

# ENVIRONMENTAL IMPACTS

CATEGORY	IMPACTS			
	NO-BUILD	BUILD ALTERNATIVE 2A	BUILD ALTERNATIVE 2B	PREFERRED ALTERNATIVE
Homes Displaced	0	15	11	11
Section 4(f) Properties Encroached Upon	0	7	5	1
Historic Properties Encroached Upon	0	4	3	0
Number of Streams	0	126	120	102
Length of Streams (linear feet)	0	22,185	22,227	22,371
<i>Within Existing Right of Way</i>		19,968	19,968	19,968
<i>Within Areas of New Right of Way</i>		2,217	2,259	2,403
Wetlands (acres)	0	23.13	23.26	22.84
<i>Within Existing Right of Way</i>		19.11	19.11	19.11
<i>Within Areas of New Right of Way</i>		4.02	4.15	3.73
Floodplains (acres)	0	64.71	61.18	60.09
<i>Within Existing Right of Way</i>		59.94	59.94	59.94
<i>Within Areas of New Right of Way</i>		4.77	1.24	0.15
Violations of National Ambient Air Quality Standards	0	0	0	0
Noise Impacts	500 homes	2,426 homes	2,184 homes	Impacts would likely be within the range identified for Alternatives 2A and 2B. The final design noise analysis will capture noise impacts and abatement measures based on the final design of the Preferred Alternative.

**Notes:**

1. For purposes of NEPA, all build alternatives are assumed to potentially impact all streams and wetlands within existing VDOT right of way, in accordance with comments from the US Army Corps of Engineers. The actual impacts will depend on the final construction limits to be determined during final design.
2. "Areas of new right of way" refers to additional right of way that would need to be acquired by VDOT to implement the project, including the new park- and-ride lots.
3. Noise impacts calculated for the build alternatives take into account the removal of existing noise barriers that would be necessary to implement the project. Replacement of these barriers is accounted for in the abatement analysis.
4. Final decisions on noise barrier configurations would be based on updated noise analysis during final design and the opinions of affected property owners regarding the implementation of noise barriers.