Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12147** **CHURCHILL TOWN SECTOR DAM**

Diadromous Tier	20
Brook Trout Tier	N/A
Resident Tier	18
NID ID	MD00088
State ID	12147
River Name	
Dam Height (ft)	44
Dam Type	Earth
Latitude	39.1883
Longitude	-77.2834
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Little Seneca Creek
HUC 10	Seneca Creek
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	35.22
% Natural Cover in Upstream Drainage Area	8.67
% Forested in Upstream Drainage Area	5.31
% Agriculture in Upstream Drainage Area	2.57
% Natural Cover in ARA of Upstream Network	21.87
% Natural Cover in ARA of Downstream Network	59.13
% Forest Cover in ARA of Upstream Network	13.12
% Forest Cover in ARA of Downstream Network	40.56
% Agricultral Cover in ARA of Upstream Network	1.7
% Agricultral Cover in ARA of Downstream Network	17.03
% Impervious Surf in ARA of Upstream Network	28.29
% Impervious Surf in ARA of Downstream Network	6.15

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	50.78
% Tree Cover in ARA of Downstream Network	56.43
% Herbaceaous Cover in ARA of Upstream Network	16.81
% Herbaceaous Cover in ARA of Downstream Network	26.27
% Barren Cover in ARA of Upstream Network	0.08
% Barren Cover in ARA of Downstream Network	0.27
% Road Impervious in ARA of Upstream Network	3.85
% Road Impervious in ARA of Downstream Network	1.67
% Other Impervious in ARA of Upstream Network	19.42
% Other Impervious in ARA of Downstream Network	4.65

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_12147** **CHURCHILL TOWN SECTOR DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	1.43	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	48.62	# Downsteam Natural Barriers	1
Absolute Gain (mi)	1.43	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	2.88
% Conserved Land in 100m Buffer of Downstream Network	40.49
Density of Crossings in Upstream Network Watershed (#/m2)	3.23
Density of Crossings in Downstream Network Watershed (#/m2)	1.49
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	0

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)	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	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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

The Nature Conservancy