## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_440 ARNOLDS DAM

Bay-wide Diadromous Tier 4
Bay-wide Resident Tier 5

Bay-wide Brook Trout Tier N/A

NID ID VA13519

State ID 440

River Name

Dam Height (ft) 25

Dam Type Earth

Latitude 37.2325

Longitude -78.1182

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 West Creek
HUC 10 Deep Creek
HUC 8 Appomattox

HUC 6 James

HUC 4 Lower Chesapeake







	Land	lcover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.64	% Tree Cover in ARA of Upstream Network	49.76
% Natural Cover in Upstream Drainage Area	63.47	% Tree Cover in ARA of Downstream Network	86.58
% Forested in Upstream Drainage Area	36.2	% Herbaceaous Cover in ARA of Upstream Network	37.67
% Agriculture in Upstream Drainage Area	29.47	% Herbaceaous Cover in ARA of Downstream Network	9.87
% Natural Cover in ARA of Upstream Network	52.5	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	88.39	% Barren Cover in ARA of Downstream Network	0.08
% Forest Cover in ARA of Upstream Network	30.62	% Road Impervious in ARA of Upstream Network	1.65
% Forest Cover in ARA of Downstream Network	61	% Road Impervious in ARA of Downstream Network	0.36
% Agricultral Cover in ARA of Upstream Network	41.88	% Other Impervious in ARA of Upstream Network	0.03
% Agricultral Cover in ARA of Downstream Network	9.87	% Other Impervious in ARA of Downstream Network	0.38
% Impervious Surf in ARA of Upstream Network	0.75		
% Impervious Surf in ARA of Downstream Network	0.27		



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	Network, Systen	pe and Condition	
Functional Upstream Network	(mi) 0.48	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	2957.15	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.48	# Downstream Hydropower Dam	is 3
# Size Classes in Total Network	5	# Downstream Dams with Passag	ge 3
# Upstream Network Size Clas	ses 0	# of Downstream Barriers	3
NFHAP Cumulative Disturbanc	e Index	Not Scored / Unavailable	e at this scale
Dam is on Conserved Land		No	
% Conserved Land in 100m Bu	ffer of Upstream Network	0	
% Conserved Land in 100m Buffer of Downstream Network		5.91	
Density of Crossings in Upstream	am Network Watershed (#/r	0	
Density of Crossings in Downs	tream Network Watershed (	n2) 0.5	
Density of off-channel dams in	Upstream Network Waters	d (#/m2) 0	
Density of off-channel dams in	Downstream Network Wat	hed (#/m2) 0	
	Diadr	ous Fish	
Downstream Alewife	Current	Non	e Documented
Downstream Blueback	Historical	Oownstream Atlantic Sturgeon Non	e Documented
Downstream American Shad	None Documented	ownstream Shortnose Sturgeon Non	e Documented
Downstream Hickory Shad	None Documented	Oownstream American Eel Curr	rent
Presence of 1 or More Downs	tream Anadromous Species	urrent	
# Diadromous Species Downs	tream (incl eel)		
Resident Fish		Stream He	alth
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 No		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) 58		VA INSTAR mIBI Stream Health	Very High
# Rare Fish (HUC8)	1	PA IBI Stream Health	N/A
# Rare Mussel (HUC8)	3		•
# Rare Crayfish (HUC8)	0		

