

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_PO019**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 12                              |
| Bay-wide Resident Tier    | 7                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    |                                 |
| State ID                  | PO019                           |
| River Name                | North Branch Rock Creek         |
| Dam Height (ft)           | 1                               |
| Dam Type                  | Unspecified Type                |
| Latitude                  | 39.1034                         |
| Longitude                 | -77.1182                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12                    | Upper Rock Creek                |
| HUC 10                    | Rock Creek-Potomac River        |
| HUC 8                     | Middle Potomac-Anacostia-Occ    |
| HUC 6                     | Potomac                         |
| HUC 4                     | Potomac                         |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 7.71  | % Tree Cover in ARA of Upstream Network         | 73.84 |
| % Natural Cover in Upstream Drainage Area         | 37.88 | % Tree Cover in ARA of Downstream Network       | 75.06 |
| % Forested in Upstream Drainage Area              | 32.17 | % Herbaceous Cover in ARA of Upstream Network   | 17.84 |
| % Agriculture in Upstream Drainage Area           | 10.88 | % Herbaceous Cover in ARA of Downstream Network | 12.67 |
| % Natural Cover in ARA of Upstream Network        | 69    | % Barren Cover in ARA of Upstream Network       | 0.14  |
| % Natural Cover in ARA of Downstream Network      | 51.25 | % Barren Cover in ARA of Downstream Network     | 0.15  |
| % Forest Cover in ARA of Upstream Network         | 52.17 | % Road Impervious in ARA of Upstream Network    | 1.52  |
| % Forest Cover in ARA of Downstream Network       | 44.85 | % Road Impervious in ARA of Downstream Network  | 3.88  |
| % Agricultural Cover in ARA of Upstream Network   | 4.94  | % Other Impervious in ARA of Upstream Network   | 2.94  |
| % Agricultural Cover in ARA of Downstream Network | 1.06  | % Other Impervious in ARA of Downstream Network | 7.86  |
| % Impervious Surf in ARA of Upstream Network      | 3.08  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 11.09 |   |       |

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)                                   | 24.61                                  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 90.24                                  | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 24.61                                  | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 3                                      | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 2                                      | # of Downstream Barriers       | 1 |
| NFHAP Cumulative Disturbance Index                                 | Not Scored / Unavailable at this scale |                                |   |
| Dam is on Conserved Land   | Yes                                    |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 58.38                                  |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 51.46                                  |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.1                                    |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 2.23                                   |                                |   |
| 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           | Current         |
| One or More DS Anadromous Species | Historical      | # Diadromous Sp Dnstrm (incl eel) | 1               |

## Resident Fish and Rare Species

|   |    |
|---|----|
| 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)   | 62 |
| # Rare Fish (HUC8)  | 1  |
| # Rare Mussel (HUC8)  | 5  |
| # Rare Crayfish (HUC8)  | 0  |
| Globally rare or fed listed fish/mussel sp HUC12  | No |
| Globally rare or fed listed fish/mussel sp in upstream or downstream functional network | No |

## Stream Health

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

|  |    |
|--|----|
| Rare fish or mussel sp in HUC12                                  | No |
| Rare fish or mussel in upstream or downstream functional network | No |

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)