

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12155** **LAKE ROLAND DAM**

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 14 |
| Bay-wide Resident Tier | 15 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | MD00104 |
| State ID | PA025 |
| River Name | Jones Falls |
| Dam Height (ft) | 42 |
| Dam Type | Gravity |
| Latitude | 39.3786 |
| Longitude | -76.6436 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Jones Falls |
| HUC 10 | Patapsco River-Chesapeake Bay |
| HUC 8 | Gunpowder-Patapsco |
| HUC 6 | Upper Chesapeake |
| HUC 4 | Upper Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 9.93 | % Tree Cover in ARA of Upstream Network | 60.56 |
| % Natural Cover in Upstream Drainage Area | 43.24 | % Tree Cover in ARA of Downstream Network | 51.78 |
| % Forested in Upstream Drainage Area | 40.47 | % Herbaceous Cover in ARA of Upstream Network | 26.23 |
| % Agriculture in Upstream Drainage Area | 8.79 | % Herbaceous Cover in ARA of Downstream Network | 11.5 |
| % Natural Cover in ARA of Upstream Network | 55.57 | % Barren Cover in ARA of Upstream Network | 0.22 |
| % Natural Cover in ARA of Downstream Network | 19.32 | % Barren Cover in ARA of Downstream Network | 0.21 |
| % Forest Cover in ARA of Upstream Network | 49.41 | % Road Impervious in ARA of Upstream Network | 3.45 |
| % Forest Cover in ARA of Downstream Network | 17.92 | % Road Impervious in ARA of Downstream Network | 10.52 |
| % Agricultural Cover in ARA of Upstream Network | 11.17 | % Other Impervious in ARA of Upstream Network | 7.84 |
| % Agricultural Cover in ARA of Downstream Network | 0 | % Other Impervious in ARA of Downstream Network | 24.63 |
| % Impervious Surf in ARA of Upstream Network | 7.56 | | |
| % Impervious Surf in ARA of Downstream Network | 28.81 | | |

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) | 61.93 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 79.61 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 17.69 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 3 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | Yes | | |
| % Conserved Land in 100m Buffer of Upstream Network | 24.12 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 20.68 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 2.48 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 3.19 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0.01 | | |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0.03 | | |

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 | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8) | 52 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 0 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | VERY_POOR |
| MD MBSS Benthic IBI Stream Health | Fair |
| MD MBSS Fish IBI Stream Health | Poor |
| MD MBSS Combined IBI Stream Health | Poor |
| VA INSTAR mIBI Stream Health | N/A |
| PA IBI Stream Health | N/A |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf