

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_24**

ESSEX MILL DAM

Diadromous Tier	2
Brook Trout Tier	N/A
Resident Tier	2
NID ID	VA05707
State ID	24
River Name	Mill Creek
Dam Height (ft)	14
Dam Type	Gravity
Latitude	37.8606
Longitude	-76.8469
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Piscataway Creek
HUC 10	Cat Point Creek-Rappahannock
HUC 8	Lower Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.53	% Tree Cover in ARA of Upstream Network	89.53
% Natural Cover in Upstream Drainage Area	76.64	% Tree Cover in ARA of Downstream Network	75.45
% Forested in Upstream Drainage Area	57.11	% Herbaceous Cover in ARA of Upstream Network	4.9
% Agriculture in Upstream Drainage Area	18.54	% Herbaceous Cover in ARA of Downstream Network	15.78
% Natural Cover in ARA of Upstream Network	95.63	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	84.87	% Barren Cover in ARA of Downstream Network	0.01
% Forest Cover in ARA of Upstream Network	60.37	% Road Impervious in ARA of Upstream Network	0.44
% Forest Cover in ARA of Downstream Network	37.92	% Road Impervious in ARA of Downstream Network	0.55
% Agricultural Cover in ARA of Upstream Network	2.18	% Other Impervious in ARA of Upstream Network	0.52
% Agricultural Cover in ARA of Downstream Network	11.74	% Other Impervious in ARA of Downstream Network	0.72
% Impervious Surf in ARA of Upstream Network	0.19		
% Impervious Surf in ARA of Downstream Network	0.31		

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)	22.23	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	144.24	# Downstream Natural Barriers	0
Absolute Gain (mi)	22.23	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	6.27		
% Conserved Land in 100m Buffer of Downstream Network	2.9		
Density of Crossings in Upstream Network Watershed (#/m2)	0.23		
Density of Crossings in Downstream Network Watershed (#/m2)	0.29		
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
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

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)	58
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
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	Outstanding
PA IBI Stream Health	N/A

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