

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_984**

**BUFFALO RIVER DAM #4A**

Diadromous Tier	8
Brook Trout Tier	N/A
Resident Tier	6
NID ID	VA00924
State ID	984
River Name	Mill Creek
Dam Height (ft)	64
Dam Type	Earth
Latitude	37.6591
Longitude	-79.0786
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Stonewall Creek-Buffero River
HUC 10	Buffalo River
HUC 8	Middle James-Buffero
HUC 6	James
HUC 4	Lower Chesapeake



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.51	% Tree Cover in ARA of Upstream Network	66.3
% Natural Cover in Upstream Drainage Area	54.72	% Tree Cover in ARA of Downstream Network	78.06
% Forested in Upstream Drainage Area	50.75	% Herbaceous Cover in ARA of Upstream Network	22.55
% Agriculture in Upstream Drainage Area	40	% Herbaceous Cover in ARA of Downstream Network	20.46
% Natural Cover in ARA of Upstream Network	67.28	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	68.36	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	57.21	% Road Impervious in ARA of Upstream Network	0.65
% Forest Cover in ARA of Downstream Network	67.89	% Road Impervious in ARA of Downstream Network	0.79
% Agricultural Cover in ARA of Upstream Network	28.62	% Other Impervious in ARA of Upstream Network	0.24
% Agricultural Cover in ARA of Downstream Network	23.78	% Other Impervious in ARA of Downstream Network	0.3
% Impervious Surf in ARA of Upstream Network	0.35		
% Impervious Surf in ARA of Downstream Network	0.66		

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)

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### Network, System Type and Condition

Functional Upstream Network (mi)	27.75	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	221.39	# Downstream Natural Barriers	0
Absolute Gain (mi)	27.75	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	2	# of Downstream Barriers	6
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	4.92		
% Conserved Land in 100m Buffer of Downstream Network	10.99		
Density of Crossings in Upstream Network Watershed (#/m2)	1.21		
Density of Crossings in Downstream Network Watershed (#/m2)	1.31		
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	Yes
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	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	Moderate
PA IBI Stream Health	N/A

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