## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_338 WILLIS RIVER DAM #4

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 4

Bay-wide Brook Trout Tier N/A

NID ID VA02904

State ID 338

River Name Cattail Creek

Dam Height (ft) 43.6

Dam Type Earth

Latitude 37.4415

Longitude -78.4167

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

HUC 12 Whispering Creek-Willis River

HUC 10 Upper Willis River

HUC 8 Middle James-Willis

HUC 6 James

HUC 4 Lower Chesapeake







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.11	% Tree Cover in ARA of Upstream Network	86.18
% Natural Cover in Upstream Drainage Area	74.63	% Tree Cover in ARA of Downstream Network	88.09
% Forested in Upstream Drainage Area	70.14	% Herbaceaous Cover in ARA of Upstream Network	9.86
% Agriculture in Upstream Drainage Area	23.49	% Herbaceaous Cover in ARA of Downstream Network	10.47
% Natural Cover in ARA of Upstream Network	87.88	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	89.75	% Barren Cover in ARA of Downstream Network	0.31
% Forest Cover in ARA of Upstream Network	78.3	% Road Impervious in ARA of Upstream Network	0.09
% Forest Cover in ARA of Downstream Network	59.92	% Road Impervious in ARA of Downstream Network	0.24
% Agricultral Cover in ARA of Upstream Network	11.89	% Other Impervious in ARA of Upstream Network	0.05
% Agricultral Cover in ARA of Downstream Network	9.36	% Other Impervious in ARA of Downstream Network	0.11
% Impervious Surf in ARA of Upstream Network	0.01		
% Impervious Surf in ARA of Downstream Network	0.07		



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CFPPP Unique ID: VA 338 WILLIS RIVER DAM #4 Network, System Type and Condition Functional Upstream Network (mi) 9.58 Upstream Size Class Gain (#) O Total Functional Network (mi) 174.11 # Downsteam Natural Barriers 0 Absolute Gain (mi) 9.58 2 # Downstream Hydropower Dams # Size Classes in Total Network 3 # Downstream Dams with Passage # Upstream Network Size Classes 2 # of Downstream Barriers NEHAP Cumulative Disturbance Index High Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network % Conserved Land in 100m Buffer of Downstream Network 3.36 Density of Crossings in Upstream Network Watershed (#/m2) 0.33 Density of Crossings in Downstream Network Watershed (#/m2) 0.5 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2)  $\cap$ Diadromous Fish Downstream Alewife Historical Downstream Striped Bass None Documented Downstream Blueback Historical Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented None Documented Downstream Shortnose Sturgeon Downstream American Eel Downstream Hickory Shad None Documented Current One or More DS Anadromous Species Historical # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health FAIR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment Nο MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 51 VA INSTAR mIBI Stream Health Moderate 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 3 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Nο Nο Globally rare or fed listed fish/mussel sp in Rare fish or mussel in upstream or



No

upstream or downstream functional network

No

downstream functional network