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

CFPPP Unique ID: VA\_339 WILLIS RIVER DAM #5E

Diadromous Tier 7

Brook Trout Tier N/A

Resident Tier 3

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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	Network, Sys	tem Ty <sub>l</sub>	oe and Condition		
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	Classes in Total Network 3		# Downstream Dams	with Passage	4
# Upstream Network Size Classes 2			# of Downstream Barriers		5
NFHAP Cumulative Disturbance	Index		High		
Dam is on Conserved Land			No		
% Conserved Land in 100m Buffer of Upstream Network		·k	0		
% Conserved Land in 100m Buff	fer of Downstream Netw	vork	3.36		
Density of Crossings in Upstream	m Network Watershed (	(#/m2)	0.59		
Density of Crossings in Downstr	ream Network Watershe	ed (#/m	2) 0.5		
Density of off-channel dams in	Upstream Network Wat	ershed	(#/m2) 0		
Density of off-channel dams in	Downstream Network V	Vatersh	ed (#/m2) 0		
	Dia	adromo	us Fish		
Downstream Alewife	Historical		Downstream Striped Bass None Do		cumented
Downstream Blueback	Historical	Do	ownstream Atlantic Sturge	on None Do	cumented
Downstream American Shad	None Documented	Do	ownstream Shortnose Stur	geon None Do	cumented
Downstream Hickory Shad	None Documented	Do	ownstream American Eel	Current	
Presence of 1 or More Downsti	ream Anadromous Speci	ies Hi	storical		
# Diadromous Species Downstr	ream (incl eel)	1			
Residen	t Fish			Stream Health	
Barrier is in EBTJV BKT Catchment		No	Chesapeake Bay Program Stream Health FAIR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic IBI Stream Health N/A		
Barrier Blocks an EBTJV Catchment N		No	MD MBSS Fish IBI Stream Health N/		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBSS Combined IBI Stream Health N/A		N/A
Barrier Blocks a Modeled BKT C			VA INSTAR mIBI Stream Health Mode		
Barrier Blocks a Modeled BKT C Native Fish Species Richness (H	. ,	51	VA INSTAR mIBI Strear	n Health	Moderate
	. ,		VA INSTAR mIBI Stream	n Health	Moderate N/A
Native Fish Species Richness (H	IUC8) 5	)		n Health	

