





Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_28-004		ROXBURY	Letterkenney Reservoir	
Bay-wide Diadromous Tier	4	 		
Bay-wide Resident Tier	6			
Bay-wide Brook Trout Tier	N/A			
NID ID	PA01550			
State ID	28-004	 		
River Name	Conodoguinet Creek			
Dam Height (ft)	60			
Dam Type	Earth			
Latitude	40.1147			
Longitude	-77.6883			
Passage Facilities	None Documented			
Passage Year	N/A			
Size Class	1b: Creek (3.861 - 38.61 sq mi)			
HUC 12	Trout Run-Conodoguinet Creek			
HUC 10	Upper Conodoguinet Creek			
HUC 8	Lower Susquehanna-Swatara			
HUC 6	Lower Susquehanna			
HUC 4	Susquehanna			

Landcover					
NLCD (2011)			Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	0.11		% Tree Cover in ARA of Upstream Network	88.96	
% Natural Cover in Upstream Drainage Area	93.5		% Tree Cover in ARA of Downstream Network	48.01	
% Forested in Upstream Drainage Area	93.08		% Herbaceous Cover in ARA of Upstream Network	7.79	
% Agriculture in Upstream Drainage Area	2.7		% Herbaceous Cover in ARA of Downstream Network	46.57	
% Natural Cover in ARA of Upstream Network	91.44		% Barren Cover in ARA of Upstream Network	0.16	
% Natural Cover in ARA of Downstream Network	43.38		% Barren Cover in ARA of Downstream Network	0.44	
% Forest Cover in ARA of Upstream Network	89.24		% Road Impervious in ARA of Upstream Network	0.23	
% Forest Cover in ARA of Downstream Network	37.43		% Road Impervious in ARA of Downstream Network	1.3	
% Agricultural Cover in ARA of Upstream Network	3.37		% Other Impervious in ARA of Upstream Network	0.17	
% Agricultural Cover in ARA of Downstream Network	45.66		% Other Impervious in ARA of Downstream Network	2.21	
% Impervious Surf in ARA of Upstream Network	0.16				
% Impervious Surf in ARA of Downstream Network	2.15				

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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ROXBURY

Letterkenney Reservoir

Network, System Type and Condition

Functional Upstream Network (mi)	59.9	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	574.22	# Downstream Natural Barriers	0
Absolute Gain (mi)	59.9	# Downstream Hydropower Dams	5
# Size Classes in Total Network	4	# Downstream Dams with Passage	7
# Upstream Network Size Classes	2	# of Downstream Barriers	7
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	38.36		
% Conserved Land in 100m Buffer of Downstream Network	5.59		
Density of Crossings in Upstream Network Watershed (#/m2)	0.74		
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential 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	Potential Current		
# 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)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	N/A
PA IBI Stream Health	Fair

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