

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_402**

LITTLE CREEK DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 14 |
| Bay-wide Resident Tier | 2 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA09506 |
| State ID | 402 |
| River Name | Little Creek |
| Dam Height (ft) | 67 |
| Dam Type | Earth |
| Latitude | 37.3506 |
| Longitude | -76.8406 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Yarmouth Creek-Chickahominy |
| HUC 10 | Lower Chickahominy River |
| HUC 8 | Lower James |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.53 | % Tree Cover in ARA of Upstream Network | 50.55 |
| % Natural Cover in Upstream Drainage Area | 77.29 | % Tree Cover in ARA of Downstream Network | 62.35 |
| % Forested in Upstream Drainage Area | 41.96 | % Herbaceous Cover in ARA of Upstream Network | 4.81 |
| % Agriculture in Upstream Drainage Area | 16.95 | % Herbaceous Cover in ARA of Downstream Network | 11.86 |
| % Natural Cover in ARA of Upstream Network | 94.74 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 90.89 | % Barren Cover in ARA of Downstream Network | 0.18 |
| % Forest Cover in ARA of Upstream Network | 45.41 | % Road Impervious in ARA of Upstream Network | 0.22 |
| % Forest Cover in ARA of Downstream Network | 22.93 | % Road Impervious in ARA of Downstream Network | 0.24 |
| % Agricultural Cover in ARA of Upstream Network | 3.54 | % Other Impervious in ARA of Upstream Network | 0.58 |
| % Agricultural Cover in ARA of Downstream Network | 6.48 | % Other Impervious in ARA of Downstream Network | 0.67 |
| % Impervious Surf in ARA of Upstream Network | 0.11 | | |
| % Impervious Surf in ARA of Downstream Network | 0.24 | | |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_402**

LITTLE CREEK DAM

Network, System Type and Condition

| | | | |
|--|--|--------------------------------|---|
| Functional Upstream Network (mi) | 3.97 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 454.78 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 3.97 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 0 |
| NFHAP Cumulative Disturbance Index | Not Scored / Unavailable at this scale | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 3.67 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 10.95 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.43 | | |
| 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) | 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 |

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 | Very High |
| 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