Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID:	VA_821	ARROWHEAD LAKE DAM
Diadromous Tier	6	
Brook Trout Tier	N/A	
Resident Tier	4	
NID ID	VA04926	
State ID	821	No F
River Name		
Dam Height (ft)	21	
Dam Type		
Latitude	37.5271	
Longitude	-78.2902	
Passage Facilities	None Document	ed
Passage Year	N/A	
Size Class	1a: Headwater (
HUC 12	Buffalo Creek-W	illis River
HUC 10	Upper Willis Rive	er
HUC 8	Middle James-W	lillis
HUC 6	James	
HUC 4	Lower Chesapea	ke



Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.58	% Tree Cover in ARA of Upstream Network	82.66					
% Natural Cover in Upstream Drainage Area	84.04	% Tree Cover in ARA of Downstream Network	79.1					
% Forested in Upstream Drainage Area	79.66	% Herbaceaous Cover in ARA of Upstream Network	1.26					
% Agriculture in Upstream Drainage Area	10.72	% Herbaceaous Cover in ARA of Downstream Network	15.73					
% Natural Cover in ARA of Upstream Network	100	% 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	77.4	% Road Impervious in ARA of Upstream Network	0.09					
% 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	0	% Other Impervious in ARA of Upstream Network	0.07					
% 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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	Network, S	ystem	Type and Con	ndition		
unctional Upstream Network	k (mi) 0.65		Upstr	ream Size Class Gain (#)	0
Total Functional Network (mi) 5431.67			# Downsteam Natural Barriers		iers	0
Absolute Gain (mi) 0.65			# Downstream Hydropower Dams		2	
Size Classes in Total Networ	·k 6		# Downstream Dams with Passage		4	
# Upstream Network Size Classes 1			# of [# of Downstream Barriers		4
NFHAP Cumulative Disturband	ce Index			Not Scored / Unav	ailable at th	nis scale
Dam is on Conserved Land				Yes		
6 Conserved Land in 100m Bu	uffer of Upstream Netw	ork		94.36		
% Conserved Land in 100m Buffer of Downstream Networ Density of Crossings in Upstream Network Watershed (#/w				11.23		
			2)	1.35		
Density of Crossings in Downs	stream Network Waters	shed (#	!/m2)	0.84		
Density of off-channel dams in	n Upstream Network W	atersh	red (#/m2)	0		
Density of off-channel dams in	n Downstream Network	k Wate	rshed (#/m2)	0		
		Diadro	mous Fish			
Downstream Alewife	ownstream Alewife Potential Current		Downstream Striped Bass None Doo			cumented
Downstream BluebackPotential CurrentDownstream American ShadNone DocumentedDownstream Hickory ShadNone DocumentedPresence of 1 or More Downstream Anadromous Species			Downstream Atlantic Sturgeon None Documented			
			Downstream	Shortnose Sturgeon	None Doo	cumented
			Downstream American Eel Current			
		ecies	Potential Cur	rre		
# Diadromous Species Downs	stream (incl eel)		1			
Resident Fish				Strea	m Health	
Barrier is in EBTJV BKT Catchment		No	Chesap	Chesapeake Bay Program Stream Health FAIR		FAIR
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MI	MD MBSS Benthic IBI Stream Health N/		N/A
		V/0.0	MD MI	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks an EBTJV Catch	ıment	Yes				
			MD MI	BSS Combined IBI Stre	am Health	N/A
Barrier Blocks an EBTJV Catch Barrier Blocks a Modeled BKT Native Fish Species Richness (Catchment (DeWeber)			BSS Combined IBI Stre		N/A High
Barrier Blocks a Modeled BKT	Catchment (DeWeber)	No No	VA INS			•
Barrier Blocks a Modeled BKT Native Fish Species Richness (Catchment (DeWeber)	No 51	VA INS	TAR mIBI Stream Hea		High

