Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_979**   SWEET BRIAR COLLEGE - LOWER DAM

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	9
Bay-wide Brook Trout Tier	N/A
NID ID	VA00919
State ID	979
River Name	
Dam Height (ft)	32
Dam Type	Earth
Latitude	37.5646
Longitude	-79.0807
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Rutledge Creek
HUC 10	Buffalo River
HUC 8	Middle James-Buffalo
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.88	% Tree Cover in ARA of Upstream Network	74.44
% Natural Cover in Upstream Drainage Area	67.79	% Tree Cover in ARA of Downstream Network	83.92
% Forested in Upstream Drainage Area	64.52	% Herbaceaous Cover in ARA of Upstream Network	19.27
% Agriculture in Upstream Drainage Area	25.3	% Herbaceaous Cover in ARA of Downstream Network	11.84
% Natural Cover in ARA of Upstream Network	70.48	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	77.05	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	62.73	% Road Impervious in ARA of Upstream Network	0.32
% Forest Cover in ARA of Downstream Network	72.22	% Road Impervious in ARA of Downstream Network	1.62
% Agricultral Cover in ARA of Upstream Network	25.58	% Other Impervious in ARA of Upstream Network	0.35
% Agricultral Cover in ARA of Downstream Network	15.45	% Other Impervious in ARA of Downstream Network	0.97
% Impervious Surf in ARA of Upstream Network	0.34		
% Impervious Surf in ARA of Downstream Network	1.65		

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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Network, System Type and Condition

Functional Upstream Network (mi)	1.74	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	124.1	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.74	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	1	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index		Not Scored / Unavailable at this scale	
Dam is on Conserved Land		No	
% Conserved Land in 100m Buffer of Upstream Network		24.58	
% Conserved Land in 100m Buffer of Downstream Network		3.5	
Density of Crossings in Upstream Network Watershed (#/m2)		0.86	
Density of Crossings in Downstream Network Watershed (#/m2)		1.37	
Density of off-channel dams in Upstream Network Watershed (#/m2)		0	
Density of off-channel dams in Downstream Network Watershed (#/m2)		0	

Diadromous Fish

Downstream Alewife	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	1

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	50
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	High
PA IBI Stream Health	N/A

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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