Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_475 WILLIS DAM

VA14530

Bay-wide Diadromous Tier 10
Bay-wide Resident Tier 11

Bay-wide Brook Trout Tier N/A

State ID 475

River Name

NID ID

Dam Height (ft) 26

Dam Type Earth
Latitude 37.5959

Longitude -78.0576

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Maxey Mill Creek-Deep Creek

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	0.27	% Tree Cover in ARA of Upstream Network	11.69					
% Natural Cover in Upstream Drainage Area	22.41	% Tree Cover in ARA of Downstream Network	92.84					
% Forested in Upstream Drainage Area	19.54	% Herbaceaous Cover in ARA of Upstream Network	47.25					
% Agriculture in Upstream Drainage Area	74.96	% Herbaceaous Cover in ARA of Downstream Network	5.77					
% Natural Cover in ARA of Upstream Network	56.76	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	94.49	% Barren Cover in ARA of Downstream Network	0					
% Forest Cover in ARA of Upstream Network	22.97	% Road Impervious in ARA of Upstream Network	0					
% Forest Cover in ARA of Downstream Network	67.46	% Road Impervious in ARA of Downstream Network	0.19					
% Agricultral Cover in ARA of Upstream Network	43.24	% Other Impervious in ARA of Upstream Network	0					
% Agricultral Cover in ARA of Downstream Network	4.85	% Other Impervious in ARA of Downstream Network	0.28					
% Impervious Surf in ARA of Upstream Network	0							
% Impervious Surf in ARA of Downstream Network	0.04							



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	Network, S	ystem	Туре	and Condi	tion	
Functional Upstream Network (mi)	0.1	Upstream Size Class Gain (#)			am Size Class Gain (#)	0
Total Functional Network (mi)	162.04			# Downsteam Natural Barriers		0
Absolute Gain (mi)	0.1		# Downstream Hydropower Dam		5 2	
# Size Classes in Total Network	3		# Downstream Dams with Passa		e 4	
# Upstream Network Size Classes	0	# of Downstream Barr		wnstream Barriers	5	
NFHAP Cumulative Disturbance Ind	lex				Very High	
Dam is on Conserved Land					No	
% Conserved Land in 100m Buffer of Upstream Network					0	
% Conserved Land in 100m Buffer of Downstream Network					11.25	
Density of Crossings in Upstream Network Watershed (#/m2) 0						
Density of Crossings in Downstrean	n Network Waters	hed (#	t/m2)		0.39	
Density of off-channel dams in Ups	tream Network W	atersh	ed (#	/m2)	0	
Density of off-channel dams in Dov	vnstream Network	Wate	rshe	d (#/m2)	0	
	[Diadro	mou	s Fish		
Downstream Alewife	Historical		Downstream Striped Bass			None Documente
Downstream Blueback	Historical	Downstream Atlantic Sturgeon		tlantic Sturgeon	None Documente	
Downstream American Shad	None Documente	ted Do		wnstream Shortnose Sturgeon		None Documente
Downstream Hickory Shad	None Documente	ed	Downstream American Eel		Current	
One or More DS Anadromous Spec	ies Historical		# Di	adromous	Sp Dnstrm (incl eel)	1
Resident Fish and Rare Species				Stream Health		
Barrier is in EBTJV BKT Catchment		No		Chesapeake Bay Program Stream Health		
Barrier is in Modeled BKT Catchment (DeWeber)		No		MD MBSS Benthic IBI Stream Health		h N
Barrier Blocks an EBTJV Catchment		No		MD MBSS Fish IBI Stream Health		N
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No		MD MBSS Combined IBI Stream Healt		alth N
Native Fish Species Richness (HUC8)		51		VA INSTAR mIBI Stream Health		Hi
# Rare Fish (HUC8)		0		PA IBI Stream Health		N
# Rare Mussel (HUC8)		3				
# Rare Crayfish (HUC8)		0				
Globally rare or fed listed fish/mussel sp HUC12		No		Rare fish or mussel sp in HUC12		1
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network		No		Rare fish or mussel in upstream or downstream functional network		

