

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1034**

IZAAK WALTON PARK DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 17 |
| Bay-wide Resident Tier | 14 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA04139 |
| State ID | 1034 |
| River Name | Falling Creek |
| Dam Height (ft) | 20 |
| Dam Type | Earth |
| Latitude | 37.4759 |
| Longitude | -77.629 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Falling Creek |
| HUC 10 | Falling Creek-James River |
| HUC 8 | Lower James |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 16.44 | % Tree Cover in ARA of Upstream Network | 41.33 |
| % Natural Cover in Upstream Drainage Area | 14.21 | % Tree Cover in ARA of Downstream Network | 58.82 |
| % Forested in Upstream Drainage Area | 12.51 | % Herbaceous Cover in ARA of Upstream Network | 29.69 |
| % Agriculture in Upstream Drainage Area | 0.77 | % Herbaceous Cover in ARA of Downstream Network | 21.2 |
| % Natural Cover in ARA of Upstream Network | 25.12 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 46.99 | % Barren Cover in ARA of Downstream Network | 0.14 |
| % Forest Cover in ARA of Upstream Network | 18.51 | % Road Impervious in ARA of Upstream Network | 8.3 |
| % Forest Cover in ARA of Downstream Network | 31.77 | % Road Impervious in ARA of Downstream Network | 6.86 |
| % Agricultural Cover in ARA of Upstream Network | 1.02 | % Other Impervious in ARA of Upstream Network | 12.98 |
| % Agricultural Cover in ARA of Downstream Network | 0.85 | % Other Impervious in ARA of Downstream Network | 10.54 |
| % Impervious Surf in ARA of Upstream Network | 15.05 | | |
| % Impervious Surf in ARA of Downstream Network | 9.43 | | |

Metric descriptions can be found at:

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) | 8.58 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 42.44 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 8.58 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 2 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 2 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 4.71 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 4.35 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.36 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.59 | | |
| 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 |
| One or More DS Anadromous Species | Historical | # Diadromous Sp Dnstrm (incl eel) | 0 |

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) | 2 |
| # Rare Mussel (HUC8) | 1 |
| # 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 | 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 | High |
| 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 |

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