Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID:	VA_723	_	OBRIEN DAM			
Bay-wide Diadron	nous Tier	5				
Bay-wide Resident Tier		2				
Bay-wide Brook Ti	rout Tier	N/A				
NID ID						
State ID	723					
River Name						
Dam Height (ft)	20					
Dam Type	Earth					
Latitude	37.7141					
Longitude	-78.2903					
Passage Facilities	None Doc	ument	ed			
Passage Year	N/A					
Size Class	1a: Headwater (0 - 3.861 sq mi)					
HUC 12	Bear Garden Creek-James River					
HUC 10	Bear Gard	len Cre	ek-James River			
HUC 8	Middle Ja	mes-Bເ	ıffalo			
HUC 6	James					

Lower Chesapeake







Landcover									
NLCD (2011)		Chesapeake Conservancy (2016)							
% Impervious Surface in Upstream Drainage Area	0.17	% Tree Cover in ARA of Upstream Network	98.73						
% Natural Cover in Upstream Drainage Area	93.43	% Tree Cover in ARA of Downstream Network	79.1						
% Forested in Upstream Drainage Area 89		% Herbaceaous Cover in ARA of Upstream Network	0.91						
% Agriculture in Upstream Drainage Area 4.14		% Herbaceaous Cover in ARA of Downstream Network							
% Natural Cover in ARA of Upstream Network	97.06	% Barren Cover in ARA of Upstream Network	0						
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1						
% Forest Cover in ARA of Upstream Network	89.87	% Road Impervious in ARA of Upstream Network	0						
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6						
% Agricultral Cover in ARA of Upstream Network	2.94	% Other Impervious in ARA of Upstream Network	0.36						
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78						
% Impervious Surf in ARA of Upstream Network	0								
% Impervious Surf in ARA of Downstream Network	0.71								

HUC 4

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	Network, Sy	stem	Туре а	and Condition			
Functional Upstream Network	(mi) 2.41		Upstream Size Class Gain (#)		‡)	0	
Total Functional Network (mi) 5433.43			# Downsteam Natural Barriers		ers	0	
Absolute Gain (mi)	2.41		# Downstream Hydropower Dams		r Dams	2	
# Size Classes in Total Network	Size Classes in Total Network 6			# Downstream Dams with Passage		4	
# Upstream Network Size Classes 1			# of Downstream Barriers			4	
NFHAP Cumulative Disturbance	e Index			Very High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Bu	ffer of Upstream Netwo	rk		0			
% Conserved Land in 100m Bu	ffer of Downstream Net	work	<	11.23			
Density of Crossings in Upstream	am Network Watershed	(#/m	12)	0.84			
Density of Crossings in Downs	tream Network Watersh	ed (#	‡/m2)	0.84			
Density of off-channel dams in	Upstream Network Wa	tersh	ned (#/ı	m2) 0			
Density of off-channel dams in	Downstream Network	Wate	ershed ((#/m2) 0			
	D	iadro	omous	Fish			
Downstream Alewife	Potential Current		Down	Downstream Striped Bass Nor		one Documented	
Downstream Blueback Potential Current		Down	Downstream Atlantic Sturgeon None Doc				
Downstream American Shad	None Documented		Down	stream Shortnose Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Down	stream American Eel	Current		
Presence of 1 or More Downs	tream Anadromous Spe	cies	Poten	tial Curre			
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish			Stream Health				
Barrier is in EBTJV BKT Catchment No		No		Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No		No		MD MBSS Benthic IBI Stream Health N/A		N/A	
Barrier Blocks an EBTJV Catchment Yes		Yes		MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No			MD MBSS Combined IBI Stream Health		N/A		
Native Fish Species Richness (HUC8) 50			VA INSTAR mIBI Stream Health		Very High		
# Rare Fish (HUC8) 0		0		PA IBI Stream Health		N/A	
# Rare Mussel (HUC8) 4		4					
# Rare Crayfish (HUC8) 0		0					

