Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_724 LAKE MONTICELLO SETTLEMENT POND

Bay-wide Diadromous Tier 5
Bay-wide Resident Tier 3

Bay-wide Brook Trout Tier N/A

NID ID VA06510

State ID 724

River Name Boston Creek

Dam Height (ft) 26

Dam Type Earth

Latitude 37.9236

Longitude -78.3427

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

HUC 12 Stigger Creek-Rivanna River

HUC 10 Cunningham Creek-Rivanna Rive

HUC 8 Rivanna

HUC 6 James

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	1.32	% Tree Cover in ARA of Upstream Network	87.8					
% Natural Cover in Upstream Drainage Area	77.56	% Tree Cover in ARA of Downstream Network	79.1					
% Forested in Upstream Drainage Area	71.68	% Herbaceaous Cover in ARA of Upstream Network	5.14					
% Agriculture in Upstream Drainage Area	9.49	% Herbaceaous Cover in ARA of Downstream Network	15.73					
% Natural Cover in ARA of Upstream Network	87.74	% 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	79.76	% Road Impervious in ARA of Upstream Network	1.37					
% 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	4.27	% Other Impervious in ARA of Upstream Network	1.17					
% 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	0.52							
% Impervious Surf in ARA of Downstream Network	0.71							



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	Network, S	ystem	Туре	and Condition		
Functional Upstream Network (mi) 5.13			Upstream Size Class Gain (#)		0	
Total Functional Network (mi) 5436.15			# Downsteam Natural Barriers		ers	0
Absolute Gain (mi)	5.13			# Downstream Hydropower Dams		2
# Size Classes in Total Networ	k 6		# Downstream Dams with Passage		Passage	4
Upstream Network Size Classes 2			# of Downstream Barriers		4	
NFHAP Cumulative Disturband	ce Index			High		
Dam is on Conserved Land				No		
% Conserved Land in 100m Bu	iffer of Upstream Netw	ork		39.41		
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork	(11.23		
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)	1.17		
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	0.84		
Density of off-channel dams in	n Upstream Network W	atersh	ned (#/	/m2) 0		
Density of off-channel dams in	n Downstream Network	Wate	ershed	(#/m2) 0		
		Diadro	omous	Fish		
Downstream Alewife	Potential Current		Dow	Downstream Striped Bass None		cumented
Downstream Blueback	Potential Current		Dow	nstream Atlantic Sturgeon	None Doc	cumented
Downstream American Shad	None Documented		Dow	nstream Shortnose Sturgeon	None Doc	cumented
Downstream Hickory Shad	None Documented		Dow	nstream American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Pote	ntial Curre		
# Diadromous Species Downs	tream (incl eel)		1			
Resident Fish			Stream Health			
Barrier is in EBTJV BKT Catchment No		No		Chesapeake Bay Program Stream Health FAIR		FAIR
Barrier is in Modeled BKT Catchment (DeWeber) N		No		MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment Ye		Yes		MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No		MD MBSS Combined IBI Stream Health		N/A
Native Fish Species Richness (HUC8) 36		36		VA INSTAR mIBI Stream Health		Very High
# Rare Fish (HUC8) 0		0		PA IBI Stream Health		N/A
# Rare Mussel (HUC8)		4				-
# Rare Crayfish (HUC8)		0				

