Chesapeake Fish Passage Prioritization - Dam Fact Sheet

	enesapeake Histi i asse	
CFPPP Unique ID:	VA_814 Williams Island	Z-DAM
Diadromous Tier	1	
Brook Trout Tier	N/A	
Resident Tier	8	
NID ID	VA76002	
State ID	814	Ma
River Name	James River	1
Dam Height (ft)	7	
Dam Type	Gravity	
Latitude	37.5586	
Longitude	-77.5269	
Passage Facilities	Notch	/
Passage Year	1993	
Size Class	4: Large River (3,861 - 9,653 sq	600
HUC 12	Little Westham Creek-James Riv	Mo
HUC 10	Tuckahoe Creek-James River	11
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		% Tree Cover in ARA of Upstream Network	52.75
% Natural Cover in Upstream Drainage Area		% Tree Cover in ARA of Downstream Network	42.74
% Forested in Upstream Drainage Area		% Herbaceaous Cover in ARA of Upstream Network	10.83
% Agriculture in Upstream Drainage Area	14.28	% Herbaceaous Cover in ARA of Downstream Network	15.94
% Natural Cover in ARA of Upstream Network		% Barren Cover in ARA of Upstream Network	0.04
% Natural Cover in ARA of Downstream Network	59.74	% Barren Cover in ARA of Downstream Network	0.09
% Forest Cover in ARA of Upstream Network		% Road Impervious in ARA of Upstream Network	4.07
% Forest Cover in ARA of Downstream Network	17.98	% Road Impervious in ARA of Downstream Network	6.72
% Agricultral Cover in ARA of Upstream Network	2.2	% Other Impervious in ARA of Upstream Network	4.59
% Agricultral Cover in ARA of Downstream Network	0.31	% Other Impervious in ARA of Downstream Network	6.4
% Impervious Surf in ARA of Upstream Network	4.01		
% Impervious Surf in ARA of Downstream Network	10.67		



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	Network, Sys	stem Typ	e and Condition		
Functional Upstream Network	(mi) 12.67		Upstream Size Class Gain (#	‡)	0
Total Functional Network (mi)	37.14		# Downsteam Natural Barr	iers	0
Absolute Gain (mi)	12.67		# Downstream Hydropowe	r Dams	2
# Size Classes in Total Networ	k 3		# Downstream Dams with I	Passage	2
# Upstream Network Size Clas	sses 2		# of Downstream Barriers		2
NFHAP Cumulative Disturband	ce Index		Moderate		
Dam is on Conserved Land			No		
% Conserved Land in 100m Bu	iffer of Upstream Networ	rk	0.61		
% Conserved Land in 100m Bu	iffer of Downstream Netv	work	9.2		
Density of Crossings in Upstre	am Network Watershed ((#/m2)	2.41		
Density of Crossings in Downs	tream Network Watersho	ed (#/m2	2.94		
Density of off-channel dams in	n Upstream Network Wat	tershed ((#/m2) 0		
Density of off-channel dams in	n Downstream Network V	Watersh ₆	ed (#/m2) 0		
		adromo			
Downstream Alewife	Current	Do	wnstream Striped Bass	Current	
Downstream Blueback	Current	Do	wnstream Atlantic Sturgeon	None Doc	cumented
Downstream American Shad	Current	Do	wnstream Shortnose Sturgeon	None Doc	cumented
Downstream Hickory Shad	None Documented	Do	wnstream American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spec	ies Cu	rrent		
# Diadromous Species Downs	·	5			
Resident Fish			Strea	m Health	
Barrier is in EBTJV BKT Catchment No		No	Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber) No.		No	MD MBSS Benthic IBI Stream Health N/A		N/A
Barrier Blocks an EBTJV Catchment No		No	MD MBSS Fish IBI Stream Health N/A		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) No.		No	MD MBSS Combined IBI Stream Health N/A		N/A
Native Fish Species Richness (HUC8) 5		51	VA INSTAR mIBI Stream Health Ver		Very High
# Rare Fish (HUC8)	(0	PA IBI Stream Health		N/A
# Rare Mussel (HUC8)	3	3			
# Rare Crayfish (HUC8)	(0			

