Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1079 SMITHLEIGH DAM

Diadromous Tier 17

Brook Trout Tier N/A

Resident Tier 13

NID ID VA01523

State ID 1079

River Name Middle River

Dam Height (ft) 22

Dam Type Gravity

Latitude 38.1527

Longitude -79.2134

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Edison Creek-Middle River

HUC 10 Upper Middle River

HUC 8 South Fork Shenandoah

HUC 6 Potomac







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.26	% Tree Cover in ARA of Upstream Network	26.33
% Natural Cover in Upstream Drainage Area	56.41	% Tree Cover in ARA of Downstream Network	43.94
% Forested in Upstream Drainage Area	55.8	% Herbaceaous Cover in ARA of Upstream Network	70.28
% Agriculture in Upstream Drainage Area	39.78	% Herbaceaous Cover in ARA of Downstream Network	50.44
% Natural Cover in ARA of Upstream Network	15.73	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	33.17	% Barren Cover in ARA of Downstream Network	0.03
% Forest Cover in ARA of Upstream Network	14.08	% Road Impervious in ARA of Upstream Network	1.22
% Forest Cover in ARA of Downstream Network	32.05	% Road Impervious in ARA of Downstream Network	1.87
% Agricultral Cover in ARA of Upstream Network	74.4	% Other Impervious in ARA of Upstream Network	0.82
% Agricultral Cover in ARA of Downstream Network	50.49	% Other Impervious in ARA of Downstream Network	2.07
% Impervious Surf in ARA of Upstream Network	0.84		
% Impervious Surf in ARA of Downstream Network	3.12		



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	Network, Sy	/stem	Type and Condit	tion		
Functional Upstream Network (mi) 58.33			Upstream Size Class Gain (#)		.)	0
Total Functional Network (mi)	al Functional Network (mi) 818.91		# Downsteam Natural Barriers		ers	2
Absolute Gain (mi)	58.33	58.33		# Downstream Hydropower I		4
# Size Classes in Total Networl	k 4	4		# Downstream Dams with Pa		3
# Upstream Network Size Classes 2			# of Downstream Barriers			9
NFHAP Cumulative Disturband	ce Index			Not Scored / Unava	ailable at thi	s scale
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				23.11		
% Conserved Land in 100m Buffer of Downstream Network				16.12		
Density of Crossings in Upstream Network Watershed (#/m2			2)	0.98		
Density of Crossings in Downstream Network Watershed (#/				1.85		
Density of off-channel dams in	n Upstream Network Wa	ed (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wateı	rshed (#/m2)	0		
	-):l				
Downstream Alewife	None Documented	Jiauro	mous Fish	rinad Rass	None Docu	ımented
			Downstream Striped Bass			
Downstream Blueback	None Documented			tlantic Sturgeon	None Docu	
Downstream American Shad	None Documented		Downstream Sh	nortnose Sturgeon	None Docu	ımented
Downstream Hickory Shad	None Documented		Downstream American Eel		None Documented	
Presence of 1 or More Downs	tream Anadromous Spe	cies	None Docume			
# Diadromous Species Downs	tream (incl eel)		0			
Resident Fish			Stream Health			
Barrier is in EBTJV BKT Catchment		No	Chesapea	Chesapeake Bay Program Stream Health FA		FAIR
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS	MD MBSS Benthic IBI Stream Health		N/A
	Barrier Blocks an EBTJV Catchment		MD MBSS	MD MBSS Fish IBI Stream Health		N/A
	IIICIIL			MD MBSS Combined IBI Stream Health		NI/A
Barrier Blocks an EBTJV Catch		No	MD MBSS	Combined IBI Stream	am Health	N/A
Barrier Blocks an EBTJV Catch Barrier Blocks a Modeled BKT	Catchment (DeWeber)	No 35		6 Combined IBI Strea R mIBI Stream Healt		Moderate
Barrier Blocks an EBTJV Catch Barrier Blocks a Modeled BKT Native Fish Species Richness (Catchment (DeWeber)		VA INSTA			
	Catchment (DeWeber)	35	VA INSTA	R mIBI Stream Heal		Moderate

