Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_335 WILLIS RIVER DAM #1A

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 3
Bay-wide Brook Trout Tier N/A

NID ID VA02901

State ID 335

River Name Willis River

Dam Height (ft) 41.7

Dam Type Earth

Latitude 37.44

Longitude -78.5448

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

HUC 12 Bishop Creek-Willis River

HUC 10 Upper Willis 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	0.08	% Tree Cover in ARA of Upstream Network	90.59					
% Natural Cover in Upstream Drainage Area	83.78	% Tree Cover in ARA of Downstream Network	88.09					
% Forested in Upstream Drainage Area	67.91	% Herbaceaous Cover in ARA of Upstream Network	7.68					
% Agriculture in Upstream Drainage Area	14.53	% Herbaceaous Cover in ARA of Downstream Network	10.47					
% Natural Cover in ARA of Upstream Network	91.33	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	89.75	% Barren Cover in ARA of Downstream Network	0.31					
% Forest Cover in ARA of Upstream Network	69.73	% Road Impervious in ARA of Upstream Network	0.16					
% Forest Cover in ARA of Downstream Network	59.92	% Road Impervious in ARA of Downstream Network	0.24					
% Agricultral Cover in ARA of Upstream Network	7.91	% Other Impervious in ARA of Upstream Network	0.03					
% Agricultral Cover in ARA of Downstream Network	9.36	% Other Impervious in ARA of Downstream Network	0.11					
% Impervious Surf in ARA of Upstream Network	0.02							
% Impervious Surf in ARA of Downstream Network	0.07							



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CITTY Offique ID. VA_333	WILLIS RIVER DA	IVI TA					
	Network, Sy	stem T	ype and Condition				
Functional Upstream Network	pstream Network (mi) 24.2 Upstre		Upstream Size Cl	am Size Class Gain (#)		0	
Total Functional Network (mi)	188.73		# Downsteam Natural Barriers		S	0	
Absolute Gain (mi)	24.2		# Downstream Hydropower Dams		ams	2	
# Size Classes in Total Networ	k 3		# Downstream Dams with Passage		ssage	4	
# Upstream Network Size Clas	sses 2		# of Downstream Barriers			5	
NFHAP Cumulative Disturband	ce Index		Very Hig	gh			
Dam is on Conserved Land			No				
% Conserved Land in 100m Buffer of Upstream Network		rk	38.88				
% Conserved Land in 100m Bu	iffer of Downstream Net	work	3.36				
Density of Crossings in Upstream Network Watershed (#/		(#/m2	0.52				
Density of Crossings in Downs	tream Network Watersh	ed (#/	m2) 0.5				
Density of off-channel dams in	n Upstream Network Wa	tershe	d (#/m2) 0				
Density of off-channel dams in	n Downstream Network	Water	shed (#/m2) 0				
	D	iadron	nous Fish				
Downstream Alewife	Historical		Downstream Striped Bas	ss N	None Documented		
Downstream Blueback	Historical		Downstream Atlantic Sturgeo		None Documented		
Downstream American Shad	None Documented		Downstream Shortnose	Sturgeon N	None Docu	umented	
Downstream Hickory Shad	None Documented		Downstream American I	Eel (Current		
Presence of 1 or More Downs	stream Anadromous Spe	cies	Historical				
# Diadromous Species Downs	tream (incl eel)	:	L				
Resident Fish				Stream Health			
Barrier is in EBTJV BKT Catchment		No	Chesapeake Bay P	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic	MD MBSS Benthic IBI Stream Health		N/A	
Barrier Blocks an EBTJV Catchment		No	MD MBSS Fish IBI	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) N		No	MD MBSS Combin	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8) 5		51	VA INSTAR mIBI St	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8)		0	PA IBI Stream Hea	PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)		3					
# Rare Crayfish (HUC8)		0					

