Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_337 WILLIS RIVER DAM #3

Diadromous Tier 7

Brook Trout Tier N/A

Resident Tier 3

NID ID VA02903

State ID 337

River Name Bishop Creek

Dam Height (ft) 43.8

Dam Type Earth

Latitude 37.4265

Longitude -78.4824

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	0.11	% Tree Cover in ARA of Upstream Network	85.62				
% Natural Cover in Upstream Drainage Area	80.91	% Tree Cover in ARA of Downstream Network	88.09				
% Forested in Upstream Drainage Area	62.29	% Herbaceaous Cover in ARA of Upstream Network	11.56				
% Agriculture in Upstream Drainage Area	17.56	% Herbaceaous Cover in ARA of Downstream Network	10.47				
% Natural Cover in ARA of Upstream Network	88.75	% 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	65.46	% Road Impervious in ARA of Upstream Network	0.08				
% 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	11.2	% 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						
% Impervious Surf in ARA of Downstream Network	0.07						



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	Network, Sy	stem Ty	pe and Condition		
Functional Upstream Network (mi) 9.37			Upstream Size Class Gain (#)		0
Total Functional Network (mi) 173.9			# Downsteam Natural Barriers		0
Absolute Gain (mi) 9.37			# 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 Disturbance	e Index		Moderate		
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 Upstream Network Watershed (#/m			0.1		
Density of Crossings in Downstream Network Watershed (#			•		
Density of off-channel dams in	•				
Density of off-channel dams in	Downstream Network	Watersh	ned (#/m2) 0		
	D	iadrom	ous Fish		
Downstream Alewife	Historical	D	Downstream Striped Bass None		cumented
Downstream Blueback	Historical	D	Downstream Atlantic Sturgeon None Doo		cumented
Downstream American Shad	None Documented	D	ownstream Shortnose Sturged	n None Doo	cumented
	None Documented	D	Downstream American Eel Current		
Downstream Hickory Shad					
Downstream Hickory Shad Presence of 1 or More Downst	ream Anadromous Spe	cies H	istorical		
Presence of 1 or More Downst		cies H 1	istorical		
Presence of 1 or More Downst	ream (incl eel)			eam Health	
Presence of 1 or More Downstr # Diadromous Species Downstr	ream (incl eel)				n FAIR
Presence of 1 or More Downstr # Diadromous Species Downstr Residen	ream (incl eel) at Fish ent	1	Stı	Stream Health	n FAIR N/A
Presence of 1 or More Downstr # Diadromous Species Downstr Residen Barrier is in EBTJV BKT Catchme Barrier is in Modeled BKT Catch	ream (incl eel) at Fish ent nment (DeWeber)	No	Str Chesapeake Bay Program	Stream Healtl am Health	
Presence of 1 or More Downstr # Diadromous Species Downstr Residen Barrier is in EBTJV BKT Catchme	ream (incl eel) at Fish ent hment (DeWeber) hent	No No No	Str Chesapeake Bay Program MD MBSS Benthic IBI Stre	Stream Healtl am Health Health	N/A
Presence of 1 or More Downstr # Diadromous Species Downstr Residen Barrier is in EBTJV BKT Catchme Barrier is in Modeled BKT Catch Barrier Blocks an EBTJV Catchme	ream (incl eel) at Fish ent hment (DeWeber) hent Catchment (DeWeber)	No No No	Str Chesapeake Bay Program MD MBSS Benthic IBI Stre MD MBSS Fish IBI Stream	Stream Healtl am Health Health tream Health	N/A N/A
Presence of 1 or More Downstr # Diadromous Species Downstr Residen Barrier is in EBTJV BKT Catchme Barrier is in Modeled BKT Catch Barrier Blocks an EBTJV Catchme Barrier Blocks a Modeled BKT C	ream (incl eel) It Fish ent hment (DeWeber) hent Catchment (DeWeber)	No No No No	Str Chesapeake Bay Program MD MBSS Benthic IBI Stre MD MBSS Fish IBI Stream MD MBSS Combined IBI St	Stream Healtl am Health Health tream Health	N/A N/A N/A
Presence of 1 or More Downstr # Diadromous Species Downstr Residen Barrier is in EBTJV BKT Catchme Barrier is in Modeled BKT Catch Barrier Blocks an EBTJV Catchme Barrier Blocks a Modeled BKT C Native Fish Species Richness (H	ream (incl eel) It Fish ent hment (DeWeber) hent Catchment (DeWeber)	No No No No So So	Str Chesapeake Bay Program MD MBSS Benthic IBI Stre MD MBSS Fish IBI Stream MD MBSS Combined IBI Stream Ho	Stream Healtl am Health Health tream Health	N/A N/A N/A Moderate

