## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_157 UPPER BIG BETHEL DAM

N/A

Bay-wide Diadromous Tier 15
Bay-wide Resident Tier 17

NID ID VA19911

Bay-wide Brook Trout Tier

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	20.83					
% 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	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, Sy	ystem	Туре	and Condition			
Functional Upstream Network (mi) 15.53			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 17.08			# Downsteam Natural Barriers		ers	0	
Absolute Gain (mi) 1.55			# Downstream Hydropower Dams		0		
# Size Classes in Total Networ	k 2			# Downstream Dams with F	Passage	0	
# Upstream Network Size Classes 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 Netwo				1.47			
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork		0			
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)	2.69			
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	2.63			
Density of off-channel dams in	າ Upstream Network Wa	atersh	ned (#,	/m2) 0			
Density of off-channel dams in	n Downstream Network	Wate	ershed	(#/m2) 0			
		Diadro	omous	Fish			
Downstream Alewife	Historical	Historical		Downstream Striped Bass N		None Documented	
Downstream Blueback	Historical	Historical		Downstream Atlantic Sturgeon		None Documented	
Downstream American Shad	None Documented		Dow	nstream Shortnose Sturgeon	None Doo	cumented	
Downstream Hickory Shad	None Documented		Dow	nstream American Eel	None Doo	cumented	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Histo	orical			
# Diadromous Species Downs	tream (incl eel)		0				
Reside	ent Fish			Strea	m Health		
		No		Chesapeake Bay Program Stream Health NO_SCO		NO SCORE	
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)				MD MBSS Combined IBI Stream Health		N/A	
		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					
		J					

