

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_343**

**WILLIS RIVER DAM #7**

|                    |                                 |
|--------------------|---------------------------------|
| Diadromous Tier    | 4                               |
| Brook Trout Tier   | N/A                             |
| Resident Tier      | 1                               |
| NID ID             | VA02909                         |
| State ID           | 343                             |
| River Name         | Hatcher Creek                   |
| Dam Height (ft)    | 37.9                            |
| Dam Type           | Earth                           |
| Latitude           | 37.5554                         |
| Longitude          | -78.35                          |
| Passage Facilities | None Documented                 |
| Passage Year       | N/A                             |
| Size Class         | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12             | Hatcher Creek                   |
| HUC 10             | Upper Willis 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    | 0.41  | % Tree Cover in ARA of Upstream Network         | 80.33 |
| % Natural Cover in Upstream Drainage Area         | 73.45 | % Tree Cover in ARA of Downstream Network       | 79.1  |
| % Forested in Upstream Drainage Area              | 56.59 | % Herbaceous Cover in ARA of Upstream Network   | 16.35 |
| % Agriculture in Upstream Drainage Area           | 23.36 | % Herbaceous Cover in ARA of Downstream Network | 15.73 |
| % Natural Cover in ARA of Upstream Network        | 85.3  | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 79.33 | % Barren Cover in ARA of Downstream Network     | 0.1   |
| % Forest Cover in ARA of Upstream Network         | 64.53 | % Road Impervious in ARA of Upstream Network    | 0.29  |
| % Forest Cover in ARA of Downstream Network       | 65.28 | % Road Impervious in ARA of Downstream Network  | 0.6   |
| % Agricultural Cover in ARA of Upstream Network   | 13.52 | % Other Impervious in ARA of Upstream Network   | 0.39  |
| % Agricultural Cover in ARA of Downstream Network | 16.03 | % Other Impervious in ARA of Downstream Network | 0.78  |
| % Impervious Surf in ARA of Upstream Network      | 0.2   |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.71  |   |       |

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)

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_343**

**WILLIS RIVER DAM #7**

### Network, System Type and Condition

|  |  |                                |   |
|--|--|--------------------------------|---|
| Functional Upstream Network (mi)                                   | 28.45                                  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 5459.47                                | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 28.45                                  | # Downstream Hydropower Dams   | 2 |
| # Size Classes in Total Network                                    | 6                                      | # Downstream Dams with Passage | 4 |
| # Upstream Network Size Classes                                    | 2                                      | # of Downstream Barriers       | 4 |
| 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              | 11.23                                  |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0.32                                   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.84                                   |                                |   |
| 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                                  | Potential Current | Downstream Striped Bass       | None Documented |
| Downstream Blueback                                 | Potential 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 | Potential Current |                               |                 |
| # 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                | Yes |
| 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         | No Data |
| PA IBI Stream Health                 | N/A     |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot2/images/Metric_Glossary.pdf)