Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12085** **GREAT FALLS ESTATE DAM**

Diadromous Tier	11
Brook Trout Tier	N/A
Resident Tier	14
NID ID	MD00049
State ID	12085
River Name	Cool Spring Branch
Dam Height (ft)	34
Dam Type	Earth
Latitude	39.012
Longitude	-77.2357
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Nichols Run-Potomac River
HUC 10	Difficult Run-Potomac River
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.02
% Natural Cover in Upstream Drainage Area	56.2
% Forested in Upstream Drainage Area	49.46
% Agriculture in Upstream Drainage Area	0
% Natural Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	43.71
% Forest Cover in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	30.17
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	38.99
% Impervious Surf in ARA of Upstream Network	0
% Impervious Surf in ARA of Downstream Network	3.98

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	0
% Tree Cover in ARA of Downstream Network	50.17
% Herbaceaous Cover in ARA of Upstream Network	0
% Herbaceaous Cover in ARA of Downstream Network	39.72
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.35
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	1.96
% Other Impervious in ARA of Upstream Network	0
% Other Impervious in ARA of Downstream Network	3.66

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)	0.49	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	2912.9	# Downsteam Natural Barriers	1
Absolute Gain (mi)	0.49	# Downstream Hydropower Dams	0
# Size Classes in Total Network	7	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	19.33
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.35
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	Potential 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	Potential Curre
# Diadromous Species Downstream (incl eel)	1

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)	Yes
Native Fish Species Richness (HUC8)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	Very Poor
MD MBSS Fish IBI Stream Health	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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