Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_984 BUFFALO RIVER DAM #4A

Bay-wide Diadromous Tier 8
Bay-wide Resident Tier 6
Bay-wide Brook Trout Tier N/A
NID ID VA00924
State ID 984
River Name Mill Creek
Dam Height (ft) 64

Dam Type Earth
Latitude 37.6591
Longitude -79.0786

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)
HUC 12 Stonewall Creek-Buffalo River

HUC 10 Buffalo River

HUC 8 Middle James-Buffalo

HUC 6 James

HUC 4 Lower Chesapeake







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.51	% Tree Cover in ARA of Upstream Network	66.3
% Natural Cover in Upstream Drainage Area	54.72	% Tree Cover in ARA of Downstream Network	78.06
% Forested in Upstream Drainage Area	50.75	% Herbaceaous Cover in ARA of Upstream Network	22.55
% Agriculture in Upstream Drainage Area	40	% Herbaceaous Cover in ARA of Downstream Network	20.46
% Natural Cover in ARA of Upstream Network	67.28	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	68.36	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	57.21	% Road Impervious in ARA of Upstream Network	0.65
% Forest Cover in ARA of Downstream Network	67.89	% Road Impervious in ARA of Downstream Network	0.79
% Agricultral Cover in ARA of Upstream Network	28.62	% Other Impervious in ARA of Upstream Network	0.24
% Agricultral Cover in ARA of Downstream Network	23.78	% Other Impervious in ARA of Downstream Network	0.3
% Impervious Surf in ARA of Upstream Network	0.35		
% Impervious Surf in ARA of Downstream Network	0.66		



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CFPPP Unique ID: VA 984 **BUFFALO RIVFR DAM #4A** Network, System Type and Condition Functional Upstream Network (mi) 27.75 Upstream Size Class Gain (#) O Total Functional Network (mi) 221.39 # Downsteam Natural Barriers 0 Absolute Gain (mi) 27.75 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 Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 4.92 % Conserved Land in 100m Buffer of Downstream Network 10.99 Density of Crossings in Upstream Network Watershed (#/m2) 1.21 Density of Crossings in Downstream Network Watershed (#/m2) 1.31 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Λ 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 Yes 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) 50 VA INSTAR mIBI Stream Health Moderate 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 4 # 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

