Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1097 LAKE FREDRICK DAM

Bay-wide Diadromous Tier 13
Bay-wide Resident Tier 6

Bay-wide Brook Trout Tier N/A

NID ID VA06913 State ID 1097

River Name Crooked Run

Dam Height (ft) 74

Dam Type Gravity
Latitude 39.0424
Longitude -78.1583

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Crooked Run

HUC 10 Crooked Run-Shenandoah River

HUC 8 Shenandoah
HUC 6 Potomac
HUC 4 Potomac







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.71	% Tree Cover in ARA of Upstream Network	63.86
% Natural Cover in Upstream Drainage Area	65.05	% Tree Cover in ARA of Downstream Network	59.79
% Forested in Upstream Drainage Area	56.12	% Herbaceaous Cover in ARA of Upstream Network	13.57
% Agriculture in Upstream Drainage Area	27.21	% Herbaceaous Cover in ARA of Downstream Network	28.7
% Natural Cover in ARA of Upstream Network	82.49	% Barren Cover in ARA of Upstream Network	0.95
% Natural Cover in ARA of Downstream Network	61.79	% Barren Cover in ARA of Downstream Network	0.68
% Forest Cover in ARA of Upstream Network	62.65	% Road Impervious in ARA of Upstream Network	0.36
% Forest Cover in ARA of Downstream Network	53.27	% Road Impervious in ARA of Downstream Network	1.87
% Agricultral Cover in ARA of Upstream Network	14.71	% Other Impervious in ARA of Upstream Network	2.31
% Agricultral Cover in ARA of Downstream Network	28.34	% Other Impervious in ARA of Downstream Network	2.27
% Impervious Surf in ARA of Upstream Network	0.39		
% Impervious Surf in ARA of Downstream Network	1.76		



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA 1097 LAKE FREDRICK DAM Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 9.86 Total Functional Network (mi) 842.38 # Downsteam Natural Barriers 1 Absolute Gain (mi) 9.86 2 # Downstream Hydropower Dams # Size Classes in Total Network 5 # Downstream Dams with Passage 3 # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 14.88 % Conserved Land in 100m Buffer of Downstream Network 30.89 Density of Crossings in Upstream Network Watershed (#/m2) Density of Crossings in Downstream Network Watershed (#/m2) 1.29 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 None Documented None Documented Downstream Striped Bass Downstream Blueback None Documented 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 None Docume # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health POOR 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) Yes MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 36 VA INSTAR mIBI Stream Health High 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 0 # 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