Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_157 UPPER BIG BETHEL DAM

Diadromous Tier 15

Brook Trout Tier N/A

Resident Tier 17

NID ID VA19911

State ID 157

River Name Brick Kiln Creek

Dam Height (ft) 27

Dam Type Earth

Latitude 37.0924

Longitude -76.4257

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

HUC 12 Northwest Branch Back River

HUC 10 Back River-Lower Chesapeake B

HUC 8 Lynnhaven-Poquoson

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake









Landcover							
NLCD (2011)		Chesapeake Conservancy (2016)					
% Impervious Surface in Upstream Drainage Area	28.57	% Tree Cover in ARA of Upstream Network	43.03				
% Natural Cover in Upstream Drainage Area	21.91	% Tree Cover in ARA of Downstream Network	48.6				
% Forested in Upstream Drainage Area 9.26		% Herbaceaous Cover in ARA of Upstream Network					
% Agriculture in Upstream Drainage Area	0.01	% Herbaceaous Cover in ARA of Downstream Network	12.06				
% Natural Cover in ARA of Upstream Network	23.78	% Barren Cover in ARA of Upstream Network	0.73				
% Natural Cover in ARA of Downstream Network	62.04	% Barren Cover in ARA of Downstream Network	0.04				
% Forest Cover in ARA of Upstream Network	9.17	% Road Impervious in ARA of Upstream Network	10.21				
% Forest Cover in ARA of Downstream Network	5.63	% Road Impervious in ARA of Downstream Network	7.01				
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	19.56				
% Agricultral Cover in ARA of Downstream Network	k 0	% Other Impervious in ARA of Downstream Network	8.2				
% Impervious Surf in ARA of Upstream Network	28.57						
% Impervious Surf in ARA of Downstream Network	13.15						



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	Network, Syster	m Type a	and Condition		
Functional Upstream Network	(mi) 15.53		Upstream Size Class Gain (#)	0
Total Functional Network (mi)	al Functional Network (mi) 17.08		# Downsteam Natural Barriers		0
Absolute Gain (mi)	1.55		# Downstream Hydropowe	r Dams	0
# Size Classes in Total Networ	k 2		# Downstream Dams with	Passage	0
# Upstream Network Size Clas	sses 2		# of Downstream Barriers		1
NFHAP Cumulative Disturband	ce Index		Very High		
Dam is on Conserved Land			No		
% Conserved Land in 100m Buffer of Upstream Network			1.47		
% Conserved Land in 100m Buffer of Downstream Network			0		
Density of Crossings in Upstream Network Watershed (#/m2			2.69		
Density of Crossings in Downs	tream Network Watershed	(#/m2)	2.63		
Density of off-channel dams in	n Upstream Network Waters	shed (#/	(m2) 0		
Density of off-channel dams in	n Downstream Network Wa	tershed	(#/m2) 0		
December of Alexander		Iromous		N D	
Downstream Alewife	Historical		nstream Striped Bass		
Downstream Blueback	Historical	Dowr	nstream Atlantic Sturgeon	None Doo	umented
Downstream American Shad	None Documented	Dowr	nstream Shortnose Sturgeon	None Doo	cumented
Downstream Hickory Shad	None Documented	Dowr	Downstream American Eel None Documented		
Presence of 1 or More Downs	stream Anadromous Species	s Histo	rical		
# Diadromous Species Downs	tream (incl eel)	0			
	. =		- Clare		
Resident Fish				am Health	NO CCORE
Barrier is in EBTJV BKT Catchment No			Chesapeake Bay Program Stream Health NO_SCOF		_
Barrier is in Modeled BKT Catchment (DeWeber) No					N/A
Barrier Blocks an EBTJV Catchment No			MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) No					N/A
Native Fish Species Richness (HUC8) 25			VA INSTAR mIBI Stream Health		High
# Rare Fish (HUC8) 1			PA IBI Stream Health		N/A
# Rare Mussel (HUC8) 0					
# Rare Crayfish (HUC8)	0				

