Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_VA06919** **Bartonville Dam**

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	12
Bay-wide Brook Trout Tier	N/A
NID ID	VA06919
State ID	6919
River Name	Opequon Creek
Dam Height (ft)	20
Dam Type	Earth
Latitude	39.1108
Longitude	-78.2081
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Sulphur Spring Run-Opequon Cr
HUC 10	Opequon Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.86
% Natural Cover in Upstream Drainage Area	26.42
% Forested in Upstream Drainage Area	25
% Agriculture in Upstream Drainage Area	67.67
% Natural Cover in ARA of Upstream Network	22.1
% Natural Cover in ARA of Downstream Network	37.35
% Forest Cover in ARA of Upstream Network	19.22
% Forest Cover in ARA of Downstream Network	32.12
% Agricultral Cover in ARA of Upstream Network	72.01
% Agricultral Cover in ARA of Downstream Network	46.35
% Impervious Surf in ARA of Upstream Network	0.69
% Impervious Surf in ARA of Downstream Network	4.38

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	32.47
% Tree Cover in ARA of Downstream Network	41.38
% Herbaceaous Cover in ARA of Upstream Network	63.26
% Herbaceaous Cover in ARA of Downstream Network	48.3
% Barren Cover in ARA of Upstream Network	0.05
% Barren Cover in ARA of Downstream Network	0.43
% Road Impervious in ARA of Upstream Network	1.78
% Road Impervious in ARA of Downstream Network	2.17
% Other Impervious in ARA of Upstream Network	2.44
% Other Impervious in ARA of Downstream Network	4.7

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)	15.34	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	612.33	# Downsteam Natural Barriers	1
Absolute Gain (mi)	15.34	# Downstream Hydropower Dams	1
# Size Classes in Total Network	5	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	4

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	3.87
% Conserved Land in 100m Buffer of Downstream Network	3.98
Density of Crossings in Upstream Network Watershed (#/m2)	0.93
Density of Crossings in Downstream Network Watershed (#/m2)	1.14
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	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	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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# 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	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
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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