

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_153**

LAKE WHITEHURST DAM

Bay-wide Diadromous Tier	5
Bay-wide Resident Tier	18
Bay-wide Brook Trout Tier	N/A
NID ID	VA71002
State ID	153
River Name	
Dam Height (ft)	26
Dam Type	Gravity
Latitude	36.91
Longitude	-76.1868
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Little Creek-Lower Chesapeake
HUC 10	Lynnhaven River-Lower Chesape
HUC 8	Lynnhaven-Poquoson
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	30.42	% Tree Cover in ARA of Upstream Network	39.44
% Natural Cover in Upstream Drainage Area	18.62	% Tree Cover in ARA of Downstream Network	37.92
% Forested in Upstream Drainage Area	3.74	% Herbaceous Cover in ARA of Upstream Network	21.3
% Agriculture in Upstream Drainage Area	0	% Herbaceous Cover in ARA of Downstream Network	19.7
% Natural Cover in ARA of Upstream Network	25.65	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	28.95	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	5.5	% Road Impervious in ARA of Upstream Network	8.22
% Forest Cover in ARA of Downstream Network	6.2	% Road Impervious in ARA of Downstream Network	8.17
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	16.73
% Agricultural Cover in ARA of Downstream Network	0.07	% Other Impervious in ARA of Downstream Network	18.07
% Impervious Surf in ARA of Upstream Network	23.59		
% Impervious Surf in ARA of Downstream Network	24.62		

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)	6.84	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	31.12	# Downstream Natural Barriers	0
Absolute Gain (mi)	6.84	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index			
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	40.35		
% Conserved Land in 100m Buffer of Downstream Network	11.34		
Density of Crossings in Upstream Network Watershed (#/m2)	1.42		
Density of Crossings in Downstream Network Watershed (#/m2)	0.83		
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

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)	8
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	NO_SCORE
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

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf