Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_535 WALDENS (FLANAGANS) DAM

1

Diadromous Tier

Brook Trout Tier N/A

Resident Tier 1

NID ID VA08508

State ID 535

River Name Matadequin Creek

Dam Height (ft) 24

Dam Type Gravity

Latitude 37.6185

Longitude -77.1805

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Montague Creek-Pamunkey Riv

HUC 10 Middle Pamunkey River

HUC 8 Pamunkey

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.65	% Tree Cover in ARA of Upstream Network	81
% Natural Cover in Upstream Drainage Area	71.9	% Tree Cover in ARA of Downstream Network	65.24
% Forested in Upstream Drainage Area	58.73	% Herbaceaous Cover in ARA of Upstream Network	15.37
% Agriculture in Upstream Drainage Area	21.88	% Herbaceaous Cover in ARA of Downstream Network	23.41
% Natural Cover in ARA of Upstream Network	85.29	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	76.09	% Barren Cover in ARA of Downstream Network	0.11
% Forest Cover in ARA of Upstream Network	54.79	% Road Impervious in ARA of Upstream Network	0.57
% Forest Cover in ARA of Downstream Network	32.03	% Road Impervious in ARA of Downstream Network	0.61
% Agricultral Cover in ARA of Upstream Network	13.29	% Other Impervious in ARA of Upstream Network	0.86
% Agricultral Cover in ARA of Downstream Network	19.65	% Other Impervious in ARA of Downstream Network	1.09
% Impervious Surf in ARA of Upstream Network	0.06		
% Impervious Surf in ARA of Downstream Network	0.68		



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	Network, Sy	stem [·]	Type and Condition	on			
Functional Upstream Network (mi) 17.05			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 1359.18			# Downsteam Natural Barriers		ers	0	
bsolute Gain (mi) 17.05			# Downstream Hydropower Dams		Dams	0	
ize Classes in Total Network 5			# Downstream Dams with Passage		assage	0	
# Upstream Network Size Classes 2			# of Downstream Barriers			0	
IFHAP Cumulative Disturbance	e Index		N	Moderate			
am is on Conserved Land			ľ	No			
% Conserved Land in 100m Buffer of Upstream Network			C)			
% Conserved Land in 100m Buffer of Downstream Network			6	5.63			
Density of Crossings in Upstream Network Watershed (#/mː			2) (0.38			
Density of Crossings in Downst	•).59					
Density of off-channel dams in	ed (#/m2) 0)					
Density of off-channel dams in	Downstream Network	Water	rshed (#/m2) C)			
	Γ	Niadro	mous Fish				
Downstream Alewife	Current	71ddi Oi	Downstream Stri	iped Bass	None Docu	ımented	
Downstream Blueback	Current		Downstream Atlantic Sturgeon None Documentee		ımented		
Downstream American Shad	None Documented			ortnose Sturgeon	None Docu		
Downstream Hickory Shad	None Documented		Downstream Am		Current	intented	
,				ierican Lei	Current		
Presence of 1 or More Downst		cies	Current				
# Diadromous Species Downst	ream (incl eel)		3				
Resident Fish				Stream Health			
Barrier is in EBTJV BKT Catchment		No	Chesapeak	Chesapeake Bay Program Stream Health FAIR		FAIR	
Barrier is in EBTJV BKT Catchm	Barrier is in Modeled BKT Catchment (DeWeber)		NAD NADCC I	MD MBSS Benthic IBI Stream Health N/A		N/A	
	hment (DeWeber)	No	ואוט ואוסטטו	Benthic IBI Stream	пеанн	14// (
Barrier is in Modeled BKT Catc	,	No No		Benthic IBI Stream Fish IBI Stream Hea		N/A	
Barrier is in Modeled BKT Catcl Barrier Blocks an EBTJV Catchn	nent	No	MD MBSS I		alth	•	
Barrier is in Modeled BKT Catc Barrier Blocks an EBTJV Catchn Barrier Blocks a Modeled BKT (nent Catchment (DeWeber)	No	MD MBSS (Fish IBI Stream Hea	alth am Health	N/A	
	nent Catchment (DeWeber)	No No	MD MBSS (Fish IBI Stream Hea Combined IBI Strea mIBI Stream Healt	alth am Health	N/A N/A	
Barrier is in Modeled BKT Catch Barrier Blocks an EBTJV Catchn Barrier Blocks a Modeled BKT (Native Fish Species Richness (H	nent Catchment (DeWeber)	No No 56	MD MBSS (MD MBSS (VA INSTAR	Fish IBI Stream Hea Combined IBI Strea mIBI Stream Healt	alth am Health	N/A N/A Very High	

