Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1172** **LAKE AUDUBON DAM**

Bay-wide Diadromous Tier	6
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	N/A
NID ID	VA05921
State ID	1172
River Name	Snakeden Branch
Dam Height (ft)	46
Dam Type	Gravity
Latitude	38.9328
Longitude	-77.3253
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Difficult Run
HUC 10	Difficult Run-Potomac River
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	19.63
% Natural Cover in Upstream Drainage Area	29.4
% Forested in Upstream Drainage Area	22.43
% Agriculture in Upstream Drainage Area	1.11
% Natural Cover in ARA of Upstream Network	46.39
% Natural Cover in ARA of Downstream Network	68.27
% Forest Cover in ARA of Upstream Network	32.43
% Forest Cover in ARA of Downstream Network	49.17
% Agricultral Cover in ARA of Upstream Network	0.65
% Agricultral Cover in ARA of Downstream Network	0.92
% Impervious Surf in ARA of Upstream Network	11.7
% Impervious Surf in ARA of Downstream Network	6.38

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	62.08
% Tree Cover in ARA of Downstream Network	72.74
% Herbaceaous Cover in ARA of Upstream Network	14.92
% Herbaceaous Cover in ARA of Downstream Network	11.29
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.41
% Road Impervious in ARA of Upstream Network	6.23
% Road Impervious in ARA of Downstream Network	3.9
% Other Impervious in ARA of Upstream Network	6.63
% Other Impervious in ARA of Downstream Network	5.16

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)	3.79	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	171.28	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.79	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	29.5
Density of Crossings in Upstream Network Watershed (#/m2)	1.3
Density of Crossings in Downstream Network Watershed (#/m2)	1.62
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)	51
# 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	ERY_POOR
MD MBSS Benthic IBI Stream Health	Very Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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