Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12068** **LAKE NIRVANA DAM**

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	20
Bay-wide Brook Trout Tier	N/A
NID ID	MD00056
State ID	12068
River Name	
Dam Height (ft)	29
Dam Type	Earth
Latitude	39.1146
Longitude	-77.2394
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Muddy Branch
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	40.69
% Natural Cover in Upstream Drainage Area	7.16
% Forested in Upstream Drainage Area	2.07
% Agriculture in Upstream Drainage Area	0.09
% Natural Cover in ARA of Upstream Network	43.66
% Natural Cover in ARA of Downstream Network	32.59
% Forest Cover in ARA of Upstream Network	8.45
% Forest Cover in ARA of Downstream Network	12.59
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	5.19
% Impervious Surf in ARA of Upstream Network	12.6
% Impervious Surf in ARA of Downstream Network	19.28

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	41.46
% Tree Cover in ARA of Downstream Network	40.44
% Herbaceaous Cover in ARA of Upstream Network	17.28
% Herbaceaous Cover in ARA of Downstream Network	22.78
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.4
% Road Impervious in ARA of Upstream Network	3.56
% Road Impervious in ARA of Downstream Network	3.25
% Other Impervious in ARA of Upstream Network	5.19
% Other Impervious in ARA of Downstream Network	12.48

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)	0.15	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	0.54	# Downsteam Natural Barriers	1
Absolute Gain (mi)	0.15	# Downstream Hydropower Dams	0
# Size Classes in Total Network	0	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	90.37
% Conserved Land in 100m Buffer of Downstream Network	12.04
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	7.23
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	None Documented

Presence of 1 or More Downstream Anadromous Species	None Docume
# 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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_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	N/A
PA IBI Stream Health	N/A

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