

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00053** **LOWER ALFORD LAKE**

Bay-wide Diadromous Tier	13
Bay-wide Resident Tier	3
Bay-wide Brook Trout Tier	13
NID ID	PA00053
State ID	PA00053
River Name	Martins Creek
Dam Height (ft)	14.5
Dam Type	Earth / Stone / Masonry
Latitude	41.807
Longitude	-75.7739
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Martins Creek
HUC 10	Tunkhannock Creek
HUC 8	Upper Susquehanna-Tunkhann
HUC 6	Upper Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.4	% Tree Cover in ARA of Upstream Network	67.97
% Natural Cover in Upstream Drainage Area	79.46	% Tree Cover in ARA of Downstream Network	54.16
% Forested in Upstream Drainage Area	73.48	% Herbaceous Cover in ARA of Upstream Network	15.9
% Agriculture in Upstream Drainage Area	14.3	% Herbaceous Cover in ARA of Downstream Network	33.75
% Natural Cover in ARA of Upstream Network	75.61	% Barren Cover in ARA of Upstream Network	0.3
% Natural Cover in ARA of Downstream Network	57.7	% Barren Cover in ARA of Downstream Network	0.51
% Forest Cover in ARA of Upstream Network	52.21	% Road Impervious in ARA of Upstream Network	3.26
% Forest Cover in ARA of Downstream Network	44.4	% Road Impervious in ARA of Downstream Network	2
% Agricultural Cover in ARA of Upstream Network	4.89	% Other Impervious in ARA of Upstream Network	2.16
% Agricultural Cover in ARA of Downstream Network	27.91	% Other Impervious in ARA of Downstream Network	3.88
% Impervious Surf in ARA of Upstream Network	1.41		
% Impervious Surf in ARA of Downstream Network	3.93		

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)	9.09	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	7081.63	# Downstream Natural Barriers	0
Absolute Gain (mi)	9.09	# Downstream Hydropower Dams	4
# Size Classes in Total Network	7	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	6
NFHAP Cumulative Disturbance Index	Low		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	6.98		
Density of Crossings in Upstream Network Watershed (#/m2)	1.02		
Density of Crossings in Downstream Network Watershed (#/m2)	0.98		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01		

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	Current
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	1

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	Yes
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)	34
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# 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	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Good
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf