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							



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CIFFF Offique ID. VA_1037	LAKETKEDKICK						
	Network, Sy	stem 1	Type and Cond	ition			
Functional Upstream Network (mi) 9.86			Upstrea	am Size Class Gain (‡	÷)	0	
Total Functional Network (mi) 842.38			# Downsteam Natural Barriers			1	
Absolute Gain (mi) 9.86			# Downstream Hydropower Dams			2	
# Size Classes in Total Network 5			# Downstream Dams with Passage			3	
# Upstream Network Size Classes 1			# of Downstream Barriers			4	
NFHAP Cumulative Disturband	ce Index			Moderate			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network				14.88			
% Conserved Land in 100m Bu	iffer of Downstream Net	work		30.89			
Density of Crossings in Upstre	am Network Watershed	(#/m2	2)	0			
Density of Crossings in Downs	tream Network Watersh	ned (#/	m2)	1.29			
Density of off-channel dams in	n Upstream Network Wa	itershe	ed (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Water	shed (#/m2)	0			
		iadror	nous Fish				
Downstream Alewife	tream Alewife None Documented		Downstream Striped Bass None Doo			umented	
Downstream Blueback	n Blueback None Documented		Downstream Atlantic Sturgeon None Doc			umented	
Downstream American Shad	None Documented		Downstream S	hortnose Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Downstream A	American Eel	Current		
Presence of 1 or More Downs	stream Anadromous Spe	cies	None Docume				
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish				Stream Health			
		No	Chesape	Chesapeake Bay Program Stream Health POOR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health		N/A	
Barrier Blocks an EBTJV Catchment		Yes	MD MBS	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) Ye		Yes		MD MBSS Combined IBI Stream Health			
		36		VA INSTAR mIBI Stream Health			
		0	PA IBI St	PA IBI Stream Health		High N/A	
		0				,	
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