Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_685 LEON HANSEN DAM

Bay-wide Diadromous TierBay-wide Resident Tier2

Bay-wide Brook Trout Tier N/A

NID ID VA04915

State ID 685

River Name Hooper Rock Creek

Dam Height (ft) 35

Dam Type Earth

Latitude 37.7411

Longitude -78.1514

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Hooper Rock Creek-James River

HUC 10 Deep Creek-James 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	0.16	% Tree Cover in ARA of Upstream Network	87.74
% Natural Cover in Upstream Drainage Area	85.64	% Tree Cover in ARA of Downstream Network	79.1
% Forested in Upstream Drainage Area	65.42	% Herbaceaous Cover in ARA of Upstream Network	2.43
% Agriculture in Upstream Drainage Area	12.07	% Herbaceaous Cover in ARA of Downstream Network	15.73
% Natural Cover in ARA of Upstream Network	93.52	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1
% Forest Cover in ARA of Upstream Network	70.17	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6
% Agricultral Cover in ARA of Upstream Network	6.48	% Other Impervious in ARA of Upstream Network	0.1
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78
% Impervious Surf in ARA of Upstream Network	0		
% Impervious Surf in ARA of Downstream Network	0.71		



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CFPPP Unique ID: VA 685 LEON HANSEN DAM Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 6.26 Total Functional Network (mi) 5437.28 # Downsteam Natural Barriers 0 Absolute Gain (mi) 6.26 2 # Downstream Hydropower Dams # Size Classes in Total Network 6 # Downstream Dams with Passage # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index High Dam is on Conserved Land Yes % Conserved Land in 100m Buffer of Upstream Network 27.55 % Conserved Land in 100m Buffer of Downstream Network 11.23 Density of Crossings in Upstream Network Watershed (#/m2) 3.15 Density of Crossings in Downstream Network Watershed (#/m2) 0.84 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 **Potential Current** Downstream Striped Bass None Documented Downstream Blueback **Potential Current** 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 Potential Curre # 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) 51 VA INSTAR mIBI Stream Health Very High 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 3 # Rare Crayfish (HUC8) 0



No

Yes

Rare fish or mussel sp in HUC12

Rare fish or mussel in upstream or

downstream functional network

Globally rare or fed listed fish/mussel sp HUC12

Globally rare or fed listed fish/mussel sp in

upstream or downstream functional network

No

Yes