Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_339 WILLIS RIVER DAM #5E

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

NID ID VA02905

State ID 339

River Name Whispering Creek

Dam Height (ft) 41.7

Dam Type Earth

Latitude 37.5098

Longitude -78.4421

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Whispering 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	2.35	% Tree Cover in ARA of Upstream Network	83.55					
% Natural Cover in Upstream Drainage Area	70.86	% Tree Cover in ARA of Downstream Network	88.09					
% Forested in Upstream Drainage Area	52.79	% Herbaceaous Cover in ARA of Upstream Network	11.98					
% Agriculture in Upstream Drainage Area	18.23	% Herbaceaous Cover in ARA of Downstream Network	10.47					
% Natural Cover in ARA of Upstream Network	82.98	% Barren Cover in ARA of Upstream Network	0.05					
% 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	64.58	% Road Impervious in ARA of Upstream Network	0.71					
% 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	9.46	% Other Impervious in ARA of Upstream Network	1.4					
% 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	1.71							
% Impervious Surf in ARA of Downstream Network	0.07							



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CITTI Offique ID. VA_339	WILLIS KIVEK DA	IVI #3L					
	Network, Sys	stem 7	Type and Con	dition			
Functional Upstream Network (mi) 17.6			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 182.13			# Downsteam Natural Barriers		0		
Absolute Gain (mi) 17.6			# Downstream Hydropower Dams		2		
# Size Classes in Total Network 3			# Downstream Dams with Passage		4		
# Upstream Network Size Classes 2			# of Downstream Barriers			5	
NFHAP Cumulative Disturband	e Index			High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network				0			
% Conserved Land in 100m Buffer of Downstream Network				3.36			
Density of Crossings in Upstre	am Network Watershed	(#/m2	2)	0.59			
Density of Crossings in Downs	tream Network Watersh	ed (#/	/m2)	0.5			
Density of off-channel dams in	u Upstream Network Wa	tershe	ed (#/m2)	0			
Density of off-channel dams in	Downstream Network \	Nater	shed (#/m2)	0			
	Di	iadror	mous Fish				
Downstream Alewife	Historical		Downstream	Striped Bass	None Doc	None Documented	
Downstream Blueback	Historical		Downstream Atlantic Sturgeon		None Documented		
Downstream American Shad	None Documented		Downstream Shortnose Sturgeon Nor			cumented	
Downstream Hickory Shad	None Documented		Downstream American Eel Current				
Presence of 1 or More Downs	tream Anadromous Spec	cies	Historical				
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish				Stream Health			
Barrier is in EBTJV BKT Catchment No		No	Chesap	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No		No	MD ME	MD MBSS Benthic IBI Stream Health			
Barrier Blocks an EBTJV Catchment No		No	MD ME	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD ME	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8) 51		51	VA INS	VA INSTAR mIBI Stream Health			
# Rare Fish (HUC8) 0		0	PA IBI S	PA IBI Stream Health			
# Rare Mussel (HUC8) 3		3				N/A	
# Rare Crayfish (HUC8) 0		0					

