Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_335 WILLIS RIVER DAM #1A

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 3
Bay-wide Brook Trout Tier N/A

NID ID VA02901

State ID 335

River Name Willis River

Dam Height (ft) 41.7

Dam Type Earth

Latitude 37.44

Longitude -78.5448

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Bishop 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	0.08	% Tree Cover in ARA of Upstream Network	90.59
% Natural Cover in Upstream Drainage Area	83.78	% Tree Cover in ARA of Downstream Network	88.09
% Forested in Upstream Drainage Area	67.91	% Herbaceaous Cover in ARA of Upstream Network	7.68
% Agriculture in Upstream Drainage Area	14.53	% Herbaceaous Cover in ARA of Downstream Network	10.47
% Natural Cover in ARA of Upstream Network	91.33	% 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	69.73	% Road Impervious in ARA of Upstream Network	0.16
% 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	7.91	% Other Impervious in ARA of Upstream Network	0.03
% 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	0.02		
% Impervious Surf in ARA of Downstream Network	0.07		



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CFPPP Unique ID: VA 335 WILLIS RIVER DAM #1A Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 24.2 Total Functional Network (mi) 188.73 # Downsteam Natural Barriers 0 Absolute Gain (mi) 24.2 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 Very High Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 38.88 % Conserved Land in 100m Buffer of Downstream Network 3.36 Density of Crossings in Upstream Network Watershed (#/m2) 0.52 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 Hickory Shad None Documented Downstream American Eel 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 No



downstream functional network

upstream or downstream functional network