Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1181** **KINGSTOWNE LAKE DAM**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	N/A
NID ID	VA05932
State ID	1181
River Name	Dogue Creek
Dam Height (ft)	64.2
Dam Type	Gravity
Latitude	38.7753
Longitude	-77.1355
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Dogue Creek
HUC 10	Cameron Run-Potomac River
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	37.54
% Natural Cover in Upstream Drainage Area	8.58
% Forested in Upstream Drainage Area	6.11
% Agriculture in Upstream Drainage Area	0
% Natural Cover in ARA of Upstream Network	11.8
% Natural Cover in ARA of Downstream Network	49.05
% Forest Cover in ARA of Upstream Network	2.81
% Forest Cover in ARA of Downstream Network	22.04
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	1.78
% Impervious Surf in ARA of Upstream Network	35.66
% Impervious Surf in ARA of Downstream Network	18.92

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	32.83
% Tree Cover in ARA of Downstream Network	50.22
% Herbaceaous Cover in ARA of Upstream Network	20.23
% Herbaceaous Cover in ARA of Downstream Network	16.85
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.2
% Road Impervious in ARA of Upstream Network	17.36
% Road Impervious in ARA of Downstream Network	6.37
% Other Impervious in ARA of Upstream Network	16.72
% Other Impervious in ARA of Downstream Network	13.38

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)	0.36	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	594.97	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.36	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	0	# 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	33.15
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.72
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
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	3

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)	62
# Rare Fish (HUC8)	1
# 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	POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
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	Yes

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