



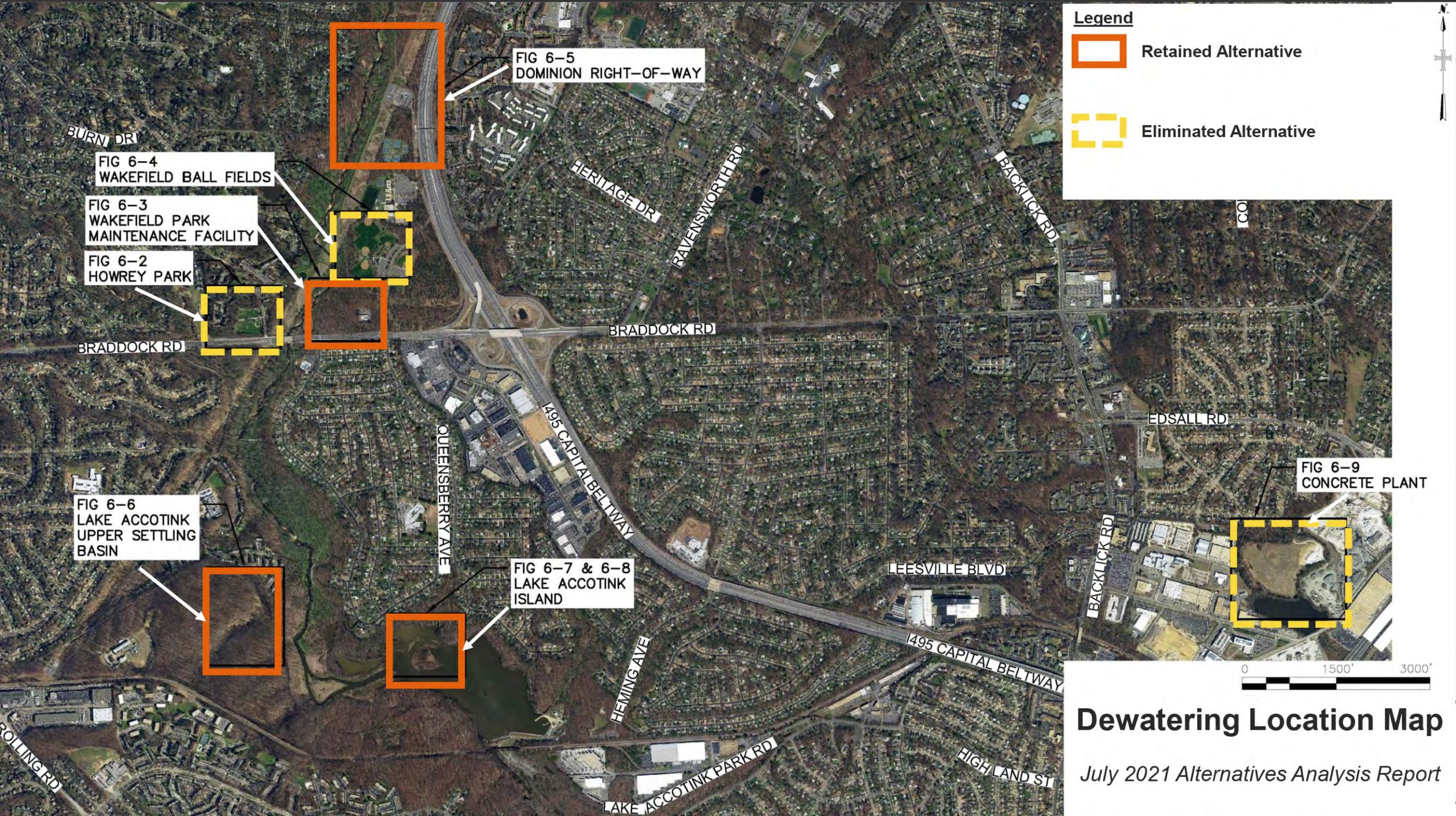
Lake Accotink Dredging

Project Update Meeting

February 10, 2022



Photo courtesy of Tom Kinder



Legend

 Retained Alternative

 Eliminated Alternative

FIG 6-5
DOMINION RIGHT-OF-WAY

FIG 6-4
WAKEFIELD BALL FIELDS

FIG 6-3
WAKEFIELD PARK
MAINTENANCE FACILITY

FIG 6-2
HOWREY PARK

FIG 6-6
LAKE ACCOTINK
UPPER SETTLING
BASIN

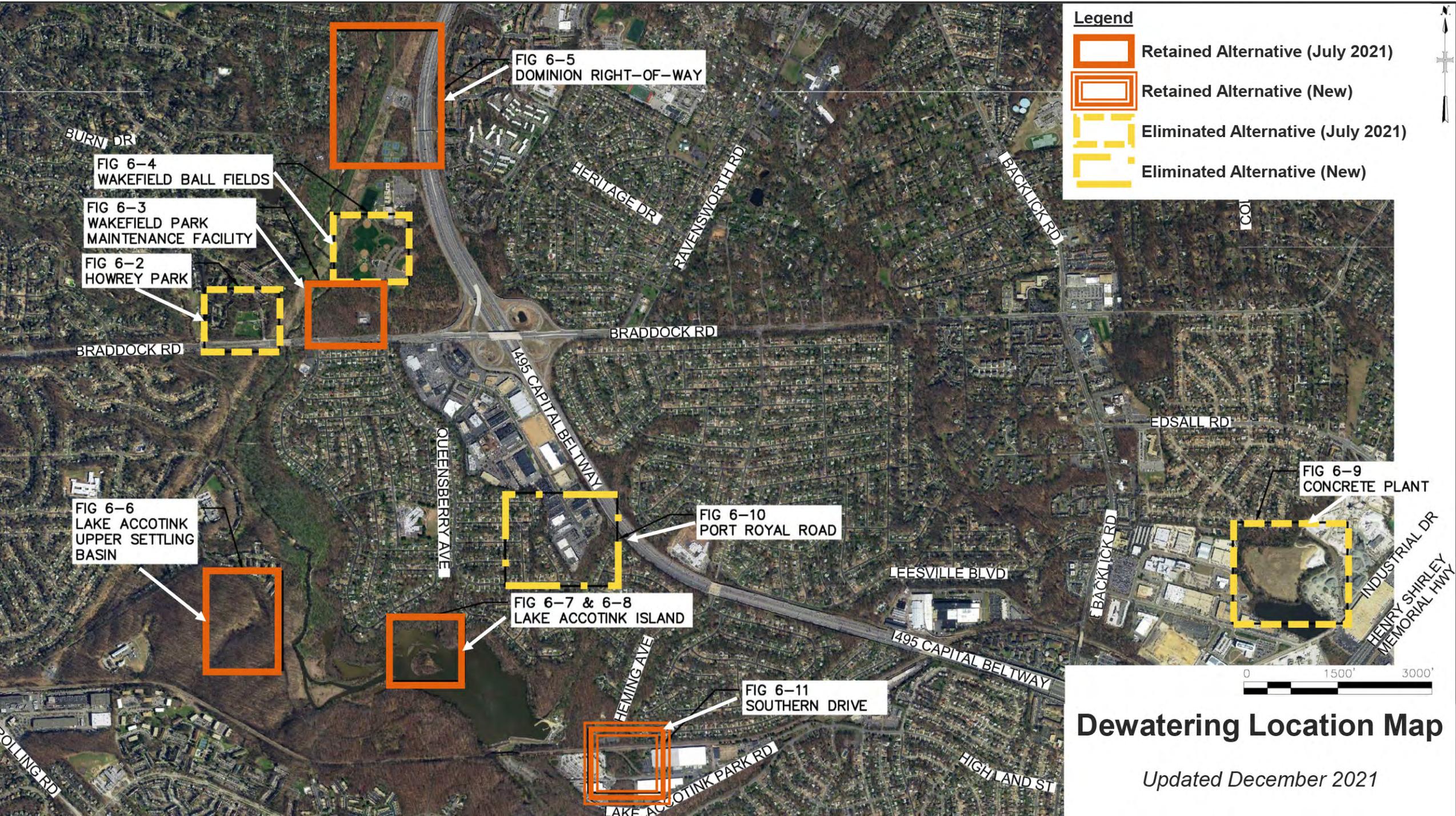
FIG 6-7 & 6-8
LAKE ACCOTINK
ISLAND

FIG 6-9
CONCRETE PLANT



Dewatering Location Map

July 2021 Alternatives Analysis Report



Legend

- Retained Alternative (July 2021)
- Retained Alternative (New)
- Eliminated Alternative (July 2021)
- Eliminated Alternative (New)

FIG 6-5 DOMINION RIGHT-OF-WAY

FIG 6-4 WAKEFIELD BALL FIELDS

FIG 6-3 WAKEFIELD PARK MAINTENANCE FACILITY

FIG 6-2 HOWREY PARK

FIG 6-6 LAKE ACCOTINK UPPER SETTLING BASIN

FIG 6-7 & 6-8 LAKE ACCOTINK ISLAND

FIG 6-10 PORT ROYAL ROAD

FIG 6-11 SOUTHERN DRIVE

FIG 6-9 CONCRETE PLANT

BURN DR

BRADDOCK RD

HERITAGE DR

RAVENSWORTH RD

BACKLICK RD

1495 CAPITAL BELTWAY

EDSALL RD

QUEENSBERRY AVE

LEESVILLE BLVD

INDUSTRIAL DR

HENRY SHIRLEY MEMORIAL HWY

POLLING RD

HIGHLAND ST

LAKE ACCOTINK PARK RD



Dewatering Location Map

Updated December 2021

Port Royal Road

Areas

Type	Acreages
Maximum Limits of Disturbance	12.4
Wetlands	0
Floodplain	0.3
Resource Protection Area	0.5

Method Compatibility*

Production (cy/day) Slurry Solids	950 7%	950 15%	1250 7%	1250 15%
Passive	Yes	Yes	Yes	Yes
Passive w/ Desanding	Yes	Yes	Maybe	Maybe
Mechanical	Yes	Yes	Maybe	Maybe
Drying Agent	No		No	

*Based on current assumptions

Rating Summary

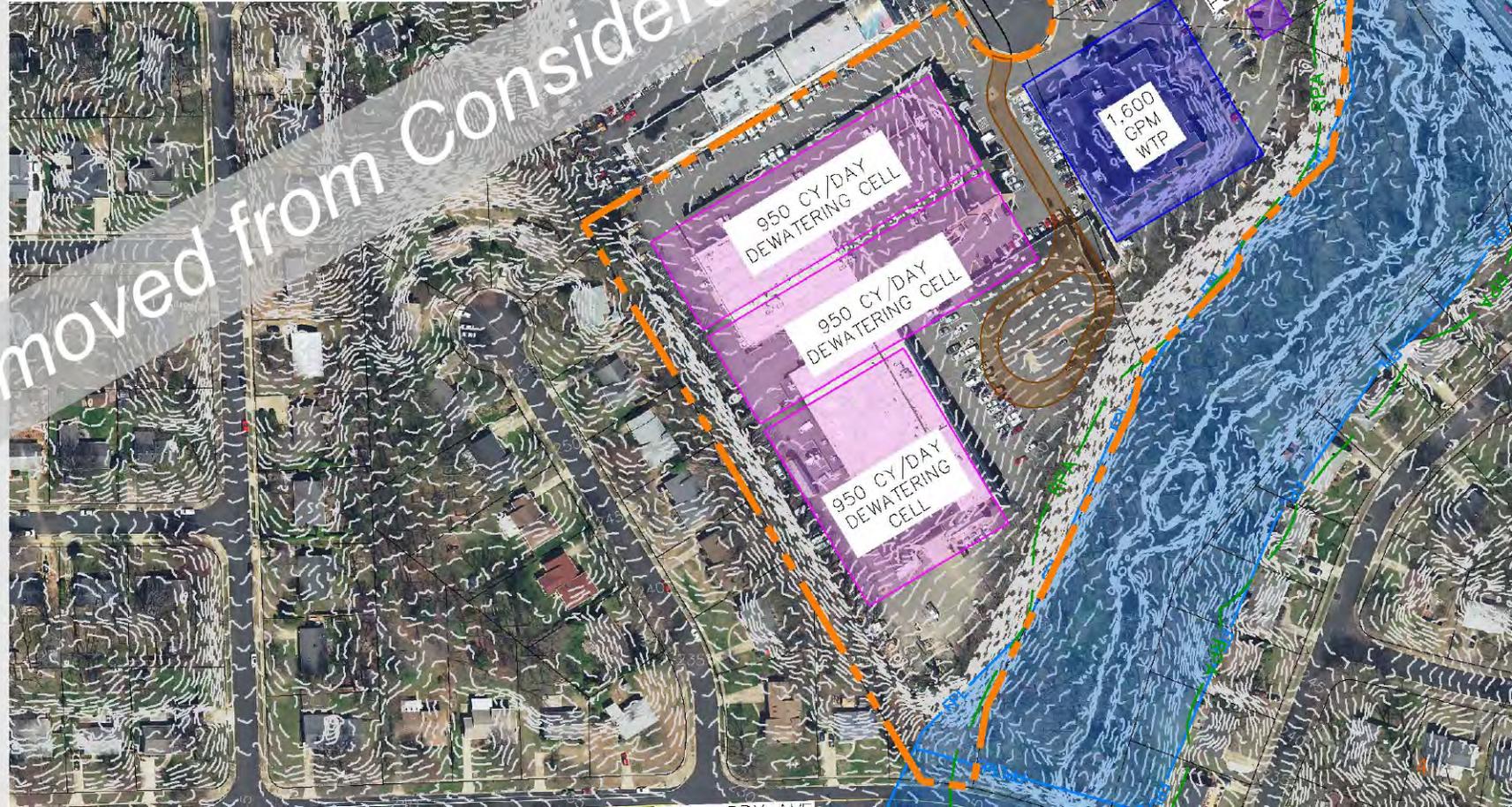


Unknown

- Building conditions (e.g., basements, asbestos)
- Use & maintenance of site between dredging



ANTICIPATED TRUCK ROUTE
SCALE: NOT TO SCALE



Southern Drive Areas

Type	Acres
Maximum Limits of Disturbance	6.4
Wetlands	0
Floodplain	0
RPA	3.1

Method Compatibility*

Production (cy/day) Slurry Solids	950 7%	950 15%	1250 7%	1250 15%
Passive	Yes	Yes	No	No
Passive w/ Desanding	No	No	No	No
Mechanical	Maybe	Yes	No	Maybe
Drying Agent	No		No	

*Based on current assumptions

Rating Summary

Clearing; Trucks; Ownership
Park Impacts; Wetland Impacts; Restoration & Remobilization

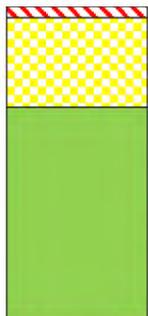
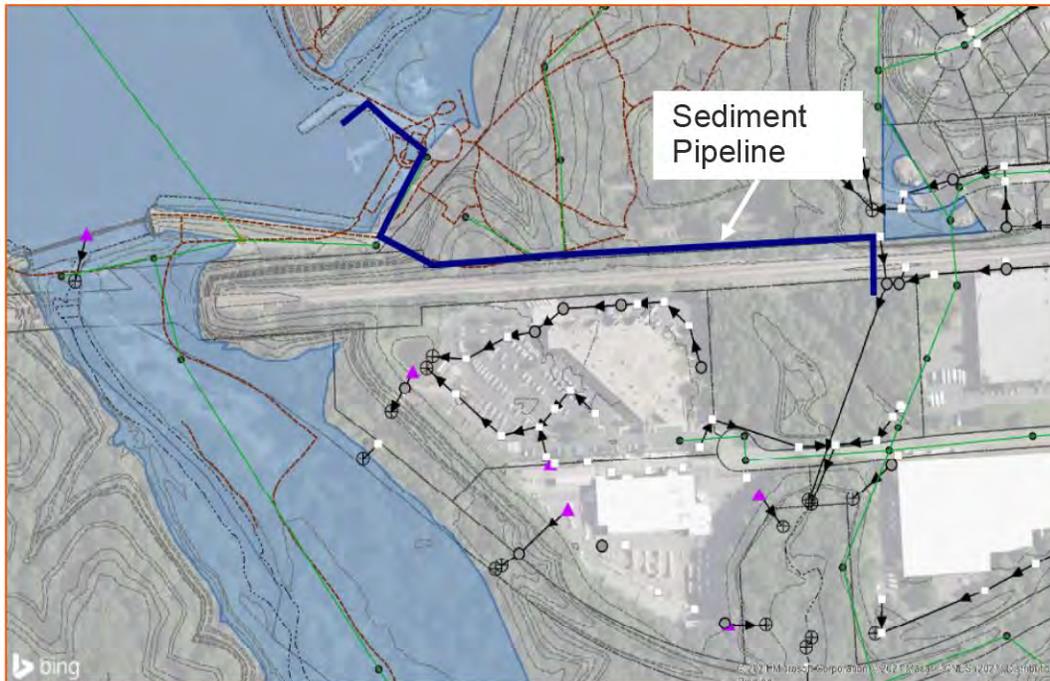
Unknown

- Property purchase/leasing/easement terms
- Environmental impacts
- Railroad spur / utility offsets or restrictions



Southern Drive – Slurry Pipeline Options

Service Road / North of RR



Low Compatibility Considerations

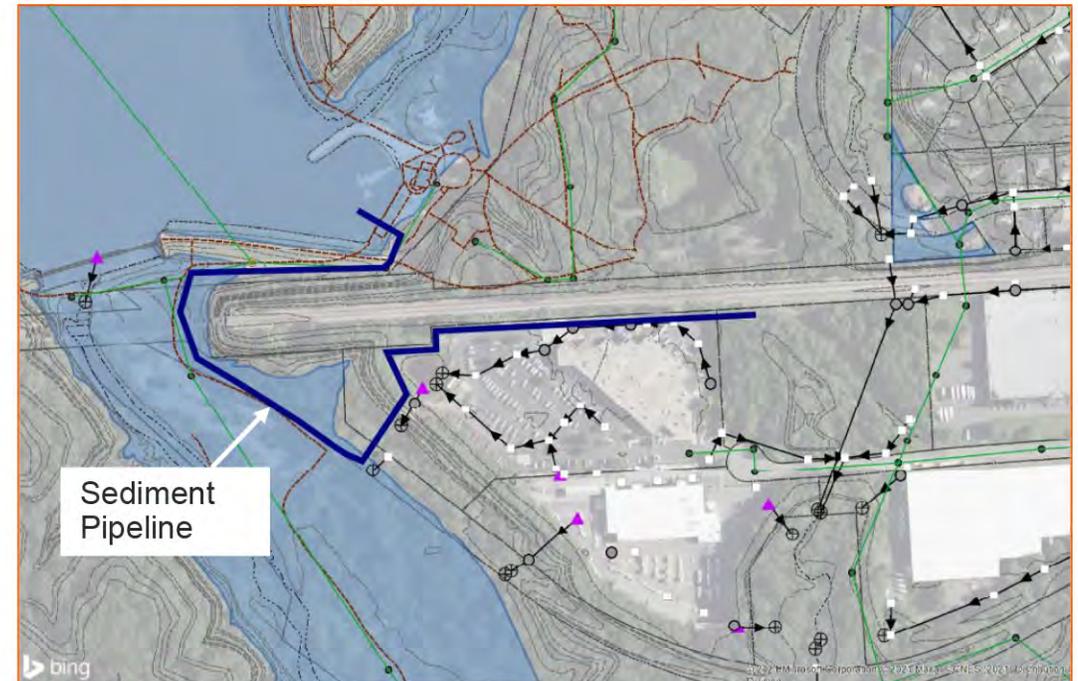
- RR Coordination
- Short term park impact during construction

High Compatibility Considerations

- Shortest alignment
- No anticipated environmental impacts
- No neighborhood impacts during construction

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Under Bridge / South of RR



Low Compatibility Considerations

- RR and private property coordination
- Potential aquatic habitat impacts
- Short term park impact during construction

High Compatibility Considerations

- Short alignment
- No neighborhood impacts during construction

Southern Drive – Resource Impacts

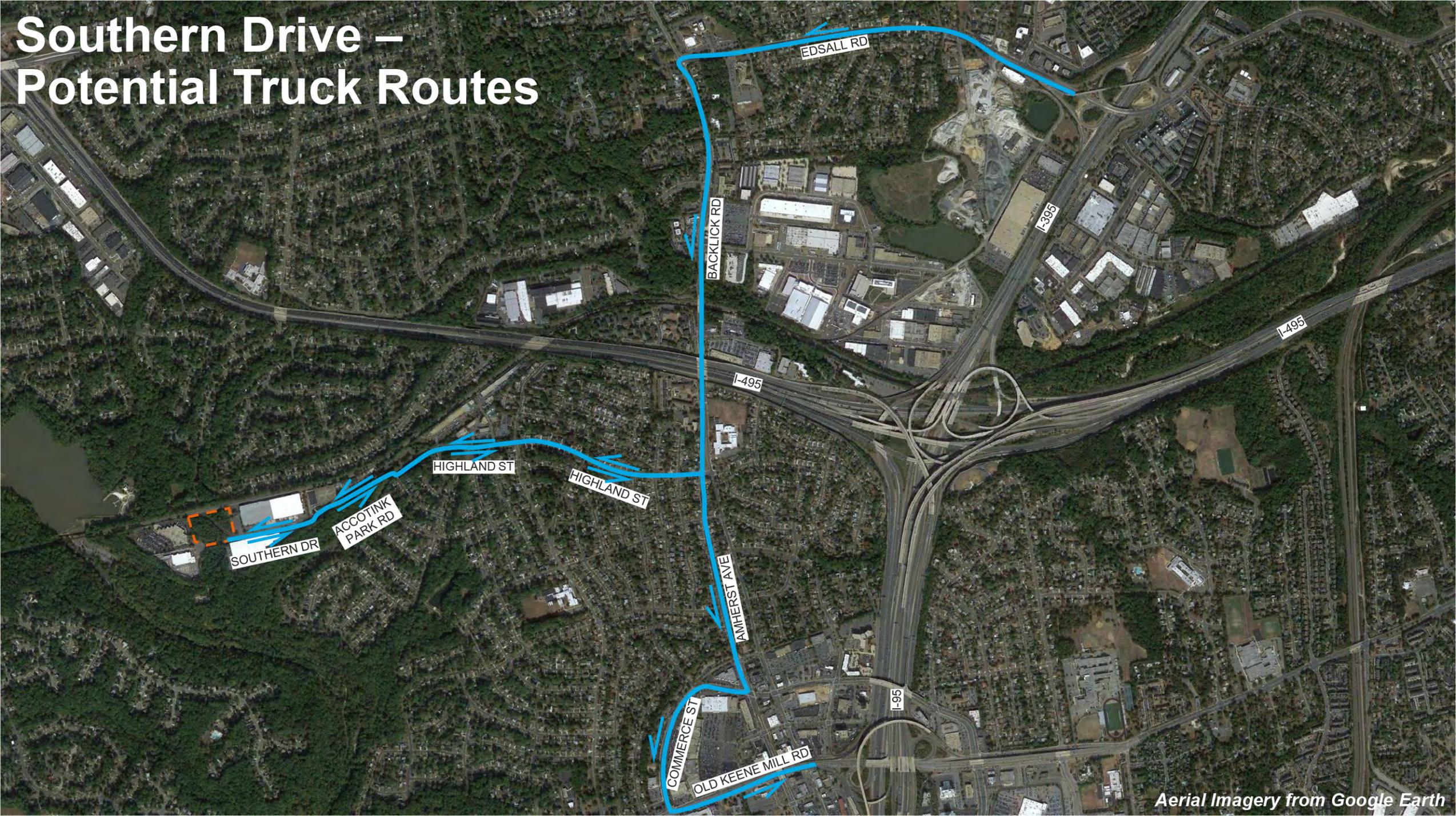
Natural Resources

- Fairfax County mapped perennial stream with possible adjacent wetlands
 - Although stream has been piped, a formal wetland delineation (and possible survey) will be needed to confirm presence or absence of wetlands.
 - Although typically removed for piped streams, the “stream” has a mapped RPA - will need to confirm RPA.
- Similar search for endangered and threatened species as other sites considered

Cultural Resources

- No previously recorded archaeological sites mapped within or adjacent to the dewatering site (based on VDHR online data)
- No indication that the site has previously been subject to cultural resources survey
- Phase I cultural resources investigation of the area will be required.

Southern Drive – Potential Truck Routes



SOUTHERN DR

ACCOTINK
PARK RD

HIGHLAND ST

HIGHLAND ST

AMHERST AVE

COMMERCE ST

OLD KEENE MILL RD

EDSALL RD

BACKLICK RD

I-395

I-495

I-495

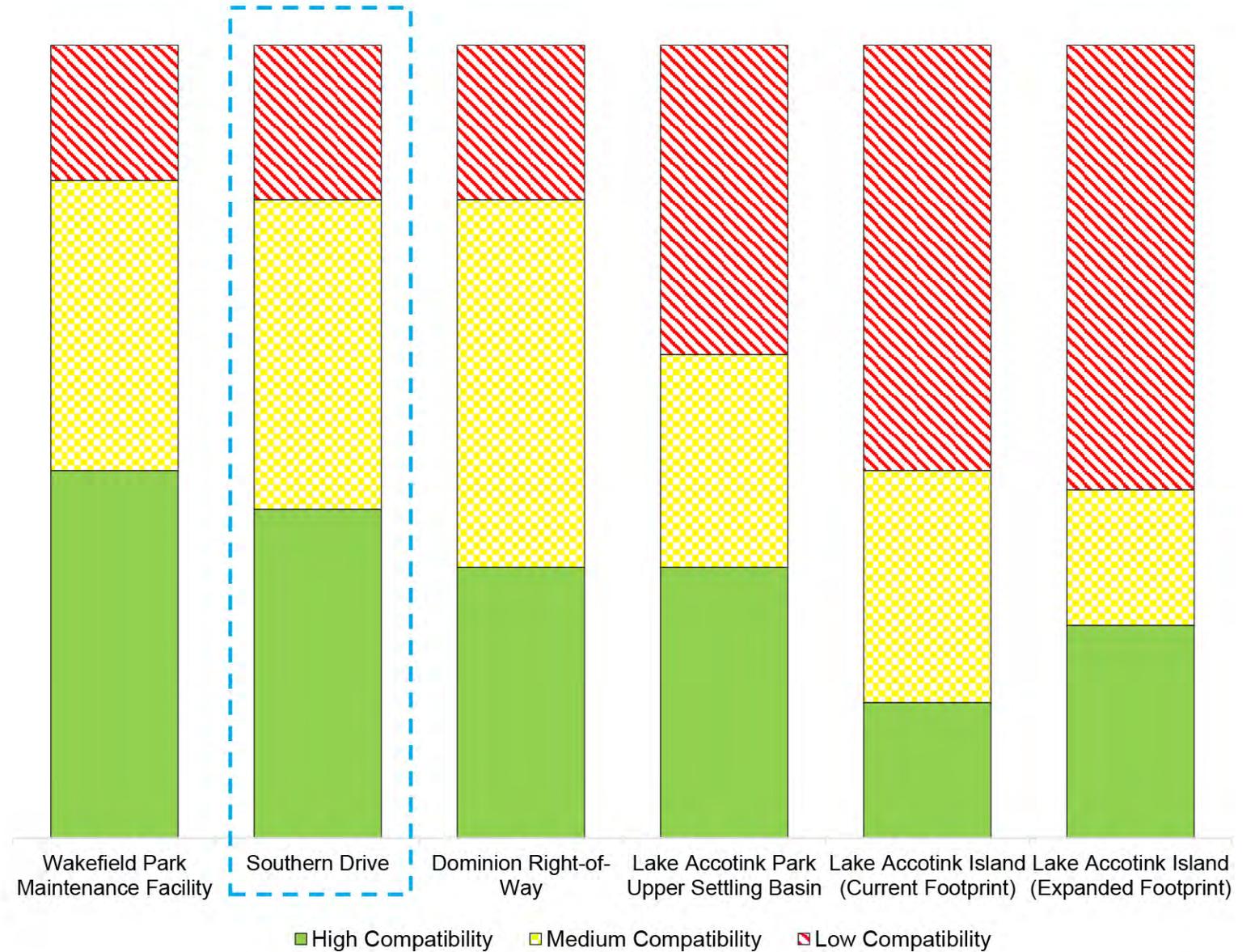
I-95

Southern Drive Traffic Impacts



Roadway Name	VDOT 2019 Traffic Data			Estimated Values		
	Average Daily Traffic (One Way Trips)	Percent Trucks	Number of Trucks	Daily Truck Traffic (One Way Trips)	Increase in Trucks	Increase in Traffic
Accotink Park Rd	2,400 to 2,600	NA	NA	190	NA	7% to 8%
Highland St	4,000 to 5,600	4.4%	176 to 246	190	77% to 108%	3% to 5%
SR-617 (Backlick Rd / Amherst Ave)	15,000 to 35,000	1.5% to 1.6%	240 to 525	95	18% to 40%	<1%

Dewatering Location Evaluation Summary As of December 2021



Summary of Additional Alternatives Eliminated

➤ Lake Accotink Upper Settling Basin: **Eliminated**

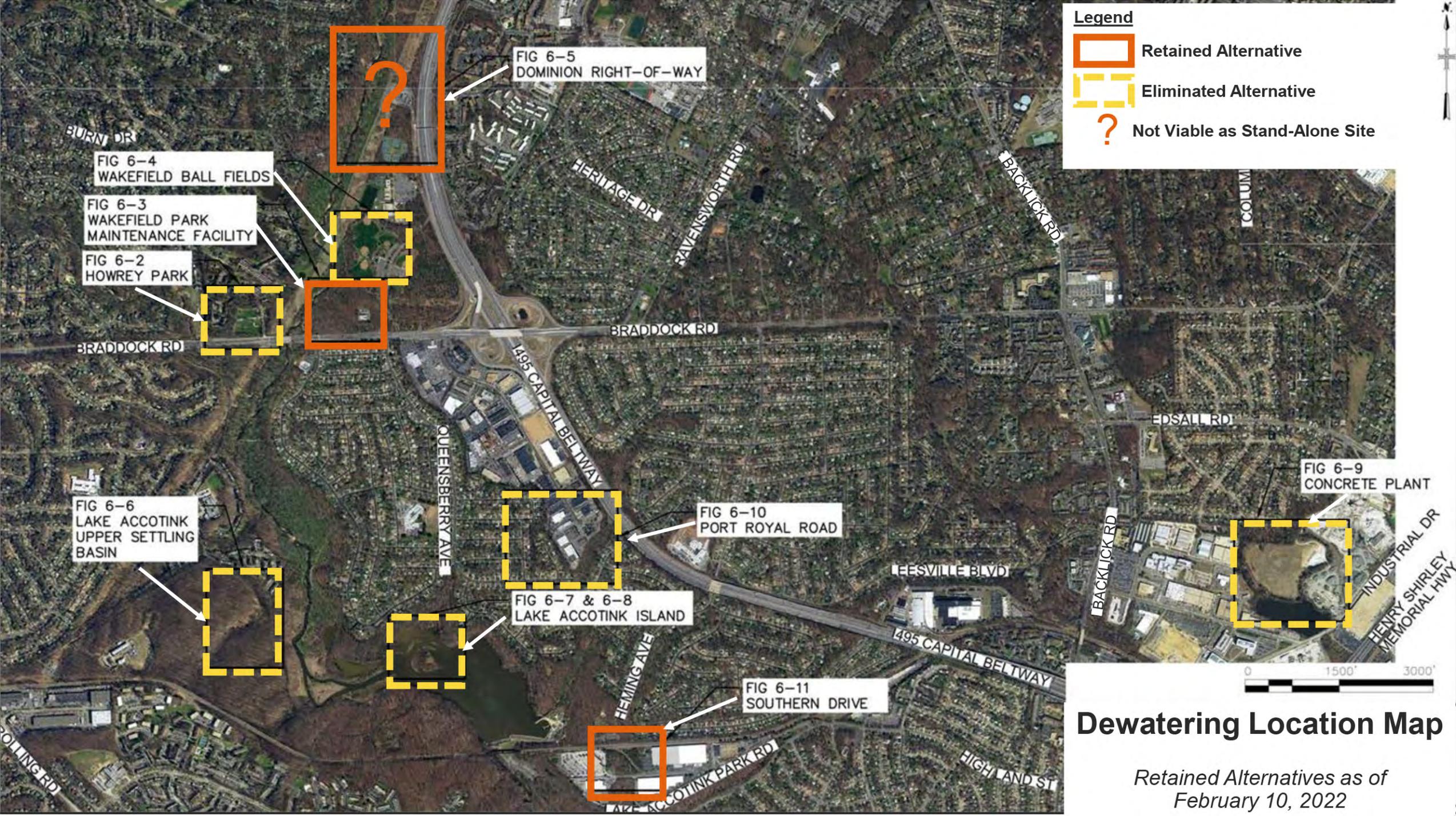
- Limited site access, limited sediment processing capacity, and infrastructure limitations (1850s railroad grade).

➤ Lake Accotink Island: **Eliminated**

- Significant environmental impacts, complex logistics, impacts of site access on communities.

➤ Dominion Right of Way: **Questionable**

- Unable to meet processing needs due to power line conflicts and active floodplain limiting sediment processing capacity.



Legend

- Retained Alternative
- Eliminated Alternative
- ? Not Viable as Stand-Alone Site

Dewatering Location Map

Retained Alternatives as of February 10, 2022

Thank You For Your Time!