

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA\_PA00815** **LAKE CHILLISQUAQUE**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 18                              |
| Bay-wide Resident Tier    | 7                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | PA00815                         |
| State ID                  | PA00815                         |
| River Name                | Middle Branch Chillisquaque Cre |
| Dam Height (ft)           | 54                              |
| Dam Type                  | Earth                           |
| Latitude                  | 41.1017                         |
| Longitude                 | -76.661                         |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12                    | Upper Branches Chillisquaque Cr |
| HUC 10                    | Chillisquaque Creek             |
| HUC 8                     | Lower West Branch Susquehann    |
| HUC 6                     | West Branch Susquehanna         |
| HUC 4                     | Susquehanna                     |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.58  | % Tree Cover in ARA of Upstream Network         | 58.4  |
| % Natural Cover in Upstream Drainage Area         | 42.2  | % Tree Cover in ARA of Downstream Network       | 54.16 |
| % Forested in Upstream Drainage Area              | 35.56 | % Herbaceous Cover in ARA of Upstream Network   | 24.52 |
| % Agriculture in Upstream Drainage Area           | 52.96 | % Herbaceous Cover in ARA of Downstream Network | 33.75 |
| % Natural Cover in ARA of Upstream Network        | 65.66 | % Barren Cover in ARA of Upstream Network       | 0.36  |
| % Natural Cover in ARA of Downstream Network      | 57.7  | % Barren Cover in ARA of Downstream Network     | 0.51  |
| % Forest Cover in ARA of Upstream Network         | 46.05 | % Road Impervious in ARA of Upstream Network    | 0.67  |
| % Forest Cover in ARA of Downstream Network       | 44.4  | % Road Impervious in ARA of Downstream Network  | 2     |
| % Agricultural Cover in ARA of Upstream Network   | 29.39 | % Other Impervious in ARA of Upstream Network   | 0.47  |
| % Agricultural Cover in ARA of Downstream Network | 27.91 | % Other Impervious in ARA of Downstream Network | 3.88  |
| % Impervious Surf in ARA of Upstream Network      | 0.41  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 3.93  |   |       |

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)

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## Network, System Type and Condition

|  |         |                                |   |
|--|---------|--------------------------------|---|
| Functional Upstream Network (mi)                                   | 11.93   | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 7084.48 | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 11.93   | # Downstream Hydropower Dams   | 4 |
| # Size Classes in Total Network                                    | 7       | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes                                    | 2       | # of Downstream Barriers       | 6 |
| 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              | 6.98    |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.1     |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.98    |                                |   |
| Density of off-channel dams in Upstream Network Watershed (#/m2)   | 0       |                                |   |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0.01    |                                |   |

## 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)    | No  |
| Barrier Blocks an EBTJV Catchment                | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No  |
| Native Fish Species Richness (HUC8)              | 31  |
| # Rare Fish (HUC8)                               | 0   |
| # Rare Mussel (HUC8)                             | 1   |
| # Rare Crayfish (HUC8)                           | 0   |

## Stream Health

|                                      |           |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | VERY_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         | N/A       |
| PA IBI Stream Health                 | Fair      |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)