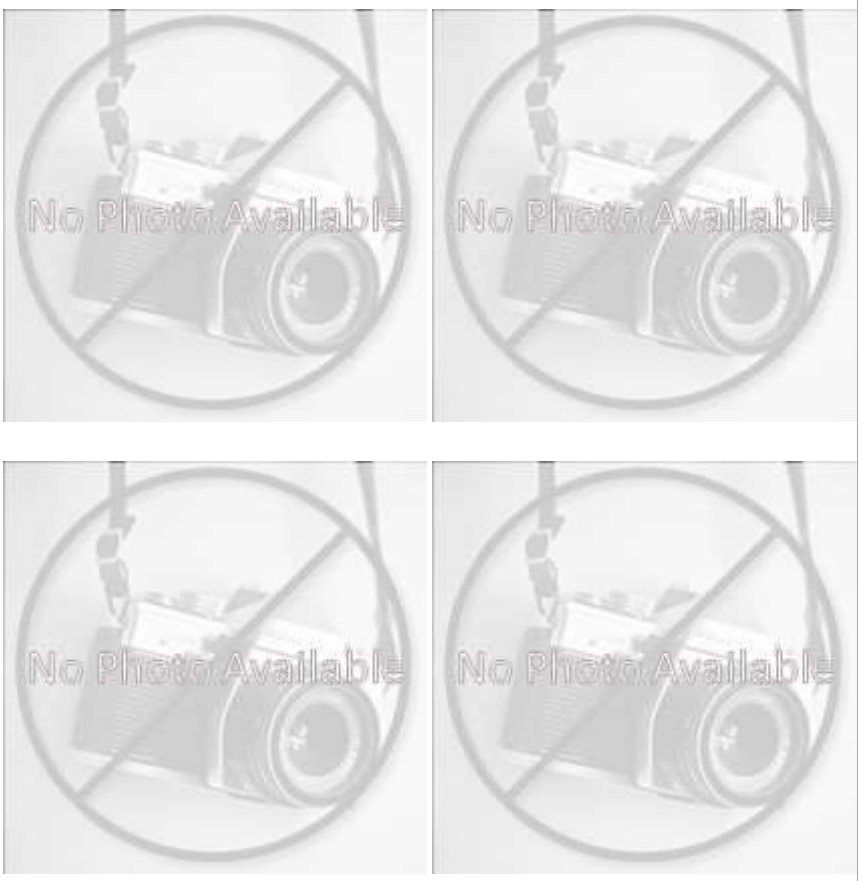
Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1080** **SMITH DAM**

Diadromous Tier	19
Brook Trout Tier	N/A
Resident Tier	16
NID ID	VA01526
State ID	1080
River Name	
Dam Height (ft)	15
Dam Type	Gravity
Latitude	38.1152
Longitude	-78.9471
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Meadow Run
HUC 10	Christians Creek
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	3.52
% Natural Cover in Upstream Drainage Area	15.05
% Forested in Upstream Drainage Area	14.66
% Agriculture in Upstream Drainage Area	65.48
% Natural Cover in ARA of Upstream Network	22.51
% Natural Cover in ARA of Downstream Network	33.17
% Forest Cover in ARA of Upstream Network	14.62
% Forest Cover in ARA of Downstream Network	32.05
% Agricultral Cover in ARA of Upstream Network	73.39
% Agricultral Cover in ARA of Downstream Network	50.49
% Impervious Surf in ARA of Upstream Network	0.81
% Impervious Surf in ARA of Downstream Network	3.12

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	3.51
% Tree Cover in ARA of Downstream Network	43.94
% Herbaceaous Cover in ARA of Upstream Network	85.62
% Herbaceaous Cover in ARA of Downstream Network	50.44
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.03
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	1.87
% Other Impervious in ARA of Upstream Network	0.64
% Other Impervious in ARA of Downstream Network	2.07

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)	3.56	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	764.14	# Downsteam Natural Barriers	2
Absolute Gain (mi)	3.56	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	9

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0.07
% Conserved Land in 100m Buffer of Downstream Network	16.12
Density of Crossings in Upstream Network Watershed (#/m2)	0.88
Density of Crossings in Downstream Network Watershed (#/m2)	1.85
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	0

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

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	No Data
PA IBI Stream Health	N/A

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