

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_764**

**COLLEGE LAKE DAM**

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	8
Bay-wide Brook Trout Tier	N/A
NID ID	VA68002
State ID	764
River Name	Blackwater Creek
Dam Height (ft)	35.4
Dam Type	Earth
Latitude	37.402
Longitude	-79.1842
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Blackwater Creek
HUC 10	Harris Creek-James River
HUC 8	Middle James-Buffalo
HUC 6	James
HUC 4	Lower Chesapeake



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	22.65	% Tree Cover in ARA of Upstream Network	71.56
% Natural Cover in Upstream Drainage Area	24.79	% Tree Cover in ARA of Downstream Network	80.12
% Forested in Upstream Drainage Area	23.07	% Herbaceous Cover in ARA of Upstream Network	11.71
% Agriculture in Upstream Drainage Area	7.29	% Herbaceous Cover in ARA of Downstream Network	13.01
% Natural Cover in ARA of Upstream Network	44.32	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	61.89	% Barren Cover in ARA of Downstream Network	0.08
% Forest Cover in ARA of Upstream Network	41.48	% Road Impervious in ARA of Upstream Network	6.57
% Forest Cover in ARA of Downstream Network	60.24	% Road Impervious in ARA of Downstream Network	1.93
% Agricultural Cover in ARA of Upstream Network	7.57	% Other Impervious in ARA of Upstream Network	9.18
% Agricultural Cover in ARA of Downstream Network	17.85	% Other Impervious in ARA of Downstream Network	3.63
% Impervious Surf in ARA of Upstream Network	13.8		
% Impervious Surf in ARA of Downstream Network	4.12		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)

# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_764**

**COLLEGE LAKE DAM**

## Network, System Type and Condition

Functional Upstream Network (mi)	48.52	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	132.76	# Downstream Natural Barriers	0
Absolute Gain (mi)	48.52	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	2	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.48		
% Conserved Land in 100m Buffer of Downstream Network	10.01		
Density of Crossings in Upstream Network Watershed (#/m2)	2.5		
Density of Crossings in Downstream Network Watershed (#/m2)	1.01		
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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	Historical		
# Diadromous Species Downstream (incl eel)	1		

## 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)	50
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

## Stream Health

Chesapeake Bay Program Stream Health	POOR
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	Moderate
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](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)