Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_PA00078 LAKE SOPHIA DAM

Diadromous Tier 9

Brook Trout Tier N/A

Resident Tier

 NID ID
 PA00078

 State ID
 PA00078

River Name

Dam Height (ft) 30

Dam Type Earth

Latitude 41.9721

Longitude -75.9771

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Middle Chocohut Creek

HUC 10 Choconut Creek-Susquehanna Ri

HUC 8 Owego-Wappasening
HUC 6 Upper Susquehanna

HUC 4 Susquehanna







Landcover					
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.41	% Tree Cover in ARA of Upstream Network	50.95		
% Natural Cover in Upstream Drainage Area	55.99	% Tree Cover in ARA of Downstream Network	54.16		
% Forested in Upstream Drainage Area	51.71	% Herbaceaous Cover in ARA of Upstream Network	16.37		
% Agriculture in Upstream Drainage Area	37.87	% Herbaceaous Cover in ARA of Downstream Network	33.75		
% Natural Cover in ARA of Upstream Network	79.75	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	57.7	% Barren Cover in ARA of Downstream Network	0.51		
% Forest Cover in ARA of Upstream Network	39.87	% Road Impervious in ARA of Upstream Network	1.93		
% Forest Cover in ARA of Downstream Network	44.4	% Road Impervious in ARA of Downstream Network	2		
% Agricultral Cover in ARA of Upstream Network	10.76	% Other Impervious in ARA of Upstream Network	1.94		
% Agricultral Cover in ARA of Downstream Network 27.91		% Other Impervious in ARA of Downstream Network	3.88		
% Impervious Surf in ARA of Upstream Network	0.9				
% Impervious Surf in ARA of Downstream Network	3.93				



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	Motural C	vetor	Type and Condition	
	Network, S	ystem	Type and Condition	
unctional Upstream Network	(mi) 2.51		Upstream Size Class Gain (#)	0
otal Functional Network (mi)	7075.06		# Downsteam Natural Barriers	0
bsolute Gain (mi)	2.51		# Downstream Hydropower Dams	4
Size Classes in Total Networ	k 7		# Downstream Dams with Passage	5
Upstream Network Size Clas	sses 1		# of Downstream Barriers	6
FHAP Cumulative Disturband	ce Index		High	
am is on Conserved Land			No	
% Conserved Land in 100m Buffer of Upstream Network		ork	0	
Conserved Land in 100m Bu	iffer of Downstream Ne	etwork	6.98	
Density of Crossings in Upstream Network Watershed (#/		d (#/m	0.93	
ensity of Crossings in Downs		-		
ensity of off-channel dams in	n Upstream Network W	'atersh	ned (#/m2) 0	
ensity of off-channel dams in	n Downstream Network	k Wate	ershed (#/m2) 0.01	
		Diadro	omous Fish	
ownstream Alewife	Historical		Downstream Striped Bass None Docu	umented
ownstream Alewife ownstream Blueback	Historical Historical		Downstream Striped Bass None Docu- Downstream Atlantic Sturgeon None Docu-	
			'	umented
ownstream Blueback	Historical		Downstream Atlantic Sturgeon None Docu	umented
ownstream Blueback ownstream American Shad	Historical None Documented None Documented		Downstream Atlantic Sturgeon None Docu-	umented
ownstream Blueback ownstream American Shad ownstream Hickory Shad	Historical None Documented None Documented Stream Anadromous Spe		Downstream Atlantic Sturgeon None Docu- Downstream Shortnose Sturgeon None Docu- Downstream American Eel Current	umented
ownstream Blueback fownstream American Shad fownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs	Historical None Documented None Documented Stream Anadromous Spe		Downstream Atlantic Sturgeon None Docu Downstream Shortnose Sturgeon None Docu Downstream American Eel Current Historical	umented
ownstream Blueback fownstream American Shad fownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs	Historical None Documented None Documented Stream Anadromous Spettream (incl eel)		Downstream Atlantic Sturgeon None Docu Downstream Shortnose Sturgeon None Docu Downstream American Eel Current Historical	umented
ownstream Blueback cownstream American Shad cownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs Reside	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish ment	ecies	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical 1 Stream Health	umented
ownstream Blueback cownstream American Shad cownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs Reside	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish nent chment (DeWeber)	ecies	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical Stream Health Chesapeake Bay Program Stream Health	umented umented FAIR
Pownstream Blueback Pownstream American Shad Pownstream Hickory Shad Presence of 1 or More Downs Diadromous Species Downs Reside Parrier is in EBTJV BKT Catchnarrier is in Modeled BKT Ca	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish nent chment (DeWeber) ment	ecies No No Yes	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical Stream Health Chesapeake Bay Program Stream Health MD MBSS Benthic IBI Stream Health	rAIR N/A
ownstream Blueback cownstream American Shad cownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs Reside arrier is in EBTJV BKT Catchn arrier is in Modeled BKT Catch	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish ment chment (DeWeber) ment Catchment (DeWeber)	ecies No No Yes	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical Stream Health Chesapeake Bay Program Stream Health MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health	FAIR N/A
ownstream Blueback cownstream American Shad cownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs Reside arrier is in EBTJV BKT Catchn arrier is in Modeled BKT Catch arrier Blocks an EBTJV Catch	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish ment chment (DeWeber) ment Catchment (DeWeber)	No No Yes Yes	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical Stream Health Chesapeake Bay Program Stream Health MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health	FAIR N/A N/A
ownstream Blueback cownstream American Shad cownstream Hickory Shad resence of 1 or More Downs Diadromous Species Downs Reside arrier is in EBTJV BKT Catchn arrier is in Modeled BKT Catch arrier Blocks an EBTJV Catch arrier Blocks a Modeled BKT	Historical None Documented None Documented Stream Anadromous Spettream (incl eel) ent Fish ment chment (DeWeber) ment Catchment (DeWeber)	No No Yes Yes 33	Downstream Atlantic Sturgeon None Doct Downstream Shortnose Sturgeon None Doct Downstream American Eel Current Historical Stream Health Chesapeake Bay Program Stream Health MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health VA INSTAR mIBI Stream Health	FAIR N/A N/A N/A

