Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_35-008** **CHAPMAN LAKE**

Bay-wide Diadromous Tier	15
Bay-wide Resident Tier	9
Bay-wide Brook Trout Tier	14
NID ID	
State ID	35-008
River Name	
Dam Height (ft)	5
Dam Type	Earth
Latitude	41.5479
Longitude	-75.5943
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Upper South Branch Tunkhanno
HUC 10	South Branch Tunkhannock Cree
HUC 8	Upper Susquehanna-Tunkhanno
HUC 6	Upper Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	5.13
% Natural Cover in Upstream Drainage Area	50.22
% Forested in Upstream Drainage Area	18.34
% Agriculture in Upstream Drainage Area	25.45
% Natural Cover in ARA of Upstream Network	82.2
% Natural Cover in ARA of Downstream Network	66.6
% Forest Cover in ARA of Upstream Network	21.29
% Forest Cover in ARA of Downstream Network	39.63
% Agricultral Cover in ARA of Upstream Network	9.37
% Agricultral Cover in ARA of Downstream Network	22.4
% Impervious Surf in ARA of Upstream Network	1.64
% Impervious Surf in ARA of Downstream Network	1.85

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	23.19
% Tree Cover in ARA of Downstream Network	50.56
% Herbaceaous Cover in ARA of Upstream Network	15.91
% Herbaceaous Cover in ARA of Downstream Network	40.36
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.06
% Road Impervious in ARA of Upstream Network	0.4
% Road Impervious in ARA of Downstream Network	1.52
% Other Impervious in ARA of Upstream Network	2.52
% Other Impervious in ARA of Downstream Network	1.7

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: **PA_35-008** **CHAPMAN LAKE**

Network, System Type and Condition

Functional Upstream Network (mi)	0.64	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	69.61	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.64	# Downstream Hydropower Dams	4
# Size Classes in Total Network	3	# Downstream Dams with Passage	5
# Upstream Network Size Classes	1	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	87.34
% Conserved Land in 100m Buffer of Downstream Network	9.13
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.32
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
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	0

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	Yes
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	34
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# 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	No

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	Poor

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

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

The Nature Conservancy