

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_28-108** **CALEDONIA WATER COMPANY**

Diadromous Tier	18
Brook Trout Tier	6
Resident Tier	9
NID ID	PA01143
State ID	28-108
River Name	Stump Run
Dam Height (ft)	32
Dam Type	Earth
Latitude	39.8908
Longitude	-77.5033
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Mountain Creek-Conococheagu
HUC 10	Conococheague Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.37	% Tree Cover in ARA of Upstream Network	97.06
% Natural Cover in Upstream Drainage Area	88.56	% Tree Cover in ARA of Downstream Network	51.1
% Forested in Upstream Drainage Area	88.16	% Herbaceous Cover in ARA of Upstream Network	1.11
% Agriculture in Upstream Drainage Area	1.79	% Herbaceous Cover in ARA of Downstream Network	40.91
% Natural Cover in ARA of Upstream Network	99.87	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	44.78	% Barren Cover in ARA of Downstream Network	0.86
% Forest Cover in ARA of Upstream Network	97.92	% Road Impervious in ARA of Upstream Network	0.5
% Forest Cover in ARA of Downstream Network	38.3	% Road Impervious in ARA of Downstream Network	1.67
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0.04
% Agricultural Cover in ARA of Downstream Network	32.73	% Other Impervious in ARA of Downstream Network	4.15
% Impervious Surf in ARA of Upstream Network	0		
% Impervious Surf in ARA of Downstream Network	3.95		

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)	2.07	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	76.03	# Downstream Natural Barriers	1
Absolute Gain (mi)	2.07	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	8
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	43.04		
% Conserved Land in 100m Buffer of Downstream Network	29.98		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	1.42		
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	Current
Presence of 1 or More Downstream Anadromous Species	None Docume		
# Diadromous Species Downstream (incl eel)	1		

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Fair

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