

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_VA07517**      **Volchers Dam**

|                    |                                 |
|--------------------|---------------------------------|
| Diadromous Tier    | 15                              |
| Brook Trout Tier   | N/A                             |
| Resident Tier      | 17                              |
| NID ID             | VA07517                         |
| State ID           | 7517                            |
| River Name         |                                 |
| Dam Height (ft)    | 24                              |
| Dam Type           | Earth                           |
| Latitude           | 37.6721                         |
| Longitude          | -78.0606                        |
| Passage Facilities | None Documented                 |
| Passage Year       | N/A                             |
| Size Class         | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12             | Picketts Creek-James River      |
| HUC 10             | Deep Creek-James River          |
| HUC 8              | Middle James-Willis             |
| HUC 6              | James                           |
| HUC 4              | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0     | % Tree Cover in ARA of Upstream Network         | 0     |
| % Natural Cover in Upstream Drainage Area         | 11.55 | % Tree Cover in ARA of Downstream Network       | 89.37 |
| % Forested in Upstream Drainage Area              | 5.98  | % Herbaceous Cover in ARA of Upstream Network   | 0     |
| % Agriculture in Upstream Drainage Area           | 88.45 | % Herbaceous Cover in ARA of Downstream Network | 3.15  |
| % Natural Cover in ARA of Upstream Network        | 0     | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 95.82 | % Barren Cover in ARA of Downstream Network     | 0     |
| % Forest Cover in ARA of Upstream Network         | 0     | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 77.93 | % Road Impervious in ARA of Downstream Network  | 0.26  |
| % Agricultural Cover in ARA of Upstream Network   | 0     | % Other Impervious in ARA of Upstream Network   | 0     |
| % Agricultural Cover in ARA of Downstream Network | 3.79  | % Other Impervious in ARA of Downstream Network | 0.19  |
| % Impervious Surf in ARA of Upstream Network      | 0     |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.02  |   |       |

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)                                   | 0.07  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 16.24 | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 0.07  | # Downstream Hydropower Dams   | 2 |
| # Size Classes in Total Network                                    | 2     | # Downstream Dams with Passage | 4 |
| # Upstream Network Size Classes                                    | 0     | # of Downstream Barriers       | 5 |
| NFHAP Cumulative Disturbance Index                                 | High  |                                |   |
| Dam is on Conserved Land   | No    |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 0     |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 0     |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0     |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.25  |                                |   |
| 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       | None Documented |
| Presence of 1 or More Downstream Anadromous Species | Historical      |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 0               |                               |                 |

### 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)              | 51 |
| # Rare Fish (HUC8)                               | 0  |
| # Rare Mussel (HUC8)                             | 3  |
| # 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         | Very High |
| PA IBI Stream Health                 | N/A       |

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