

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_12247**      **GUNNERS LAKE**

|                    |                                 |
|--------------------|---------------------------------|
| Diadromous Tier    | 13                              |
| Brook Trout Tier   | N/A                             |
| Resident Tier      | 10                              |
| 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 | % Herbaceous Cover in ARA of Upstream Network   | 21.91 |
| % Agriculture in Upstream Drainage Area           | 5.31  | % Herbaceous 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  |
| % Agricultural Cover in ARA of Upstream Network   | 2.8   | % Other Impervious in ARA of Upstream Network   | 14.07 |
| % Agricultural 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  |   |       |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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)                                   | 4.92      | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 2917.33   | # Downstream Natural Barriers  | 1 |
| Absolute Gain (mi)   | 4.92      | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 7         | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes                                    | 1         | # of Downstream Barriers       | 2 |
| 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)          | 3.2       |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.35      |                                |   |
| 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                                 | Potential Current | Downstream Atlantic Sturgeon  | None Documented |
| Downstream American Shad                            | None Documented   | Downstream Shortnose Sturgeon | None Documented |
| Downstream Hickory Shad                             | None Documented   | Downstream American Eel       | Current         |
| Presence of 1 or More Downstream Anadromous Species | Potential Curre   |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 1                 |                               |                 |

## Resident Fish

|  |     |
|--|-----|
| Barrier is in EBTJV BKT Catchment                | No  |
| Barrier is in Modeled BKT Catchment (DeWeber)    | No  |
| Barrier Blocks an EBTJV Catchment                | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | Yes |
| Native Fish Species Richness (HUC8)              | 51  |
| # Rare Fish (HUC8)                               | 0   |
| # Rare Mussel (HUC8)                             | 4   |
| # Rare Crayfish (HUC8)                           | 0   |

## Stream Health

|                                      |           |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | VERY_POOR |
| MD MBSS Benthic IBI Stream Health    | Poor      |
| MD MBSS Fish IBI Stream Health       | Fair      |
| MD MBSS Combined IBI Stream Health   | Fair      |
| VA INSTAR mIBI Stream Health         | N/A       |
| PA IBI Stream Health                 | N/A       |

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