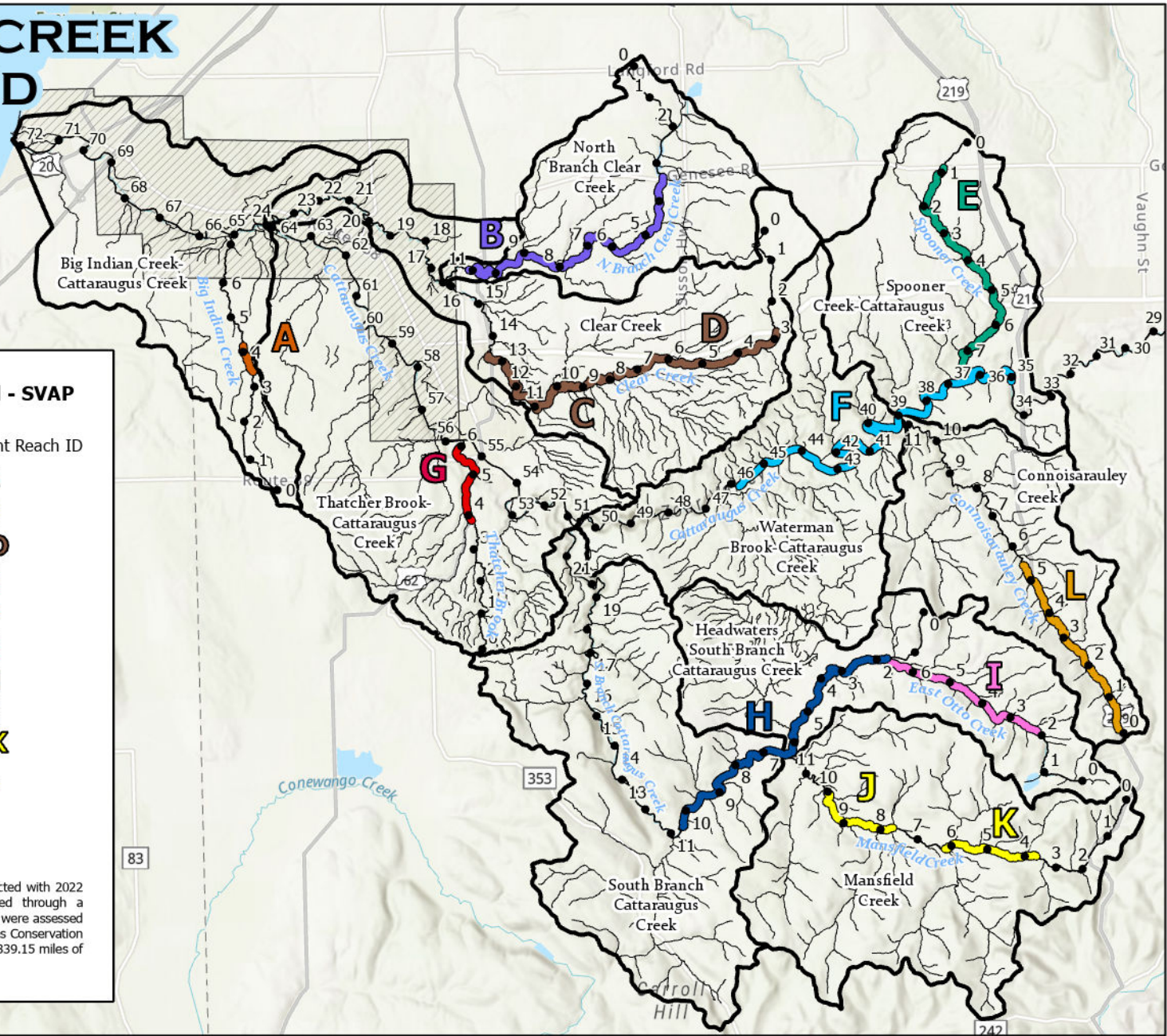


# CATTARAUGUS CREEK SUB-WATERSHED SVAP MILEAGE 2024

## Stream Visual Assessment Protocol - SVAP

- 10 Calculated Mile Marker
  - SVAP Assessment Reach ID
  - Big Indian Creek
  - North Branch Clear Creek
  - Clear Creek
  - Spoooner Creek
  - Cattaraugus Creek
  - Thatcher Brook
  - South Branch Cattaraugus Creek
  - East Otto
  - Mansfield Creek
  - Connoisarauley Creek
  - Waterways
  - Cattaraugus Territory
  - HUC 12 Sub-watershed
- A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

NOTE: SVAP walked data collected 2024. Desktop analysis conducted with 2022 Orthoimagery and 2023 Eagleview imagery. Reach F assessed through a combination of field and desktop analysis data. Waterway reaches were assessed using a modified SVAP procedure from the USDA Natural Resources Conservation Service. 60.10 miles of waterways were assessed out of a total of 839.15 miles of waterways.



Department  
of State

This map was prepared with funding  
provided by the New York State  
Department of State under Title 11 of the  
Environmental Protection Fund.

Esri, NASA, NGA, USGSEsi, Airbus DS, N Robinson,  
NCEAS, NLS, OS, NMA, Geodata styrlsen,  
Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the  
GIS user community



0 1.5 3 6 Miles



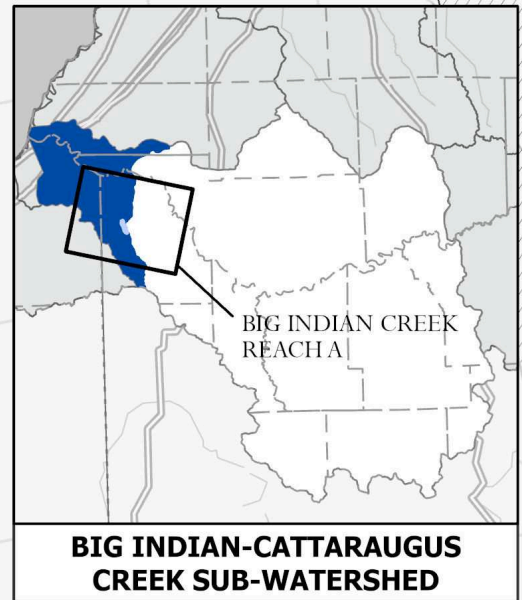
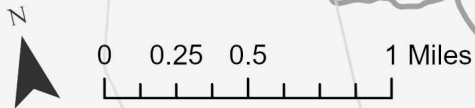
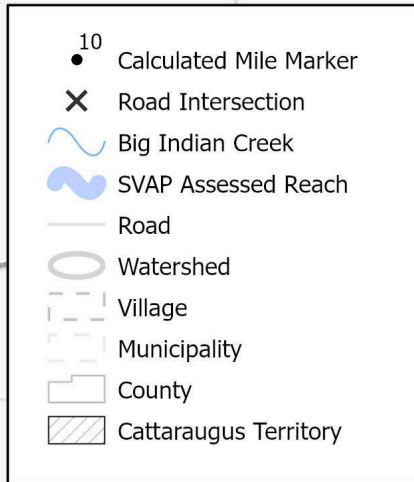


# BIG INDIAN CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH A

AVERAGE OVERALL SVAP RATING: **7.4**

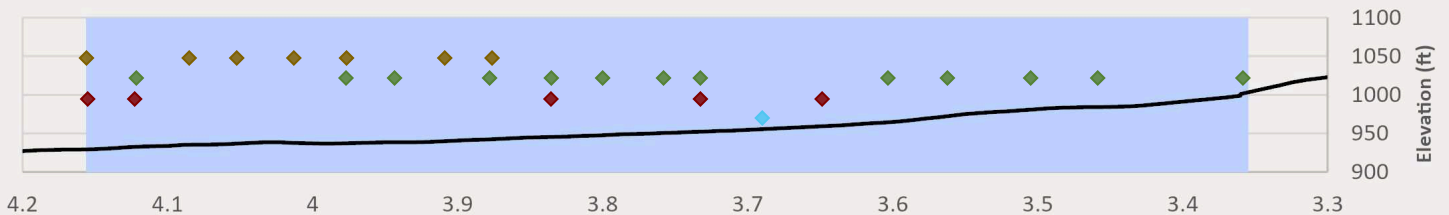
## REACH A



PERRYSBURG  
FLOW DIRECTION

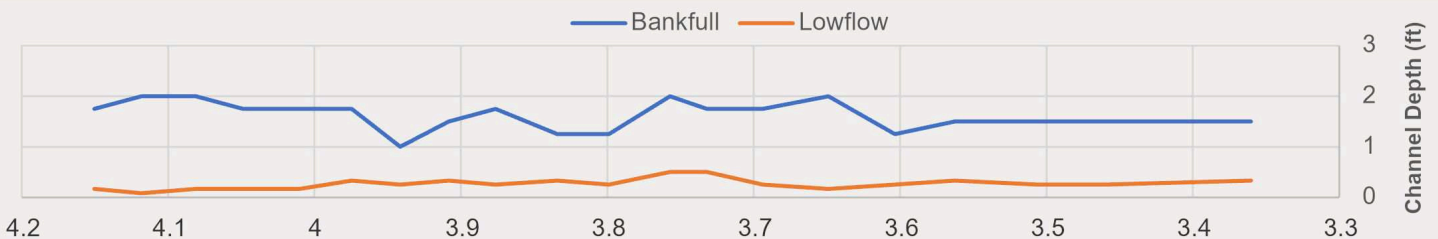
### Elevation Profile

Substrate ◆ Bedrock/Concrete ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay

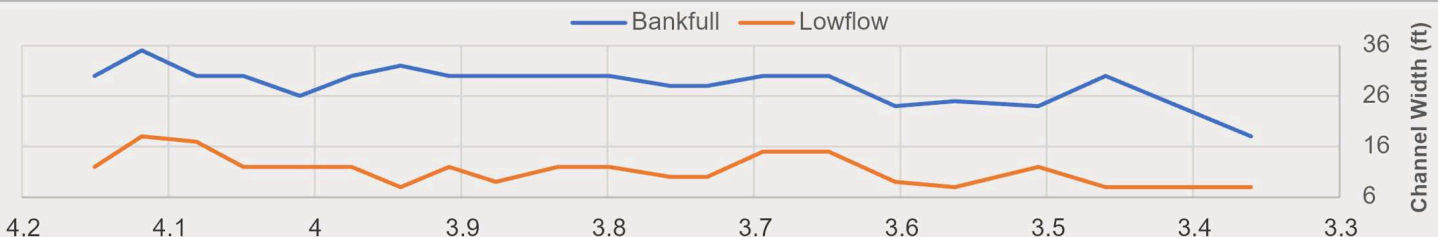


## REACH A

### Channel Depth



### Channel Width



FLOW DIRECTION

Creek Mile (4.15 at Tailwater, 3.36 at Headwater)

FLOW DIRECTION

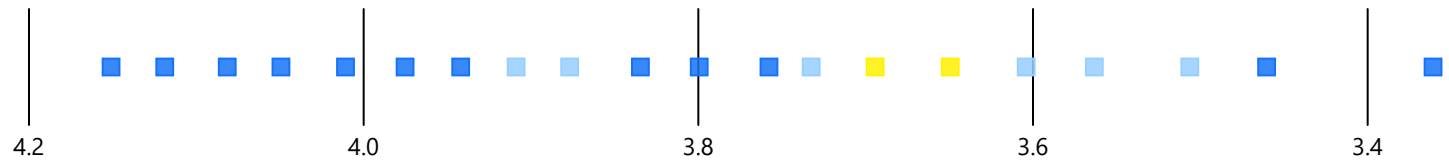
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH A

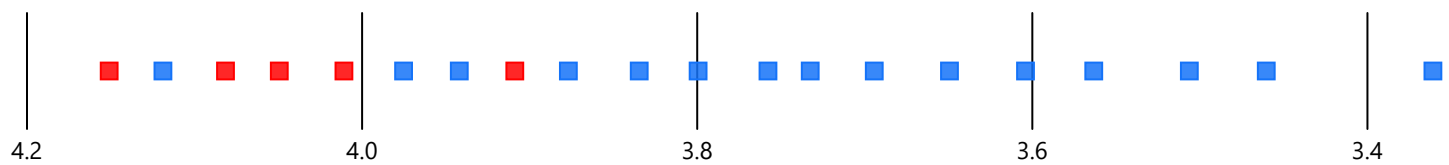
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



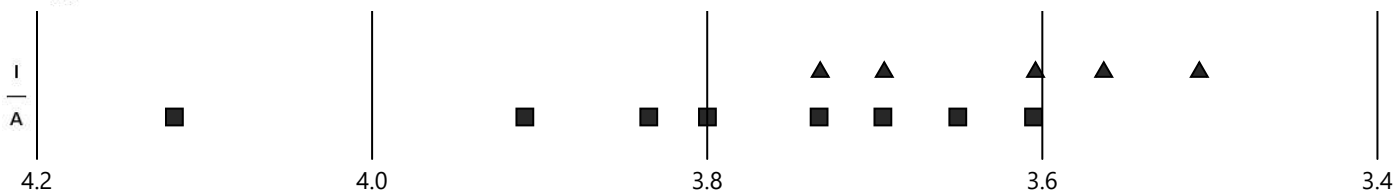
### Stream Bank Hardening

■ No ■ Yes



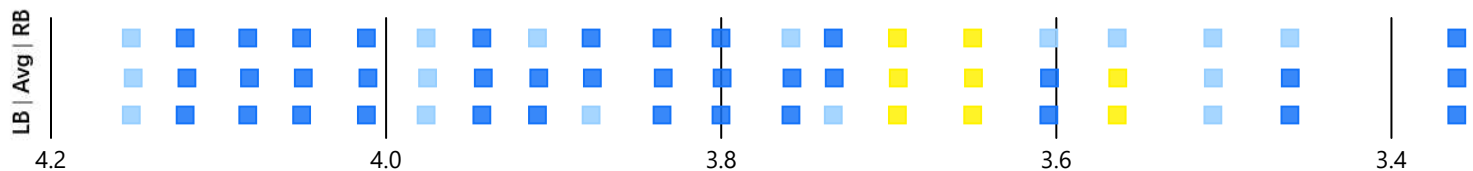
### Aggradation/Incision

■ Aggradation ▲ Incision



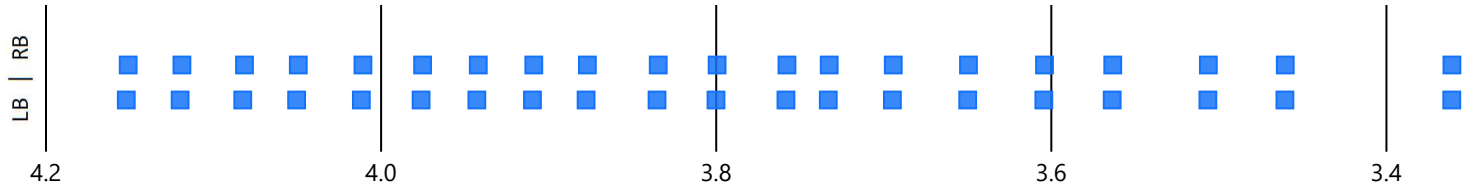
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre



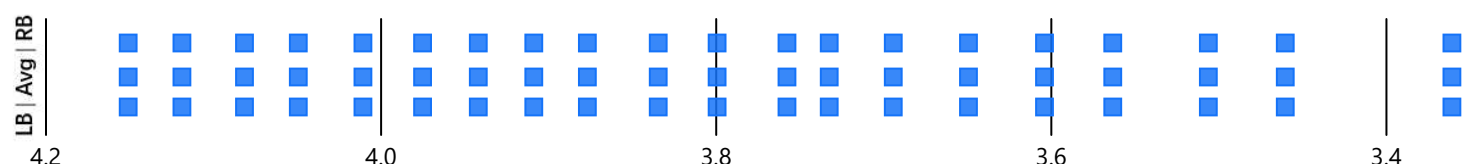
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

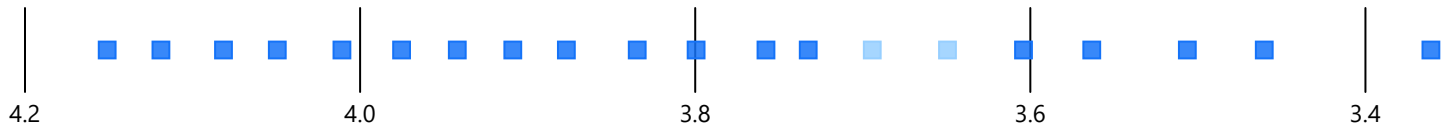
Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH A

## Water Appearance

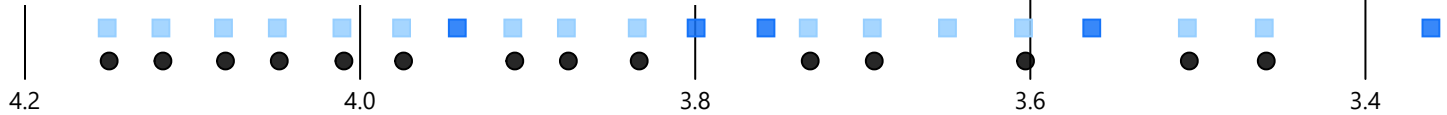
Score ■ Excellent ■ Good



## Nutrient Enrichment

■ Low ■ Mild

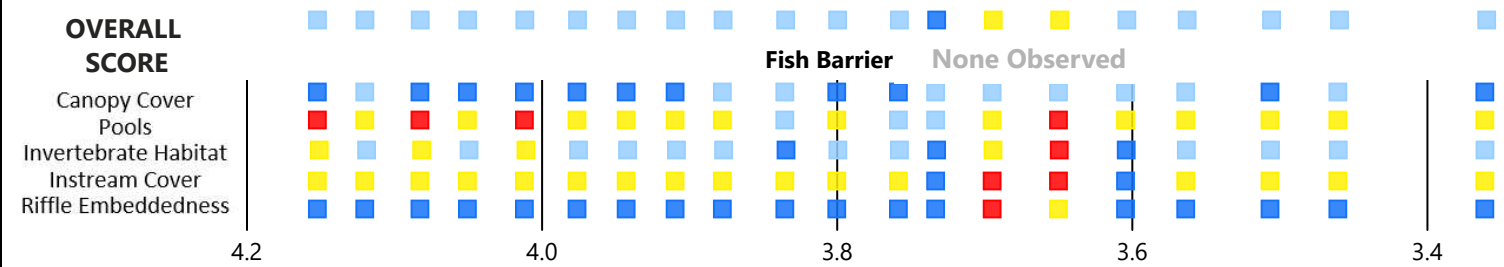
Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

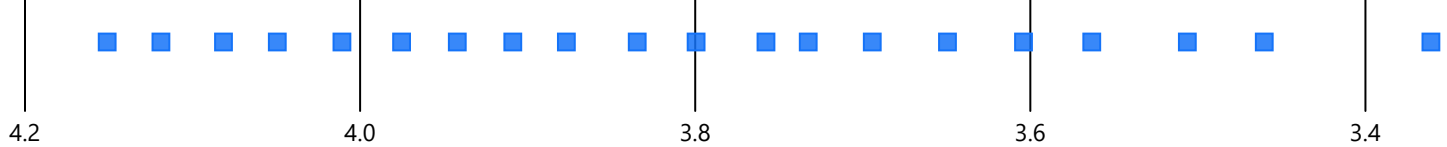
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



## Manure Presence

■ None



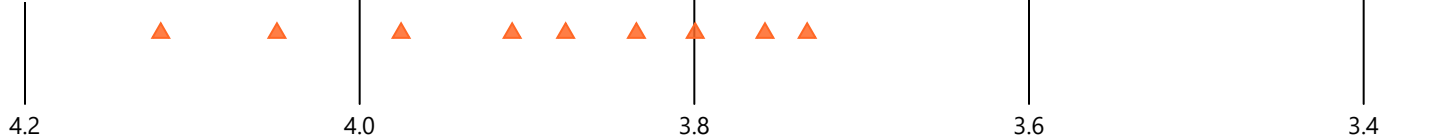
## Invasive Species

■ Multiflora Rose



## Aquatic Vegetation

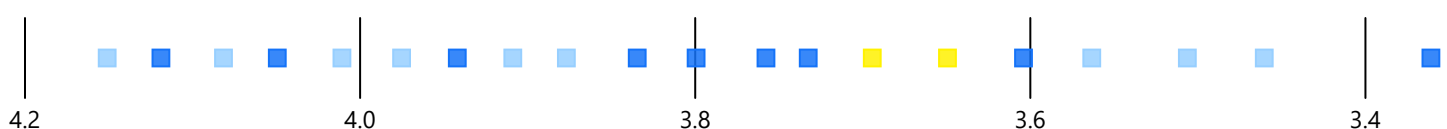
■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

BIG INDIAN CREEK

Score ■ Excellent ■ Good ■ Mediocre



← FLOW DIRECTION

Creek Mile (4.15 at Tailwater, 3.36 at Headwater)

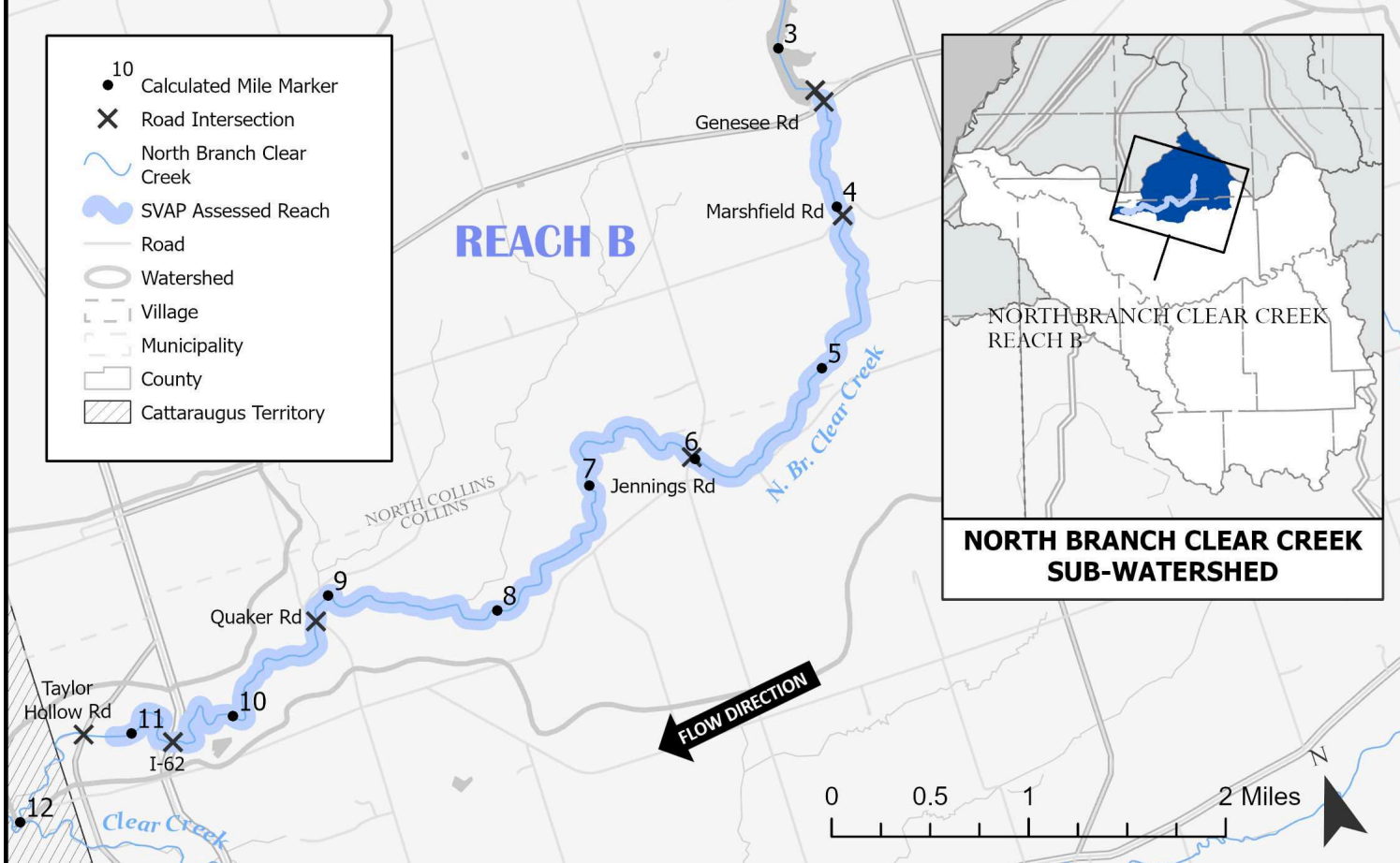
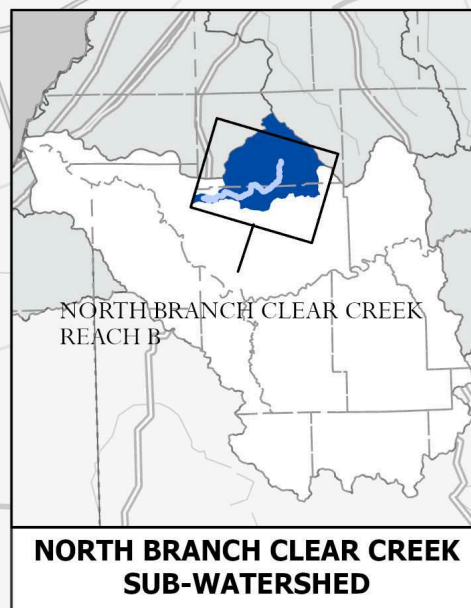
← FLOW DIRECTION



# NORTH BRANCH CLEAR CREEK

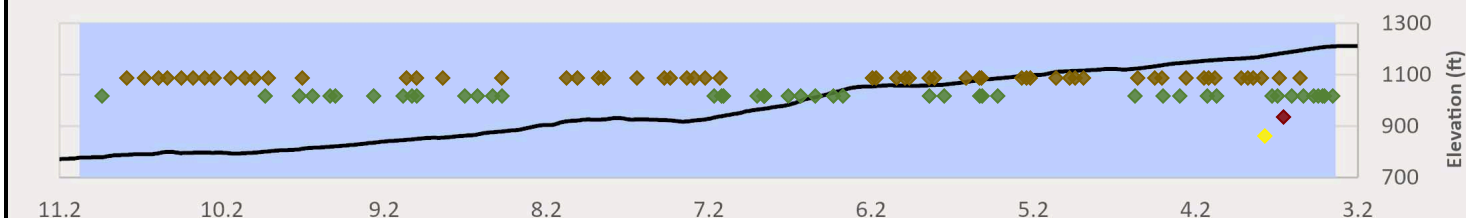
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH B

AVERAGE OVERALL SVAP RATING: **6.3**



## Elevation Profile

Substrate ◆ Bedrock/Concrete ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



## REACH B

## Channel Depth



## Channel Width



FLOW DIRECTION

Creek Mile (11.04 at Tailwater, 3.38 at Headwater)

FLOW DIRECTION

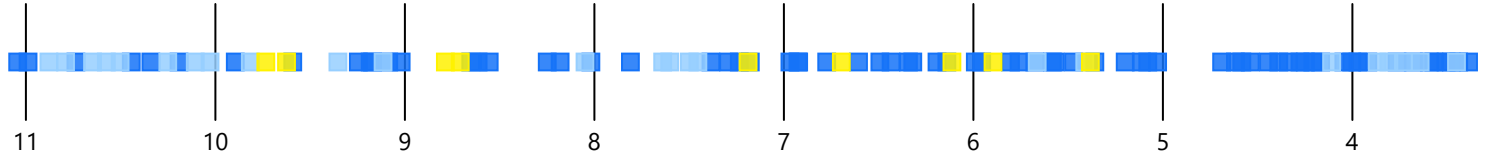
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH B

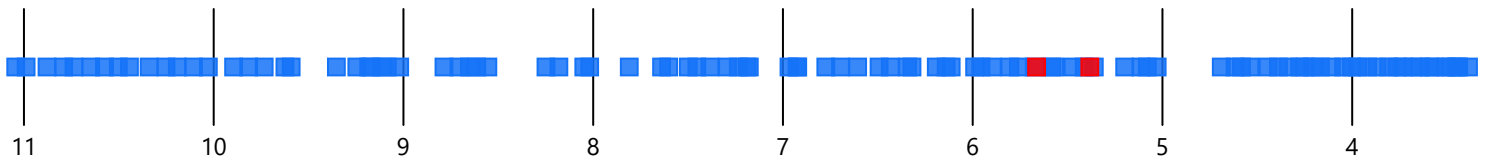
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



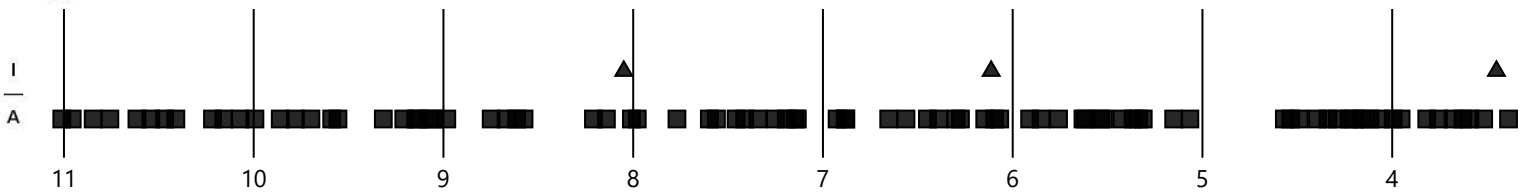
### Stream Bank Hardening

■ No ■ Yes



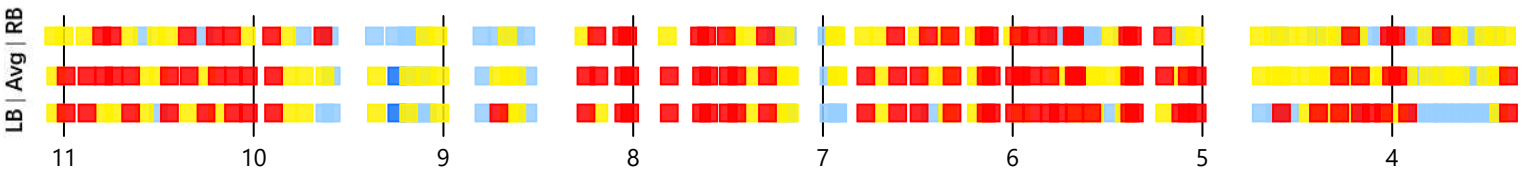
### Aggradation/Incision

■ Aggradation ▲ Incision



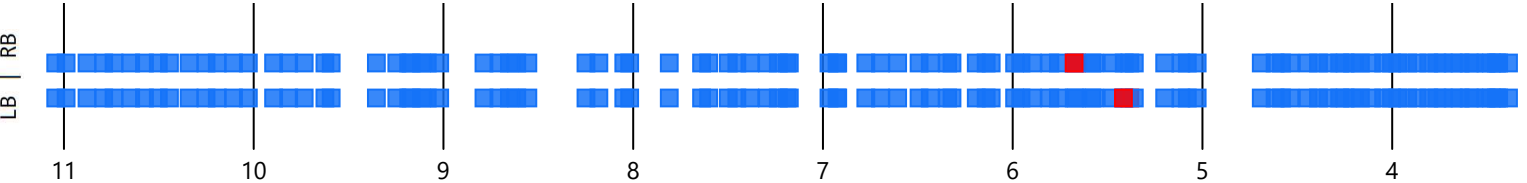
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



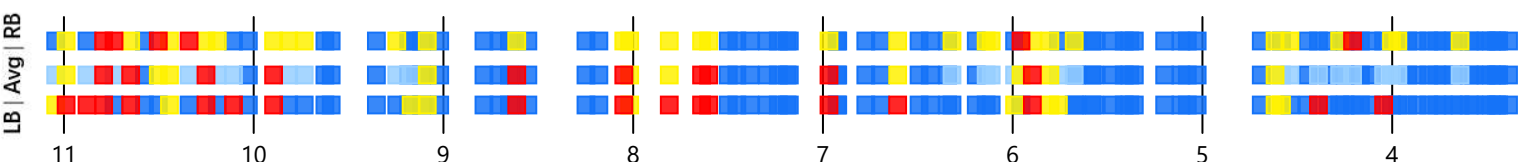
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH B

## Water Appearance

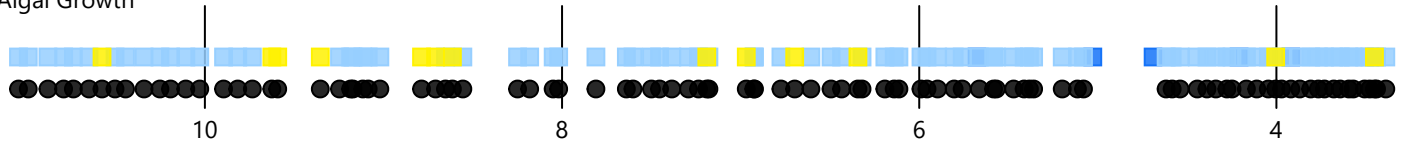
Score ■ Excellent ■ Good



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate

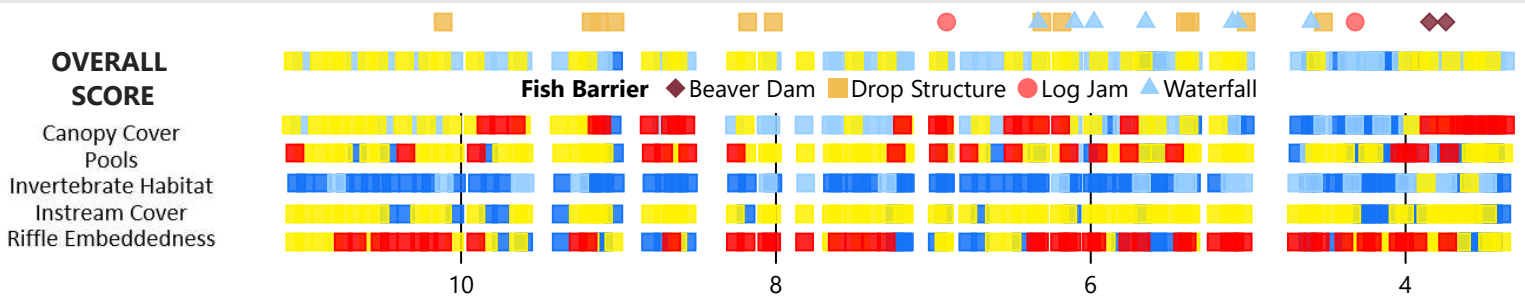
Notes ● Algal Growth



## Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



## Manure Presence

■ Evidence of Animals in Zone ■ Extensive Manure/CFO Pipes ■ None



## Invasive Species

◆ Angelica ● Japanese Knotweed ● Parsnip



## Aquatic Vegetation

■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

## NORTH BRANCH CLEAR CREEK

Score ■ Excellent ■ Good ■ Mediocre



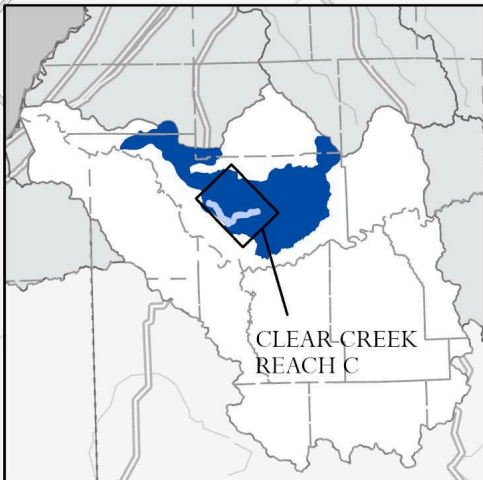
← FLOW DIRECTION Creek Mile (11.04 at Tailwater, 3.38 at Headwater) FLOW DIRECTION →



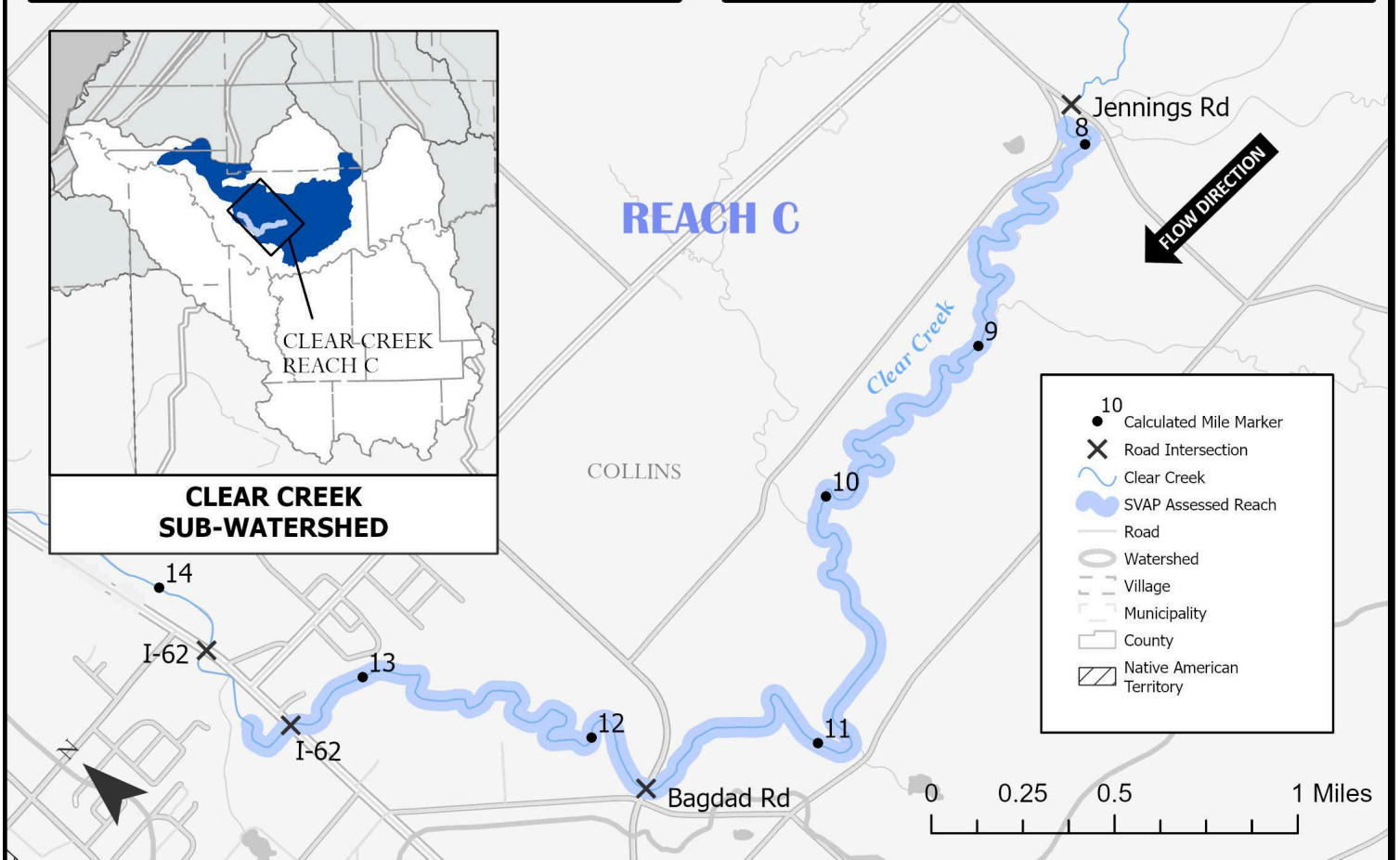
# CLEAR BROOK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH C

AVERAGE OVERALL SVAP RATING: **6.0**

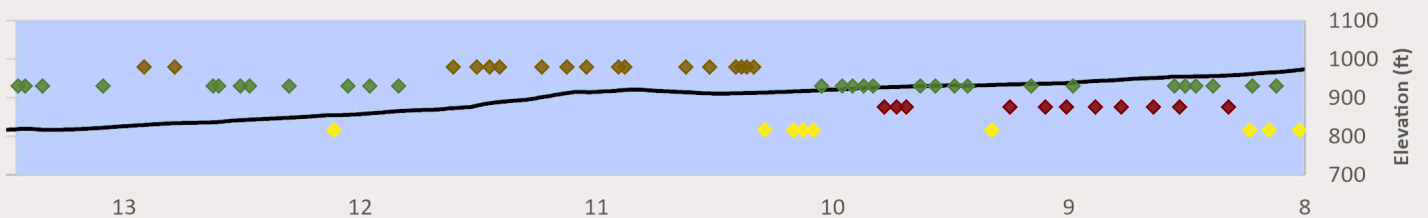


## CLEAR CREEK SUB-WATERSHED



## Elevation Profile

Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay

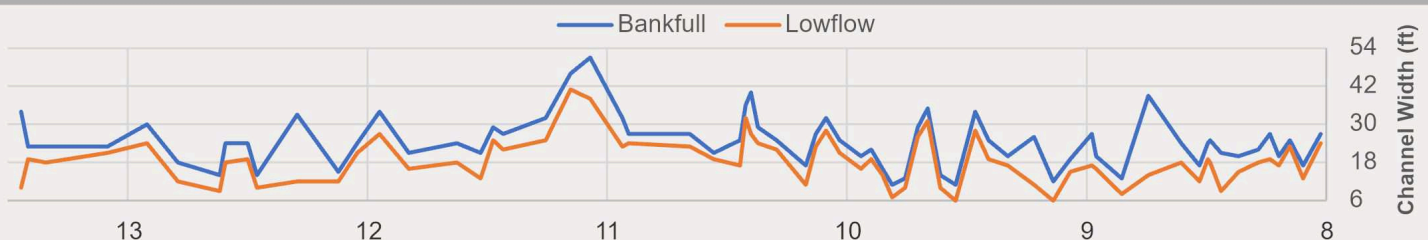


## REACH C

## Channel Depth



## Channel Width



← FLOW DIRECTION

Creek Mile (13.44 at Tailwater, 8.02 at Headwater)

← FLOW DIRECTION

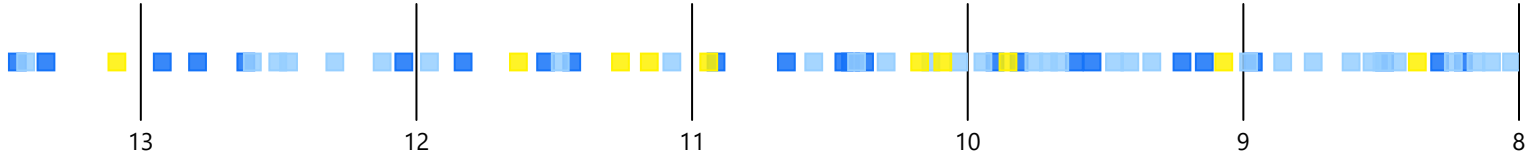
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH C

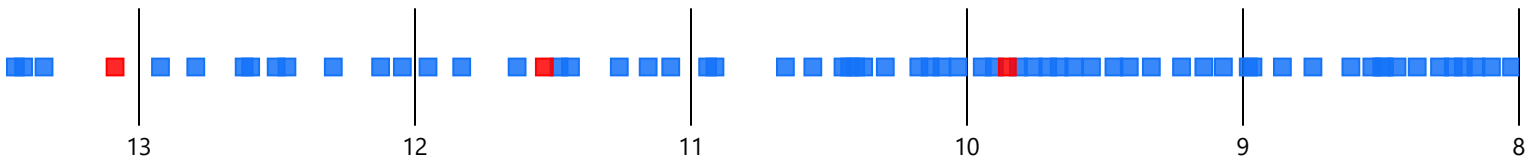
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



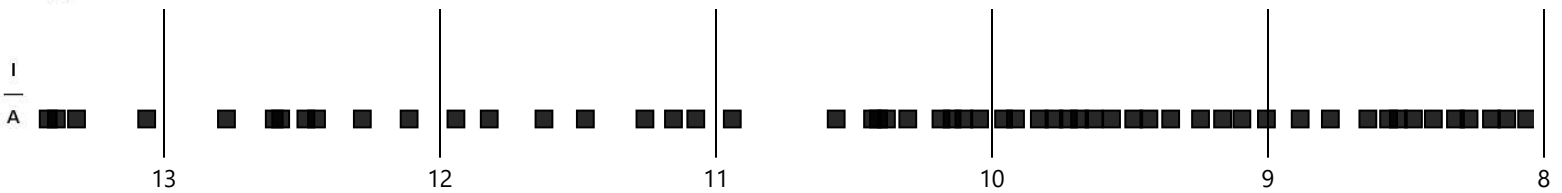
### Stream Bank Hardening

■ No ■ Yes



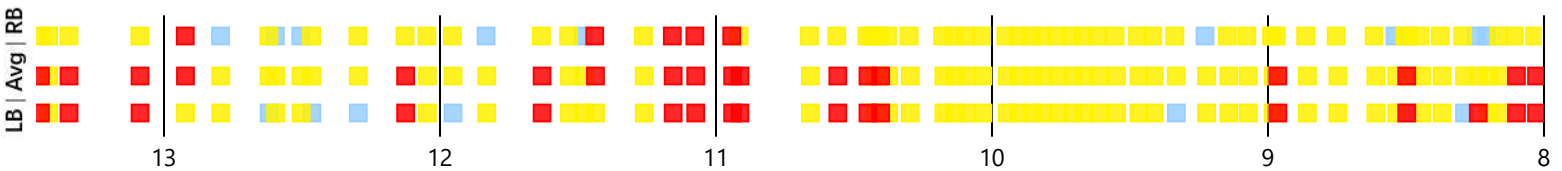
### Aggradation/Incision

■ Aggradation ▲ Incision



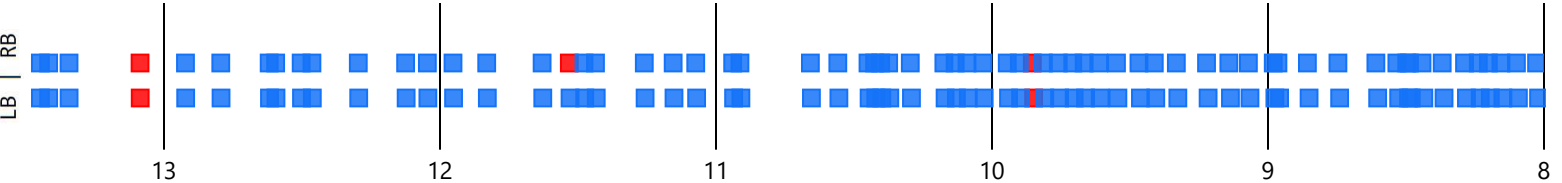
### Bank Stability

Score ■ Mediocre ■ Poor



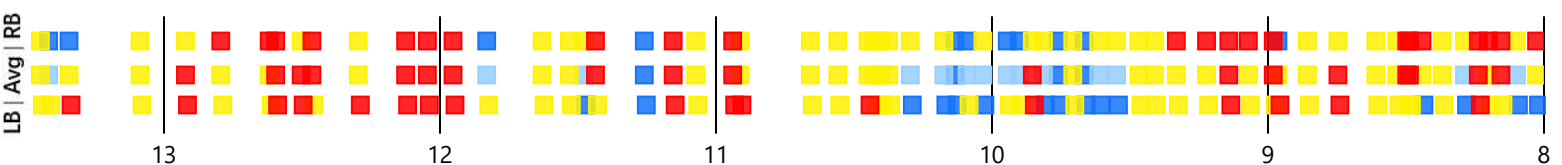
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH C

## Water Appearance

Score ■ Excellent ■ Good ■ Mediocre



## Nutrient Enrichment

■ Mild ■ Moderate ■ Severe

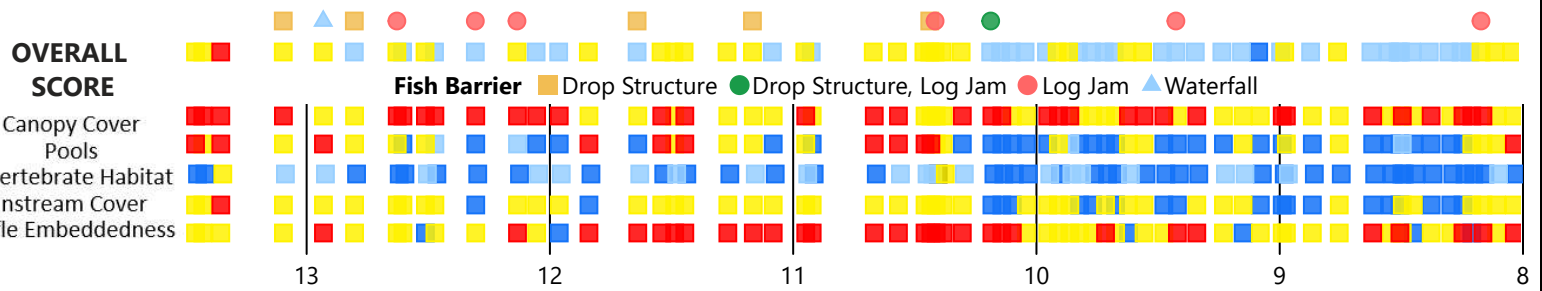
Notes ● Algal Growth



## Fish Habitat

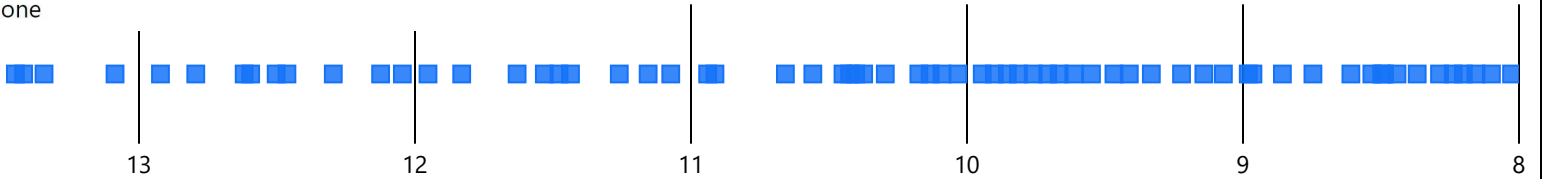
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



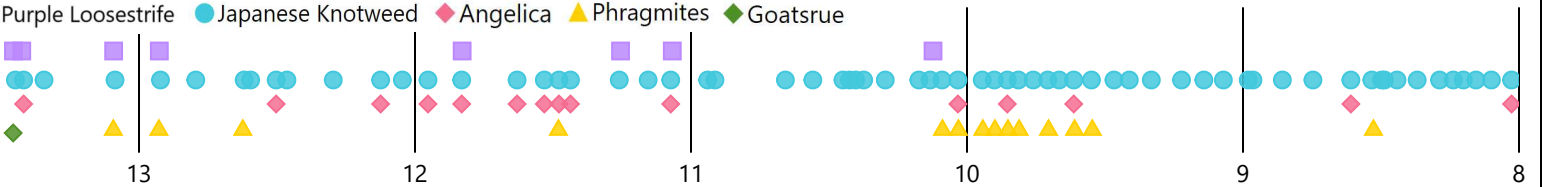
## Manure Presence

■ None



## Japanese Knotweed

■ Purple Loosestrife ■ Japanese Knotweed ■ Angelica ■ Phragmites ■ Goatsrue



## Aquatic Vegetation

■ Both ■ Emergent ■ Submerged



## OVERALL SVAP RATING

## CLEAR CREEK REACH C

Score ■ Good ■ Mediocre

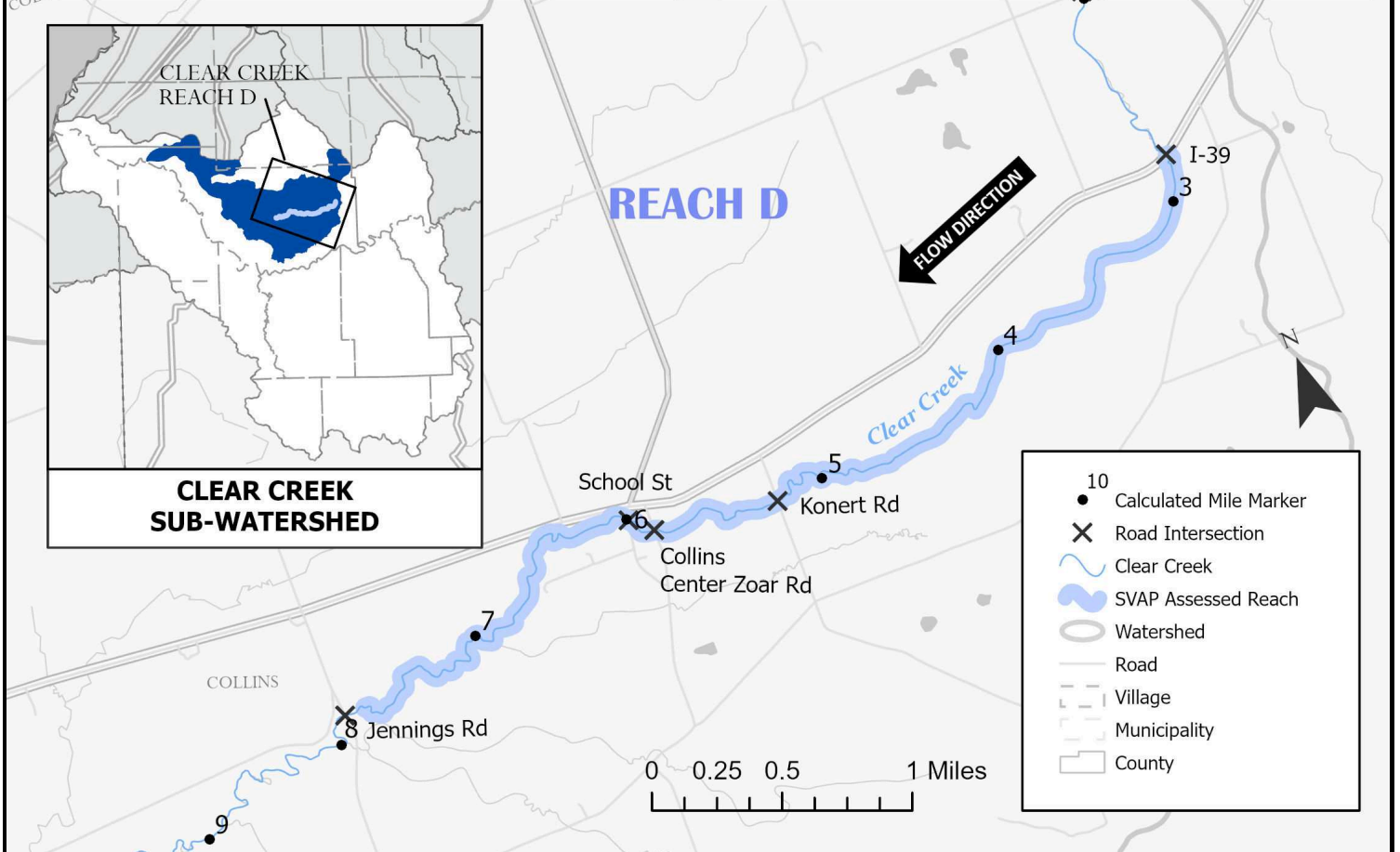
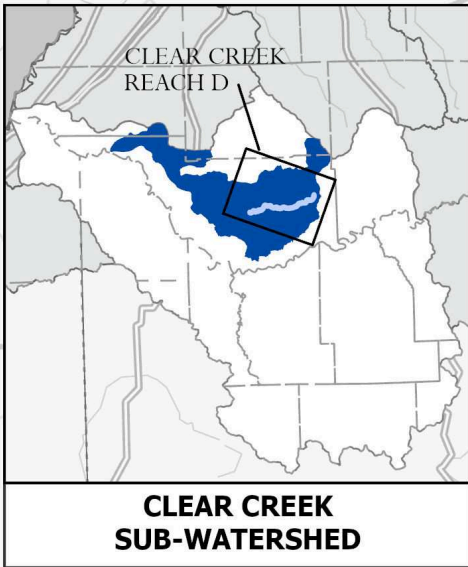




# CLEAR BROOK

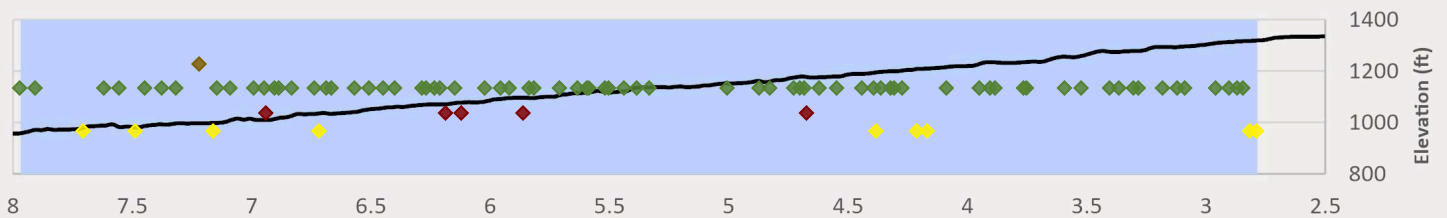
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH D

AVERAGE OVERALL SVAP RATING: **5.2**



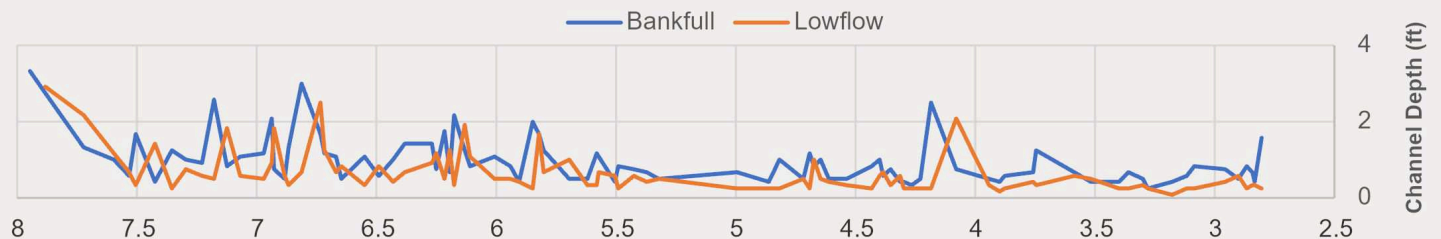
## Elevation Profile

Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay

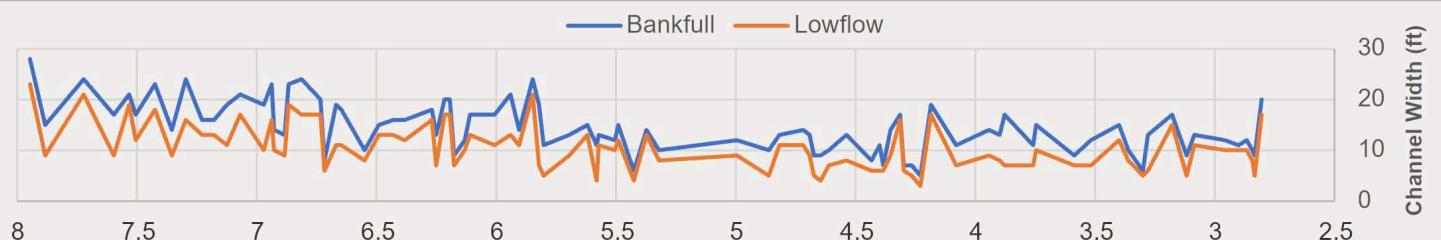


## REACH D

## Channel Depth



## Channel Width



FLOW DIRECTION

Creek Mile (7.95 at Tailwater, 2.80 at Headwater)

FLOW DIRECTION

# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

REACH D

## Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Stream Bank Hardening

■ No ■ Yes



## Aggradation/Incision

■ Aggradation ▲ Incision



## Bank Stability

Score ■ Good ■ Mediocre ■ Poor



## Bank Condition

■ Hardened Structure ■ Natural



## Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



← FLOW DIRECTION Creek Mile (7.95 at Tailwater, 2.80 at Headwater) FLOW DIRECTION →

# REACH D

## Water Appearance

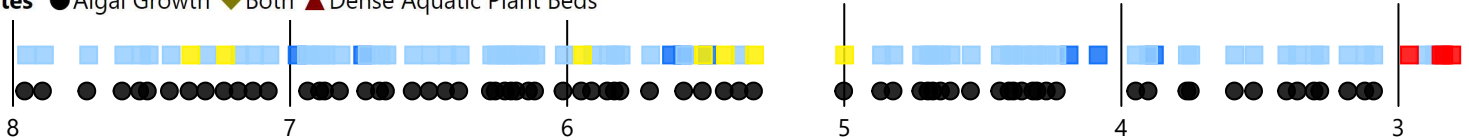
**Score** ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate ■ Severe

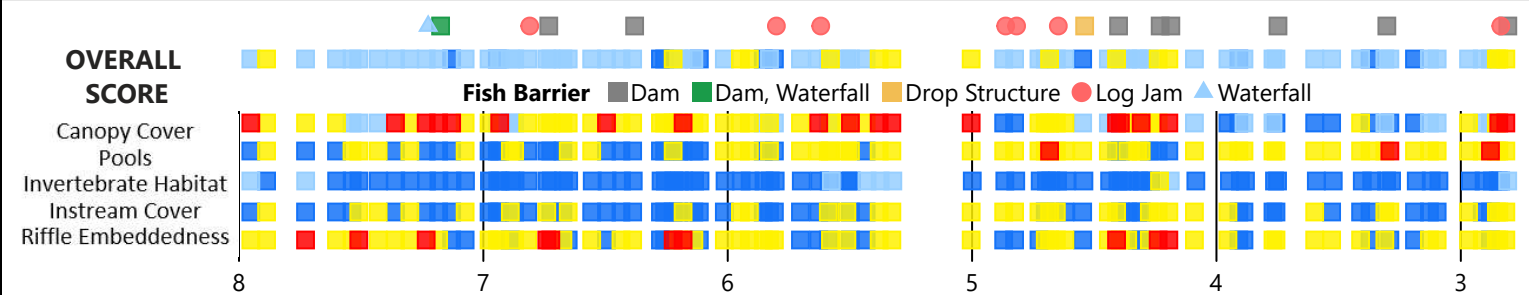
**Notes** ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

**Score** ■ Excellent ■ Good ■ Mediocre ■ Poor

*Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.*



## Manure Presence

■ Evidence of Animals in Zone ■ Extensive Manure/CFO Pipes ■ None



## Knotweed

● Japanese Knotweed ◆ Angelica ▲ Phragmites



## Aquatic Vegetation

■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

## CLEAR CREEK REACH D

**Score** ■ Excellent ■ Good ■ Mediocre



← FLOW DIRECTION

Creek Mile (7.95 at Tailwater, 2.80 at Headwater)

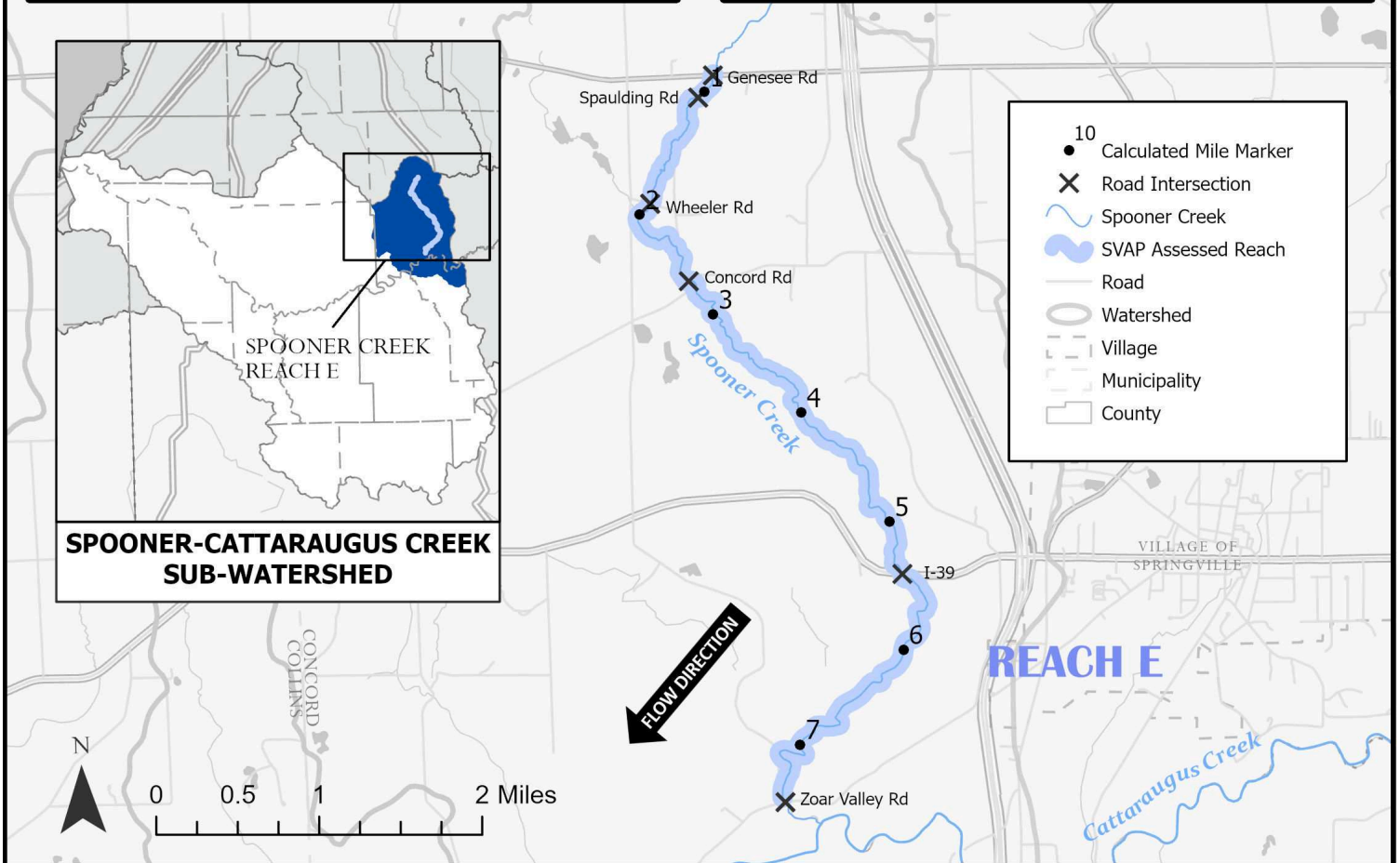
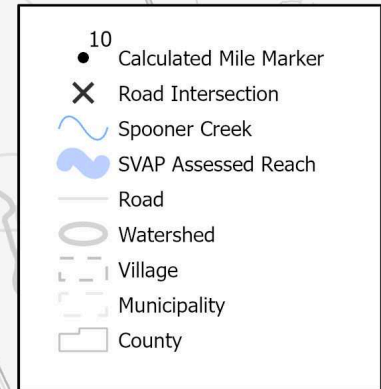
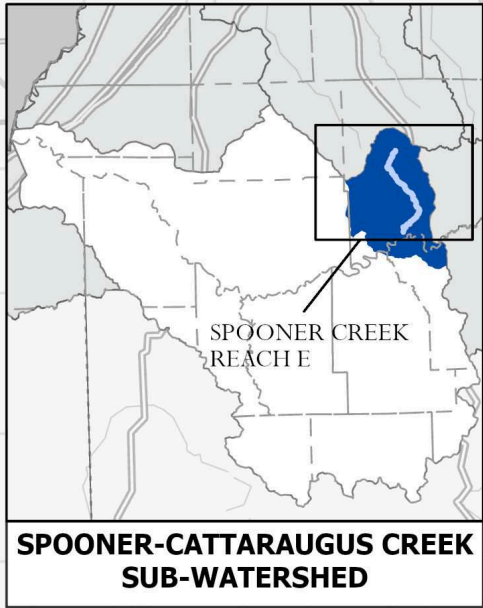
← FLOW DIRECTION



# SPOONER CREEK

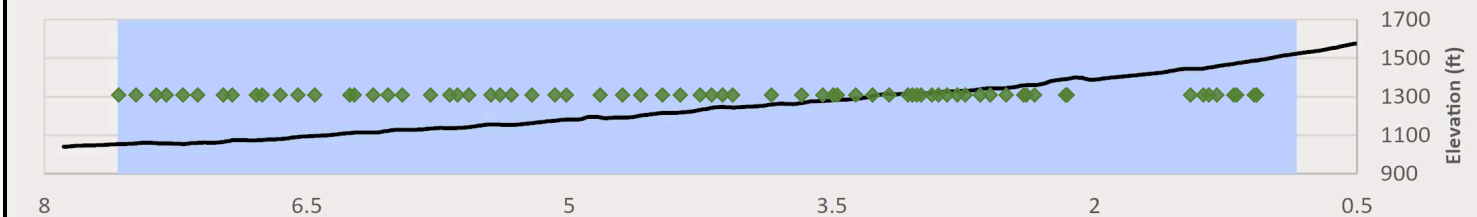
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH E

AVERAGE OVERALL SVAP RATING: **6.2**



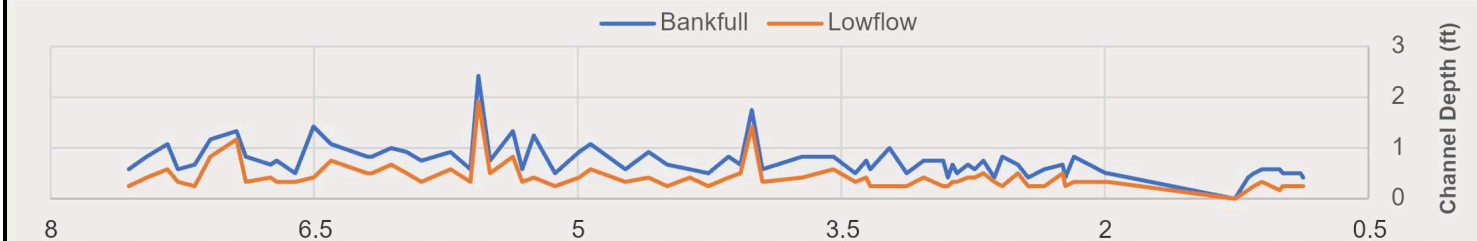
## Elevation Profile

Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay

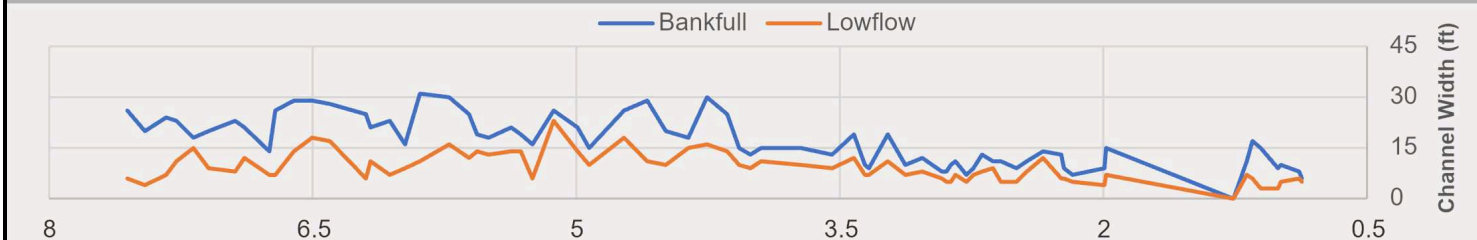


## REACH E

## Channel Depth



## Channel Width



← FLOW DIRECTION

Creek Mile (7.56 at Tailwater, 0.87 at Headwater)

← FLOW DIRECTION

# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH E

### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



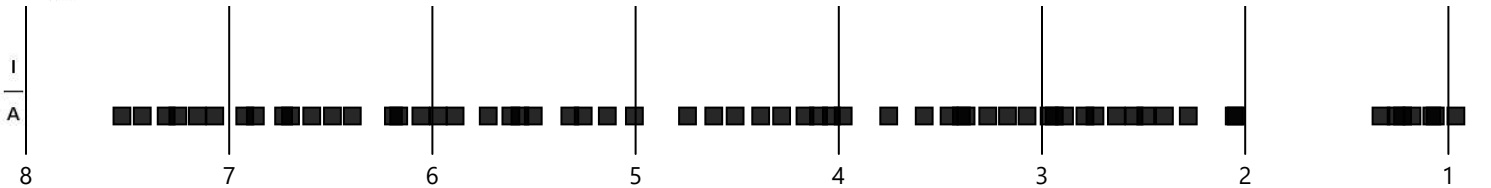
### Stream Bank Hardening

■ No ■ Yes



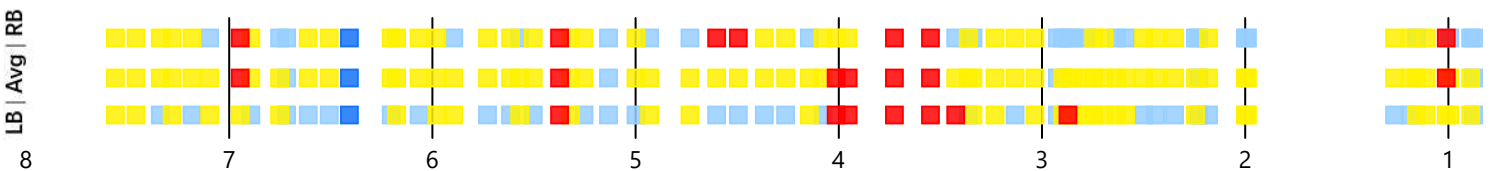
### Aggradation/Incision

■ Aggradation ▲ Incision



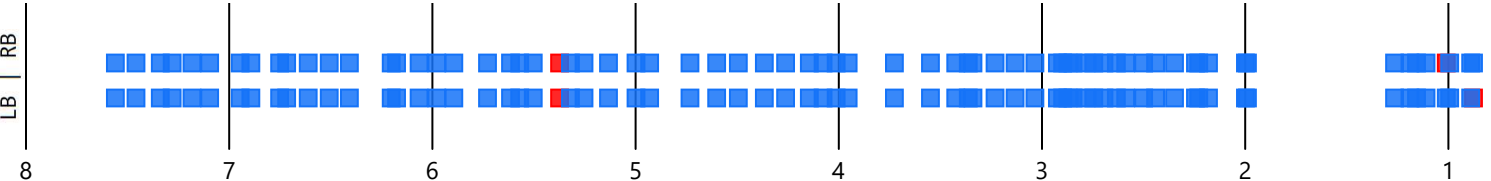
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



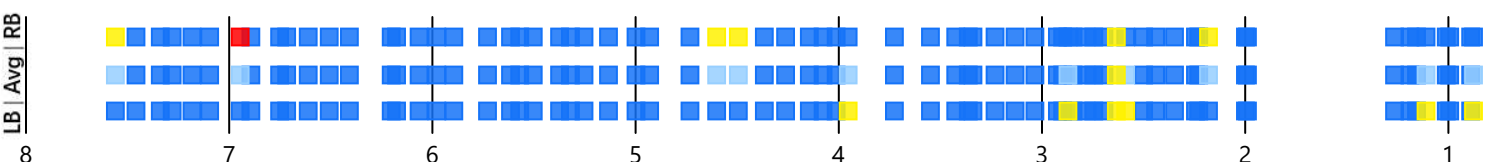
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH E

## Water Appearance

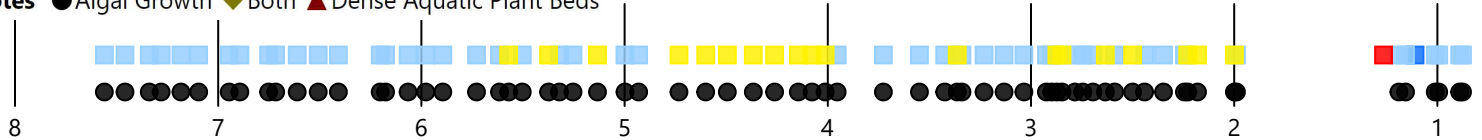
Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate ■ Severe

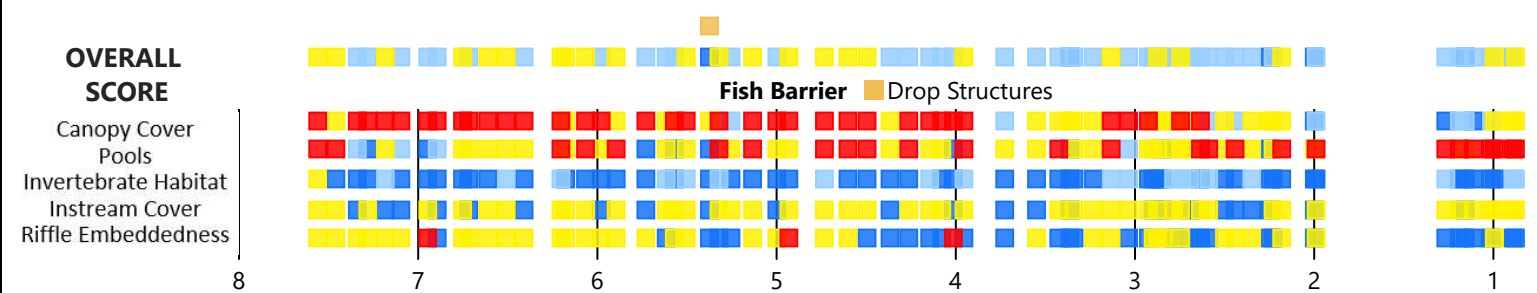
Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

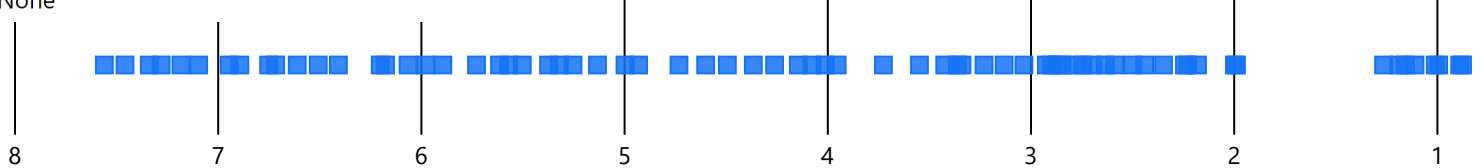
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



## Manure Presence

■ None



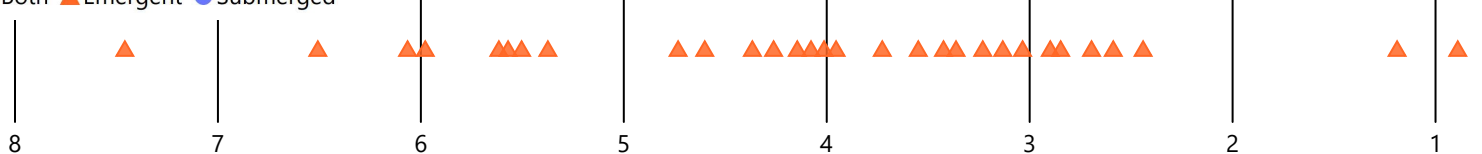
## Invasive Species

▲ Angelica



## Aquatic Vegetation

■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

SPOONER CREEK

Score ■ Excellent ■ Good ■ Mediocre



Creek Mile (7.56 at Tailwater, 0.87 at Headwater)

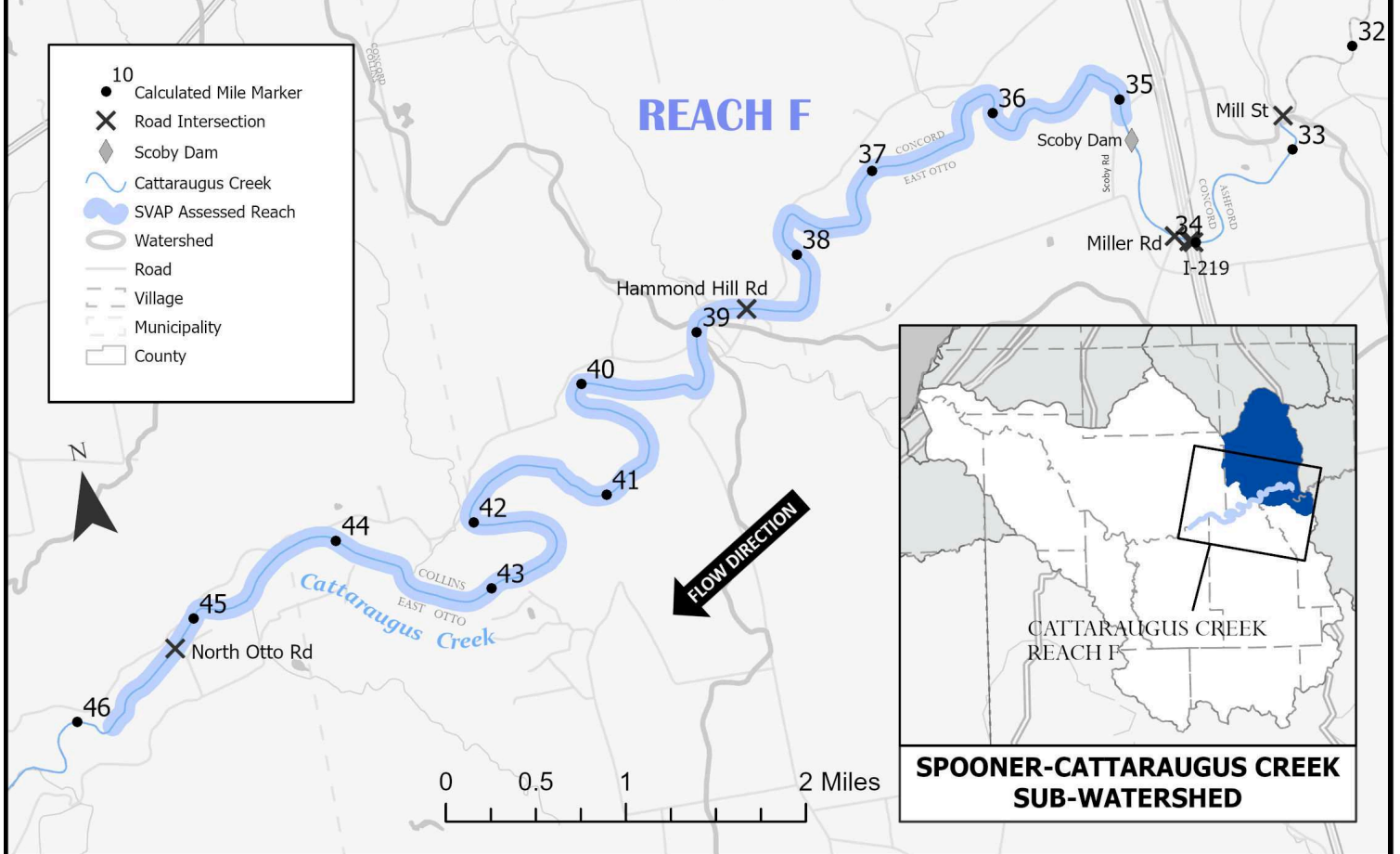




# CATTARAUGUS CREEK

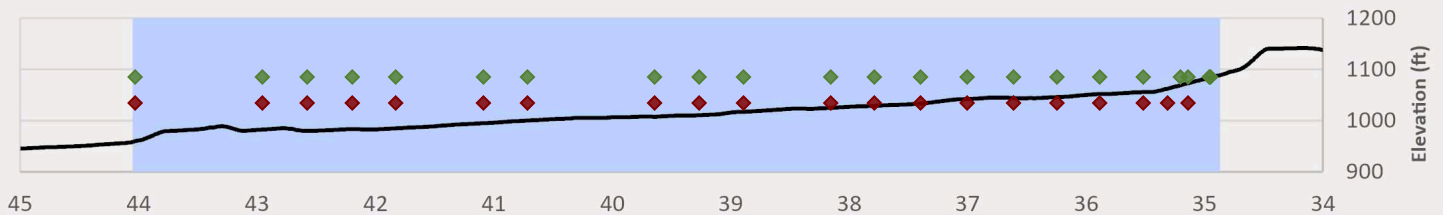
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH F

AVERAGE OVERALL SVAP RATING: **6.1**

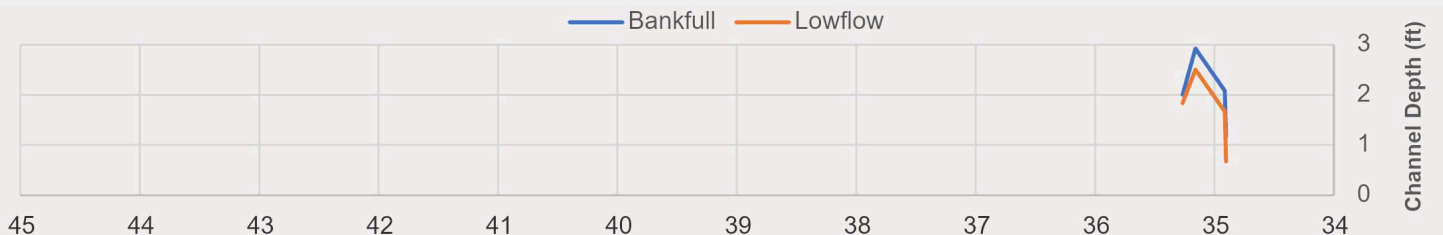


## Elevation Profile

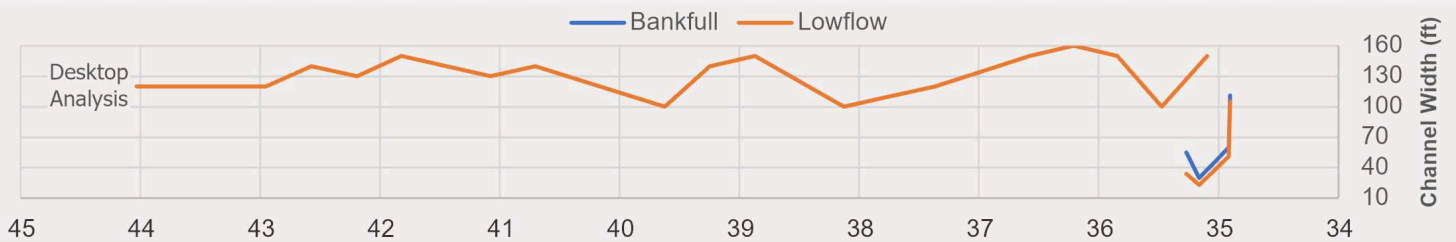
Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



## Channel Depth



## Channel Width



← **FLOW DIRECTION** Creek Mile (44.03 at Tailwater, 34.90 at Headwater) **FLOW DIRECTION** →

# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH F

### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



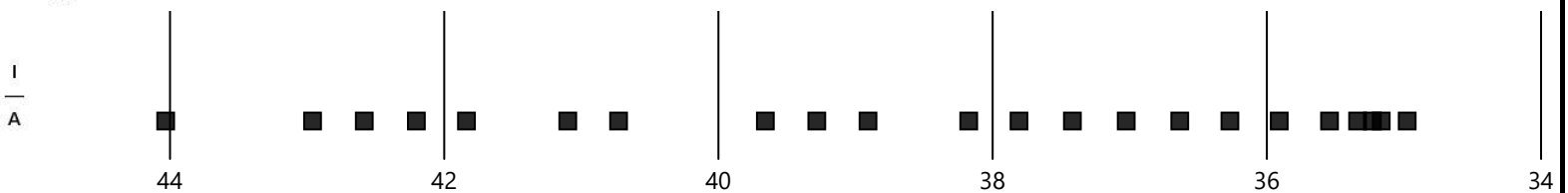
### Stream Bank Hardening

■ No ■ Yes



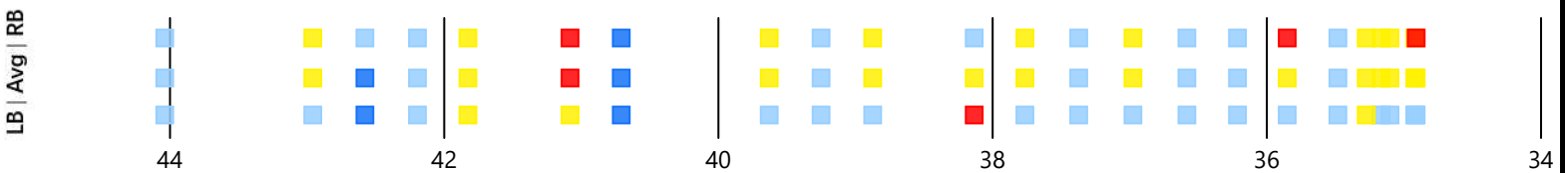
### Aggradation/Incision

■ Aggradation ▲ Incision



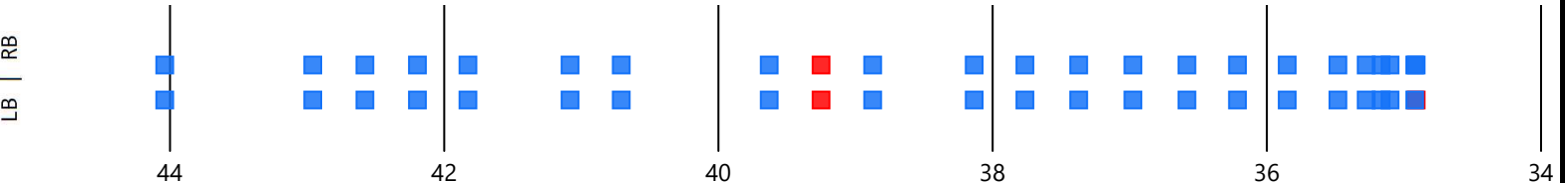
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



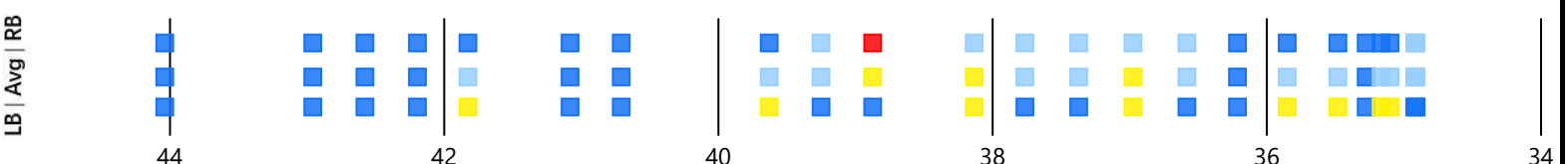
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



← FLOW DIRECTION Creek Mile (44.03 at Tailwater, 34.90 at Headwater) FLOW DIRECTION →

# REACH F

## Water Appearance

**Score** ■ Excellent ■ Mediocre — NO DATA ■ Poor



## Nutrient Enrichment

■ Mild ■ Moderate — NO DATA ■ Severe

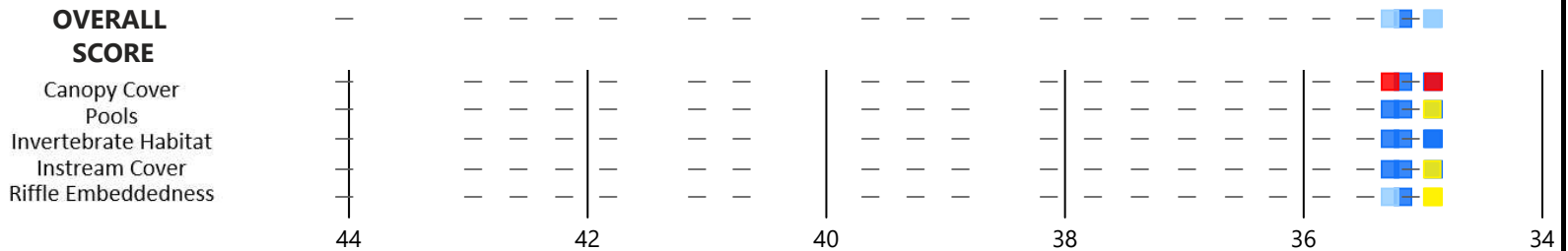
**Notes** ● Algal Growth



## Fish Habitat

**Score** ■ Excellent ■ Good ■ Mediocre ■ Poor

*Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.*



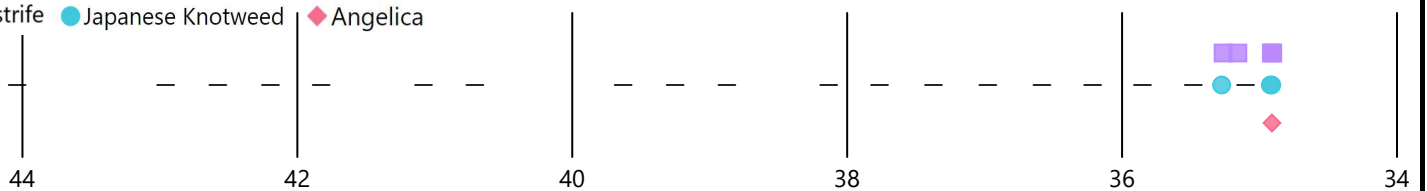
## Manure Presence

■ None



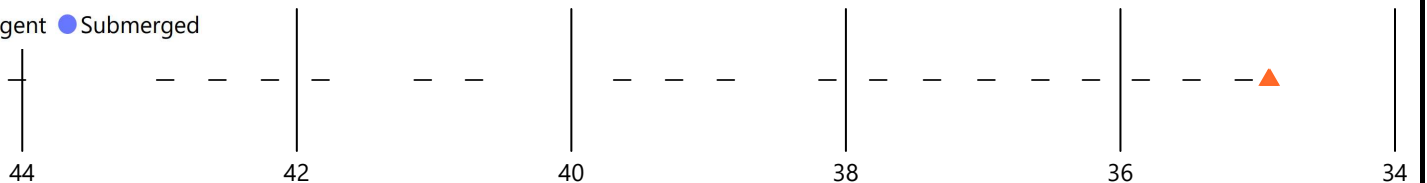
## Invasive Species

■ Purple Loosestrife ■ Japanese Knotweed ◆ Angelica



## Aquatic Vegetation

■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

## CATTARAUGUS CREEK

**Score** ■ Excellent ■ Good ■ Mediocre

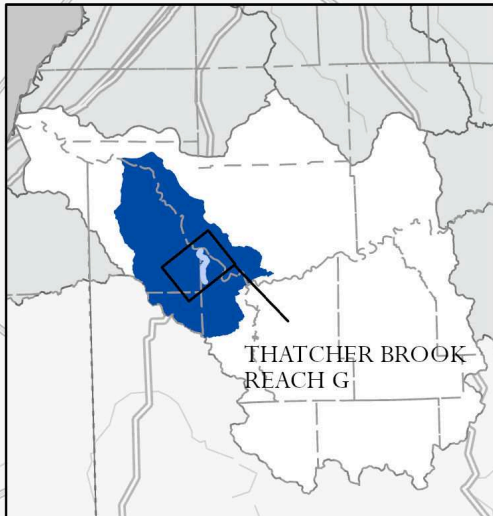


← **FLOW DIRECTION** Creek Mile (44.03 at Tailwater, 34.90 at Headwater) ← **FLOW DIRECTION**

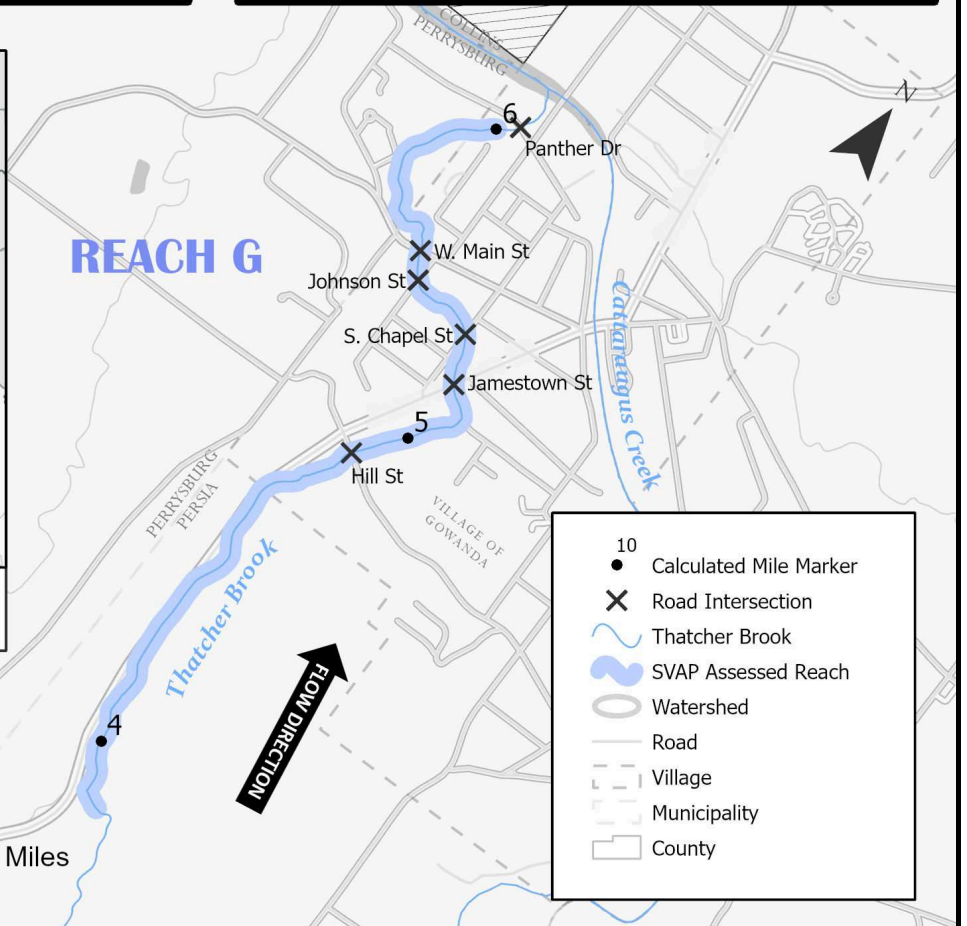
# THATCHER BROOK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH G

AVERAGE OVERALL SVAP RATING: **6.6**



THATCHER BROOK-CATTARAUGUS  
CREEK SUB-WATERSHED



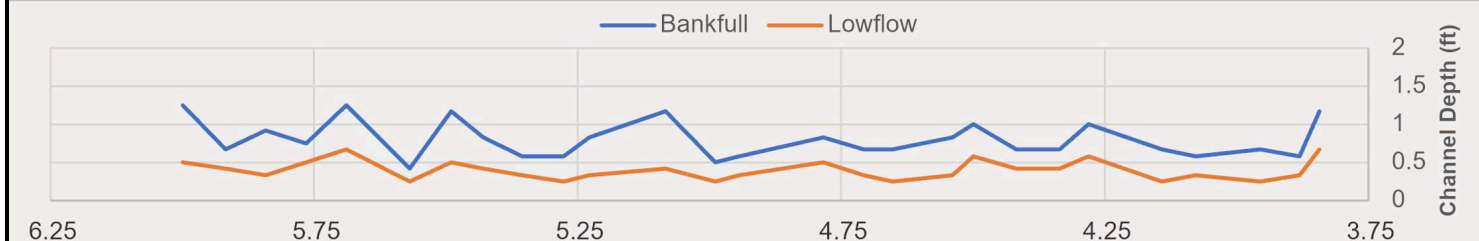
## Elevation Profile

Substrate: ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay

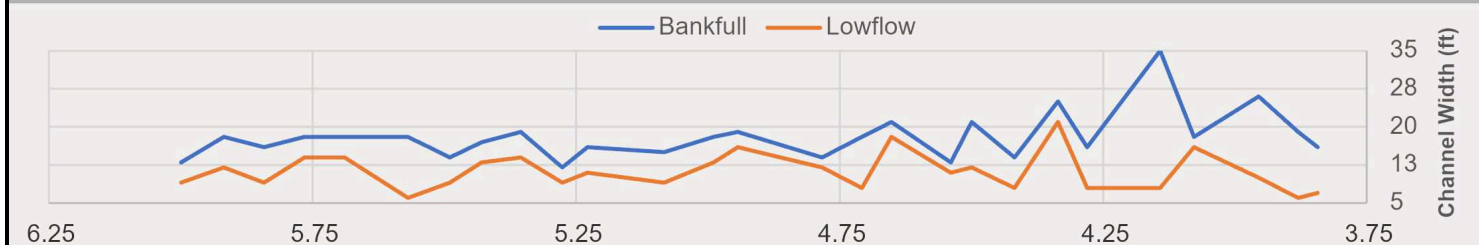


## REACH G

## Channel Depth



## Channel Width



← FLOW DIRECTION

Creek Mile (6.00 at Tailwater, 3.84 at Headwater)

← FLOW DIRECTION



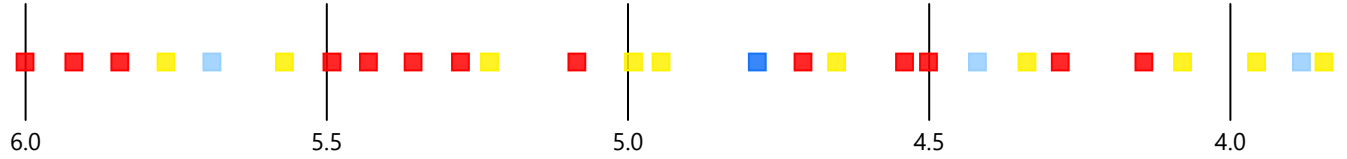
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH G

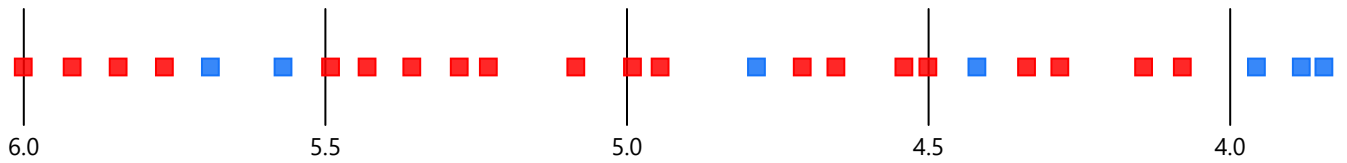
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



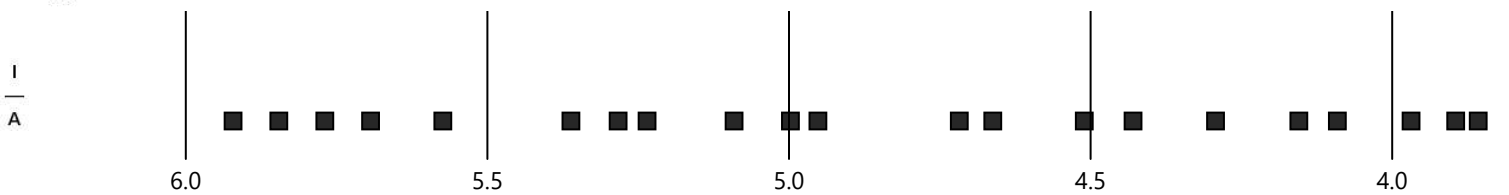
### Stream Bank Hardening

■ No ■ Yes



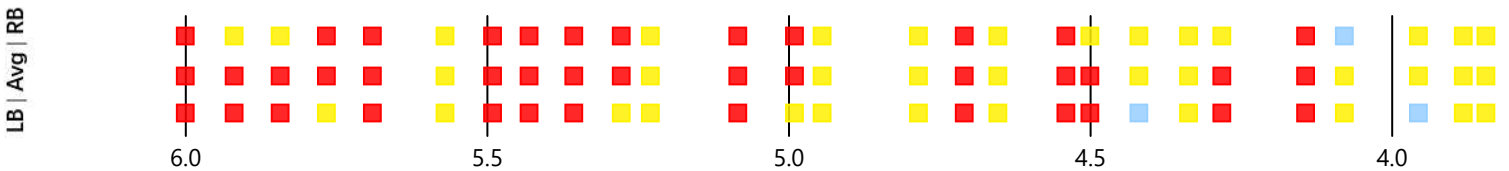
### Aggradation/Incision

■ Aggradation ▲ Incision



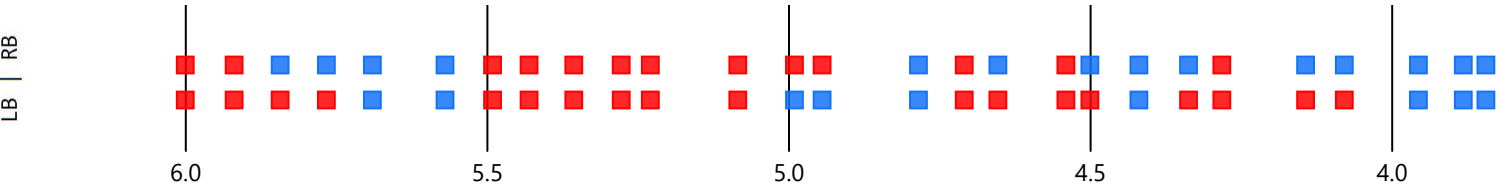
### Bank Stability

Score ■ Mediocre ■ Poor



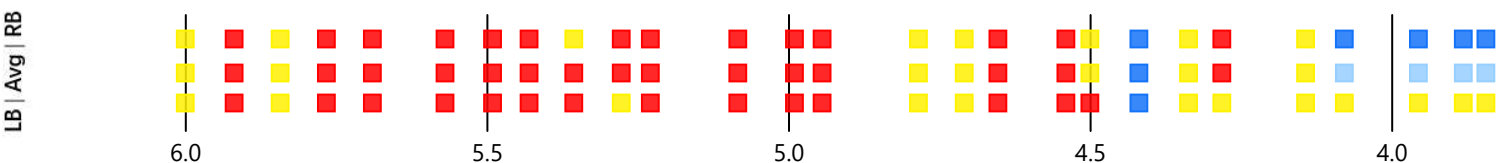
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

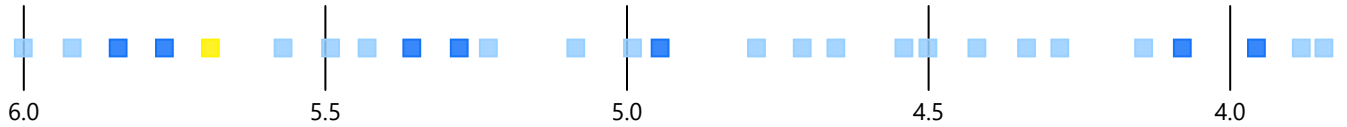
Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH G

## Water Appearance

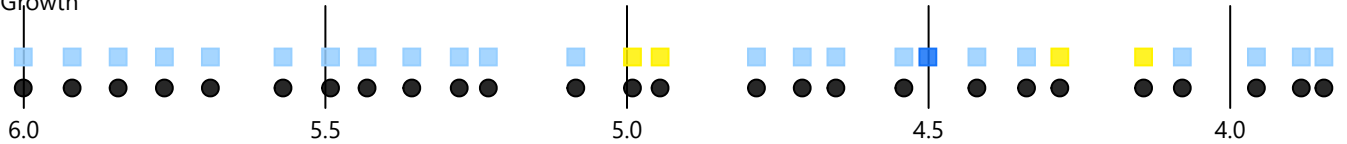
Score ■ Excellent ■ Good ■ Mediocre



## Nutrient Enrichment

Low ■ Mild ■ Moderate ■

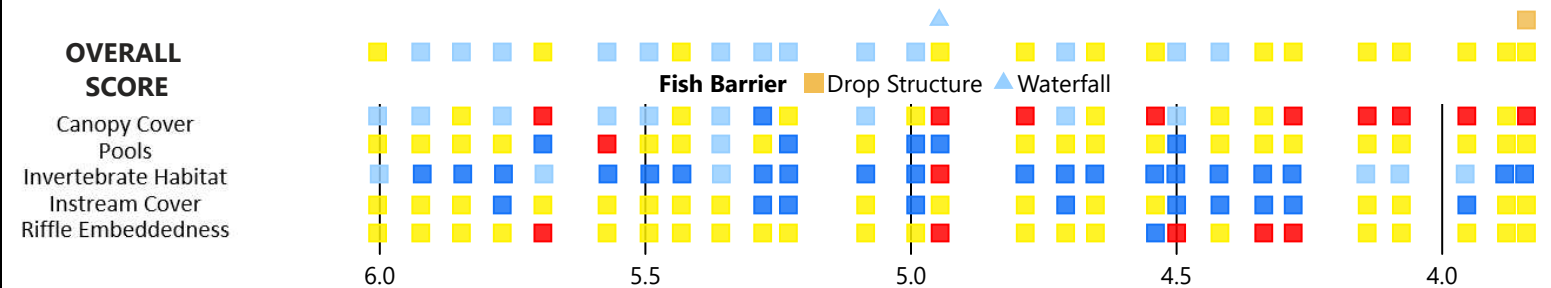
Notes ● Algal Growth



## Fish Habitat

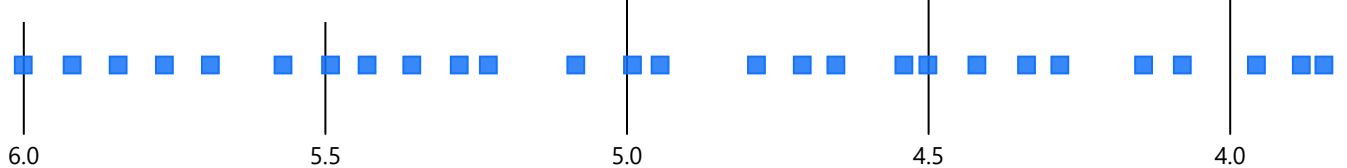
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



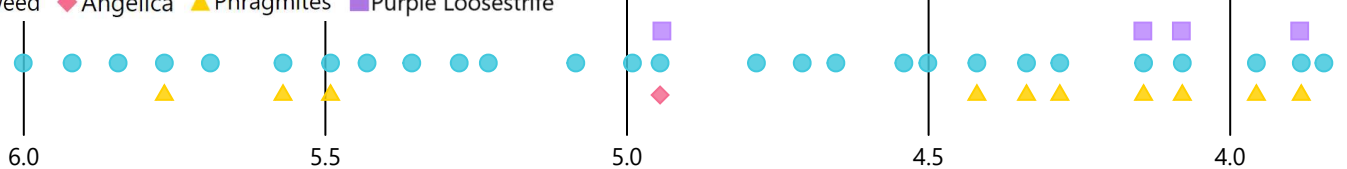
## Manure Presence

■ None



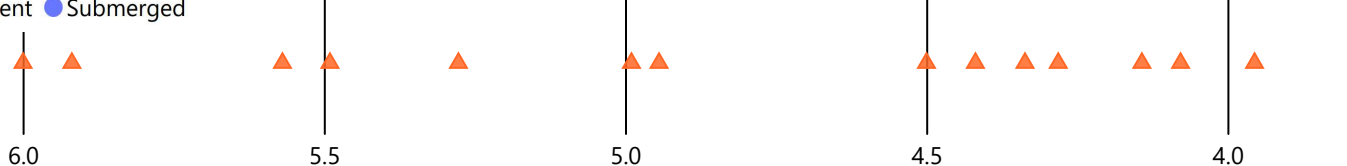
## Knotweed

● Japanese Knotweed ◆ Angelica ▲ Phragmites ■ Purple Loosestrife



## Aquatic Vegetation

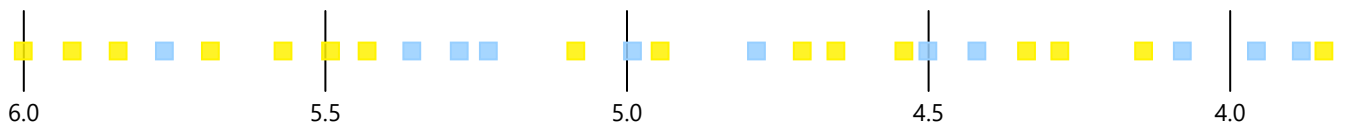
■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

## THATCHER BROOK

Score ■ Good ■ Mediocre



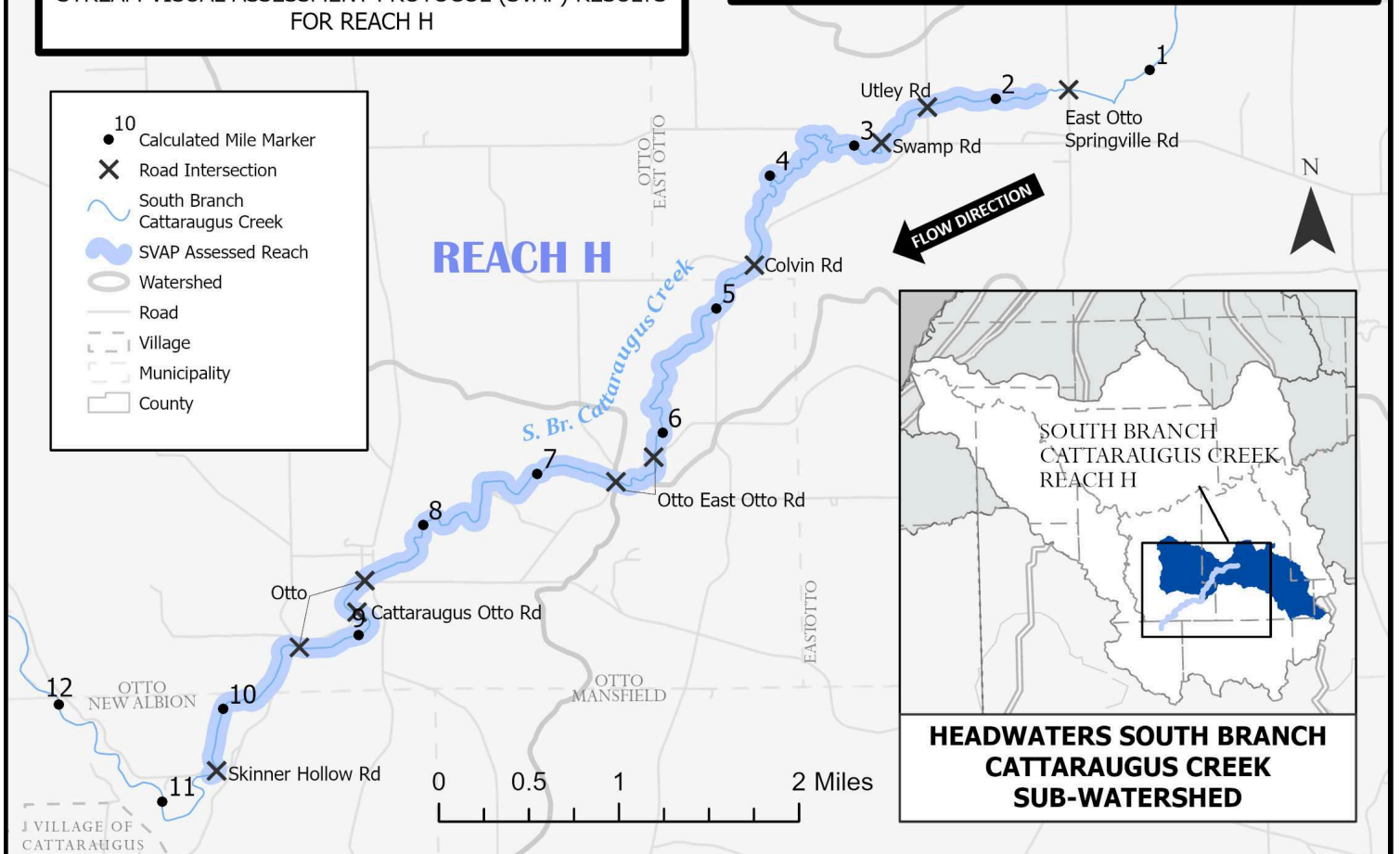
Creek Mile (6.00 at Tailwater, 3.84 at Headwater)



# SOUTH BRANCH CATTARAUGUS CREEK

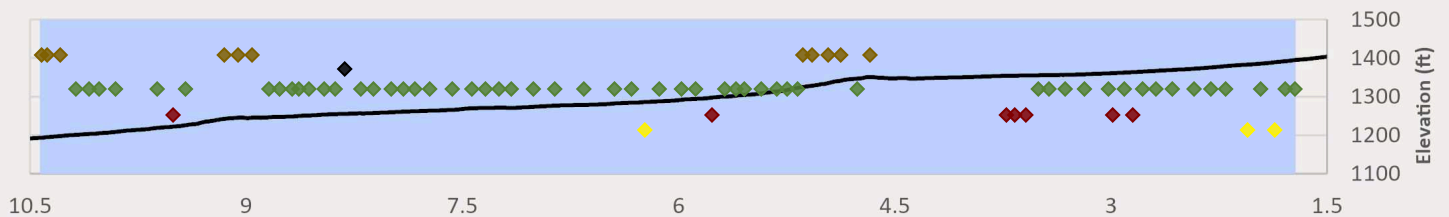
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH H

AVERAGE OVERALL SVAP RATING: **6.4**



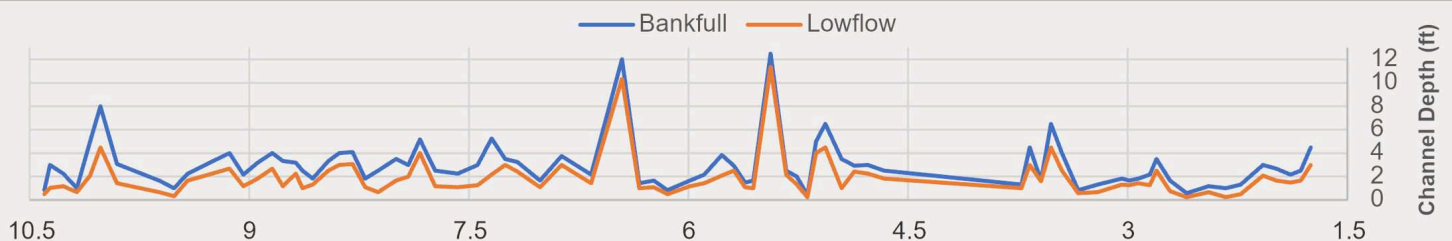
## Elevation Profile

Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



## REACH H

## Channel Depth



## Channel Width



← FLOW DIRECTION

Creek Mile (10.40 at Tailwater, 1.75 at Headwater)

← FLOW DIRECTION

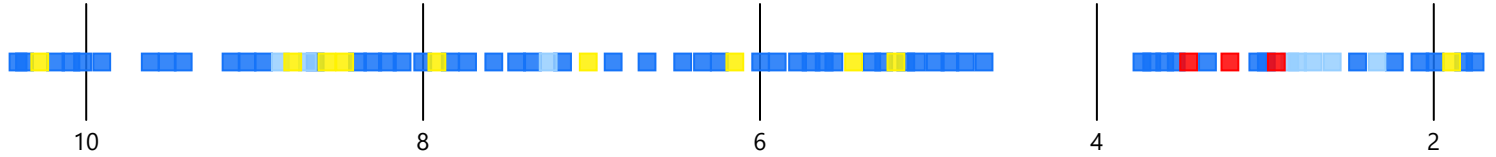
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH H

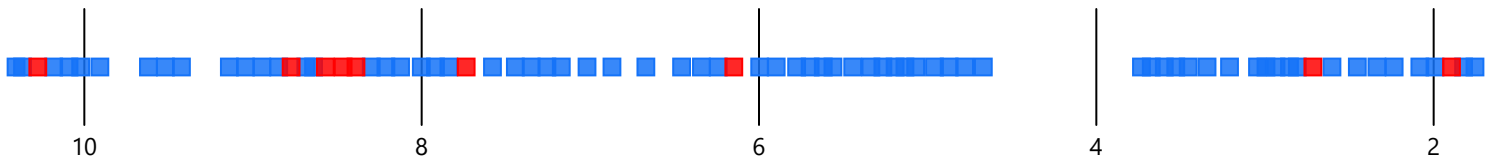
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



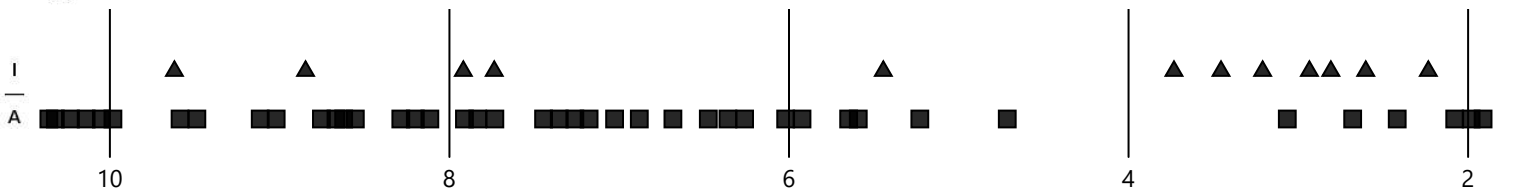
### Stream Bank Hardening

■ No ■ Yes



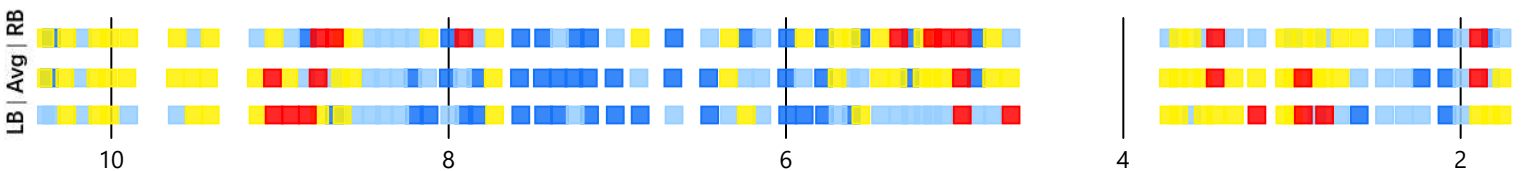
### Aggradation/Incision

■ Aggradation ▲ Incision



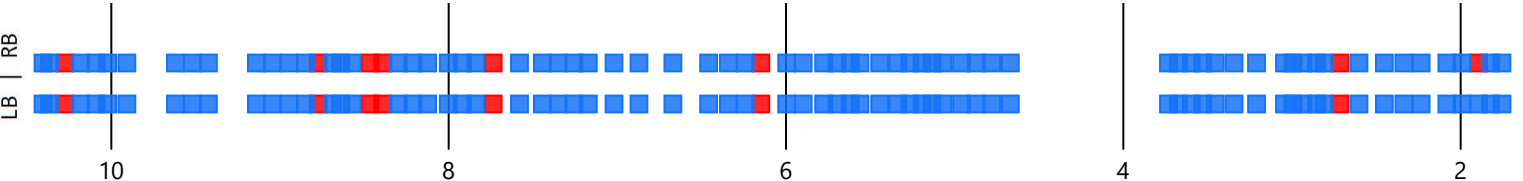
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



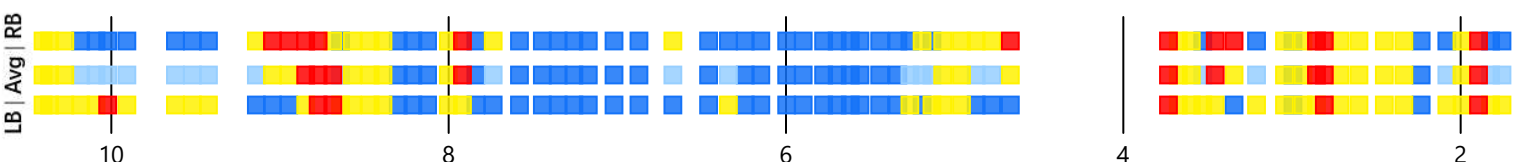
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

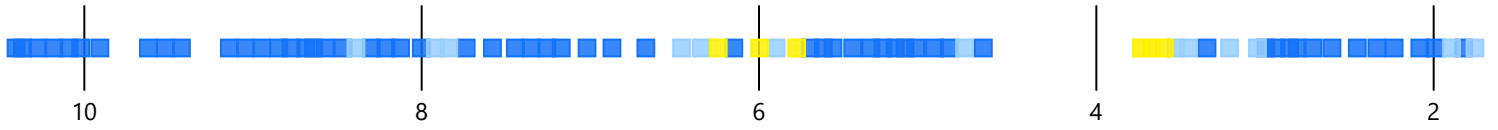




# REACH H

## Water Appearance

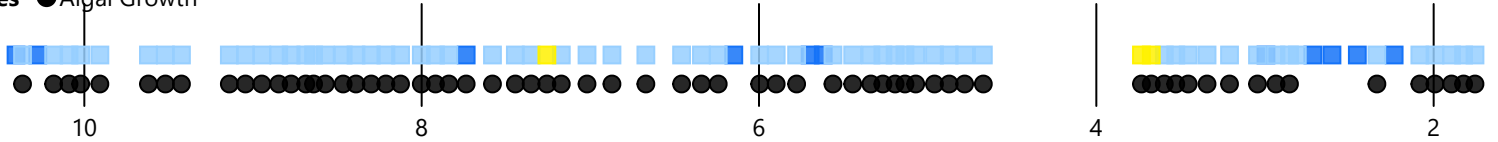
Score ■ Excellent ■ Good ■ Mediocre



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate

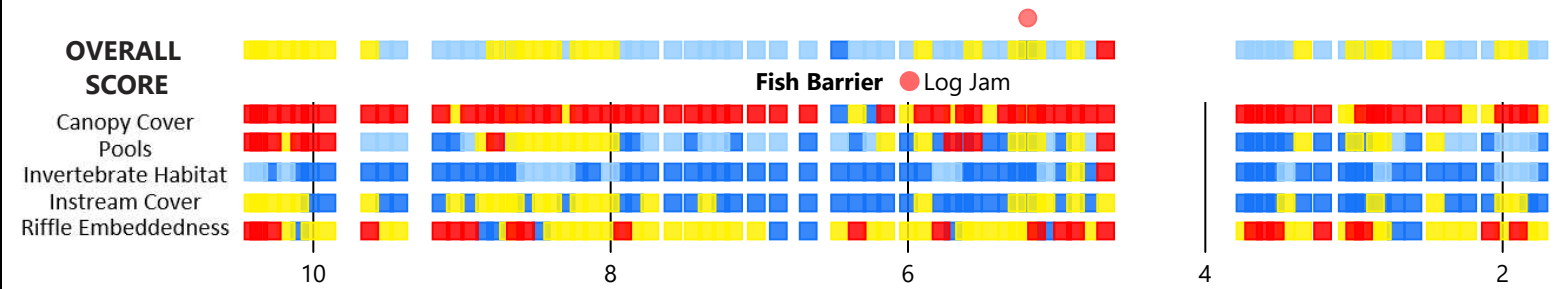
Notes ● Algal Growth



## Fish Habitat

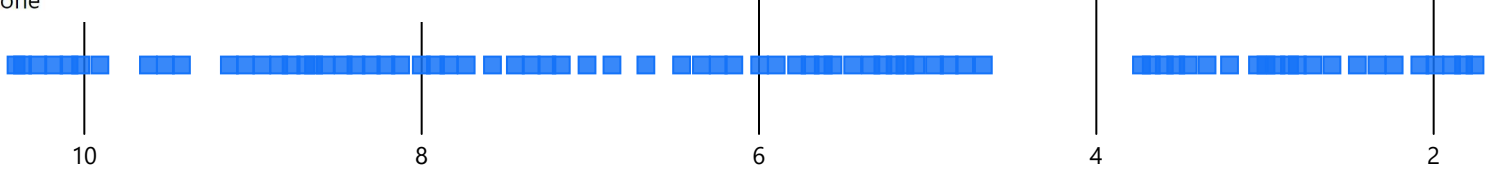
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



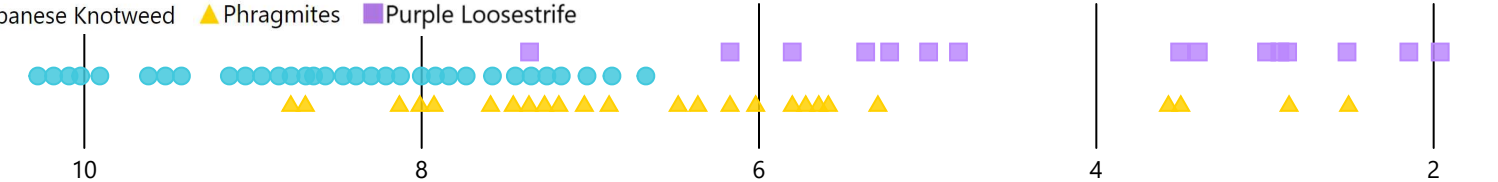
## Manure Presence

■ None



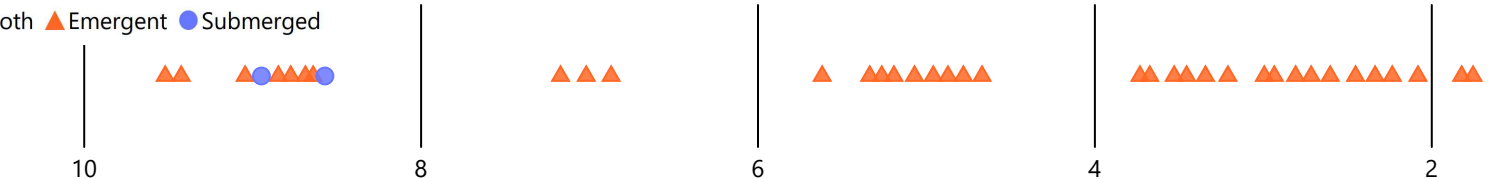
## Japanese Knotweed

● Japanese Knotweed ▲ Phragmites ■ Purple Loosestrife



## Aquatic Vegetation

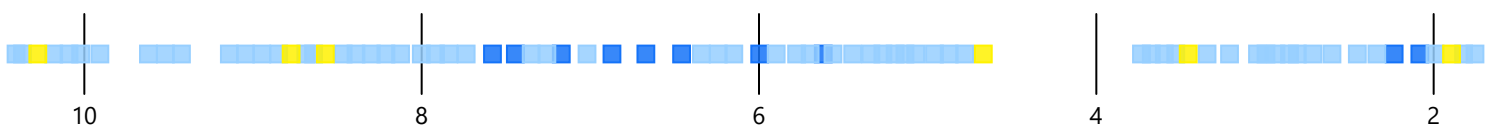
■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

## SOUTH BRANCH CATTARAUGUS CREEK

Score ■ Excellent ■ Good ■ Mediocre

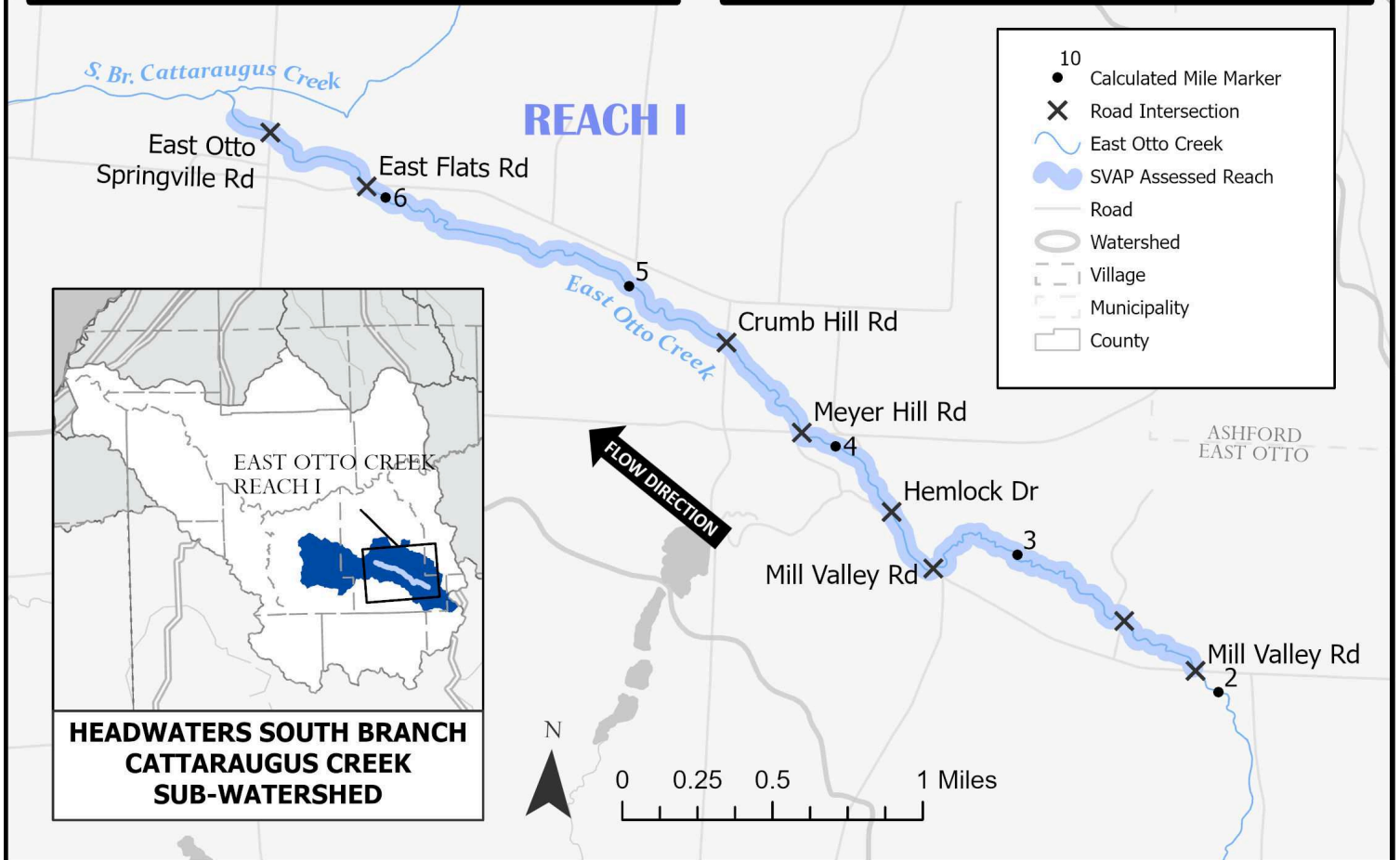


← FLOW DIRECTION Creek Mile (10.40 at Tailwater, 1.75 at Headwater) FLOW DIRECTION →

# EAST OTTO CREEK

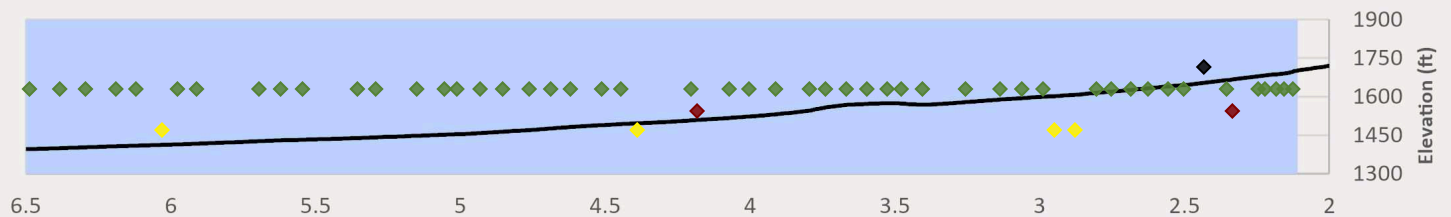
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH I

AVERAGE OVERALL SVAP RATING: **6.2**



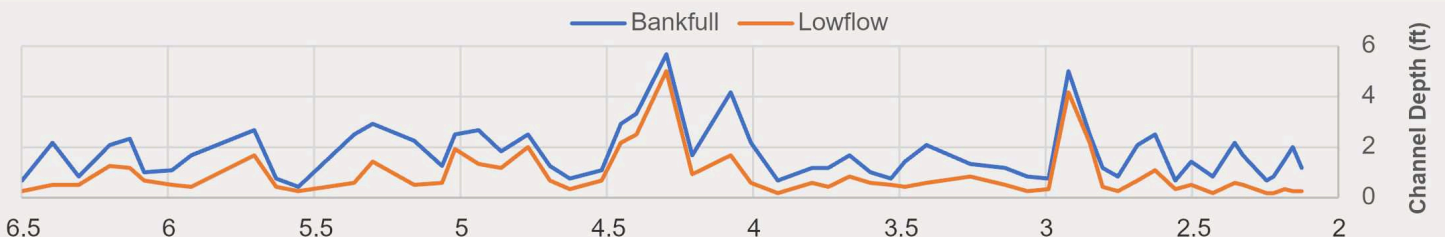
## Elevation Profile

Substrate ◆ Bedrock ◆ Boulder ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



## REACH I

## Channel Depth



## Channel Width



← FLOW DIRECTION

Creek Mile (6.50 at Tailwater, 2.13 at Headwater)

← FLOW DIRECTION

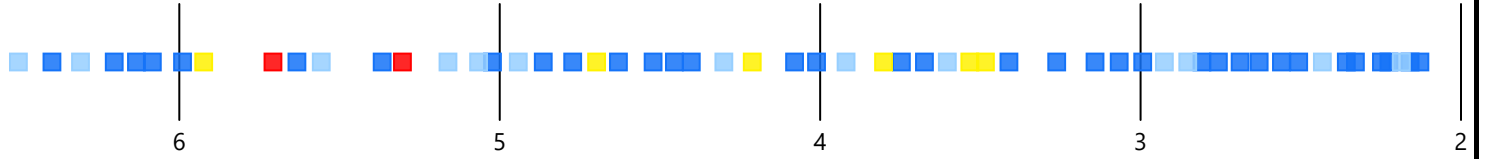
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH I

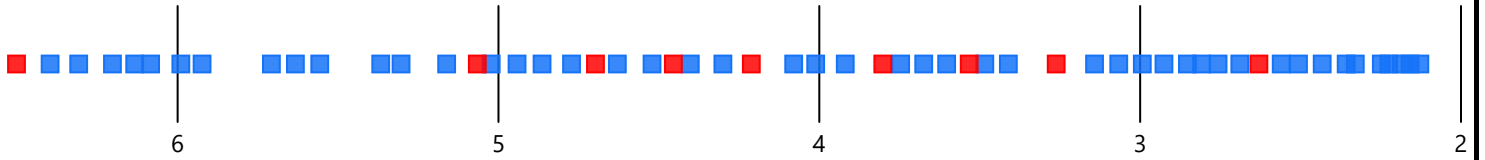
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



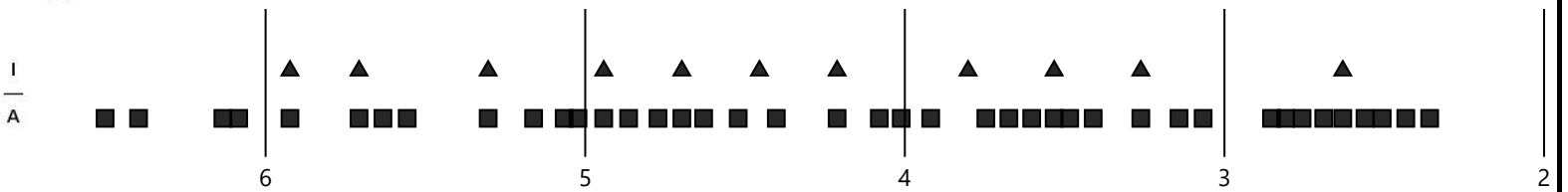
### Stream Bank Hardening

■ No ■ Yes



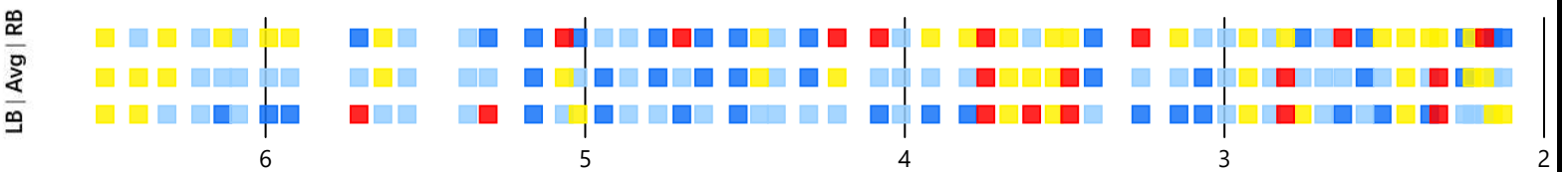
### Aggradation/Incision

■ Aggradation ▲ Incision



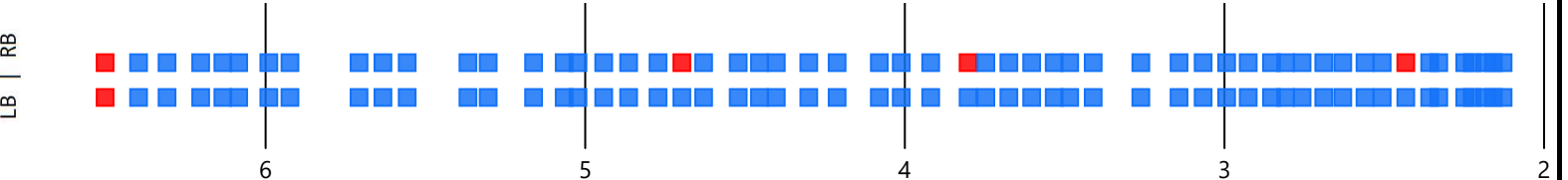
### Bank Stability

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



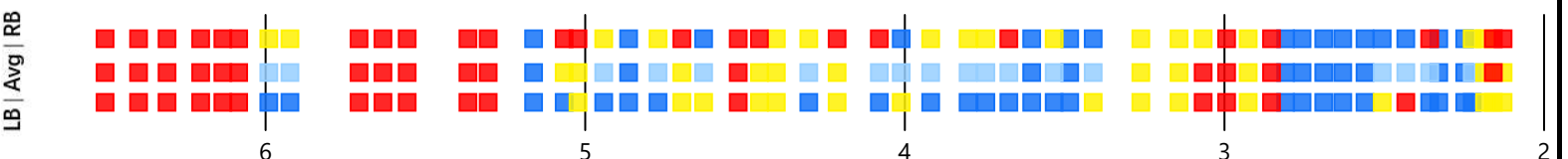
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH I

## Water Appearance

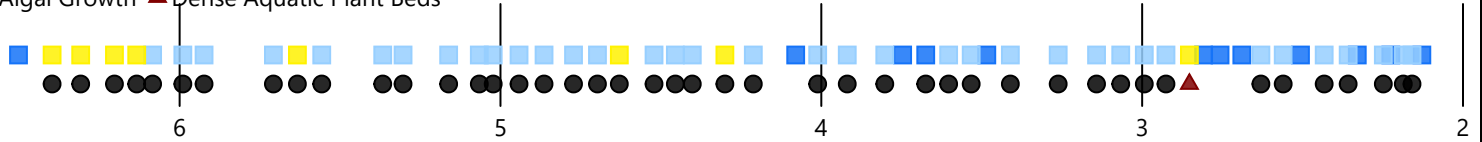
**Score** ■ Excellent ■ Good ■ Mediocre



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate

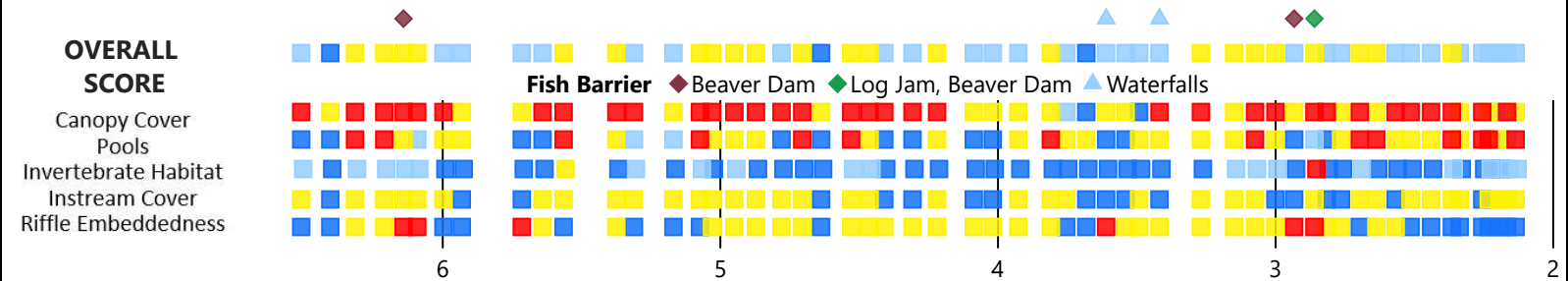
**Notes** ● Algal Growth ▲ Dense Aquatic Plant Beds



## Fish Habitat

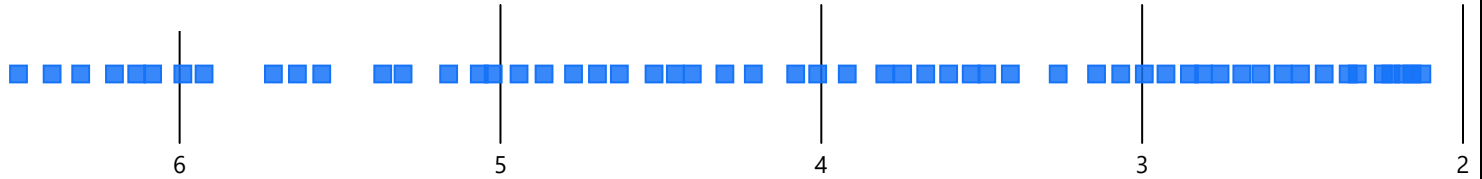
**Score** ■ Excellent ■ Good ■ Mediocre ■ Poor

*Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.*



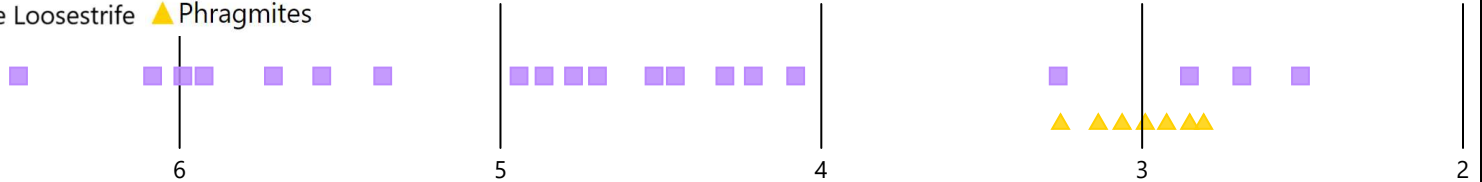
## Manure Presence

■ None



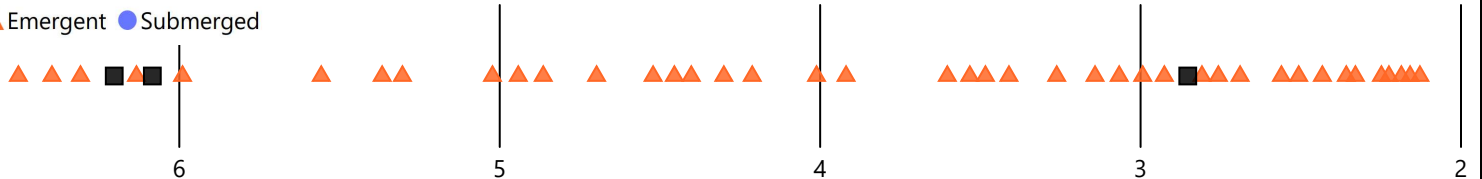
## Invasive Species

■ Purple Loosestrife ▲ Phragmites



## Aquatic Vegetation

■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

EAST OTTO CREEK

**Score** ■ Excellent ■ Good ■ Mediocre



← FLOW DIRECTION

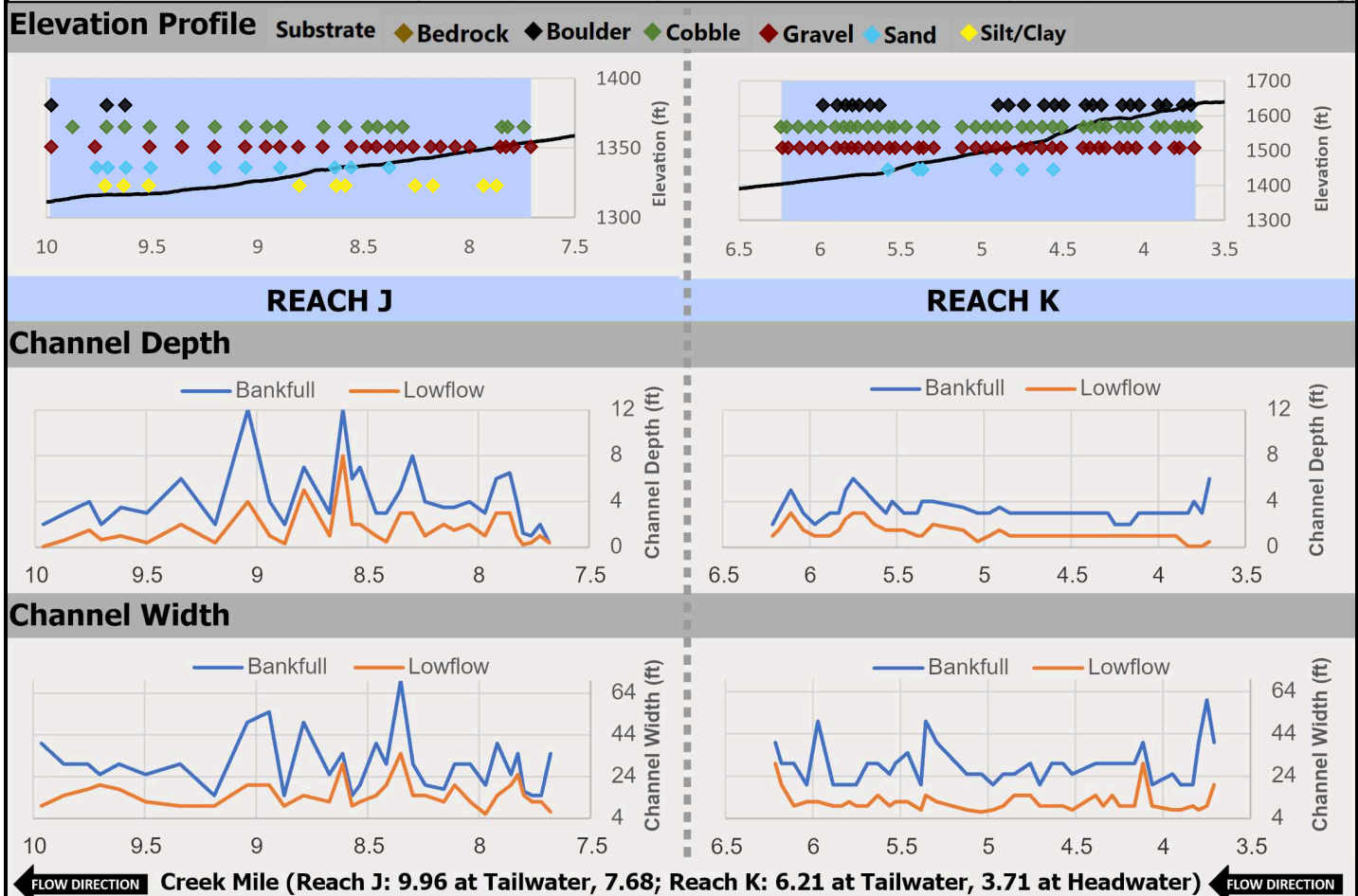
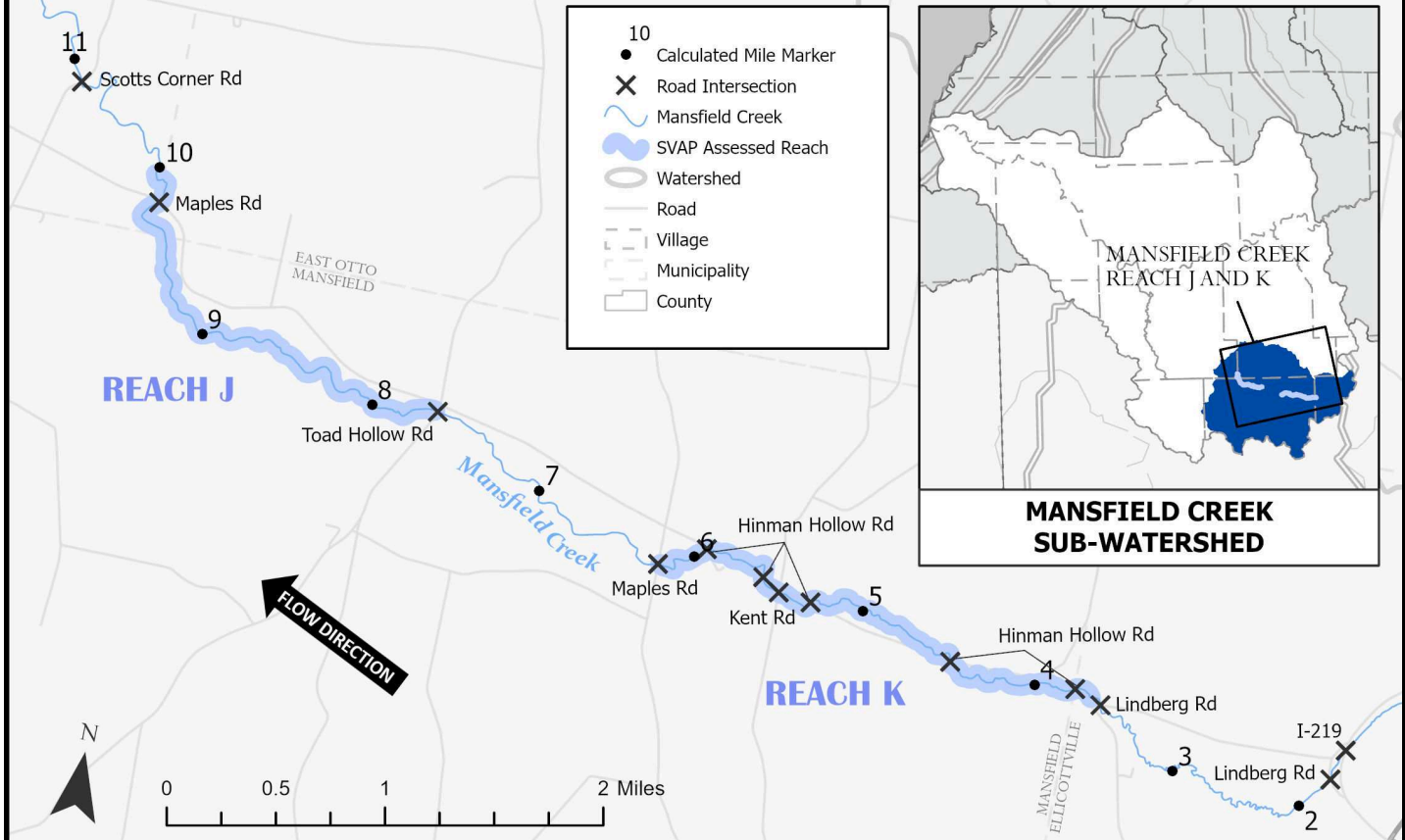
Creek Mile (6.50 at Tailwater, 2.13 at Headwater)

← FLOW DIRECTION

# MANSFIELD CREEK

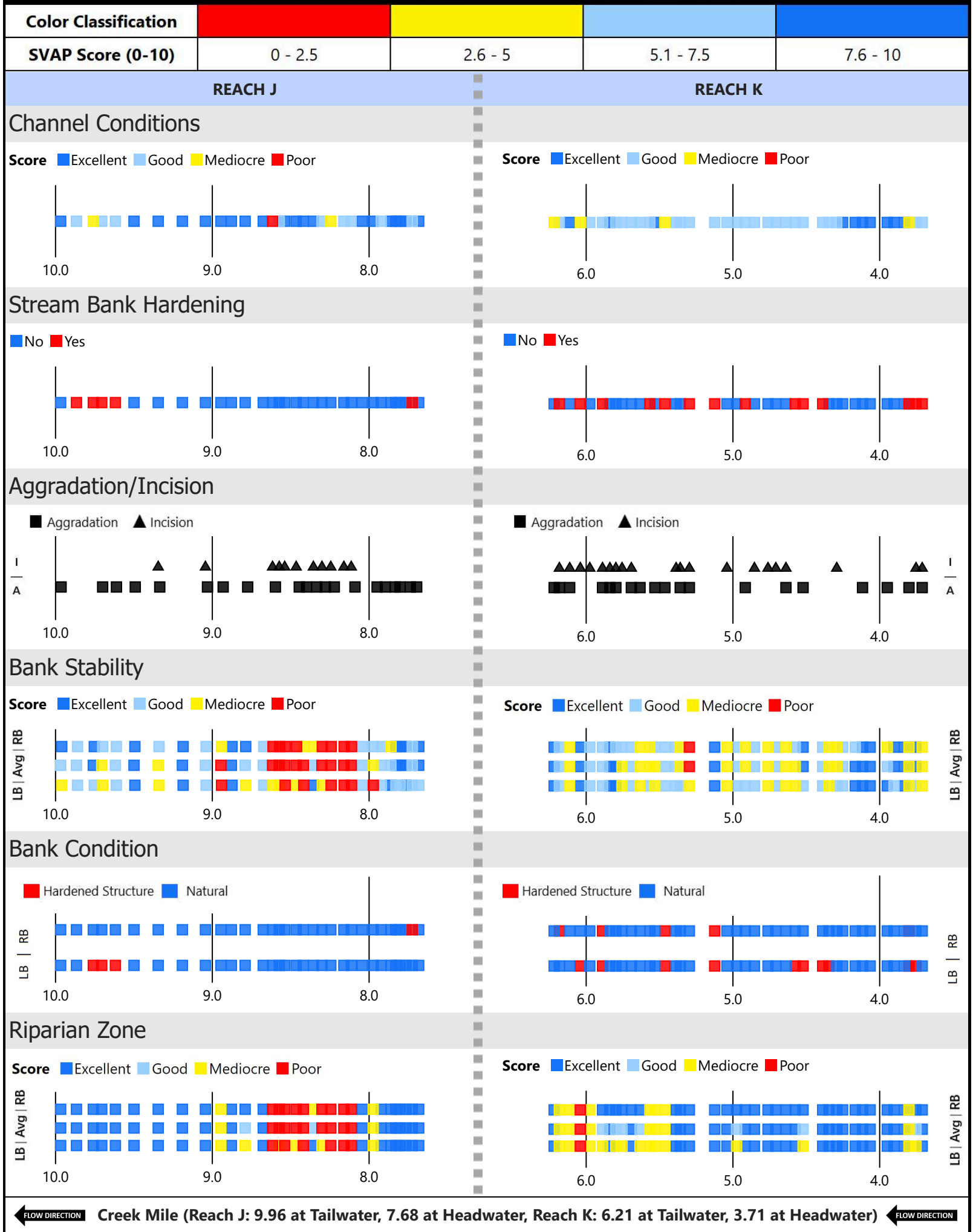
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH J & K

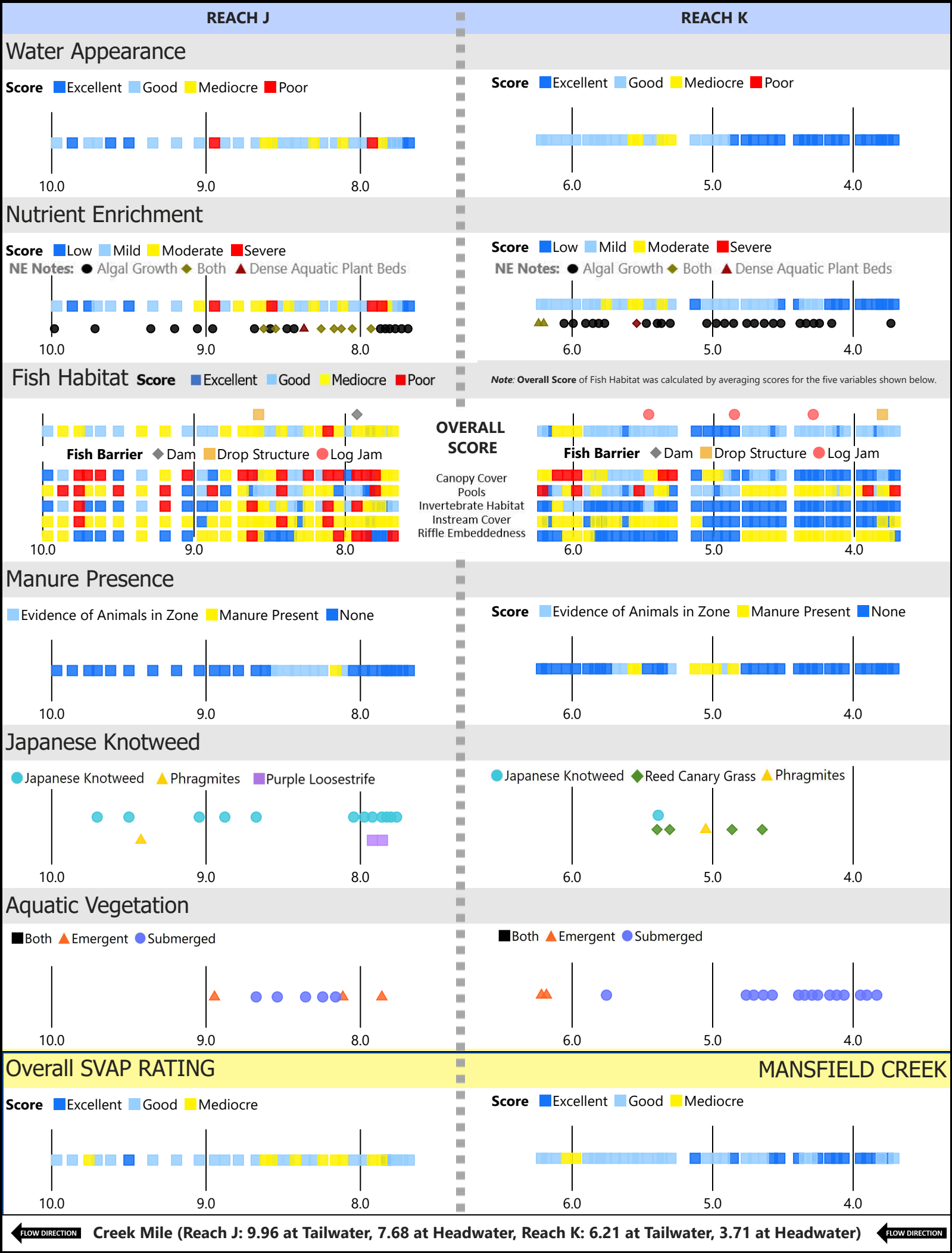
AVERAGE OVERALL SVAP RATING: **6.5**





# Classification Scheme for SVAP Parameters





← FLOW DIRECTION

Creek Mile (Reach J: 9.96 at Tailwater, 7.68 at Headwater, Reach K: 6.21 at Tailwater, 3.71 at Headwater)

← FLOW DIRECTION



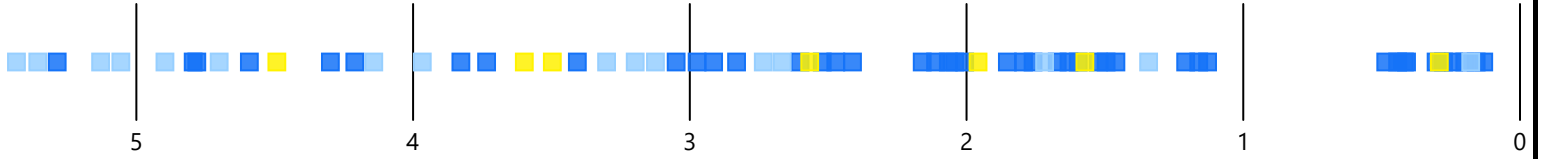
# Classification Scheme for SVAP Parameters

| Color Classification |         |         |           |          |
|----------------------|---------|---------|-----------|----------|
| SVAP Score (0-10)    | 0 - 2.5 | 2.6 - 5 | 5.1 - 7.5 | 7.6 - 10 |

## REACH L

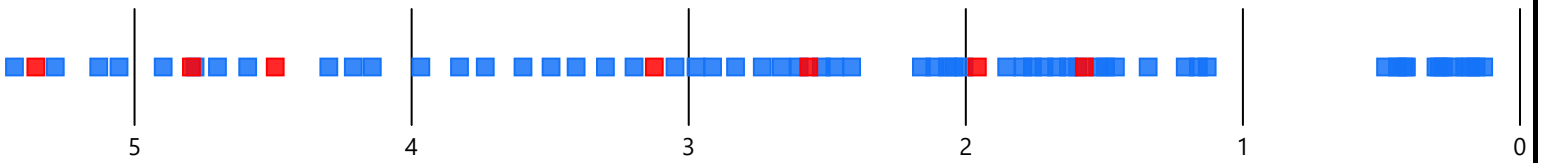
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



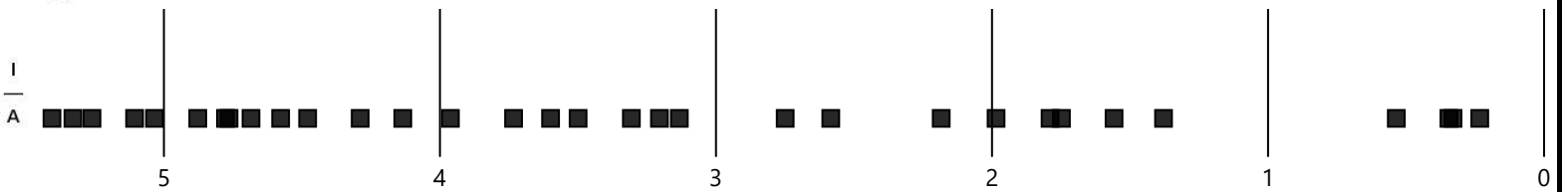
### Stream Bank Hardening

■ No ■ Yes



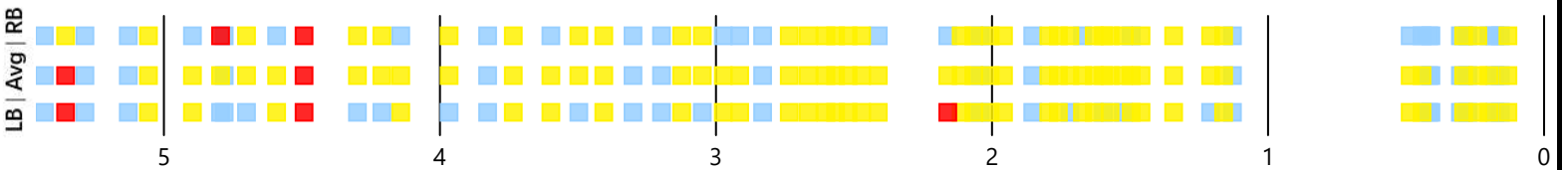
### Aggradation/Incision

■ Aggradation ▲ Incision



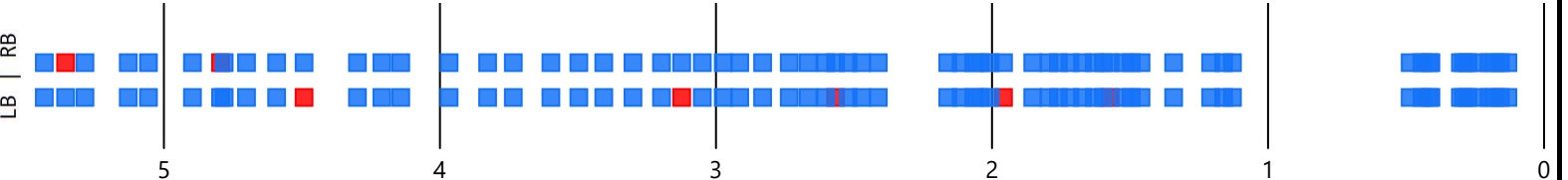
### Bank Stability

Score ■ Good ■ Mediocre ■ Poor



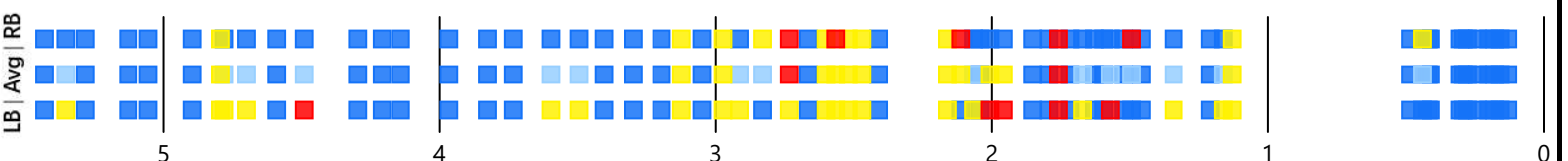
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



# REACH L

## Water Appearance

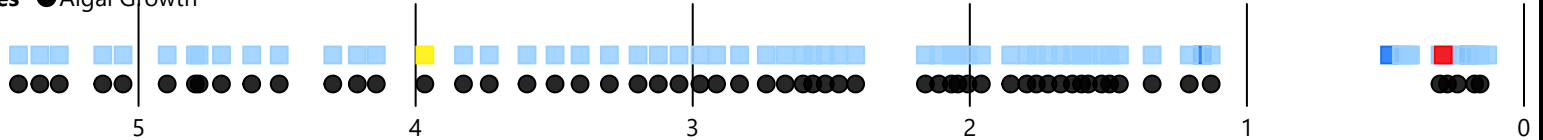
Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

■ Low ■ Mild ■ Moderate ■ Severe

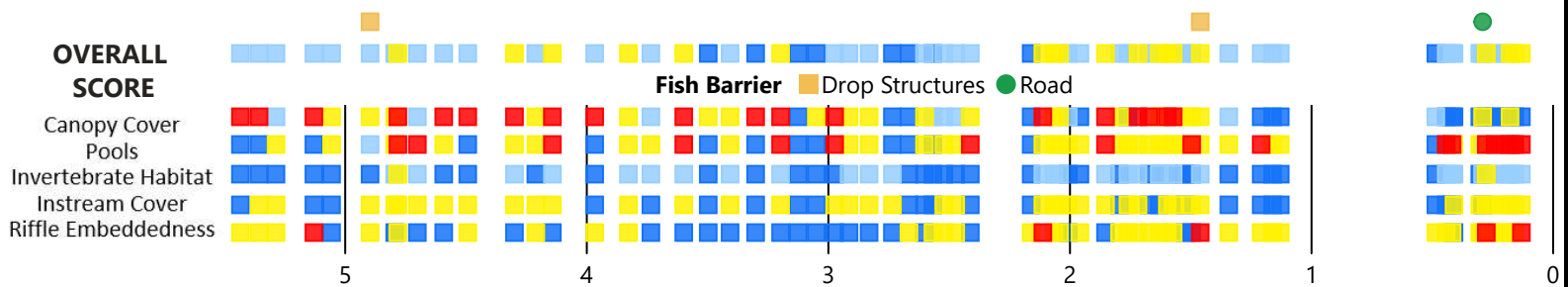
Notes ● Algal Growth



## Fish Habitat

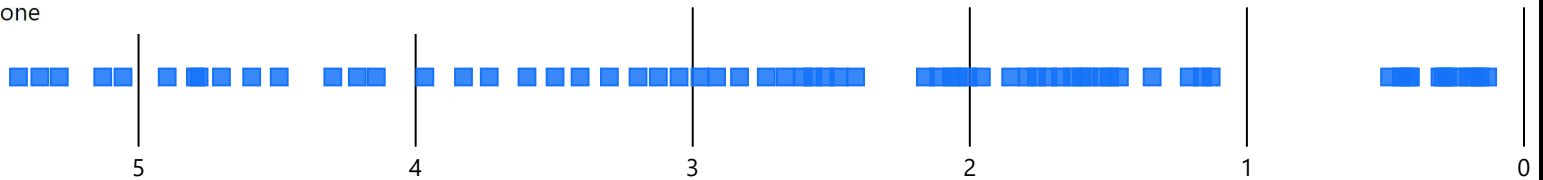
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



## Manure Presence

■ None



## Invasive Species

▲ Phragmites ■ Purple Loosestrife



## Aquatic Vegetation

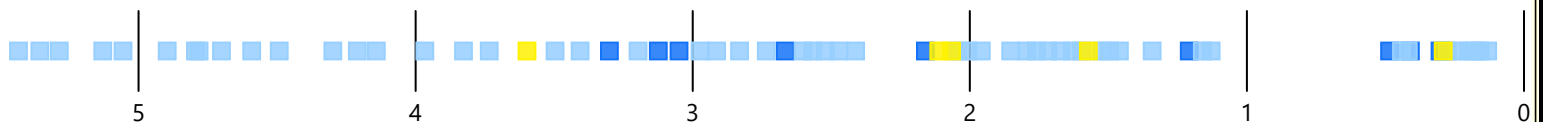
■ Both ▲ Emergent ● Submerged



## OVERALL SVAP RATING

CONNOISARAULEY CREEK

Score ■ Excellent ■ Good ■ Mediocre



Creek Mile (5.43 at Tailwater, 0.13 at Headwater)

