Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1161** **CHANTILLY COUNTRY CLUB DAM**

Bay-wide Diadromous Tier	16
Bay-wide Resident Tier	7
Bay-wide Brook Trout Tier	N/A
NID ID	VA05908
State ID	1161
River Name	Flatlick Branch
Dam Height (ft)	17
Dam Type	Gravity
Latitude	38.863
Longitude	-77.4724
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Cub Run
HUC 10	Bull Run
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	27.56
% Natural Cover in Upstream Drainage Area	15.4
% Forested in Upstream Drainage Area	12.95
% Agriculture in Upstream Drainage Area	0.75
% Natural Cover in ARA of Upstream Network	35.73
% Natural Cover in ARA of Downstream Network	57.51
% Forest Cover in ARA of Upstream Network	28.08
% Forest Cover in ARA of Downstream Network	41.43
% Agricultral Cover in ARA of Upstream Network	0.68
% Agricultral Cover in ARA of Downstream Network	9.25
% Impervious Surf in ARA of Upstream Network	15.21
% Impervious Surf in ARA of Downstream Network	9.69

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	55.16
% Tree Cover in ARA of Downstream Network	61.29
% Herbaceaous Cover in ARA of Upstream Network	25.91
% Herbaceaous Cover in ARA of Downstream Network	22.6
% Barren Cover in ARA of Upstream Network	0.04
% Barren Cover in ARA of Downstream Network	0.58
% Road Impervious in ARA of Upstream Network	6.85
% Road Impervious in ARA of Downstream Network	4.09
% Other Impervious in ARA of Upstream Network	10.26
% 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)	14.91	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	602.59	# Downsteam Natural Barriers	0
Absolute Gain (mi)	14.91	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	14.93
% Conserved Land in 100m Buffer of Downstream Network	13.07
Density of Crossings in Upstream Network Watershed (#/m2)	2.09
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	None Documented	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	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	Very High
PA IBI Stream Health	N/A

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