Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1251** **LAKE JACKSON DAM**

Diadromous Tier	8
Brook Trout Tier	N/A
Resident Tier	1
NID ID	VA15306
State ID	1251
River Name	Occoquan River
Dam Height (ft)	28
Dam Type	Gravity
Latitude	38.7049
Longitude	-77.4483
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Lake Jackson-Occoquan River
HUC 10	Occoquan River-Potomac River
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	3.75
% Natural Cover in Upstream Drainage Area	48.41
% Forested in Upstream Drainage Area	37.71
% Agriculture in Upstream Drainage Area	33.89
% Natural Cover in ARA of Upstream Network	51.34
% Natural Cover in ARA of Downstream Network	57.51
% Forest Cover in ARA of Upstream Network	29.25
% Forest Cover in ARA of Downstream Network	41.43
% Agricultral Cover in ARA of Upstream Network	35.24
% Agricultral Cover in ARA of Downstream Network	9.25
% Impervious Surf in ARA of Upstream Network	2.9
% Impervious Surf in ARA of Downstream Network	9.69

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	58.05
% Tree Cover in ARA of Downstream Network	61.29
% Herbaceaous Cover in ARA of Upstream Network	36.33
% Herbaceaous Cover in ARA of Downstream Network	22.6
% Barren Cover in ARA of Upstream Network	0.27
% Barren Cover in ARA of Downstream Network	0.58
% Road Impervious in ARA of Upstream Network	1.42
% Road Impervious in ARA of Downstream Network	4.09
% Other Impervious in ARA of Upstream Network	2.58
% Other Impervious in ARA of Downstream Network	7.53

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)	644.22	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1231.9	# Downsteam Natural Barriers	0
Absolute Gain (mi)	587.68	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	4	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	18.86
% Conserved Land in 100m Buffer of Downstream Network	13.07
Density of Crossings in Upstream Network Watershed (#/m2)	1.35
Density of Crossings in Downstream Network Watershed (#/m2)	1.62
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Historical	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	0

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)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A

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