

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_12-001**

EMPORIUM RESERVOIR

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 9 |
| Bay-wide Resident Tier | 2 |
| Bay-wide Brook Trout Tier | 1 |
| NID ID | |
| State ID | 12-001 |
| River Name | Towner Run |
| Dam Height (ft) | 15 |
| Dam Type | Earth |
| Latitude | 41.5019 |
| Longitude | -78.2841 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | West Creek |
| HUC 10 | Driftwood Branch Sinnemahoning |
| HUC 8 | Sinnemahoning |
| HUC 6 | West Branch Susquehanna |
| HUC 4 | Susquehanna |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0 | % Tree Cover in ARA of Upstream Network | 96.89 |
| % Natural Cover in Upstream Drainage Area | 99.86 | % Tree Cover in ARA of Downstream Network | 87.15 |
| % Forested in Upstream Drainage Area | 99.66 | % Herbaceous Cover in ARA of Upstream Network | 2.87 |
| % Agriculture in Upstream Drainage Area | 0.14 | % Herbaceous Cover in ARA of Downstream Network | 8.23 |
| % Natural Cover in ARA of Upstream Network | 100 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 93 | % Barren Cover in ARA of Downstream Network | 0.23 |
| % Forest Cover in ARA of Upstream Network | 100 | % Road Impervious in ARA of Upstream Network | 0 |
| % Forest Cover in ARA of Downstream Network | 84.61 | % Road Impervious in ARA of Downstream Network | 0.56 |
| % Agricultural Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 0 |
| % Agricultural Cover in ARA of Downstream Network | 2.11 | % Other Impervious in ARA of Downstream Network | 0.82 |
| % Impervious Surf in ARA of Upstream Network | 0 | | |
| % Impervious Surf in ARA of Downstream Network | 0.66 | | |

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) | 1.82 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 3035.65 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 1.82 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 5 | # Downstream Dams with Passage | 6 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 8 |
| NFHAP Cumulative Disturbance Index | Very Low | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 0 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 50.93 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.55 | | |
| 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 | None Documented | Downstream Striped Bass | None Documented |
| Downstream Blueback | None Documented | 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 | None Documented | | |
| # Diadromous Species Downstream (incl eel) | 1 | | |

Resident Fish

| | |
|--|-----|
| Barrier is in EBTJV BKT Catchment | No |
| Barrier is in Modeled BKT Catchment (DeWeber) | Yes |
| Barrier Blocks an EBTJV Catchment | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8) | 24 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 1 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|------|
| Chesapeake Bay Program Stream Health | GOOD |
| 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 | N/A |
| PA IBI Stream Health | Good |

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