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

CFPPP Unique ID: VA\_152 LOWER BIG BETHEL DAM

Bay-wide Diadromous Tier 4
Bay-wide Resident Tier 15
Bay-wide Brook Trout Tier N/A

NID ID VA19902

State ID 152

River Name Brick Kiln Creek

Dam Height (ft) 23

Dam Type Gravity
Latitude 37.0936
Longitude -76.4149

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 27.45		% Tree Cover in ARA of Upstream Network			
% Natural Cover in Upstream Drainage Area	24.76	% Tree Cover in ARA of Downstream Network	46.7		
% Forested in Upstream Drainage Area	9.1	% Herbaceaous Cover in ARA of Upstream Network			
% Agriculture in Upstream Drainage Area	0.01	% Herbaceaous Cover in ARA of Downstream Network 2			
% Natural Cover in ARA of Upstream Network	62.04	% Barren Cover in ARA of Upstream Network	0.04		
% Natural Cover in ARA of Downstream Network	31.07	% Barren Cover in ARA of Downstream Network	0.73		
% Forest Cover in ARA of Upstream Network	5.63	% Road Impervious in ARA of Upstream Network	7.01		
% Forest Cover in ARA of Downstream Network	4.04	% Road Impervious in ARA of Downstream Network	9.1		
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	8.2		
% Agricultral Cover in ARA of Downstream Network	0.3	% Other Impervious in ARA of Downstream Network	17.38		
% Impervious Surf in ARA of Upstream Network	13.15				
% Impervious Surf in ARA of Downstream Network	23.38				



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Network, System Type and Condition						
Functional Upstream Network (mi) 1.55		Upstream Size Class Gain (#)	0			
Total Functional Network (mi) 160.47		# Downsteam Natural Barriers	0			
Absolute Gain (mi) 1.55		# Downstream Hydropower Dar	ms 0			
# Size Classes in Total Network 3		# Downstream Dams with Passa	ge 0			
# Upstream Network Size Classes 2		# of Downstream Barriers	0			
NFHAP Cumulative Disturbance Index		Not Scored / Unavailab	le at this scale			
Dam is on Conserved Land		No				
% Conserved Land in 100m Buffer of Upstream	Network	0				
% Conserved Land in 100m Buffer of Downstrea	ım Network	13.26				
Density of Crossings in Upstream Network Wat						
Density of Crossings in Downstream Network Watershed (#/m2) 0.98						
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 Current	rent Downstream Striped Bass		None Documented			
Downstream Blueback Current	D	ownstream Atlantic Sturgeon	None Documented			
Downstream American Shad None Docu	mented D	ownstream Shortnose Sturgeon	None Documented			
Downstream Hickory Shad None Docu	mented D	ownstream American Eel	Current			
One or More DS Anadromous Species Current	#	Diadromous Sp Dnstrm (incl eel)	3			
Resident Fish and Rare Speci	es	Stream Healt	h			
Barrier is in EBTJV BKT Catchment		Chesapeake Bay Program Stream Health NO_SCO				
Barrier is in Modeled BKT Catchment (DeWeber)		MD MBSS Benthic IBI Stream Health N				
Barrier Blocks an EBTJV Catchment		MD MBSS Fish IBI Stream Health N/A				
Barrier Blocks a Modeled BKT Catchment (DeWeber)		MD MBSS Combined IBI Stream Health N/				
Native Fish Species Richness (HUC8)		VA INSTAR mIBI Stream Health H				
# Rare Fish (HUC8)	1	PA IBI Stream Health	N/A			
# Rare Mussel (HUC8)	0					
# Rare Crayfish (HUC8)	0					
Globally rare or fed listed fish/mussel sp HUC1	2 No	Rare fish or mussel sp in HUC12	No			
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network		Rare fish or mussel in upstream o downstream functional network	r No			

