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

CFPPP Unique ID: VA\_338 WILLIS RIVER DAM #4

Diadromous Tier 7

Brook Trout Tier N/A

Resident Tier 4

NID ID VA02904

State ID 338

River Name Cattail Creek

Dam Height (ft) 43.6

Dam Type Earth

Latitude 37.4415

Longitude -78.4167

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







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.11	% Tree Cover in ARA of Upstream Network	86.18
% Natural Cover in Upstream Drainage Area	74.63	% Tree Cover in ARA of Downstream Network	88.09
% Forested in Upstream Drainage Area	70.14	% Herbaceaous Cover in ARA of Upstream Network	9.86
% Agriculture in Upstream Drainage Area	23.49	% Herbaceaous Cover in ARA of Downstream Network	10.47
% Natural Cover in ARA of Upstream Network	87.88	% 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	78.3	% Road Impervious in ARA of Upstream Network	0.09
% 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	11.89	% Other Impervious in ARA of Upstream Network	0.05
% 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	0.01		
% Impervious Surf in ARA of Downstream Network	0.07		



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	Network, Sy	ystem	Type and Condition
Functional Upstream Network	c (mi) 9.58		Upstream Size Class Gain (#) 0
Total Functional Network (mi)	174.11		# Downsteam Natural Barriers 0
Absolute Gain (mi)	9.58		# Downstream Hydropower Dams 2
# Size Classes in Total Networ	k 3		# Downstream Dams with Passage 4
# Upstream Network Size Clas	sses 2		# of Downstream Barriers 5
NFHAP Cumulative Disturband	ce Index		High
Dam is on Conserved Land			No
% Conserved Land in 100m Bu	iffer of Upstream Netwo	ork	0
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork	3.36
Density of Crossings in Upstre	am Network Watershed	d (#/m	0.33
Density of Crossings in Downs	tream Network Watersl	hed (#	#/m2) 0.5
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 Documented
Downstream Blueback	Historical		Downstream Atlantic Sturgeon None Documented
Downstream American Shad	None Documented		Downstream Shortnose Sturgeon None Documented
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		Stream Health
Barrier is in EBTJV BKT Catchment		No	Chesapeake Bay Program Stream Health FAIR
Barrier is in Modeled BKT Cat	chment (DeWeber)	No	MD MBSS Benthic IBI Stream Health N/A
Barrier Blocks an EBTJV Catchment		No	MD MBSS Fish IBI Stream Health N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBSS Combined IBI Stream Health N/A
Native Fish Species Richness (	HUC8)	51	VA INSTAR mIBI Stream Health Moderate
# Rare Fish (HUC8)		0	PA IBI Stream Health N/A
# Rare Mussel (HUC8)		3	
# Rare Crayfish (HUC8)		0	
		-	

