Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12154** **LAKE BONNIE**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	9
Bay-wide Brook Trout Tier	N/A
NID ID	MD00103
State ID	12154
River Name	Broadway Branch
Dam Height (ft)	14
Dam Type	Earth
Latitude	39.0197
Longitude	-75.7763
Passage Facilities	Alaskan Steepass
Passage Year	2000
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Gravelly Branch-Choptank River
HUC 10	Upper Choptank River
HUC 8	Choptank
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.96
% Natural Cover in Upstream Drainage Area	35.34
% Forested in Upstream Drainage Area	10.59
% Agriculture in Upstream Drainage Area	58.12
% Natural Cover in ARA of Upstream Network	36.51
% Natural Cover in ARA of Downstream Network	40.43
% Forest Cover in ARA of Upstream Network	10.89
% Forest Cover in ARA of Downstream Network	11.12
% Agricultral Cover in ARA of Upstream Network	57.7
% Agricultral Cover in ARA of Downstream Network	51.16
% Impervious Surf in ARA of Upstream Network	0.75
% Impervious Surf in ARA of Downstream Network	1.57

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	38.29
% Tree Cover in ARA of Downstream Network	36.41
% Herbaceaous Cover in ARA of Upstream Network	59
% Herbaceaous Cover in ARA of Downstream Network	55.1
% Barren Cover in ARA of Upstream Network	0.22
% Barren Cover in ARA of Downstream Network	0.2
% Road Impervious in ARA of Upstream Network	0.88
% Road Impervious in ARA of Downstream Network	0.97
% Other Impervious in ARA of Upstream Network	0.92
% Other Impervious in ARA of Downstream Network	1.88

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)	31.09	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1373.26	# Downsteam Natural Barriers	0
Absolute Gain (mi)	31.09	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	22.69
% Conserved Land in 100m Buffer of Downstream Network	19.29
Density of Crossings in Upstream Network Watershed (#/m2)	0.96
Density of Crossings in Downstream Network Watershed (#/m2)	0.68
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	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	Current	# Diadromous Sp Dnstrm (incl eel)	3

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)	43
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# 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	Yes

Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	Poor
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
Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

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