

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_406**

LAKE POWELL DAM

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	VA09512
State ID	406
River Name	Mill Creek
Dam Height (ft)	19
Dam Type	Earth
Latitude	37.2312
Longitude	-76.7464
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Lower Chippokes Creek-James R
HUC 10	Powhatan Creek-James River
HUC 8	Lower James
HUC 6	James
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	12.41	% Tree Cover in ARA of Upstream Network	76.71
% Natural Cover in Upstream Drainage Area	47.02	% Tree Cover in ARA of Downstream Network	68.21
% Forested in Upstream Drainage Area	36.96	% Herbaceous Cover in ARA of Upstream Network	3.02
% Agriculture in Upstream Drainage Area	1.27	% Herbaceous Cover in ARA of Downstream Network	12.04
% Natural Cover in ARA of Upstream Network	87.86	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	73.38	% Barren Cover in ARA of Downstream Network	0.08
% Forest Cover in ARA of Upstream Network	34.29	% Road Impervious in ARA of Upstream Network	1.01
% Forest Cover in ARA of Downstream Network	23.89	% Road Impervious in ARA of Downstream Network	2.61
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	2.21
% Agricultural Cover in ARA of Downstream Network	5.37	% Other Impervious in ARA of Downstream Network	3.84
% Impervious Surf in ARA of Upstream Network	0.75		
% Impervious Surf in ARA of Downstream Network	4.25		

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)	0.14	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	95.18	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.14	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	0	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index		Not Scored / Unavailable at this scale	
Dam is on Conserved Land		No	
% Conserved Land in 100m Buffer of Upstream Network		0	
% Conserved Land in 100m Buffer of Downstream Network		22.95	
Density of Crossings in Upstream Network Watershed (#/m2)		4.81	
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	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	Current
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	1
Resident Fish and Rare Species		Stream Health	
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	FAIR
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health	N/A
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health	N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No	MD MBSS Combined IBI Stream Health	N/A
Native Fish Species Richness (HUC8)	62	VA INSTAR mIBI Stream Health	Very High
# Rare Fish (HUC8)	2	PA IBI Stream Health	N/A
# Rare Mussel (HUC8)	1		
# Rare Crayfish (HUC8)	0		
Globally rare or fed listed fish/mussel sp HUC12	Yes	Rare fish or mussel sp in HUC12	Yes
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No	Rare fish or mussel in upstream or downstream functional network	No

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