

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_946**

**VAUGHANS DAM**

|                    |                                 |
|--------------------|---------------------------------|
| Diadromous Tier    | 9                               |
| Brook Trout Tier   | N/A                             |
| Resident Tier      | 6                               |
| NID ID             | VA00707                         |
| State ID           | 946                             |
| River Name         |                                 |
| Dam Height (ft)    | 24                              |
| Dam Type           | Earth                           |
| Latitude           | 37.2915                         |
| Longitude          | -77.9163                        |
| Passage Facilities | None Documented                 |
| Passage Year       | N/A                             |
| Size Class         | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12             | Beaverpond Creek-Deep Creek     |
| HUC 10             | Deep Creek                      |
| HUC 8              | Appomattox                      |
| HUC 6              | James                           |
| HUC 4              | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.11  | % Tree Cover in ARA of Upstream Network         | 72.02 |
| % Natural Cover in Upstream Drainage Area         | 71.47 | % Tree Cover in ARA of Downstream Network       | 80.02 |
| % Forested in Upstream Drainage Area              | 66.57 | % Herbaceous Cover in ARA of Upstream Network   | 12.64 |
| % Agriculture in Upstream Drainage Area           | 26.87 | % Herbaceous Cover in ARA of Downstream Network | 15.06 |
| % Natural Cover in ARA of Upstream Network        | 89.57 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 81.67 | % Barren Cover in ARA of Downstream Network     | 0     |
| % Forest Cover in ARA of Upstream Network         | 77.39 | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 62.33 | % Road Impervious in ARA of Downstream Network  | 0.25  |
| % Agricultural Cover in ARA of Upstream Network   | 10.43 | % Other Impervious in ARA of Upstream Network   | 0     |
| % Agricultural Cover in ARA of Downstream Network | 17.56 | % Other Impervious in ARA of Downstream Network | 0.44  |
| % Impervious Surf in ARA of Upstream Network      | 0     |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.05  |   |       |

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)                                   | 1.19      | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 34.48     | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 1.19      | # Downstream Hydropower Dams   | 3 |
| # Size Classes in Total Network                                    | 2         | # Downstream Dams with Passage | 3 |
| # Upstream Network Size Classes                                    | 1         | # of Downstream Barriers       | 4 |
| NFHAP Cumulative Disturbance Index                                 | Very High |                                |   |
| Dam is on Conserved Land   | No        |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 0         |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 5.94      |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0         |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.44      |                                |   |
| 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         |
| Presence of 1 or More Downstream Anadromous Species | Historical      |                               |                 |
| # 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                | No |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8)              | 58 |
| # Rare Fish (HUC8)                               | 1  |
| # Rare Mussel (HUC8)                             | 3  |
| # Rare Crayfish (HUC8)                           | 0  |

### Stream Health

|                                      |          |
|--------------------------------------|----------|
| Chesapeake Bay Program Stream Health | POOR     |
| 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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