Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12161** **CASCADE LAKE DAM**

Bay-wide Diadromous Tier	16
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	N/A
NID ID	MD00118
State ID	12161
River Name	
Dam Height (ft)	20
Dam Type	Rockfill
Latitude	39.6167
Longitude	-76.8883
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	East Branch of North Branch Pat
HUC 10	North Branch Patapsco River
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.34
% Natural Cover in Upstream Drainage Area	35.6
% Forested in Upstream Drainage Area	28.82
% Agriculture in Upstream Drainage Area	47.33
% Natural Cover in ARA of Upstream Network	53.66
% Natural Cover in ARA of Downstream Network	59.08
% Forest Cover in ARA of Upstream Network	36.06
% Forest Cover in ARA of Downstream Network	50.48
% Agricultral Cover in ARA of Upstream Network	31.26
% Agricultral Cover in ARA of Downstream Network	28.62
% Impervious Surf in ARA of Upstream Network	1.89
% Impervious Surf in ARA of Downstream Network	2.48

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	63.31
% Tree Cover in ARA of Downstream Network	65.63
% Herbaceaous Cover in ARA of Upstream Network	30.85
% Herbaceaous Cover in ARA of Downstream Network	30.26
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.03
% Road Impervious in ARA of Upstream Network	1.38
% Road Impervious in ARA of Downstream Network	1.13
% Other Impervious in ARA of Upstream Network	2.79
% Other Impervious in ARA of Downstream Network	2.65

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)	4.28	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	121.87	# Downsteam Natural Barriers	0
Absolute Gain (mi)	4.28	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	10.31
% Conserved Land in 100m Buffer of Downstream Network	16.34
Density of Crossings in Upstream Network Watershed (#/m2)	1.38
Density of Crossings in Downstream Network Watershed (#/m2)	1.51
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	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# 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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

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

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