Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_SU051** **LAKE AARON STRAUSS**

Diadromous Tier	5
Brook Trout Tier	N/A
Resident Tier	2
NID ID	
State ID	SU051
River Name	Broad Creek
Dam Height (ft)	36
Dam Type	Unspecified Type
Latitude	39.6894
Longitude	-76.2631
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Broad Creek
HUC 10	Susquehanna River
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.81
% Natural Cover in Upstream Drainage Area	37.62
% Forested in Upstream Drainage Area	33.16
% Agriculture in Upstream Drainage Area	51.64
% Natural Cover in ARA of Upstream Network	53.9
% Natural Cover in ARA of Downstream Network	74.81
% Forest Cover in ARA of Upstream Network	42.86
% Forest Cover in ARA of Downstream Network	28.95
% Agricultral Cover in ARA of Upstream Network	37.04
% Agricultral Cover in ARA of Downstream Network	20.6
% Impervious Surf in ARA of Upstream Network	0.6
% Impervious Surf in ARA of Downstream Network	0.59

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	54.8
% Tree Cover in ARA of Downstream Network	34.61
% Herbaceaous Cover in ARA of Upstream Network	41.53
% Herbaceaous Cover in ARA of Downstream Network	22.82
% Barren Cover in ARA of Upstream Network	0.03
% Barren Cover in ARA of Downstream Network	0.34
% Road Impervious in ARA of Upstream Network	0.92
% Road Impervious in ARA of Downstream Network	0.51
% Other Impervious in ARA of Upstream Network	1.12
% Other Impervious in ARA of Downstream Network	1.48

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)	45.66	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	223.33	# Downsteam Natural Barriers	0
Absolute Gain (mi)	45.66	# Downstream Hydropower Dams	1
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	6.74
% Conserved Land in 100m Buffer of Downstream Network	2.58
Density of Crossings in Upstream Network Watershed (#/m2)	0.74
Density of Crossings in Downstream Network Watershed (#/m2)	0.65
Density of off-channel dams in Upstream Network Watershed (#/m2)	0.01
Density of off-channel dams in Downstream Network Watershed (#/m2)	0

Diadromous Fish

Downstream Alewife	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential 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

Presence of 1 or More Downstream Anadromous Species	Potential Curre
# Diadromous Species Downstream (incl eel)	1

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)	53
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	Good

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