

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_MDE303** **Kemps Mill Dam**

Bay-wide Diadromous Tier 17
 Bay-wide Resident Tier 8
 Bay-wide Brook Trout Tier N/A
 NID ID
 State ID MDE303
 River Name Conococheague Creek
 Dam Height (ft) 0
 Dam Type
 Latitude 0
 Longitude 0
 Passage Facilities None Documented
 Passage Year N/A
 Size Class 3a: Medium Tributary River (200
 HUC 12 Meadow Brook-Conococheague
 HUC 10 Conococheague Creek
 HUC 8 Conococheague-Opequon
 HUC 6 Potomac
 HUC 4 Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.49	% Tree Cover in ARA of Upstream Network	25.36
% Natural Cover in Upstream Drainage Area	37.42	% Tree Cover in ARA of Downstream Network	42.66
% Forested in Upstream Drainage Area	35.82	% Herbaceous Cover in ARA of Upstream Network	60.62
% Agriculture in Upstream Drainage Area	48.75	% Herbaceous Cover in ARA of Downstream Network	28.88
% Natural Cover in ARA of Upstream Network	18.6	% Barren Cover in ARA of Upstream Network	0.53
% Natural Cover in ARA of Downstream Network	56.86	% Barren Cover in ARA of Downstream Network	0.68
% Forest Cover in ARA of Upstream Network	13.82	% Road Impervious in ARA of Upstream Network	2.47
% Forest Cover in ARA of Downstream Network	25.13	% Road Impervious in ARA of Downstream Network	1.45
% Agricultural Cover in ARA of Upstream Network	55.08	% Other Impervious in ARA of Upstream Network	9.29
% Agricultural Cover in ARA of Downstream Network	26.7	% Other Impervious in ARA of Downstream Network	5.08
% Impervious Surf in ARA of Upstream Network	9.4		
% Impervious Surf in ARA of Downstream Network	5.27		

Metric descriptions can be found at:

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: **MD_MDE303** **Kemps Mill Dam**

Network, System Type and Condition

Functional Upstream Network (mi)	432.06	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	474.15	# Downstream Natural Barriers	1
Absolute Gain (mi)	42.1	# Downstream Hydropower Dams	1
# Size Classes in Total Network	5	# Downstream Dams with Passage	1
# Upstream Network Size Classes	4	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	4.21		
% Conserved Land in 100m Buffer of Downstream Network	12.87		
Density of Crossings in Upstream Network Watershed (#/m2)	1.06		
Density of Crossings in Downstream Network Watershed (#/m2)	1.39		
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
Presence of 1 or More Downstream Anadromous Species	None Documented		
# 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)	Yes
Native Fish Species Richness (HUC8)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Fair

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf