Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1162**   **LAKE ANNE DAM**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	17
Bay-wide Brook Trout Tier	N/A
NID ID	VA05909
State ID	1162
River Name	
Dam Height (ft)	47
Dam Type	Gravity
Latitude	38.9649
Longitude	-77.3332
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

No Photo Available

Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	16	% Tree Cover in ARA of Upstream Network	52.35
% Natural Cover in Upstream Drainage Area	28.23	% Tree Cover in ARA of Downstream Network	63.15
% Forested in Upstream Drainage Area	22.38	% Herbaceaous Cover in ARA of Upstream Network	6.27
% Agriculture in Upstream Drainage Area	4.52	% Herbaceaous Cover in ARA of Downstream Network	24.12
% Natural Cover in ARA of Upstream Network	57.81	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	46.13	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	26.58	% Road Impervious in ARA of Upstream Network	4.55
% Forest Cover in ARA of Downstream Network	35.08	% Road Impervious in ARA of Downstream Network	3.6
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	7.57
% Agricultral Cover in ARA of Downstream Network	0	% Other Impervious in ARA of Downstream Network	4.88
% Impervious Surf in ARA of Upstream Network	12.11		
% Impervious Surf in ARA of Downstream Network	7.15		

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)	0.41	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	7.05	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.41	# Downstream Hydropower Dams	0
# Size Classes in Total Network	1	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	2

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   21.38

Density of Crossings in Upstream Network Watershed (#/m2)   0

Density of Crossings in Downstream Network Watershed (#/m2)   3.05

Density of off-channel dams in Upstream Network Watershed (#/m2)   0.42

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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	0

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	No

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