## **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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CFPPP Unique ID: VA 724 LAKE MONTICELLO SETTLEMENT POND Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 5.13 Total Functional Network (mi) 5436.15 # Downsteam Natural Barriers 0 Absolute Gain (mi) 5.13 2 # Downstream Hydropower Dams # Size Classes in Total Network 6 # Downstream Dams with Passage # Upstream Network Size Classes 2 # of Downstream Barriers NEHAP Cumulative Disturbance Index High Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 39.41 % Conserved Land in 100m Buffer of Downstream Network 11.23 Density of Crossings in Upstream Network Watershed (#/m2) 1.17 Density of Crossings in Downstream Network Watershed (#/m2) 0.84 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2)  $\cap$ Diadromous Fish Downstream Alewife **Potential Current Downstream Striped Bass** None Documented Downstream Blueback **Potential Current** Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented None Documented Downstream Shortnose Sturgeon Downstream American Eel Downstream Hickory Shad None Documented Current One or More DS Anadromous Species Potential Curre # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health FAIR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment Yes MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 36 VA INSTAR mIBI Stream Health Very High 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 4 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Yes No Globally rare or fed listed fish/mussel sp in Rare fish or mussel in upstream or



Yes

upstream or downstream functional network

Yes

downstream functional network