Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_21-019** **NEWVILLE WATER**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	14
Bay-wide Brook Trout Tier	15
NID ID	
State ID	21-019
River Name	Big Spring Creek
Dam Height (ft)	8
Dam Type	Stone
Latitude	40.175
Longitude	-77.3947
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Big Spring Creek-Conodoguinet
HUC 10	Middle Conodoguinet Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	3.72
% Natural Cover in Upstream Drainage Area	20.39
% Forested in Upstream Drainage Area	19.1
% Agriculture in Upstream Drainage Area	64.75
% Natural Cover in ARA of Upstream Network	34.97
% Natural Cover in ARA of Downstream Network	43.38
% Forest Cover in ARA of Upstream Network	26.59
% Forest Cover in ARA of Downstream Network	37.43
% Agricultral Cover in ARA of Upstream Network	37.81
% Agricultral Cover in ARA of Downstream Network	45.66
% Impervious Surf in ARA of Upstream Network	5.97
% Impervious Surf in ARA of Downstream Network	2.15

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	47.71
% Tree Cover in ARA of Downstream Network	48.01
% Herbaceaous Cover in ARA of Upstream Network	37.99
% Herbaceaous Cover in ARA of Downstream Network	46.57
% Barren Cover in ARA of Upstream Network	0.57
% Barren Cover in ARA of Downstream Network	0.44
% Road Impervious in ARA of Upstream Network	3.14
% Road Impervious in ARA of Downstream Network	1.3
% Other Impervious in ARA of Upstream Network	4.9
% Other Impervious in ARA of Downstream Network	2.21

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)	5.42	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	519.74	# Downsteam Natural Barriers	0
Absolute Gain (mi)	5.42	# Downstream Hydropower Dams	5
# Size Classes in Total Network	4	# Downstream Dams with Passage	7
# Upstream Network Size Classes	2	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	20.24
% Conserved Land in 100m Buffer of Downstream Network	5.59
Density of Crossings in Upstream Network Watershed (#/m2)	1.16
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	Potential Current	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	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	N/A
PA IBI Stream Health	Fair

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