Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_499 R. A. SMITH DAM

Bay-wide Diadromous Tier 4
Bay-wide Resident Tier 9

Bay-wide Brook Trout Tier N/A

NID ID VA14722

State ID 499

River Name

Dam Height (ft) 21

Dam Type Earth
Latitude 37.28

Longitude -78.4176

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Locket Creek-Buffalo Creek

HUC 10 Buffalo Creek
HUC 8 Appomattox

HUC 6 James

HUC 4 Lower Chesapeake







Landcover							
NLCD (2011)	Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	2.79	% Tree Cover in ARA of Upstream Network	2.93				
% Natural Cover in Upstream Drainage Area	32.14	% Tree Cover in ARA of Downstream Network	86.58				
% Forested in Upstream Drainage Area	19.98	% Herbaceaous Cover in ARA of Upstream Network	83.91				
% Agriculture in Upstream Drainage Area	45.03	% Herbaceaous Cover in ARA of Downstream Network	9.87				
% Natural Cover in ARA of Upstream Network	28.17	% Barren Cover in ARA of Upstream Network	0				
% Natural Cover in ARA of Downstream Network	88.39	% Barren Cover in ARA of Downstream Network	0.08				
% Forest Cover in ARA of Upstream Network	4.23	% Road Impervious in ARA of Upstream Network	0				
% Forest Cover in ARA of Downstream Network	61	% Road Impervious in ARA of Downstream Network	0.36				
% Agricultral Cover in ARA of Upstream Network	66.2	% Other Impervious in ARA of Upstream Network	0				
% Agricultral Cover in ARA of Downstream Network	9.87	% Other Impervious in ARA of Downstream Network	0.38				
% Impervious Surf in ARA of Upstream Network	0.63						
% Impervious Surf in ARA of Downstream Network	0.27						



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CITTI Ollique ID. VA_433	K. A. SIVILLE DAIVI					
	Network, Sys	tem T	ype and Condition			
Functional Upstream Network (mi) 0.08			Upstream Size Class Gain (#)		0	
Total Functional Network (mi) 2956.76			# Downsteam Natural Barriers		0	
Absolute Gain (mi)	0.08		# Downstream Hydropower		3	
# Size Classes in Total Network	5		# Downstream Dams with Pa		3	
# Upstream Network Size Class	ses 0		# of Downstream Barriers		3	
NFHAP Cumulative Disturbance	e Index		Very High	ı		
Dam is on Conserved Land			No			
% Conserved Land in 100m Buffer of Upstream Network		·k	0			
% Conserved Land in 100m But	ffer of Downstream Netv	work	5.91			
Density of Crossings in Upstrea	am Network Watershed ((#/m2	0			
Density of Crossings in Downst	ream Network Watersho	ed (#/ı	m2) 0.5			
Density of off-channel dams in	Upstream Network Wat	ershe	d (#/m2) 0			
Density of off-channel dams in	Downstream Network V	Vaters	hed (#/m2) 0			
	Di	adron	nous Fish			
Downstream Alewife	Current	[Downstream Striped Bass		Documented	
Downstream Blueback	Historical	[Downstream Atlantic Sturgeon		Documented	
Downstream American Shad	None Documented	[Downstream Shortnose Sturgeon Non		Documented	
Downstream Hickory Shad	None Documented	[Downstream American Eel Current		nt	
Presence of 1 or More Downs	tream Anadromous Spec	ies (Current			
# Diadromous Species Downst	ream (incl eel)	2	!			
Resident Fish				Stream Health		
Barrier is in EBTJV BKT Catchment No		No	Chesapeake Bay Pr	Chesapeake Bay Program Stream Health FAIR		
Barrier is in Modeled BKT Catchment (DeWeber) No		No	MD MBSS Benthic IBI Stream Health N/A		n N/A	
Barrier Blocks an EBTJV Catchment No		Vo	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		Vo	MD MBSS Combined IBI Stream Health		alth N/A	
Native Fish Species Richness (HUC8) 58		58	VA INSTAR mIBI Str	VA INSTAR mIBI Stream Health		
# Rare Fish (HUC8)		1	PA IBI Stream Heal	PA IBI Stream Health		
# Rare Mussel (HUC8) 3		3			N/A	
# Rare Crayfish (HUC8) 0)				

