# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-256** **MUDDY RUN**

| | |
|---|---|
| Bay-wide Diadromous Tier | 12 |
| Bay-wide Resident Tier | 2 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | PA00266 |
| State ID | 36-256 |
| River Name | Muddy Run |
| Dam Height (ft) | 260 |
| Dam Type | Earth |
| Latitude | 39.8168 |
| Longitude | -76.3009 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Muddy Run-Susquehanna River |
| HUC 10 | Susquehanna River |
| HUC 8 | Lower Susquehanna |
| HUC 6 | Lower Susquehanna |
| HUC 4 | Susquehanna |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 0.9 |
| % Natural Cover in Upstream Drainage Area | 51.87 |
| % Forested in Upstream Drainage Area | 31.61 |
| % Agriculture in Upstream Drainage Area | 40.66 |
| % Natural Cover in ARA of Upstream Network | 93.44 |
| % Natural Cover in ARA of Downstream Network | 74.81 |
| % Forest Cover in ARA of Upstream Network | 25.86 |
| % Forest Cover in ARA of Downstream Network | 28.95 |
| % Agricultral Cover in ARA of Upstream Network | 4.08 |
| % Agricultral Cover in ARA of Downstream Network | 20.6 |
| % Impervious Surf in ARA of Upstream Network | 0.6 |
| % Impervious Surf in ARA of Downstream Network | 0.59 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 27.55 |
| % Tree Cover in ARA of Downstream Network | 34.61 |
| % Herbaceaous Cover in ARA of Upstream Network | 13.7 |
| % Herbaceaous Cover in ARA of Downstream Network | 22.82 |
| % Barren Cover in ARA of Upstream Network | 3.23 |
| % Barren Cover in ARA of Downstream Network | 0.34 |
| % Road Impervious in ARA of Upstream Network | 0.1 |
| % Road Impervious in ARA of Downstream Network | 0.51 |
| % Other Impervious in ARA of Upstream Network | 0.25 |
| % Other Impervious in ARA of Downstream Network | 1.48 |

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) | 6.17 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 183.84 | # Downsteam Natural Barriers | 0 |
| Absolute Gain (mi) | 6.17 | # Downstream Hydropower Dams | 1 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 1 |

| | |
|---|---|
| NFHAP Cumulative Disturbance Index | High |
| Dam is on Conserved Land | No |
| % Conserved Land in 100m Buffer of Upstream Network | 0 |
| % Conserved Land in 100m Buffer of Downstream Network | 2.58 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.58 |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.65 |
| 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 Docume |
| # 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) | 53 |
| # Rare Fish (HUC8) | 2 |
| # Rare Mussel (HUC8) | 3 |
| # Rare Crayfish (HUC8) | 0 |

## Stream Health

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

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