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						



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_499 R. A. SMITH DAM

Network, System Type and Condition								
Functional Upstream Network (mi)	0.08		Upstre	eam Size Class Gain (#)	0			
Total Functional Network (mi)	2956.76		# Downsteam Natural Barriers		0			
Absolute Gain (mi)	0.08		# Dow	nstream Hydropower Dams	s 3			
# Size Classes in Total Network	5		# Downstream Dams with Passa		е 3			
# Upstream Network Size Classes	0		# of Downstream Barriers		3			
NFHAP Cumulative Disturbance Inc	xek			Very High				
Dam is on Conserved Land				No				
% Conserved Land in 100m Buffer of Upstream Network				0				
% Conserved Land in 100m Buffer of Downstream Network				5.91				
Density of Crossings in Upstream N								
Density of Crossings in Downstream Network Watershed (#/m2) 0.5								
Density of off-channel dams in Upstream Network Watershed (#/m2) 0								
Density of off-channel dams in Dov	Density of off-channel dams in Downstream Network Watershed (#/m2) 0							
	С	Diadrom	ous Fish					
Downstream Alewife	Current	D	Downstream Striped Bass		None Documented			
Downstream Blueback	Historical	D	Downstream Atlantic Sturgeon		None Documented			
Downstream American Shad	None Documente	d D	Downstream Shortnose Sturgeon		None Documented			
Downstream Hickory Shad	None Documente	d D	Downstream American Eel		Current			
One or More DS Anadromous Species Current			Diadromous	2				
Resident Fish an	d Rare Species			Stream Health				
Barrier is in EBTJV BKT Catchment		No	Chesape	eake Bay Program Stream H	lealth FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	SS Benthic IBI Stream Healt	h N/A			
Barrier Blocks an EBTJV Catchment		No	MD MBS	MD MBSS Fish IBI Stream Health				
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBS	SS Combined IBI Stream He	alth N/A			
Native Fish Species Richness (HUC8)		58	VA INST	AR mIBI Stream Health	Moderate			
# Rare Fish (HUC8)		1	PA IBI St	PA IBI Stream Health				
# Rare Mussel (HUC8)		3						
# Rare Crayfish (HUC8)		0						
Globally rare or fed listed fish/mussel sp HUC12		No	Rare fish	Rare fish or mussel sp in HUC12				
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network		No		Rare fish or mussel in upstream or downstream functional network				

