Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_BI008** **GENSTAR**

Bay-wide Diadromous Tier	5
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	BI008
River Name	Whitemarsh Run
Dam Height (ft)	0
Dam Type	Unspecified Type
Latitude	39.3664
Longitude	-76.4407
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Whitemarsh Run-Bird River
HUC 10	Gunpowder River-Chesapeake B
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	29.89
% Natural Cover in Upstream Drainage Area	14.25
% Forested in Upstream Drainage Area	12.16
% Agriculture in Upstream Drainage Area	0.04
% Natural Cover in ARA of Upstream Network	24.12
% Natural Cover in ARA of Downstream Network	66.19
% Forest Cover in ARA of Upstream Network	19.18
% Forest Cover in ARA of Downstream Network	42.51
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	8.39
% Impervious Surf in ARA of Upstream Network	25.27
% Impervious Surf in ARA of Downstream Network	5.8

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	44.02
% Tree Cover in ARA of Downstream Network	57.45
% Herbaceaous Cover in ARA of Upstream Network	27.22
% Herbaceaous Cover in ARA of Downstream Network	31.31
% Barren Cover in ARA of Upstream Network	0.41
% Barren Cover in ARA of Downstream Network	0.24
% Road Impervious in ARA of Upstream Network	6.92
% Road Impervious in ARA of Downstream Network	1.53
% Other Impervious in ARA of Upstream Network	20.57
% Other Impervious in ARA of Downstream Network	5.64

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)	14.56	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	208.89	# Downsteam Natural Barriers	0
Absolute Gain (mi)	14.56	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	10.49
% Conserved Land in 100m Buffer of Downstream Network	40.26
Density of Crossings in Upstream Network Watershed (#/m2)	2.77
Density of Crossings in Downstream Network Watershed (#/m2)	1.04
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	Current	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	4

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Very Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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