





## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: <b>VA_1247</b>		<b>BROAD RUN DAM</b>		<b>T. Nelson Elliott Dam</b>	
Bay-wide Diadromous Tier	10	 			
Bay-wide Resident Tier	3				
Bay-wide Brook Trout Tier	N/A				
NID ID	VA15302				
State ID	1247	 			
River Name	Broad Run				
Dam Height (ft)	79				
Dam Type	Gravity				
Latitude	38.7635				
Longitude	-77.6226				
Passage Facilities	None Documented				
Passage Year	N/A				
Size Class	2: Small River (38.61 - 200 sq mi				
HUC 12	Rocky Branch-Broad Run				
HUC 10	Broad Run				
HUC 8	Middle Potomac-Anacostia-Occ				
HUC 6	Potomac				
HUC 4	Potomac				

Landcover					
NLCD (2011)			Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	2.69		% Tree Cover in ARA of Upstream Network	59.8	
% Natural Cover in Upstream Drainage Area	50.62		% Tree Cover in ARA of Downstream Network	58.05	
% Forested in Upstream Drainage Area	43.17		% Herbaceous Cover in ARA of Upstream Network	28.19	
% Agriculture in Upstream Drainage Area	32.85		% Herbaceous Cover in ARA of Downstream Network	36.33	
% Natural Cover in ARA of Upstream Network	59.89		% Barren Cover in ARA of Upstream Network	0.28	
% Natural Cover in ARA of Downstream Network	51.34		% Barren Cover in ARA of Downstream Network	0.27	
% Forest Cover in ARA of Upstream Network	38.39		% Road Impervious in ARA of Upstream Network	1.72	
% Forest Cover in ARA of Downstream Network	29.25		% Road Impervious in ARA of Downstream Network	1.42	
% Agricultural Cover in ARA of Upstream Network	25.57		% Other Impervious in ARA of Upstream Network	1.5	
% Agricultural Cover in ARA of Downstream Network	35.24		% Other Impervious in ARA of Downstream Network	2.58	
% Impervious Surf in ARA of Upstream Network	2.16				
% Impervious Surf in ARA of Downstream Network	2.9				

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\_1247**

**BROAD RUN DAM**

**T. Nelson Elliott Dam**

## Network, System Type and Condition

Functional Upstream Network (mi)	131.74	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	775.97	# Downstream Natural Barriers	0
Absolute Gain (mi)	131.74	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	3
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	21.4		
% Conserved Land in 100m Buffer of Downstream Network	18.86		
Density of Crossings in Upstream Network Watershed (#/m2)	1.35		
Density of Crossings in Downstream Network Watershed (#/m2)	1.35		
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	Historical	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	0		

## 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)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# 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)