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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CITTI Offique ID. VA_4/3	WILLIS DAIVI						
	Network, Sy	ystem	Type and Cond	lition			
Functional Upstream Network	(mi) 0.1		Upstre	Upstream Size Class Gain (#)			
Total Functional Network (mi)	162.04		# Downsteam Natural Barriers		ers	0	
Absolute Gain (mi)	0.1		# Dow	# Downstream Hydropower Dams		2	
# Size Classes in Total Networ	k 3		# Downstream Dams with Passa		Passage	4	
Upstream Network Size Classes 0		# of Do	# of Downstream Barriers				
NFHAP Cumulative Disturband	ce Index			Very High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network				0			
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork		11.25			
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)	0			
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	0.39			
Density of off-channel dams in	n Upstream Network Wa	atersh	ned (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wate	ershed (#/m2)	0			
		Diadro	omous Fish				
Downstream Alewife	Historical		Downstream Striped Bass None Doo		umentec		
Downstream Blueback	Historical		Downstream .	Downstream Atlantic Sturgeon N		None Documented	
Downstream American Shad	None Documented		Downstream :	Shortnose Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Downstream .	American Eel	Current		
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Historical				
# Diadromous Species Downs	tream (incl eel)		1				
Reside	ent Fish			Strea	m Health		
Barrier is in EBTJV BKT Catchment N		No	Chesape	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MB	MD MBSS Benthic IBI Stream Health N/A		N/A	
Barrier Blocks an EBTJV Catchment		No	MD MB	MD MBSS Fish IBI Stream Health N,		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MB	MD MBSS Combined IBI Stream Health N/A			
Native Fish Species Richness (HUC8) 5		51	VA INST	VA INSTAR mIBI Stream Health		High	
# Rare Fish (HUC8)		0	PA IBI St	tream Health		N/A	
# Rare Mussel (HUC8)		3				,	
# Rare Crayfish (HUC8)		0					
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