Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_786** **MATHEWS DAM**

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	20
Bay-wide Brook Trout Tier	N/A
NID ID	VA80008
State ID	786
River Name	Streeter Creek
Dam Height (ft)	13
Dam Type	Earth
Latitude	36.8865
Longitude	-76.4206
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Streeter Creek-Hampton Roads
HUC 10	Hampton Roads
HUC 8	Hampton Roads
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	38.68
% Natural Cover in Upstream Drainage Area	14.34
% Forested in Upstream Drainage Area	0.55
% Agriculture in Upstream Drainage Area	3.12
% Natural Cover in ARA of Upstream Network	12.99
% Natural Cover in ARA of Downstream Network	40.67
% Forest Cover in ARA of Upstream Network	2.41
% Forest Cover in ARA of Downstream Network	4.59
% Agricultral Cover in ARA of Upstream Network	2.21
% Agricultral Cover in ARA of Downstream Network	0.39
% Impervious Surf in ARA of Upstream Network	39.74
% Impervious Surf in ARA of Downstream Network	19.34

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	28.37
% Tree Cover in ARA of Downstream Network	42.86
% Herbaceaous Cover in ARA of Upstream Network	23.69
% Herbaceaous Cover in ARA of Downstream Network	17.41
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	1.38
% Road Impervious in ARA of Upstream Network	21.11
% Road Impervious in ARA of Downstream Network	7.1
% Other Impervious in ARA of Upstream Network	22.62
% Other Impervious in ARA of Downstream Network	12.54

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_786** **MATHEWS DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	2.09	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	9.32	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.09	# Downstream Hydropower Dams	0
# Size Classes in Total Network	1	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

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	0
Density of Crossings in Upstream Network Watershed (#/m2)	3.62
Density of Crossings in Downstream Network Watershed (#/m2)	1.82
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)	46
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_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	No Data
PA IBI Stream Health	N/A

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy