Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_308 SMITHS DAM

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 10

Bay-wide Brook Trout Tier N/A

NID ID VA00310

State ID 308

River Name

Dam Height (ft) 18

Dam Type Earth

Latitude 38.1784

Longitude -78.3872

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Preddy Creek

HUC 10 North Fork Rivanna River

HUC 8 Rivanna
HUC 6 James

HUC 4 Lower Chesapeake







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.72	% Tree Cover in ARA of Upstream Network	3.47
% Natural Cover in Upstream Drainage Area	53.07	% Tree Cover in ARA of Downstream Network	79.1
% Forested in Upstream Drainage Area	45.35	% Herbaceaous Cover in ARA of Upstream Network	30.98
% Agriculture in Upstream Drainage Area	26.93	% Herbaceaous Cover in ARA of Downstream Network	15.73
% Natural Cover in ARA of Upstream Network	44.44	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1
% Forest Cover in ARA of Upstream Network	0	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6
% Agricultral Cover in ARA of Upstream Network	33.33	% Other Impervious in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78
% Impervious Surf in ARA of Upstream Network	1.67		
% Impervious Surf in ARA of Downstream Network	0.71		



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	Network, Sy	ystem	Туре а	nd Condit	ion		
Functional Upstream Network	nctional Upstream Network (mi) 0.05			Upstream Size Class Gain (#)			
Total Functional Network (mi) 5431.07			# Downsteam Natural Barriers			0	
Absolute Gain (mi)	0.05			# Downs	stream Hydropowe	r Dams	2
# Size Classes in Total Networ	k 6			# Downs	stream Dams with I	Passage	4
# Upstream Network Size Classes 0			# of Downstream Barriers				4
NFHAP Cumulative Disturband	ce Index				Very High		
Dam is on Conserved Land					No		
% Conserved Land in 100m Buffer of Upstream Networ					0		
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork	<		11.23		
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)		0		
Density of Crossings in Downs	tream Network Waters	hed (#	#/m2)		0.84		
Density of off-channel dams in	າ Upstream Network Wa	atersh	ned (#/n	m2)	0		
Density of off-channel dams in	n Downstream Network	Wate	ershed (#/m2)	0		
	[Diadro	omous F	ish			
Downstream Alewife	Potential Current	Down	ownstream Striped Bass None Doc			umented	
Downstream Blueback	Potential Current		Down	stream At	lantic Sturgeon	None Doc	umented
Downstream American Shad	None Documented		Down	stream Sh	ortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented		Down	stream Ar	nerican Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Poten	tial Curre			
# Diadromous Species Downs	tream (incl eel)		1				
Reside	ent Fish				Strea	m Health	
		No		Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No		MD MBSS Benthic IBI Stream Health			N/A
,		Yes		MD MBSS Fish IBI Stream Health			N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)				MD MBSS Combined IBI Stream Health			N/A
		36		VA INSTAR mIBI Stream Health			Moderate
# Rare Fish (HUC8)	,	0			eam Health		N/A
# Rare Mussel (HUC8)		4					
# Rare Crayfish (HUC8)		0					
		J					

