## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_401 SMITHFIELD LAKE DAM

Diadromous Tier 2

Brook Trout Tier N/A

Resident Tier 6

NID ID VA09315

State ID 401

River Name Mount Holly Creek

Dam Height (ft) 19

Dam Type Earth

Latitude 36.9767

Longitude -76.6649

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Warren Creek-Pagan River

HUC 10 Pagan River-James River

HUC 8 Lower James

HUC 6 James

HUC 4 Lower Chesapeake







Landcover					
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.6	% Tree Cover in ARA of Upstream Network	44.88		
% Natural Cover in Upstream Drainage Area	55.89	% Tree Cover in ARA of Downstream Network	52.33		
% Forested in Upstream Drainage Area	38.62	% Herbaceaous Cover in ARA of Upstream Network	51.14		
% Agriculture in Upstream Drainage Area	36.2	% Herbaceaous Cover in ARA of Downstream Network	23.27		
% Natural Cover in ARA of Upstream Network	48.82	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	61.14	% Barren Cover in ARA of Downstream Network	0.81		
% Forest Cover in ARA of Upstream Network	28.37	% Road Impervious in ARA of Upstream Network	0.58		
% Forest Cover in ARA of Downstream Network	20.82	% Road Impervious in ARA of Downstream Network	3		
% Agricultral Cover in ARA of Upstream Network	44.07	% Other Impervious in ARA of Upstream Network	0.9		
% Agricultral Cover in ARA of Downstream Network 16.16		% Other Impervious in ARA of Downstream Network	6.83		
% Impervious Surf in ARA of Upstream Network	0.6				
% Impervious Surf in ARA of Downstream Network	8.84				



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CIFFF Offique ID. VA_401	SWITTIFIELD LAK	LUAI	**		
	Network, Sys	stem	Type and Condition		
Functional Upstream Network	(mi) 7.15		Upstream Size Class Gain (#)	0	
Total Functional Network (mi)	198.91		# Downsteam Natural Barrier	rs 0	
Absolute Gain (mi)	7.15		# Downstream Hydropower [	Dams 0	
# Size Classes in Total Networ	k 3		# Downstream Dams with Pa	ssage 0	
# Upstream Network Size Clas	sses 1		# of Downstream Barriers	0	
NFHAP Cumulative Disturband	ce Index		High		
Dam is on Conserved Land			No		
% Conserved Land in 100m Bu	ıffer of Upstream Netwo	rk	29.3		
% Conserved Land in 100m Bu	uffer of Downstream Net	work	1.71		
Density of Crossings in Upstre	am Network Watershed	(#/m	2) 0.15		
Density of Crossings in Downs		-			
Density of off-channel dams in	n Upstream Network Wa	tersh	ed (#/m2) 0		
Density of off-channel dams in	n Downstream Network \	Wate	rshed (#/m2) 0		
		.:	Field		
Downstream Alewife	Current	riauro	mous Fish  Downstream Striped Bass	None Documente	
			·		
Downstream Blueback	Current			None Documente	
Downstream American Shad	None Documented		Downstream Shortnose Sturgeon	None Documente	
Downstream Hickory Shad	None Documented		Downstream American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spe	cies	Current		
# Diadromous Species Downs	tream (incl eel)		3		
Reside	ent Fish		Stream	Health	
Barrier is in EBTJV BKT Catchment No.		No	Chesapeake Bay Program Strea	Chesapeake Bay Program Stream Health FAIR	
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic IBI Stream F	MD MBSS Benthic IBI Stream Health N/A	
Barrier Blocks an EBTJV Catchment N		No	MD MBSS Fish IBI Stream Heal	th <b>N/</b> A	
Barrier Blocks a Modeled BKT	Catchment (DeWeber)	No	MD MBSS Combined IBI Stream	n Health <b>N/A</b>	
Native Fish Species Richness (	(HUC8)	62	VA INSTAR mIBI Stream Health	High	
# Rare Fish (HUC8)		2	PA IBI Stream Health	N/A	
# Rare Mussel (HUC8)		1			
# Rare Crayfish (HUC8)		0			
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