Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_893** **ALLMANS DAM**

Diadromous Tier		13
Brook Trout Tier	N/A	
Resident Tier		16
NID ID	VA00324	
State ID	893	
River Name		
Dam Height (ft)	20	
Dam Type	Earth	
Latitude	37.7948	
Longitude	-78.5575	
Passage Facilities	None Documented	
Passage Year	N/A	
Size Class	1a: Headwater (0 - 3.861 sq mi)	
HUC 12	Totier Creek	
HUC 10	Ballinger Creek-James River	
HUC 8	Middle James-Buffalo	
HUC 6	James	
HUC 4	Lower Chesapeake	

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.19
% Natural Cover in Upstream Drainage Area	15.47
% Forested in Upstream Drainage Area	12.6
% Agriculture in Upstream Drainage Area	80
% Natural Cover in ARA of Upstream Network	29.03
% Natural Cover in ARA of Downstream Network	60.75
% Forest Cover in ARA of Upstream Network	7.1
% Forest Cover in ARA of Downstream Network	56.3
% Agricultral Cover in ARA of Upstream Network	65.81
% Agricultral Cover in ARA of Downstream Network	34.83
% Impervious Surf in ARA of Upstream Network	0.14
% Impervious Surf in ARA of Downstream Network	0.33

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	23.15
% Tree Cover in ARA of Downstream Network	69.83
% Herbaceaous Cover in ARA of Upstream Network	62.5
% Herbaceaous Cover in ARA of Downstream Network	27.86
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0.96
% Road Impervious in ARA of Downstream Network	0.44
% Other Impervious in ARA of Upstream Network	0.1
% Other Impervious in ARA of Downstream Network	0.41

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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Network, System Type and Condition

Functional Upstream Network (mi)	0.86	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	65.4	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.86	# Downstream Hydropower Dams	2
# Size Classes in Total Network	2	# Downstream Dams with Passage	4
# Upstream Network Size Classes	1	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	21.44
Density of Crossings in Upstream Network Watershed (#/m2)	2.67
Density of Crossings in Downstream Network Watershed (#/m2)	0.78
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	0

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	50
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A

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