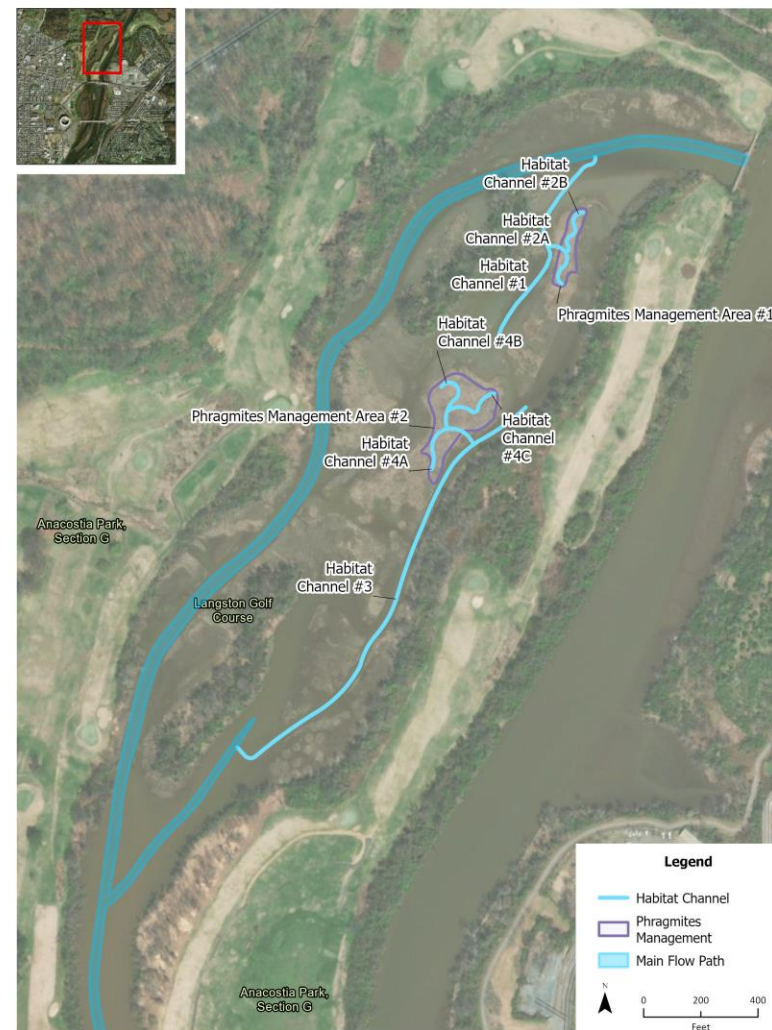
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Upper Kingman Lake



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Questions

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