

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_965**

GRAHAM CREEK RES. DAM #1

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 10 |
| Bay-wide Resident Tier | 6 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA00908 |
| State ID | 965 |
| River Name | |
| Dam Height (ft) | 52 |
| Dam Type | Earth |
| Latitude | 37.4902 |
| Longitude | -79.1648 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Harris Creek |
| HUC 10 | Harris Creek-James River |
| HUC 8 | Middle James-Buffalo |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---------------------------------------------------|-------|-------------------------------------------------|-------|
| % Impervious Surface in Upstream Drainage Area | 1.19 | % Tree Cover in ARA of Upstream Network | 69.37 |
| % Natural Cover in Upstream Drainage Area | 60.54 | % Tree Cover in ARA of Downstream Network | 79.53 |
| % Forested in Upstream Drainage Area | 58.35 | % Herbaceous Cover in ARA of Upstream Network | 23.63 |
| % Agriculture in Upstream Drainage Area | 30.31 | % Herbaceous Cover in ARA of Downstream Network | 13.57 |
| % Natural Cover in ARA of Upstream Network | 63.83 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 75.18 | % Barren Cover in ARA of Downstream Network | 0.03 |
| % Forest Cover in ARA of Upstream Network | 59.64 | % Road Impervious in ARA of Upstream Network | 0.86 |
| % Forest Cover in ARA of Downstream Network | 70.42 | % Road Impervious in ARA of Downstream Network | 1.12 |
| % Agricultural Cover in ARA of Upstream Network | 30.27 | % Other Impervious in ARA of Upstream Network | 0.77 |
| % Agricultural Cover in ARA of Downstream Network | 16.6 | % Other Impervious in ARA of Downstream Network | 1.82 |
| % Impervious Surf in ARA of Upstream Network | 0.68 | | |
| % Impervious Surf in ARA of Downstream Network | 1.81 | | |

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) | 17.35 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 163.26 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 17.35 | # Downstream Hydropower Dams | 3 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 4 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 5 |
| NFHAP Cumulative Disturbance Index | Not Scored / Unavailable at this scale | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 10.99 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 1.46 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.11 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.42 | | |
| 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 | 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 | None Documented |
| Presence of 1 or More Downstream Anadromous Species | Historical | | |
| # Diadromous Species Downstream (incl eel) | 0 | | |

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) | 50 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 4 |
| # 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 | Moderate |
| PA IBI Stream Health | N/A |

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