Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1275** **AQUIA CREEK DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	VA17911
State ID	1275
River Name	Aquia Creek
Dam Height (ft)	81
Dam Type	Gravity
Latitude	38.4875
Longitude	-77.3964
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Lower Aquia Creek
HUC 10	Potomac Creek-Potomac River
HUC 8	Lower Potomac
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.52
% Natural Cover in Upstream Drainage Area	80.45
% Forested in Upstream Drainage Area	64.55
% Agriculture in Upstream Drainage Area	4.5
% Natural Cover in ARA of Upstream Network	88.33
% Natural Cover in ARA of Downstream Network	78.54
% Forest Cover in ARA of Upstream Network	58.62
% Forest Cover in ARA of Downstream Network	22.93
% Agricultral Cover in ARA of Upstream Network	2.2
% Agricultral Cover in ARA of Downstream Network	1.37
% Impervious Surf in ARA of Upstream Network	1.53
% Impervious Surf in ARA of Downstream Network	4.06

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	82.89
% Tree Cover in ARA of Downstream Network	47.81
% Herbaceaous Cover in ARA of Upstream Network	9.09
% Herbaceaous Cover in ARA of Downstream Network	12.32
% Barren Cover in ARA of Upstream Network	0.81
% Barren Cover in ARA of Downstream Network	0.08
% Road Impervious in ARA of Upstream Network	1.01
% Road Impervious in ARA of Downstream Network	2.16
% Other Impervious in ARA of Upstream Network	2.14
% Other Impervious in ARA of Downstream Network	3.72

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_1275** **AQUIA CREEK DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	113.87	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	199.95	# Downsteam Natural Barriers	0
Absolute Gain (mi)	86.08	# 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	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	57.56
% Conserved Land in 100m Buffer of Downstream Network	3.38
Density of Crossings in Upstream Network Watershed (#/m2)	0.94
Density of Crossings in Downstream Network Watershed (#/m2)	1.41
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	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	5

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)	55
# Rare Fish (HUC8)	3
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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	High
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