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

CFPPP Unique ID: MD\_12247 GUNNERS LAKE

Bay-wide Diadromous Tier 13
Bay-wide Resident Tier 10
Bay-wide Brook Trout Tier N/A

NID ID MD00279
State ID 12247

River Name Gunners Branch

Dam Height (ft) 28

Dam Type Earth
Latitude 39.1618

Longitude -77.257

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Great Seneca Creek

HUC 10 Seneca Creek

HUC 8 Middle Potomac-Catoctin

HUC 6 Potomac HUC 4 Potomac







Landcover				
NLCD (2011)		Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	26.24	% Tree Cover in ARA of Upstream Network	54.25	
% Natural Cover in Upstream Drainage Area	22.34	% Tree Cover in ARA of Downstream Network	50.17	
% Forested in Upstream Drainage Area	17.05	% Herbaceaous Cover in ARA of Upstream Network	21.91	
% Agriculture in Upstream Drainage Area	5.31	% Herbaceaous Cover in ARA of Downstream Network	39.72	
% Natural Cover in ARA of Upstream Network	29.21	% Barren Cover in ARA of Upstream Network	0.07	
% Natural Cover in ARA of Downstream Network	43.71	% Barren Cover in ARA of Downstream Network	0.35	
% Forest Cover in ARA of Upstream Network	18.57	% Road Impervious in ARA of Upstream Network	5.09	
% Forest Cover in ARA of Downstream Network	30.17	% Road Impervious in ARA of Downstream Network	1.96	
% Agricultral Cover in ARA of Upstream Network	2.8	% Other Impervious in ARA of Upstream Network	14.07	
% Agricultral Cover in ARA of Downstream Network	38.99	% Other Impervious in ARA of Downstream Network	3.66	
% Impervious Surf in ARA of Upstream Network	20.8			
% Impervious Surf in ARA of Downstream Network	3.98			



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Functional Upstream Network (mi) 4.92 Upstream Size Class Gain (#)  Total Functional Network (mi) 4.92	
Total Functional Network (mi)  2917.33  # Downsteam Natural Barriers Absolute Gain (mi)  4.92  # Downstream Hydropower Dams # Size Classes in Total Network 7  # Downstream Dams with Passage # Upstream Network Size Classes 1  # of Downstream Barriers  NFHAP Cumulative Disturbance Index Very High  Dam is on Conserved Land No % Conserved Land in 100m Buffer of Upstream Network 16.47 % Conserved Land in 100m Buffer of Downstream Network 19.33  Density of Crossings in Upstream Network Watershed (#/m2) Density of Crossings in Downstream Network Watershed (#/m2) Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2)  Downstream Alewife Historical Downstream Striped Bass None Doc Downstream Allewife Potential Current Downstream Alantic Sturgeon Downstream American Shad None Documented Downstream American Shad None Documented Downstream American Eel Current Presence of 1 or More Downstream Anadromous Species # Diadromous Species Downstream (incl eel)  1  Resident Fish Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) Yes MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8)  71  VA INSTAR mIBI Stream Health Native Fish Species Richness (HUC8)  72  PA IBI Stream Health Native Fish Species Richness (HUC8)  73  74  75  76  76  76  76  76  76  76  76  76	
Absolute Gain (mi)  4.92  # Downstream Hydropower Dams # Size Classes in Total Network  7 # Downstream Dams with Passage # Upstream Network Size Classes 1 # of Downstream Barriers  No  Wery High  No  % Conserved Land in 100m Buffer of Upstream Network  16.47 % Conserved Land in 100m Buffer of Downstream Network  19.33  Density of Crossings in Upstream Network Watershed (#/m2)  Density of Crossings in Downstream Network Watershed (#/m2)  Density of off-channel dams in Upstream Network Watershed (#/m2)  Diadromous Fish  Downstream Alewife  Downstream Alewife  Downstream Blueback  Potential Current  Downstream Atlantic Sturgeon  None Doc  Downstream American Shad  None Documented  Downstream American Shad  None Documented  Downstream American Eel  Current  Presence of 1 or More Downstream (incl eel)  Resident Fish  Barrier is in EBTJV BKT Catchment  No  Chesapeake Bay Program Stream Health  Barrier is in Modeled BKT Catchment (DeWeber)  No  MD MBSS Benthic IBI Stream Health  Barrier Blocks an EBTJV Catchment  Yes  MD MBSS Fish IBI Stream Health  Native Fish Species Richness (HUC8)  51  VA INSTAR mIBI Stream Health  Native Fish Species Richness (HUC8)  0  PA IBI Stream Health	0
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# Rare Fish (HUC8) 0 PA IBI Stream Health	Fair
	N/A
	N/A
# Rare Crayfish (HUC8) 0	

