Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1033 PELLS DAM

Bay-wide Diadromous Tier 17
Bay-wide Resident Tier 15

Bay-wide Brook Trout Tier N/A

NID ID VA04138

State ID 1033

River Name

Dam Height (ft) 26

Dam Type Earth

Latitude 37.2869

Longitude -77.4926

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Franks Branch-Swift Creek

HUC 10 Swift Creek
HUC 8 Appomattox

HUC 6 James

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.75	% Tree Cover in ARA of Upstream Network	0					
% Natural Cover in Upstream Drainage Area	31.41	% Tree Cover in ARA of Downstream Network	80.61					
% Forested in Upstream Drainage Area	13.16	% Herbaceaous Cover in ARA of Upstream Network	0					
% Agriculture in Upstream Drainage Area	64.67	% Herbaceaous Cover in ARA of Downstream Network	12.97					
% Natural Cover in ARA of Upstream Network	0	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	84.89	% Barren Cover in ARA of Downstream Network	0.42					
% Forest Cover in ARA of Upstream Network	0	% Road Impervious in ARA of Upstream Network	0					
% Forest Cover in ARA of Downstream Network	72.76	% Road Impervious in ARA of Downstream Network	1.03					
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0					
% Agricultral Cover in ARA of Downstream Network	8.1	% Other Impervious in ARA of Downstream Network	3.07					
% Impervious Surf in ARA of Upstream Network	0							
% Impervious Surf in ARA of Downstream Network	0.94							



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	Network, S	ystem	Type and Condition				
unctional Upstream Network (mi) 0.22			Upstream Size Class Gain (#)			0	
Total Functional Network (mi)	96.44		# Downsteam N	# Downsteam Natural Barriers		0	
Absolute Gain (mi)	0.22		# Downstream Hydropower Dams		Dams	1	
# Size Classes in Total Networ	k 3		# Downstream Dams with Passage		assage	0	
# Upstream Network Size Clas	sses 0		# of Downstrea	m Barriers		2	
NFHAP Cumulative Disturband	ce Index		Moder	ate			
Dam is on Conserved Land			No				
% Conserved Land in 100m Bu	ıffer of Upstream Netw	ork	0				
% Conserved Land in 100m Bu	ıffer of Downstream Ne	etwork	4.04				
Density of Crossings in Upstre	am Network Watershed	d (#/m2	2) 0				
Density of Crossings in Downs	tream Network Waters	shed (#,	/m2) 0.77				
Density of off-channel dams in	n Upstream Network W	atersh	ed (#/m2) 0				
Density of off-channel dams in	n Downstream Network	k Watei	rshed (#/m2) 0				
		Diadro	mous Fish				
Downstream Alewife	Historical		Downstream Striped B		None Documented		
Downstream Blueback	Historical		Downstream Atlantic S	turgeon	None Doc	umented	
Downstream American Shad	None Documented		Downstream Shortnose	e Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Downstream American	Eel	None Doc	umented	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Historical				
# Diadromous Species Downs	tream (incl eel)		0				
Rasida	ant Fish			Stream	n Health		
Resident Fish Barrier is in EBTJV BKT Catchment No		No	Chesapeake Bay	Chesapeake Bay Program Stream Health POOR			
		No		MD MBSS Benthic IBI Stream Health N/A			
,		No				N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No				,		N/A	
, ,		58		VA INSTAR mIBI Stream Health		Very High	
# Rare Fish (HUC8)		1	PA IBI Stream He			N/A	
# Rare Mussel (HUC8)		3	I A IDI SU CAIII HE	artii .		11/ 🔼	
# Rare Crayfish (HUC8)							
# Nate Claylisti (HUCO)		0					

