

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_876**

**HAYS FARM DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 2                               |
| Bay-wide Resident Tier    | 2                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA10123                         |
| State ID                  | 876                             |
| River Name                |                                 |
| Dam Height (ft)           | 10                              |
| Dam Type                  | Gravity                         |
| Latitude                  | 37.8877                         |
| Longitude                 | -77.2401                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Union Swamp-Mattaponi River     |
| HUC 10                    | Polecat Creek-Mattaponi River   |
| HUC 8                     | Mattaponi                       |
| HUC 6                     | Lower Chesapeake                |
| HUC 4                     | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.56  | % Tree Cover in ARA of Upstream Network         | 37.18 |
| % Natural Cover in Upstream Drainage Area         | 40.93 | % Tree Cover in ARA of Downstream Network       | 81.81 |
| % Forested in Upstream Drainage Area              | 0.86  | % Herbaceous Cover in ARA of Upstream Network   | 21.4  |
| % Agriculture in Upstream Drainage Area           | 54.77 | % Herbaceous Cover in ARA of Downstream Network | 10.66 |
| % Natural Cover in ARA of Upstream Network        | 80.41 | % Barren Cover in ARA of Upstream Network       | 3.05  |
| % Natural Cover in ARA of Downstream Network      | 86.69 | % Barren Cover in ARA of Downstream Network     | 0.32  |
| % Forest Cover in ARA of Upstream Network         | 1.27  | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 38.6  | % Road Impervious in ARA of Downstream Network  | 0.49  |
| % Agricultural Cover in ARA of Upstream Network   | 19.34 | % Other Impervious in ARA of Upstream Network   | 0.99  |
| % Agricultural Cover in ARA of Downstream Network | 9.76  | % Other Impervious in ARA of Downstream Network | 0.52  |
| % Impervious Surf in ARA of Upstream Network      | 0.02  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.44  |   |       |

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)                                   | 0.65                                   | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 1689.61                                | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 0.65                                   | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 4                                      | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 1                                      | # of Downstream Barriers       | 0 |
| NFHAP Cumulative Disturbance Index                                 | Not Scored / Unavailable at this scale |                                |   |
| Dam is on Conserved Land   | No                                     |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 0                                      |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 6.56                                   |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0                                      |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.64                                   |                                |   |
| 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)              | 54 |
| # Rare Fish (HUC8)                               | 2  |
| # Rare Mussel (HUC8)                             | 4  |
| # 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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