





# ENVIRONMENTAL IMPACTS

### **Historic Resources**

- The Nice Bridge, including the Potomac River Bridge Administration Building, may be adversely affected under any of the build alternates
- Archeological investigations are ongoing

# Community Resources

- Institutional Displacements may include the Nice Bridge Campus Facilities, the Potomac Gateway Welcome Center, and portions of the Naval Support Facility Dahlgren
- Business Right-of-Way Impacts to the Aqua-Land Marina and Campground
- Parkland and Recreational Facilities may include Barnesfield and Dahlgren Wayside Parks and the Potomac Gateway Welcome Center
- Low-Income/Minority Population Impacts to the Aqua-Land Campground adjacent to the Nice Bridge

## Summary of Environmental Impacts Without (and With) Bike/Pedestrian Path Option

Resource	Unit	Alternates Retained For Detailed Study						
		No-Build	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7
Historic Properties								
Historic Standing Structures	no.	0	1	1	1	1	1	1
Recorded Archeology Sites	no.	0	0	0	0	0	0	0
		Commu	nity Resour	ces				
Business Displacements	no.	0	0	0	0	0	0	0
Institutional Displacements	no.	0	1	1	2	2	1	2
Residential Displacements	no.	0	0	0	0	0	0	0
Business Right-of-Way	acres	0	0	0	7.0	7.0	0	7.6 (8.5)
Federal Right-of-Way	acres	0	3.1 (3.3)	3.1	0	0	3.7	0
Residential Right-of-Way	acres	0	0	0	0	0	0	0
Parkland and Recreational Facilities	acres	0	0	0	3.9	3.9	0	6.5
Low-Income/Minority Populations	no.	0	0	0	1	1	0	1
		Natural Envir	onmental R	esources				
Prime Farmland Soils and Soils of Statewide Importance	acres	0	4.8	5.1	6.9 (7.2)	7.5	4.6	8.2
Streams	l.f.	0	2,480	2,500	3,640	3,670	2,420	3,670
Wetlands	acres	0	0.7	0.7	0.1	0.2	0.7	0.1
Open Water Impacts-Piers	acres	0	0.3 (0.4)	0.7	0.3 (0.4)	0.7	0.5 (0.6)	0.5 (0.6)
Temporary Dredge Impacts	acres	0	61 (62)	85 (88)	62 (63)	85 (89)	67 (68)	65 (67)
Chesapeake Bay Critical Areas (MD)	acres	0	14.5	14.5	24.4	24.5	14.2	24.2 (24.3)
Chesapeake Bay Preservation Areas (VA)	acres	0	3.3 (3.4)	3.4 (3.5)	1.9 (2.3)	2.2 (2.3)	3.6	2.2
100-Year Designated Floodplains	acres	0	5.9 (6.3)	7.7 (8.6)	8.1 (8.4)	8.5 (8.7)	6.4 (6.5)	8.4 (8.6)
Submerged Aquatic Vegetation (SAV)	acres	0	0	0	0	0	0	0
Rare, Threatened & Endangered Species	no.	0	0	0	0-1	0-1	0-1	0-1
Forests	acres	0	0.5	0.5	1.0	1.0	0.7	1.8 (1.9)
Noise	NSAs	0	1	1	1	1	1	1
Air Indicators		0	0	0	0	0	0	0
			Cost					
Total Estimated Costs <i>in Millions</i>	\$	\$110-120	\$410-455 (\$490-540)	\$695-770 (\$870-960)	\$460-510 (\$545-600)	\$730-805 (\$900-990)	\$610-670 (\$765-840)	\$670-740 (\$830-910)

#### Natural Environmental Resources

- Stream and Wetland Minimization and Mitigation efforts will be identified as the project continues. A Draft Compensatory Mitigation Plan has been prepared (Appendix D of the Environmental Assessment).
- Open Water and Dredge Impacts to the Potomac River are expected under any of the build alternates
- Maryland Critical Area will be reviewed and mitigated for in accordance with the Maryland Critical Area Act
- 100-Year Floodplain will require permits from Maryland Department of the Environment and Virginia Department of Conservation and Recreation in coordination with King George County
- Rare, Threatened and Endangered Species (RTEs) are based on encroachment onto the 50-foot buffer of the Bald Eagle Concentration Zone areas. No direct impacts to bald eagle nesting areas or any other RTEs or habitat are anticipated.
- Forest Impacts are limited to fragmented stands or small isolated groups of trees along US 301
- One Noise Sensitive Area, at Dahlgren Wayside Park, would experience noise level increases. A determination of any noise abatement will be made during final design.