Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12133** **PATUXENT NAVAL AIR STATION, POND**

Diadromous Tier	2
Brook Trout Tier	N/A
Resident Tier	14
NID ID	MD00146
State ID	CW026
River Name	Pine Hill Run
Dam Height (ft)	13
Dam Type	Earth
Latitude	38.2681
Longitude	-76.4209
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Saint Jerome Creek-Chesapeake
HUC 10	Herring Bay-Chesapeake Bay
HUC 8	Severn
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	8.31
% Natural Cover in Upstream Drainage Area	63.7
% Forested in Upstream Drainage Area	46.44
% Agriculture in Upstream Drainage Area	7.79
% Natural Cover in ARA of Upstream Network	77.41
% Natural Cover in ARA of Downstream Network	52.42
% Forest Cover in ARA of Upstream Network	39.3
% Forest Cover in ARA of Downstream Network	8.08
% Agricultral Cover in ARA of Upstream Network	0.3
% Agricultral Cover in ARA of Downstream Network	0.5
% Impervious Surf in ARA of Upstream Network	4.09
% Impervious Surf in ARA of Downstream Network	15.97

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	69.01
% Tree Cover in ARA of Downstream Network	18.1
% Herbaceaous Cover in ARA of Upstream Network	20.04
% Herbaceaous Cover in ARA of Downstream Network	51.87
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.97
% Road Impervious in ARA of Upstream Network	3.66
% Road Impervious in ARA of Downstream Network	1.83
% Other Impervious in ARA of Upstream Network	1.64
% Other Impervious in ARA of Downstream Network	13.88

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)	2.65	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	4.14	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.48	# Downstream Hydropower Dams	0
# Size Classes in Total Network	1	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	99.92
% Conserved Land in 100m Buffer of Downstream Network	52.87
Density of Crossings in Upstream Network Watershed (#/m2)	0.54
Density of Crossings in Downstream Network Watershed (#/m2)	0.01
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

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	3

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)	30
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

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

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