Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_478 BUFFALO CREEK DAM #1

Bay-wide Diadromous Tier 2
Bay-wide Resident Tier 1

Bay-wide Brook Trout Tier N/A

NID ID VA14701

State ID 478

River Name Falling Creek

Dam Height (ft) 35

Dam Type Earth

Latitude 37.2845

Longitude -78.553

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 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	0.37	% Tree Cover in ARA of Upstream Network	72.77				
% Natural Cover in Upstream Drainage Area	61.7	% Tree Cover in ARA of Downstream Network	86.58				
% Forested in Upstream Drainage Area	47.97	% Herbaceaous Cover in ARA of Upstream Network	21.23				
% Agriculture in Upstream Drainage Area	35.01	% Herbaceaous Cover in ARA of Downstream Network	9.87				
% Natural Cover in ARA of Upstream Network	74.39	% 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	54.5	% Road Impervious in ARA of Upstream Network	0.82				
% Forest Cover in ARA of Downstream Network	61	% Road Impervious in ARA of Downstream Network	0.36				
% Agricultral Cover in ARA of Upstream Network	22.62	% Other Impervious in ARA of Upstream Network	0.29				
% 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	0.25						
% Impervious Surf in ARA of Downstream Network	0.27						



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CITTI Ollique ID. VA_478	DOFFALO CREEK D	AIVI #1				
	Network, Syst	tem Typ	pe and Condition			
Functional Upstream Network (mi) 12.75			Upstream Size Class Gain (#)		0	
Total Functional Network (mi) 2969.43			# Downsteam Natural Barriers		0	
Absolute Gain (mi) 12.75			# Downstream Hydropower Dams		3	
# Size Classes in Total Network 5			# Downstream Dams with Passage		3	
# Upstream Network Size Classes 1			# of Downstream Barriers		3	
NFHAP Cumulative Disturbanc	e Index		Moderate			
Dam is on Conserved Land			No			
% Conserved Land in 100m Buffer of Upstream Network		<	0			
% Conserved Land in 100m Bu	ffer of Downstream Netw	ork/	5.91			
Density of Crossings in Upstrea	am Network Watershed (#/m2)	0.67			
Density of Crossings in Downs	ream Network Watershe	d (#/m	2) 0.5			
Density of off-channel dams in	Upstream Network Wate	ershed	(#/m2) 0			
Density of off-channel dams in	Downstream Network W	/atersh	ed (#/m2) 0			
	Dia	adromo	us Fish			
Downstream Alewife	Current	Do	Downstream Striped Bass		None Documented	
Downstream Blueback	Historical	Do	Downstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Documented	Do	Downstream Shortnose Sturgeon None Do		cumented	
Downstream Hickory Shad	None Documented	Do	ownstream American Eel	Current		
Presence of 1 or More Downs	tream Anadromous Speci	es C u	rrent			
# Diadromous Species Downst	ream (incl eel)	2				
Resident Fish			Stream Health			
Barrier is in EBTJV BKT Catchment No		lo	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No		lo	MD MBSS Benthic IBI Stream Health N/A		N/A	
Barrier Blocks an EBTJV Catchment No		lo	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		lo	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8) 58		8	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8)			PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)					•	
# Rare Crayfish (HUC8) 0						

