Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_VA10932** **South Anna Dam #4**

Bay-wide Diadromous Tier	11
Bay-wide Resident Tier	9
Bay-wide Brook Trout Tier	N/A
NID ID	VA10932
State ID	VA10932
River Name	Bunch Creek
Dam Height (ft)	32
Dam Type	
Latitude	38.0318
Longitude	-78.1914
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Wheeler Creek
HUC 10	Upper South Anna River
HUC 8	Pamunkey
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.3
% Natural Cover in Upstream Drainage Area	81.42
% Forested in Upstream Drainage Area	72.41
% Agriculture in Upstream Drainage Area	15.45
% Natural Cover in ARA of Upstream Network	94.53
% Natural Cover in ARA of Downstream Network	44.58
% Forest Cover in ARA of Upstream Network	63.19
% Forest Cover in ARA of Downstream Network	25.34
% Agricultral Cover in ARA of Upstream Network	4.46
% Agricultral Cover in ARA of Downstream Network	50.54
% Impervious Surf in ARA of Upstream Network	0.08
% Impervious Surf in ARA of Downstream Network	0.14

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	88.98
% Tree Cover in ARA of Downstream Network	33.57
% Herbaceaous Cover in ARA of Upstream Network	6.11
% Herbaceaous Cover in ARA of Downstream Network	58.46
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0.16
% Road Impervious in ARA of Downstream Network	0.31
% Other Impervious in ARA of Upstream Network	0.28
% Other Impervious in ARA of Downstream Network	0

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)	9.96	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	12.14	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.18	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	12.28
% Conserved Land in 100m Buffer of Downstream Network	2.16
Density of Crossings in Upstream Network Watershed (#/m2)	0.45
Density of Crossings in Downstream Network Watershed (#/m2)	0.38
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	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# 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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	56
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# 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	High
PA IBI Stream Health	N/A

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