

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_315**

**MILLS CREEK SCS 10A**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 17                              |
| Bay-wide Resident Tier    | 10                              |
| Bay-wide Brook Trout Tier | 4                               |
| NID ID                    | VA01504                         |
| State ID                  | 315                             |
| River Name                | South Fork Back Creek           |
| Dam Height (ft)           | 97.5                            |
| Dam Type                  | Earth                           |
| Latitude                  | 37.9066                         |
| Longitude                 | -79.0013                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Inch Branch-Back Creek          |
| HUC 10                    | South River                     |
| HUC 8                     | South Fork Shenandoah           |
| HUC 6                     | Potomac                         |
| HUC 4                     | Potomac                         |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.17  | % Tree Cover in ARA of Upstream Network         | 98.86 |
| % Natural Cover in Upstream Drainage Area         | 93.59 | % Tree Cover in ARA of Downstream Network       | 46.52 |
| % Forested in Upstream Drainage Area              | 93.27 | % Herbaceous Cover in ARA of Upstream Network   | 0.03  |
| % Agriculture in Upstream Drainage Area           | 0     | % Herbaceous Cover in ARA of Downstream Network | 44.63 |
| % Natural Cover in ARA of Upstream Network        | 89.14 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 40.71 | % Barren Cover in ARA of Downstream Network     | 0.19  |
| % Forest Cover in ARA of Upstream Network         | 87.57 | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 38.31 | % Road Impervious in ARA of Downstream Network  | 2.26  |
| % Agricultural Cover in ARA of Upstream Network   | 0     | % Other Impervious in ARA of Upstream Network   | 0.01  |
| % Agricultural Cover in ARA of Downstream Network | 42.34 | % Other Impervious in ARA of Downstream Network | 4.74  |
| % Impervious Surf in ARA of Upstream Network      | 0.14  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 4.76  |   |       |

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)                                   | 1.55                                   | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 1390.77                                | # Downstream Natural Barriers  | 2 |
| Absolute Gain (mi)   | 1.55                                   | # Downstream Hydropower Dams   | 4 |
| # Size Classes in Total Network                                    | 5                                      | # Downstream Dams with Passage | 3 |
| # Upstream Network Size Classes                                    | 1                                      | # of Downstream Barriers       | 8 |
| NFHAP Cumulative Disturbance Index                                 | Not Scored / Unavailable at this scale |                                |   |
| Dam is on Conserved Land   | No                                     |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 17.73                                  |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 20.2                                   |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0.33                                   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.71                                   |                                |   |
| 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                                  | None Documented | Downstream Striped Bass       | None Documented |
| Downstream Blueback                                 | None Documented | 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 | None Documented |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 0               |                               |                 |

## Resident Fish

|  |     |
|--|-----|
| Barrier is in EBTJV BKT Catchment                | Yes |
| Barrier is in Modeled BKT Catchment (DeWeber)    | No  |
| Barrier Blocks an EBTJV Catchment                | No  |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | Yes |
| Native Fish Species Richness (HUC8)              | 35  |
| # Rare Fish (HUC8)                               | 0   |
| # Rare Mussel (HUC8)                             | 0   |
| # 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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