

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_BA035**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 6                               |
| Bay-wide Resident Tier    | 14                              |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    |                                 |
| State ID                  | BA035                           |
| River Name                | Stemmers Run                    |
| Dam Height (ft)           | 2                               |
| Dam Type                  | Unspecified Type                |
| Latitude                  | 39.368                          |
| Longitude                 | -76.5168                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Back River-Hawk Cove-Chesapeake |
| HUC 10                    | Back River-Chesapeake Bay       |
| HUC 8                     | Gunpowder-Patapsco              |
| HUC 6                     | Upper Chesapeake                |
| HUC 4                     | Upper Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 25.9  | % Tree Cover in ARA of Upstream Network         | 81.43 |
| % Natural Cover in Upstream Drainage Area         | 15.04 | % Tree Cover in ARA of Downstream Network       | 33.38 |
| % Forested in Upstream Drainage Area              | 14.92 | % Herbaceous Cover in ARA of Upstream Network   | 6.97  |
| % Agriculture in Upstream Drainage Area           | 0     | % Herbaceous Cover in ARA of Downstream Network | 21.38 |
| % Natural Cover in ARA of Upstream Network        | 71.22 | % Barren Cover in ARA of Upstream Network       | 0.19  |
| % Natural Cover in ARA of Downstream Network      | 51.65 | % Barren Cover in ARA of Downstream Network     | 0.46  |
| % Forest Cover in ARA of Upstream Network         | 71.22 | % Road Impervious in ARA of Upstream Network    | 0.27  |
| % Forest Cover in ARA of Downstream Network       | 12.36 | % Road Impervious in ARA of Downstream Network  | 4.15  |
| % Agricultural Cover in ARA of Upstream Network   | 0     | % Other Impervious in ARA of Upstream Network   | 11.13 |
| % Agricultural Cover in ARA of Downstream Network | 1.32  | % Other Impervious in ARA of Downstream Network | 12.57 |
| % Impervious Surf in ARA of Upstream Network      | 6.68  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 14.78 |   |       |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)

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### Network, System Type and Condition

|  |           |                                |   |
|--|-----------|--------------------------------|---|
| Functional Upstream Network (mi)                                   | 1.2       | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 63.57     | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 1.2       | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 3         | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 1         | # of Downstream Barriers       | 0 |
| NFHAP Cumulative Disturbance Index                                 | Very High |                                |   |
| Dam is on Conserved Land   | No        |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 51.18     |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 11.81     |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0.45      |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.65      |                                |   |
| 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                                  | Current         | Downstream Striped Bass       | None Documented |
| Downstream Blueback                                 | 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 | Current         |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 3               |                               |                 |

### 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)              | 52 |
| # Rare Fish (HUC8)                               | 1  |
| # Rare Mussel (HUC8)                             | 0  |
| # Rare Crayfish (HUC8)                           | 0  |

### Stream Health

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

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