Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12136** **TUCKAHOE STATE PARK DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	MD00149
State ID	12136
River Name	Tuckahoe Creek
Dam Height (ft)	14
Dam Type	Earth
Latitude	38.9675
Longitude	-75.9426
Passage Facilities	Denil
Passage Year	1993
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Norwich Creek-Tuckahoe Creek
HUC 10	Tuckahoe Creek
HUC 8	Choptank
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.4
% Natural Cover in Upstream Drainage Area	30.73
% Forested in Upstream Drainage Area	11.76
% Agriculture in Upstream Drainage Area	64.82
% Natural Cover in ARA of Upstream Network	32.6
% Natural Cover in ARA of Downstream Network	40.43
% Forest Cover in ARA of Upstream Network	12.44
% Forest Cover in ARA of Downstream Network	11.12
% Agricultral Cover in ARA of Upstream Network	63.08
% Agricultral Cover in ARA of Downstream Network	51.16
% Impervious Surf in ARA of Upstream Network	0.4
% Impervious Surf in ARA of Downstream Network	1.57

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	34.86
% Tree Cover in ARA of Downstream Network	36.41
% Herbaceaous Cover in ARA of Upstream Network	62.5
% Herbaceaous Cover in ARA of Downstream Network	55.1
% Barren Cover in ARA of Upstream Network	0.4
% Barren Cover in ARA of Downstream Network	0.2
% Road Impervious in ARA of Upstream Network	0.7
% Road Impervious in ARA of Downstream Network	0.97
% Other Impervious in ARA of Upstream Network	0.91
% Other Impervious in ARA of Downstream Network	1.88

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12136** **TUCKAHOE STATE PARK DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	225.7	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1567.87	# Downsteam Natural Barriers	0
Absolute Gain (mi)	225.7	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	19.29
Density of Crossings in Upstream Network Watershed (#/m2)	0.64
Density of Crossings in Downstream Network Watershed (#/m2)	0.68
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	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	5

Resident Fish and Rare Species

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)	43
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes

Stream Health

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

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy