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

CFPPP Unique ID: VA\_1046 JOHNS CREEK DAM #4

Bay-wide Diadromous Tier 8
Bay-wide Resident Tier 1
Bay-wide Brook Trout Tier N/A

NID ID VA04504 State ID 1046

River Name Dicks Creek

Dam Height (ft) 95

Dam Type Earth
Latitude 37.4372

Longitude -80.3769

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Upper Johns Creek

HUC 10 Johns Creek
HUC 8 Upper James

HUC 6 James

HUC 4 Lower Chesapeake







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.09	% Tree Cover in ARA of Upstream Network	88.94
% Natural Cover in Upstream Drainage Area	97.24	% Tree Cover in ARA of Downstream Network	79.82
% Forested in Upstream Drainage Area	96.68	% Herbaceaous Cover in ARA of Upstream Network	8.09
% Agriculture in Upstream Drainage Area	1.5	% Herbaceaous Cover in ARA of Downstream Network	16.17
% Natural Cover in ARA of Upstream Network	89.82	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	76.44	% Barren Cover in ARA of Downstream Network	0.07
% Forest Cover in ARA of Upstream Network	87.87	% Road Impervious in ARA of Upstream Network	1.11
% Forest Cover in ARA of Downstream Network	73.79	% Road Impervious in ARA of Downstream Network	1.21
% Agricultral Cover in ARA of Upstream Network	5.41	% Other Impervious in ARA of Upstream Network	0.63
% Agricultral Cover in ARA of Downstream Network	14.36	% Other Impervious in ARA of Downstream Network	1.07
% Impervious Surf in ARA of Upstream Network	0.36		
% Impervious Surf in ARA of Downstream Network	1.46		



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CFPPP Unique ID: VA 1046 **JOHNS CREEK DAM #4** Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 13.07 Total Functional Network (mi) 4255.83 # Downsteam Natural Barriers 0 Absolute Gain (mi) 13.07 2 # Downstream Hydropower Dams # Size Classes in Total Network 5 4 # Downstream Dams with Passage # Upstream Network Size Classes # of Downstream Barriers 1 11 NEHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 66.37 % Conserved Land in 100m Buffer of Downstream Network 44.34 Density of Crossings in Upstream Network Watershed (#/m2) 1.08 Density of Crossings in Downstream Network Watershed (#/m2) 1.42 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 None Documented Downstream Hickory Shad None Documented Downstream American Eel 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 GOOD 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) 47 VA INSTAR mIBI Stream Health utstanding 2 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 6 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Yes Yes Globally rare or fed listed fish/mussel sp in Rare fish or mussel in upstream or Yes Yes downstream functional network



upstream or downstream functional network