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

CFPPP Unique ID: VA\_1058 SWANS DAM

Bay-wide Diadromous Tier 2
Bay-wide Resident Tier 1

Bay-wide Brook Trout Tier N/A

NID ID VA04912

State ID 1058

River Name Big Guinea Creek

Dam Height (ft) 23

Dam Type Earth

Latitude 37.4243

Longitude -78.2446

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Big Guinea Creek

HUC 10 Big Guinea Creek-Appomattox Ri

HUC 8 Appomattox

HUC 6 James

HUC 4 Lower Chesapeake







Landcover							
NLCD (2011)		Chesapeake Conservancy (2016)					
% Impervious Surface in Upstream Drainage Area	0.28	% Tree Cover in ARA of Upstream Network	87.05				
% Natural Cover in Upstream Drainage Area	76.62	% Tree Cover in ARA of Downstream Network	86.58				
% Forested in Upstream Drainage Area	58.41	% Herbaceaous Cover in ARA of Upstream Network	9.07				
% Agriculture in Upstream Drainage Area	20.28	% Herbaceaous Cover in ARA of Downstream Network	9.87				
% Natural Cover in ARA of Upstream Network	89.21	% Barren Cover in ARA of Upstream Network	0				
% Natural Cover in ARA of Downstream Network	88.39	% Barren Cover in ARA of Downstream Network	0.08				
% Forest Cover in ARA of Upstream Network	61.27	% Road Impervious in ARA of Upstream Network	0.24				
% Forest Cover in ARA of Downstream Network	61	% Road Impervious in ARA of Downstream Network	0.36				
% Agricultral Cover in ARA of Upstream Network	9.71	% Other Impervious in ARA of Upstream Network	0.17				
% Agricultral Cover in ARA of Downstream Network	9.87	% Other Impervious in ARA of Downstream Network	0.38				
% Impervious Surf in ARA of Upstream Network	0.09						
% Impervious Surf in ARA of Downstream Network	0.27						



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

CFPPP Unique ID: VA\_1058 SWANS DAM

CITTI Ollique ID. VA_1036	SVANS DAIVI				
	Network, Sys	stem Typ	e and Condition		
Functional Upstream Network	(mi) 71.53		Upstream Size Class Gain (#)		0
Total Functional Network (mi)	3028.21	# Downsteam Natural Barriers		ers	0
Absolute Gain (mi)	71.53		# Downstream Hydropower Dams		3
# Size Classes in Total Networ	k 5		# Downstream Dams with Passage		3
# Upstream Network Size Clas	ses 2		# of Downstream Barriers		3
NFHAP Cumulative Disturband	ce Index		Low		
Dam is on Conserved Land			Yes		
% Conserved Land in 100m Buffer of Upstream Network		rk	3.65		
% Conserved Land in 100m Bu	ffer of Downstream Netv	work	5.91		
Density of Crossings in Upstre	am Network Watershed	(#/m2)	0.56		
Density of Crossings in Downs	tream Network Watersh	ed (#/m2	2) 0.5		
Density of off-channel dams in	n Upstream Network Wat	tershed (	(#/m2) 0		
Density of off-channel dams in	n Downstream Network V	<i>N</i> atersh	ed (#/m2) 0		
	Di	iadromo	us Fish		
Downstream Alewife	Current	Do	wnstream Striped Bass	None Documented	
Downstream Blueback	Historical	Do	wnstream Atlantic Sturgeon None D		cumented
Downstream American Shad	None Documented	Do	wnstream Shortnose Sturgeon	None Doo	cumented
Downstream Hickory Shad	None Documented	Do	wnstream American Eel	Current	
Presence of 1 or More Downs	tream Anadromous Spec	cies Cu	rrent		
# Diadromous Species Downs	tream (incl eel)	2			
Resident Fish			Stream Health		
Barrier is in EBTJV BKT Catchment		No	Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic IBI Stream Health N/A		N/A
Barrier Blocks an EBTJV Catchment		No	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) N		No	MD MBSS Combined IBI Stream Health N		N/A
Native Fish Species Richness (HUC8) 5		58	VA INSTAR mIBI Stream Health		Moderate
# Rare Fish (HUC8)		1	PA IBI Stream Health		N/A
# Rare Mussel (HUC8)		3			
# Rare Crayfish (HUC8) 0		0			

