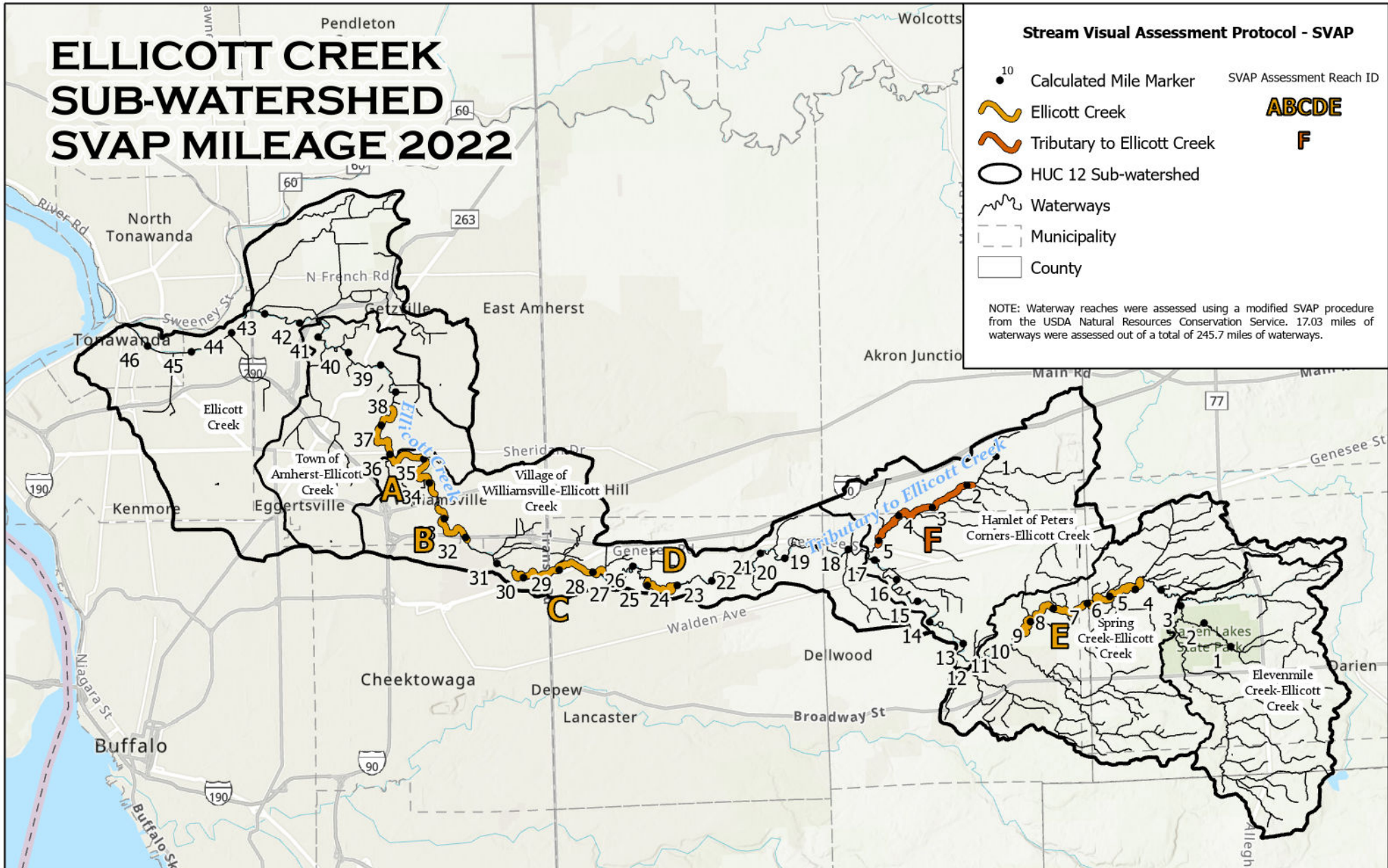


# ELLICOTT CREEK SUB-WATERSHED SVAP MILEAGE 2022

## Stream Visual Assessment Protocol - SVAP

- 10 Calculated Mile Marker
- SVAP Assessment Reach ID
- ABCDE**
- F**
- Ellicott Creek
- Tributary to Ellicott Creek
- HUC 12 Sub-watershed
- Waterways
- Municipality
- County

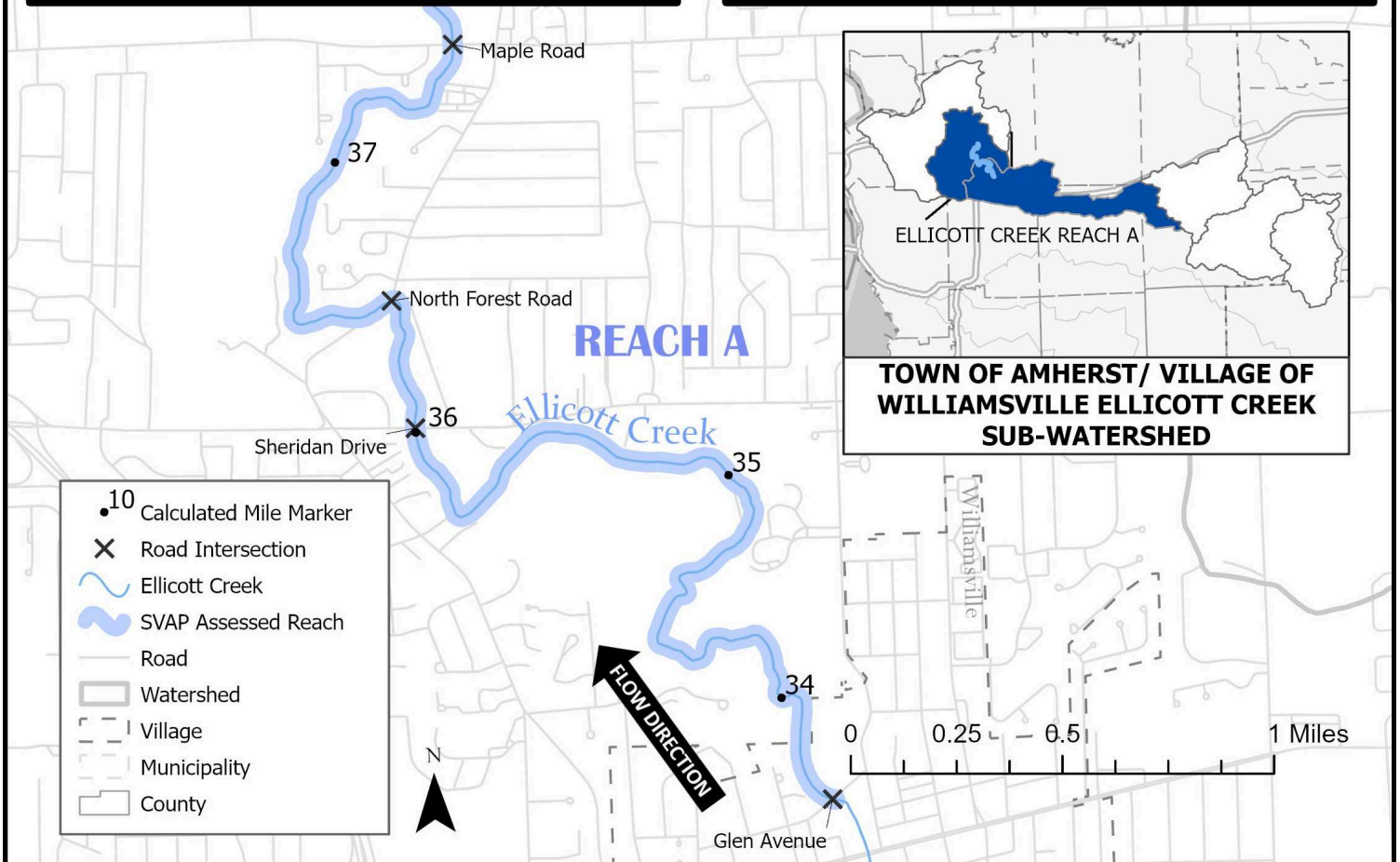
NOTE: Waterway reaches were assessed using a modified SVAP procedure from the USDA Natural Resources Conservation Service. 17.03 miles of waterways were assessed out of a total of 245.7 miles of waterways.



# ELLICOTT CREEK

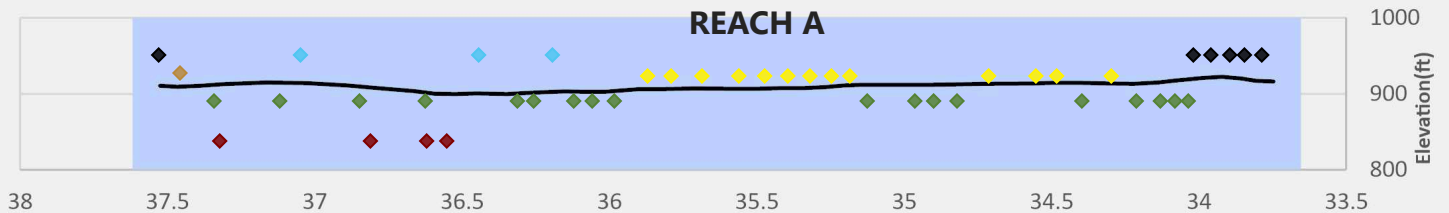
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH A

AVERAGE OVERALL SVAP RATING: **6.2**



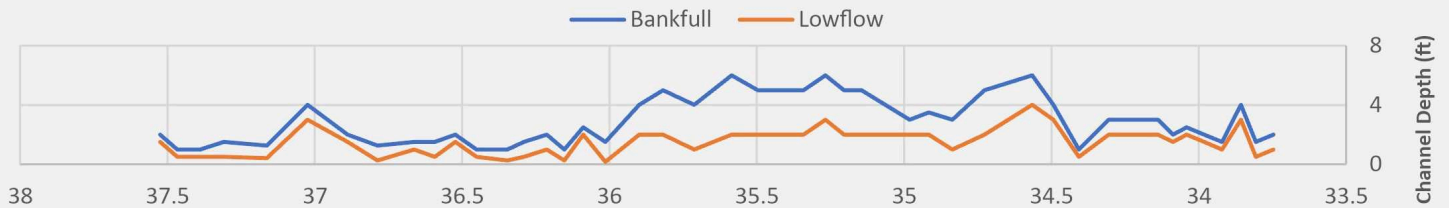
## Elevation Profile

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

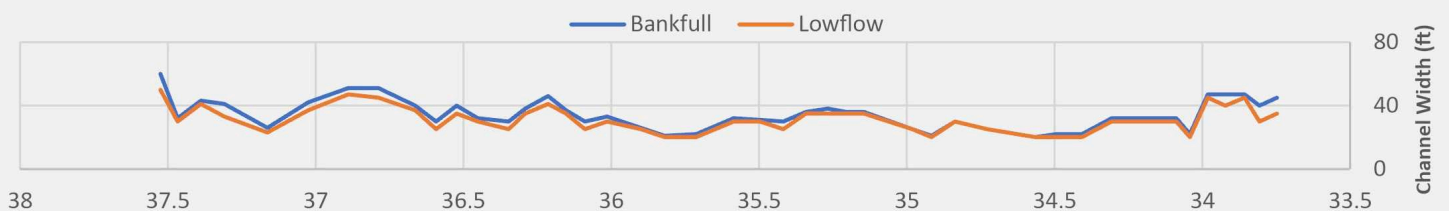


## REACH A

## Channel Depth



## Channel Width



← **FLOW DIRECTION** Creek Mile (37.53 at Tailwater, 33.75 at Headwater) **FLOW DIRECTION** →

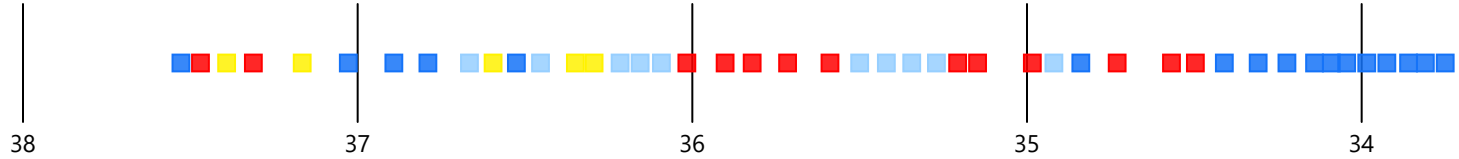
# Classification Scheme for SVAP Parameters

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

## REACH A

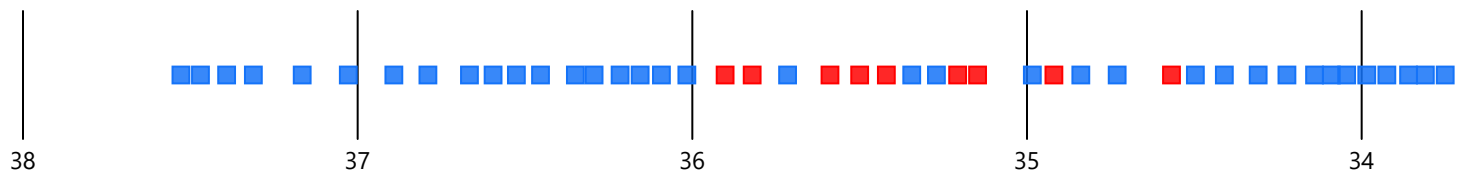
### Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



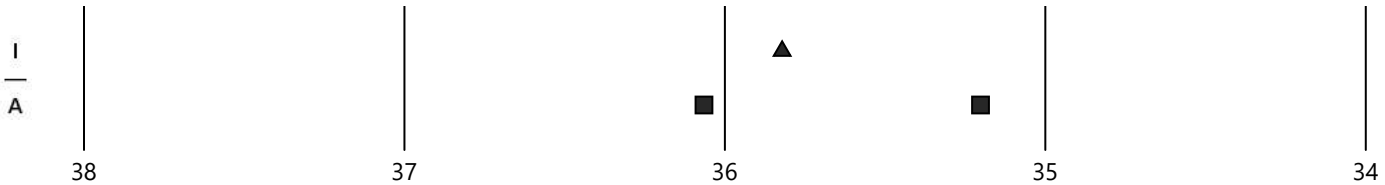
### Stream Bank Hardening

■ No ■ Yes



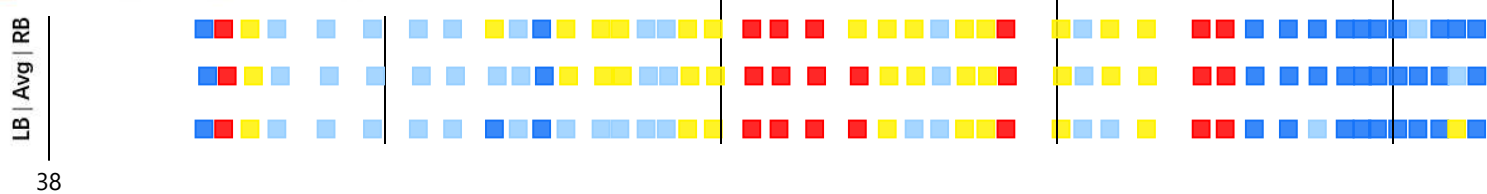
### Aggradation/Incision

■ Aggradation ▲ Incision



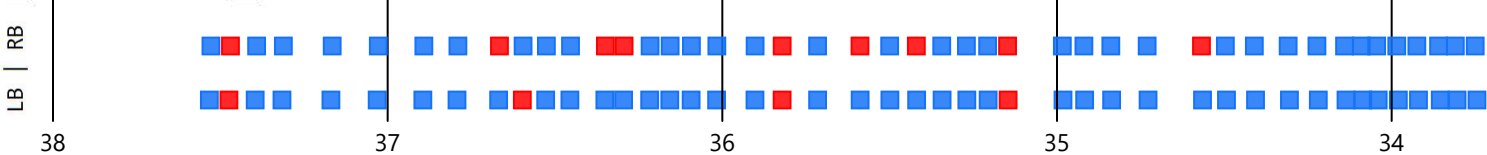
### Bank Stability

■ Excellent ■ Good ■ Mediocre ■ Poor



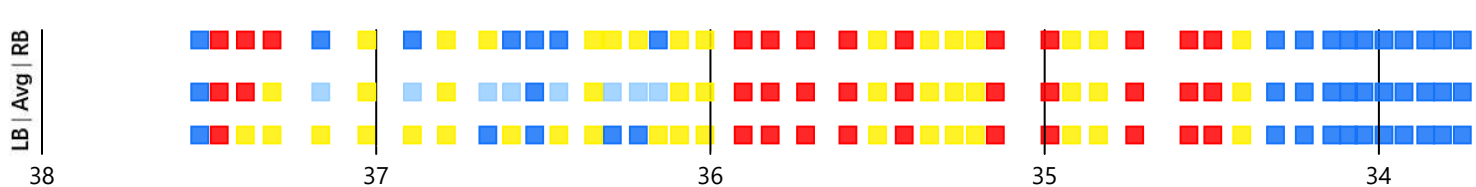
### Bank Condition

■ Hardened Structure ■ Natural



### Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



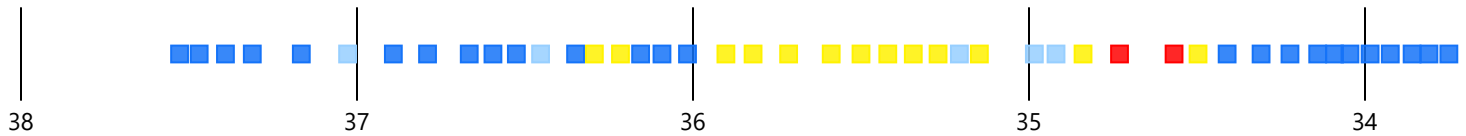
← FLOW DIRECTION Creek Mile (37.53 at Tailwater, 33.75 at Headwater) FLOW DIRECTION ←



# REACH A

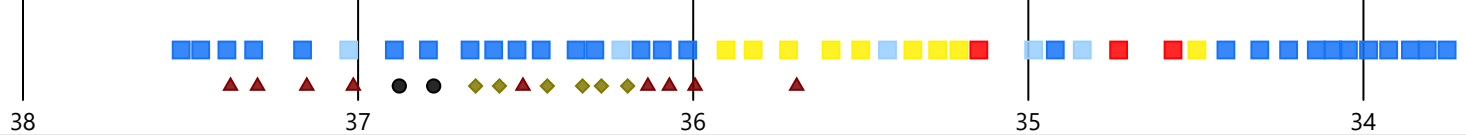
## Water Appearance

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

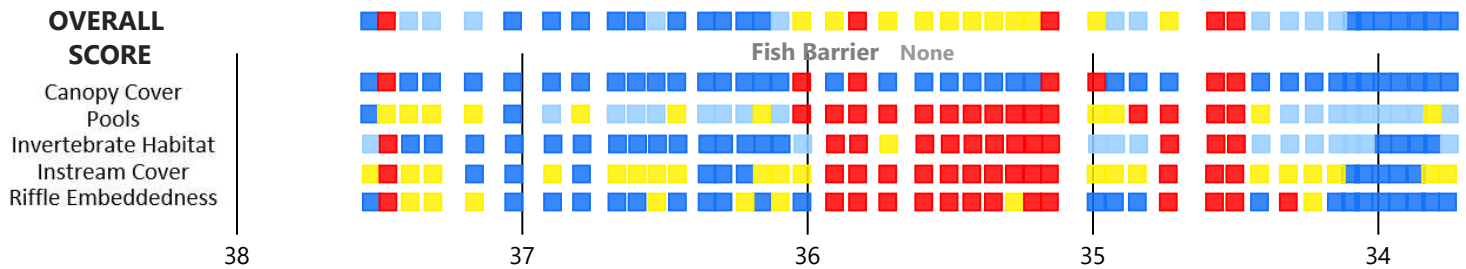
Score ■ Low ■ Mild ■ Moderate ■ Severe  
NE Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

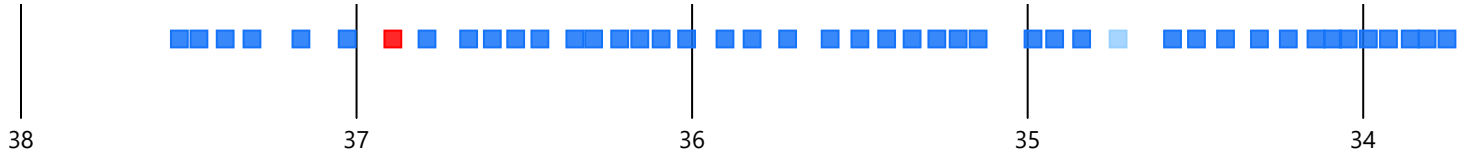
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



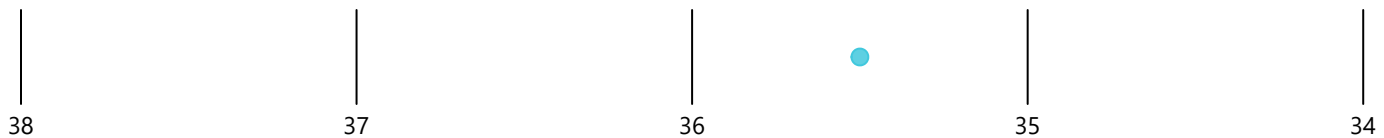
## Manure Presence

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



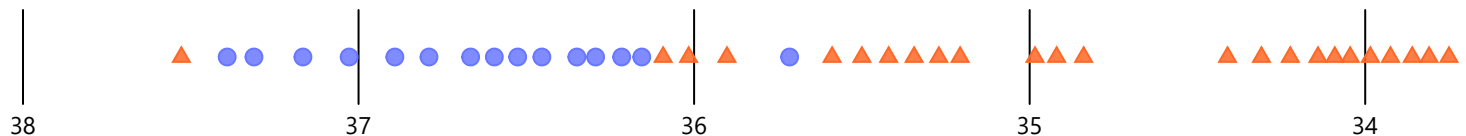
## Invasive Species

● Japanese Knotweed



## Aquatic Vegetation

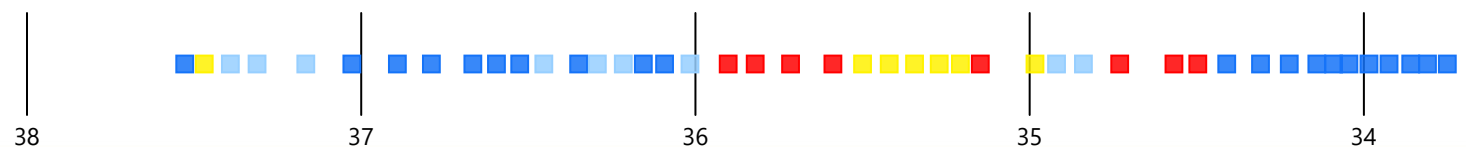
▲ Emergent ● Submergent



## OVERALL SVAP RATING

ELLICOTT CREEK

■ Excellent ■ Good ■ Mediocre ■ Poor

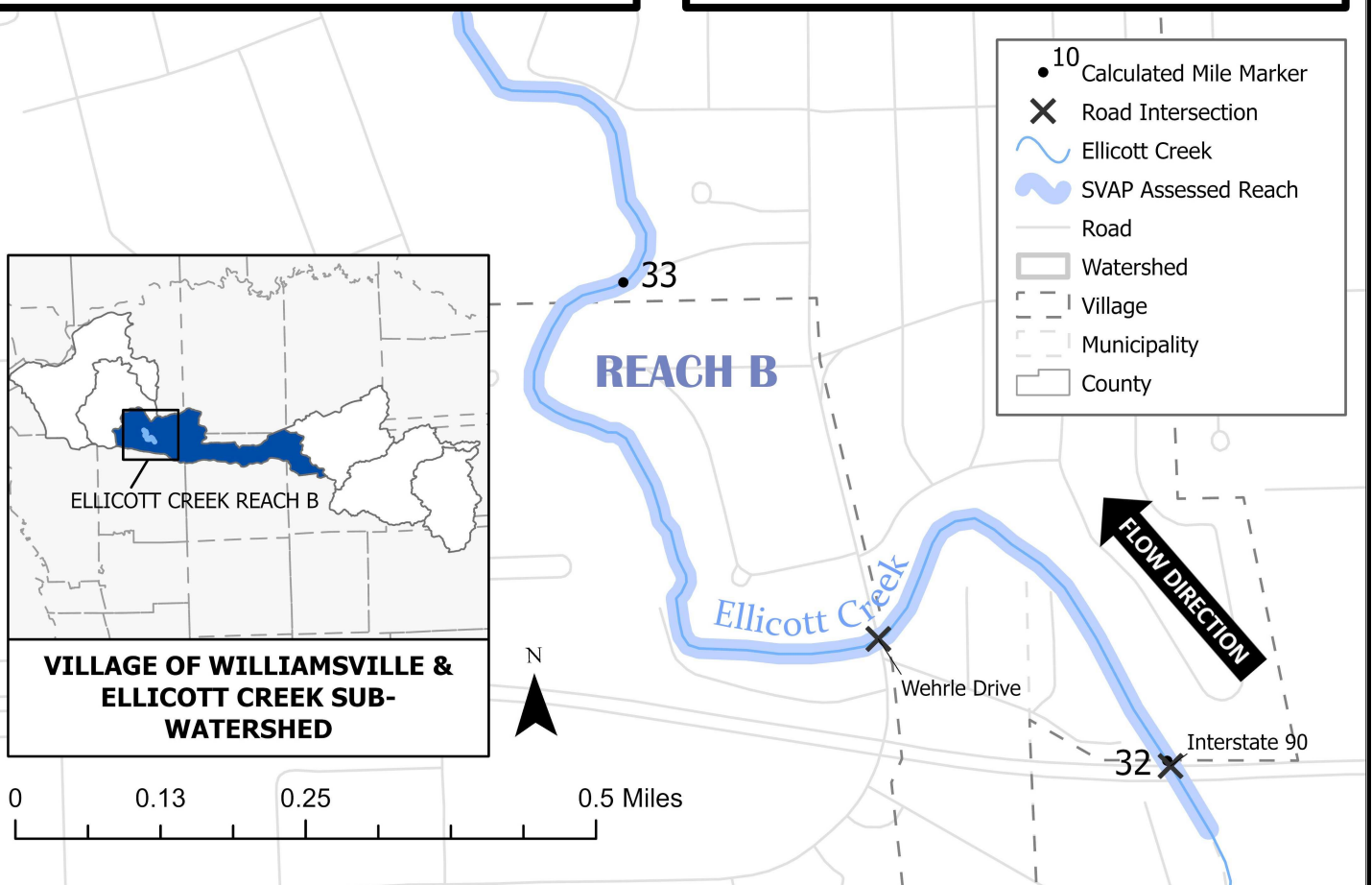


← FLOW DIRECTION Creek Mile (37.53 at Tailwater, 33.75 at Headwater) FLOW DIRECTION →

# ELLICOTT CREEK

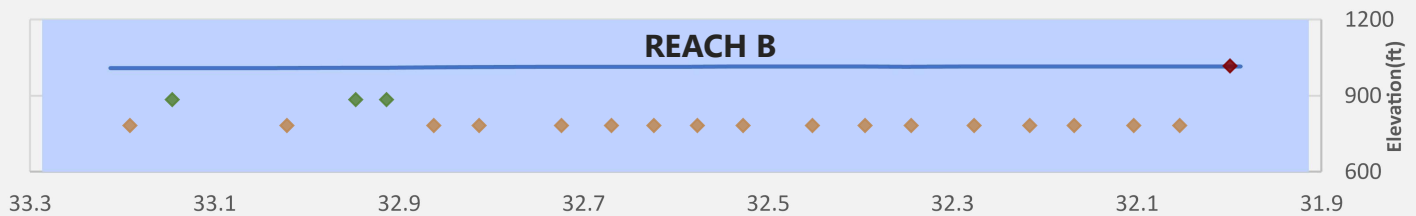
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH B

AVERAGE OVERALL SVAP RATING: **5.7**

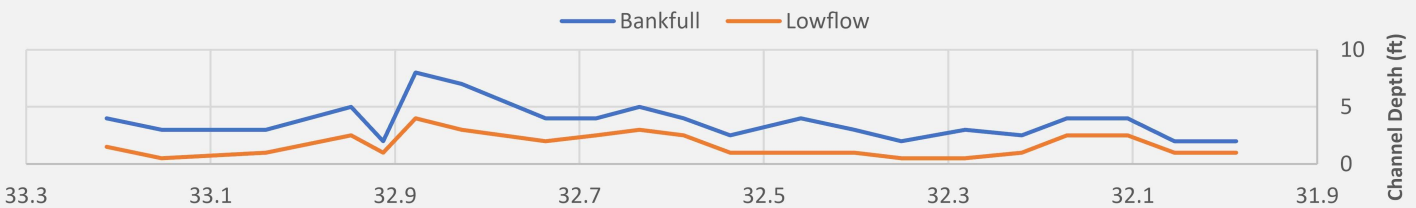


## Elevation Profile

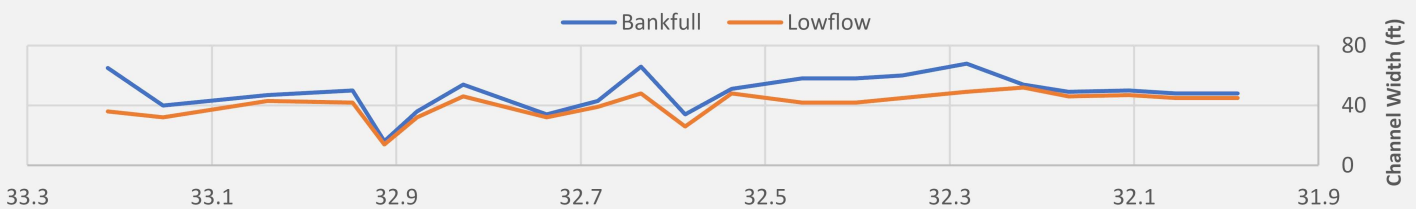
Substrate ◆ Bedrock/Concrete ◆ Cobble ◆ Gravel



## Channel Depth



## Channel Width



**FLOW DIRECTION** Creek Mile (33.22 at Tailwater, 31.99 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

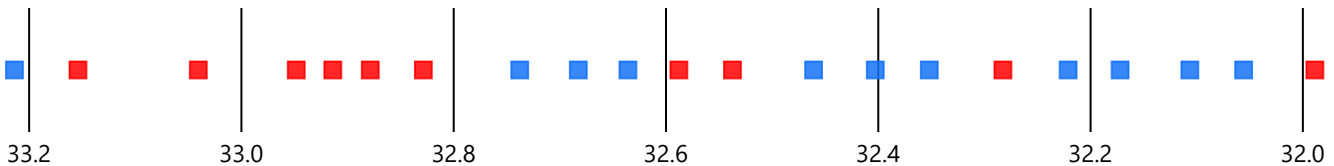
### Channel Conditions

Score Good Mediocre Poor



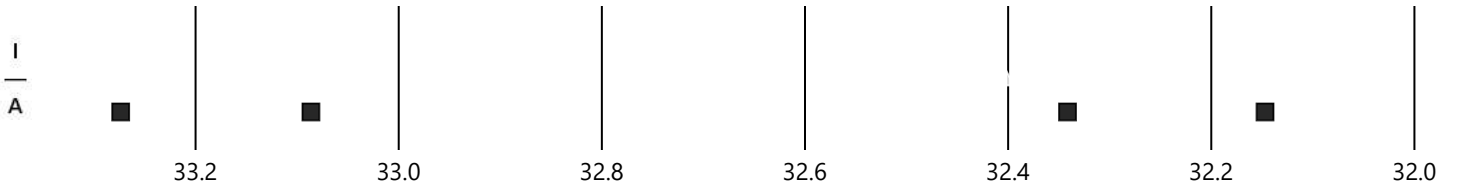
### Stream Bank Hardening

No Yes



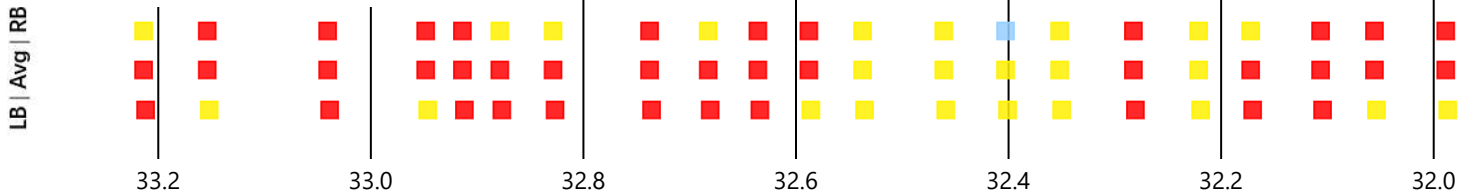
### Aggradation/Incision

Aggradation Incision



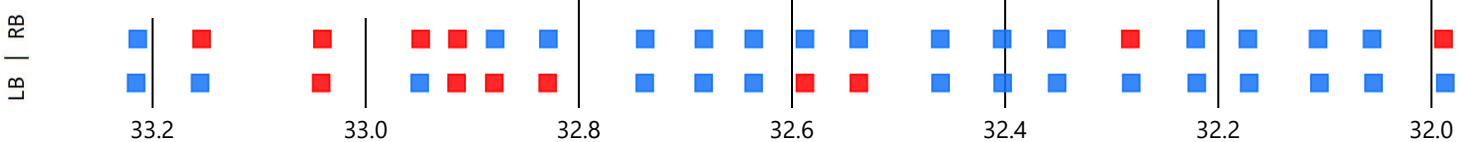
### Bank Stability

Excellent Good Mediocre Poor



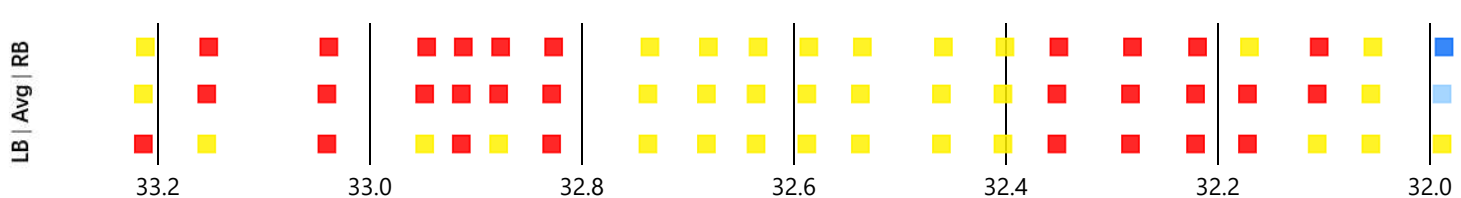
### Bank Condition

Hardened Structure Natural



### Riparian Zone

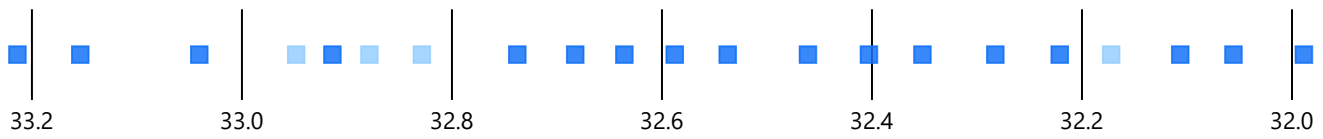
Score Good Mediocre Poor



## REACH B

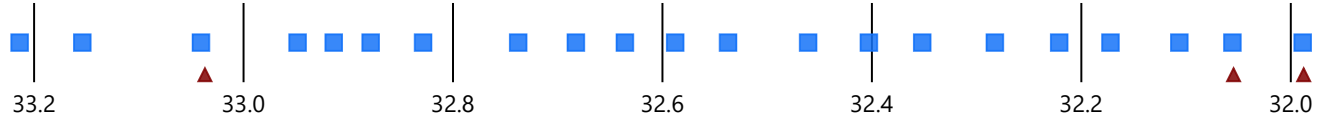
### Water Appearance

Score ■ Excellent ■ Good



### Nutrient Enrichment

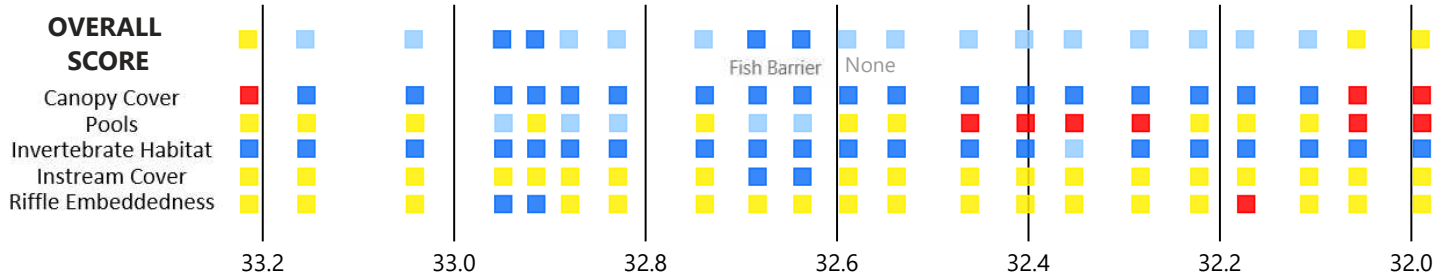
Score ■ Low  
NE Notes ▲ Dense Aquatic Plant Beds



### Fish Habitat

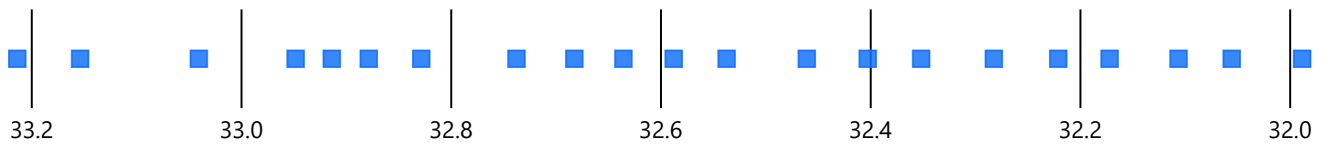
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



### Manure Presence

■ None



### Invasive Species

None Observed



### Aquatic Vegetation

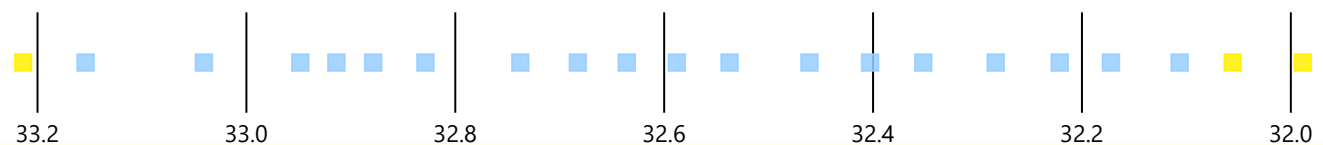
■ Both ● Submerged



### OVERALL SVAP RATING

ELLCOTT CREEK

■ Good ■ Mediocre

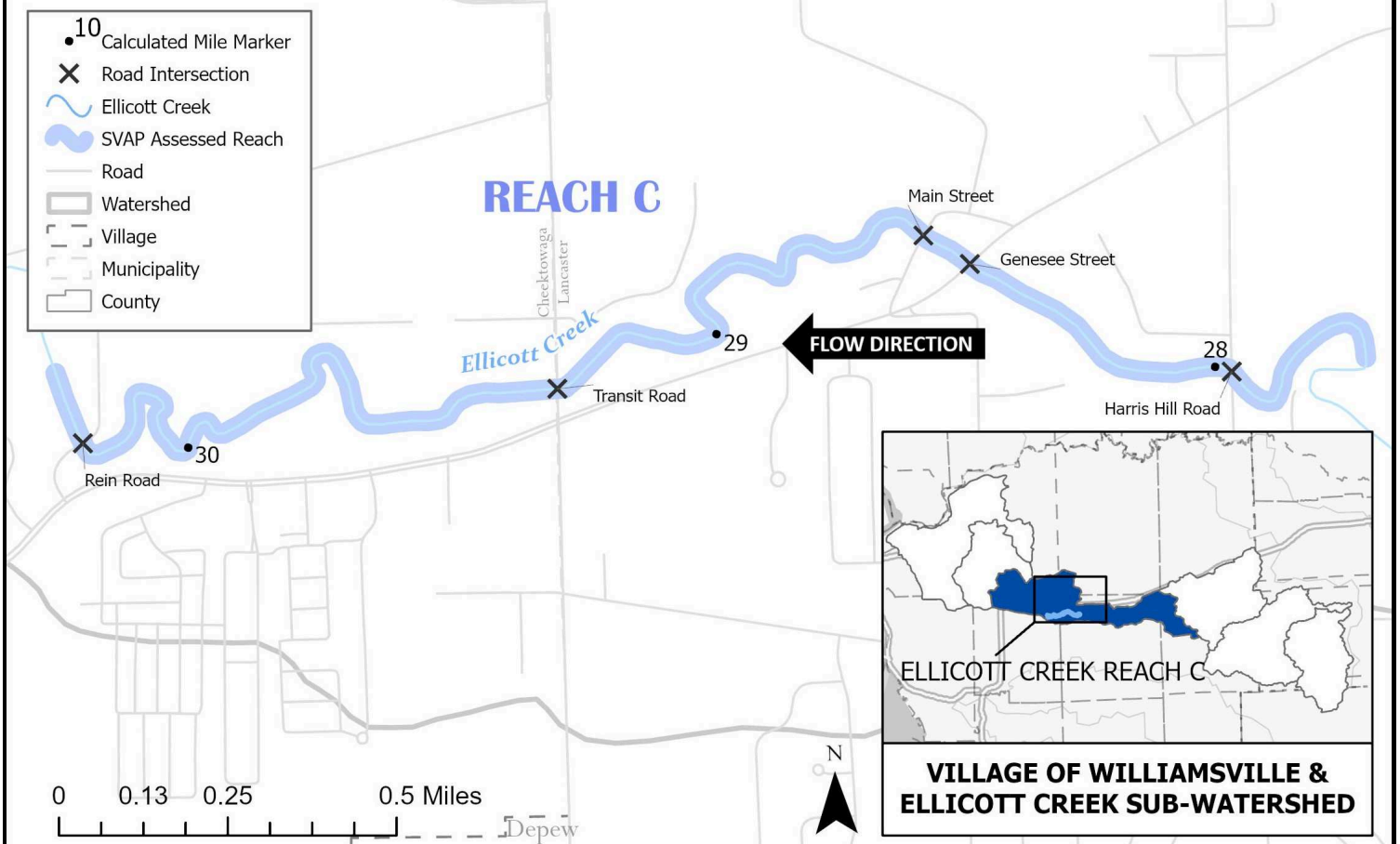


← FLOW DIRECTION Creek Mile (33.22 at Tailwater, 31.99 at Headwater) FLOW DIRECTION →

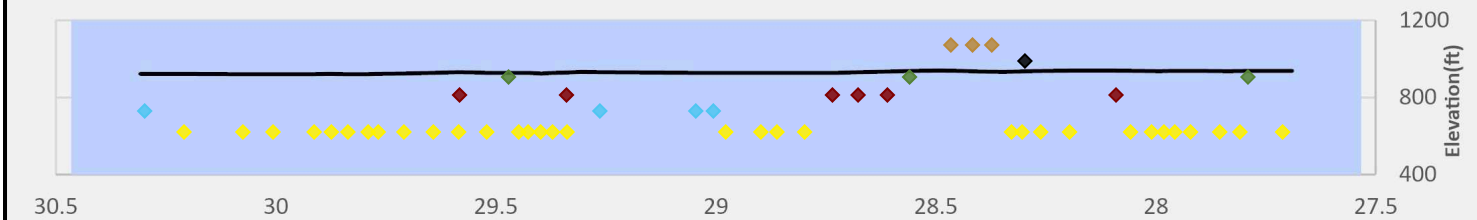
# ELLICOTT CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH C

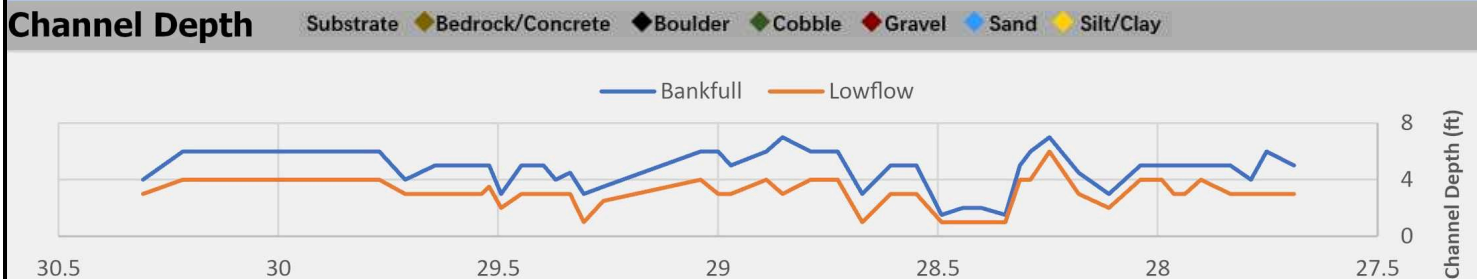
AVERAGE OVERALL SVAP RATING: **6.0**



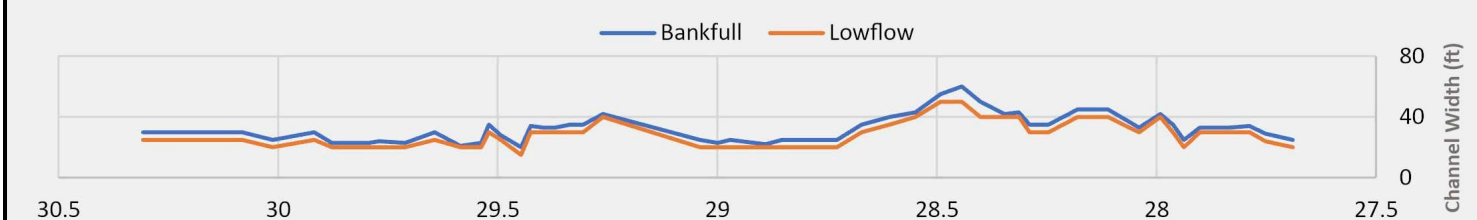
## Elevation Profile



## Channel Depth



## Channel Width



FLOW DIRECTION Creek Mile (30.31 at Tailwater, 27.69 at Headwater) FLOW DIRECTION



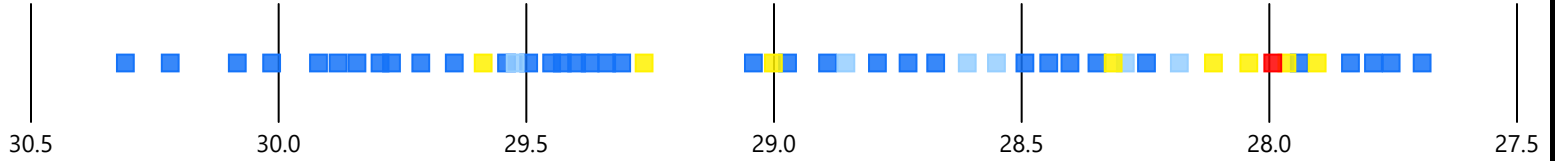
# Classification Scheme for SVAP Parameters

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

REACH C

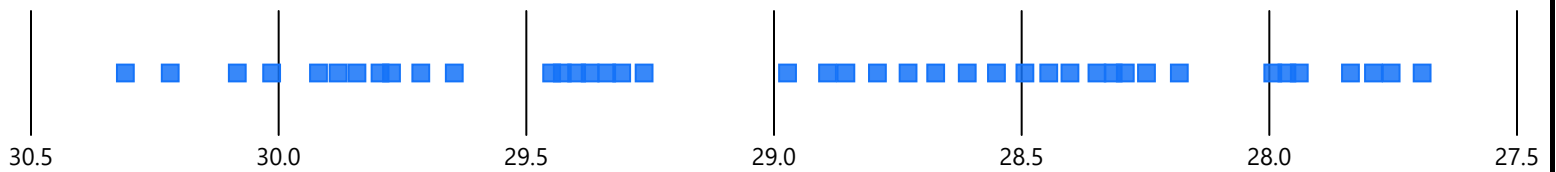
## Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



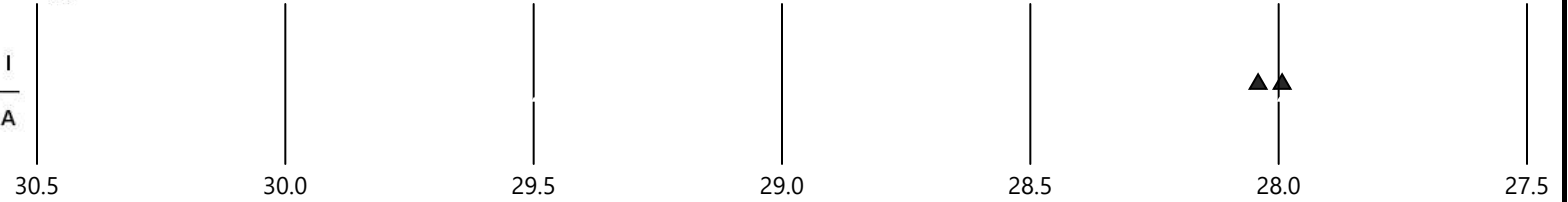
## Stream Bank Hardening

■ No



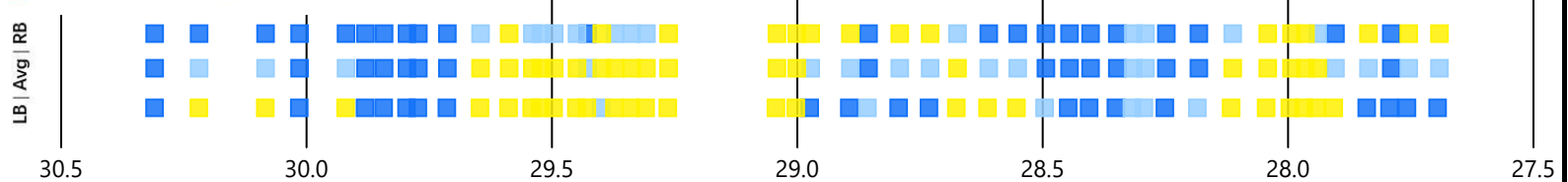
## Aggradation/Incision

■ Aggradation ▲ Incision



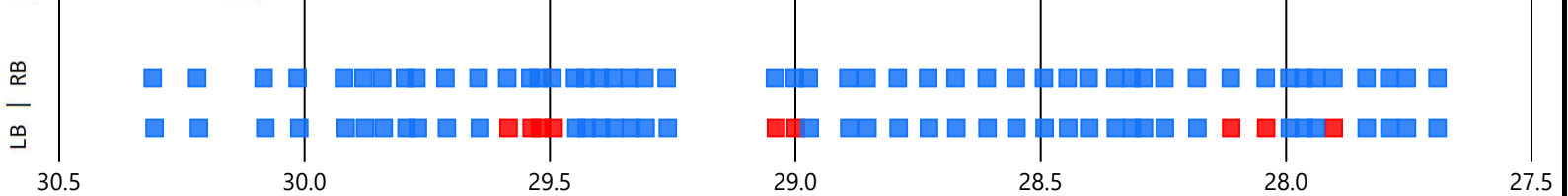
## Bank Stability

■ Excellent ■ Good ■ Mediocre ■ Poor



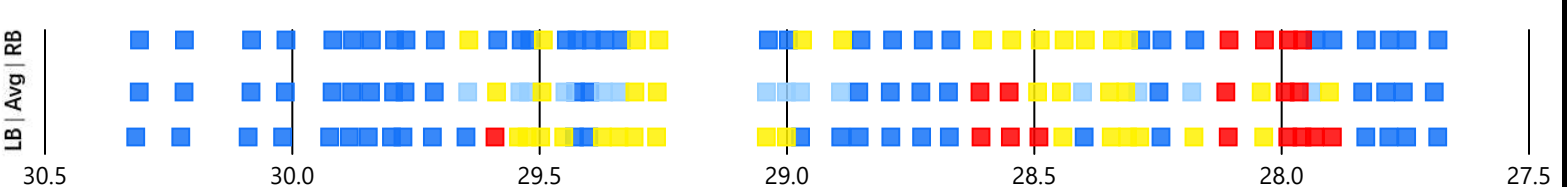
## Bank Condition

■ Hardened Structure ■ Natural



## Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

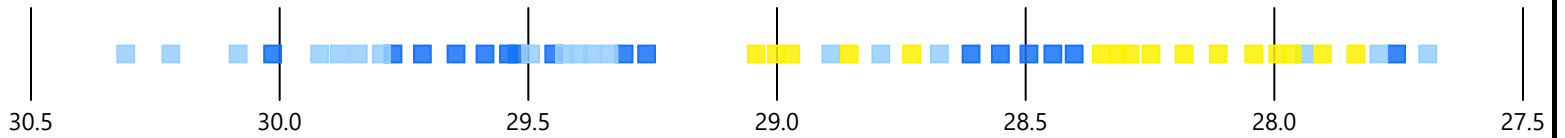


← FLOW DIRECTION Creek Mile (30.31 at Tailwater, 27.69 at Headwater) FLOW DIRECTION →

# REACH C

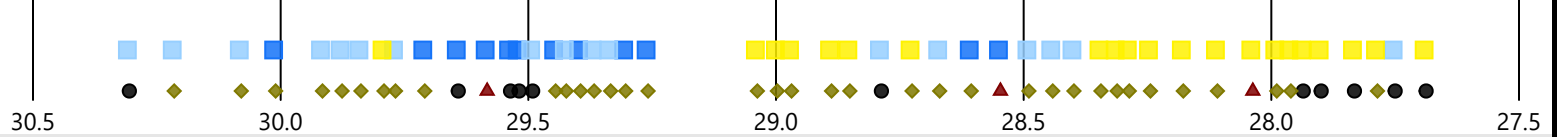
## Water Appearance

Score ■ Excellent ■ Good ■ Mediocre



## Nutrient Enrichment

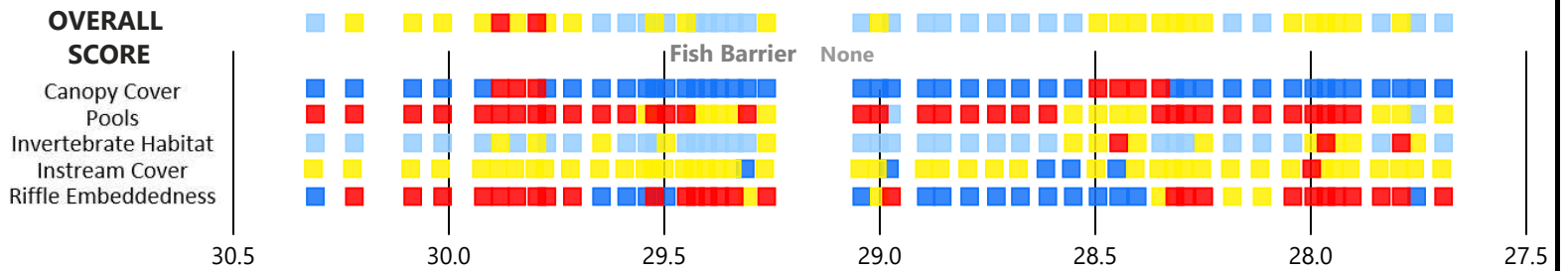
Score ■ Low ■ Mild ■ Moderate  
NE Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

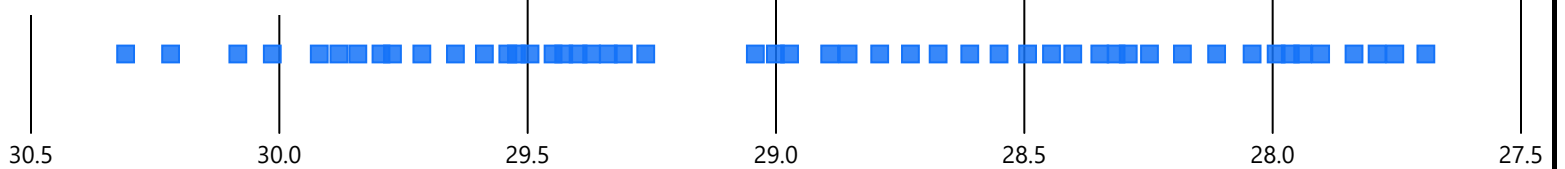
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



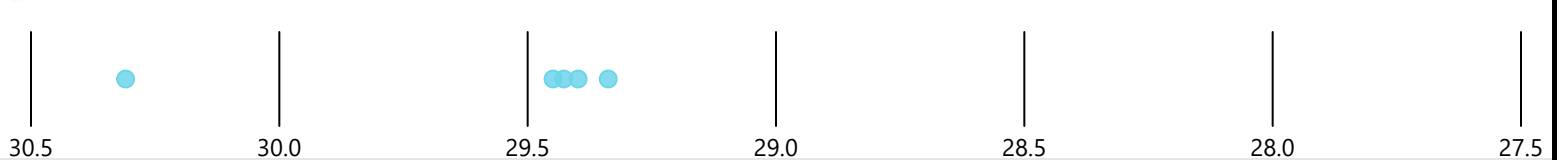
## Manure Presence

■ None



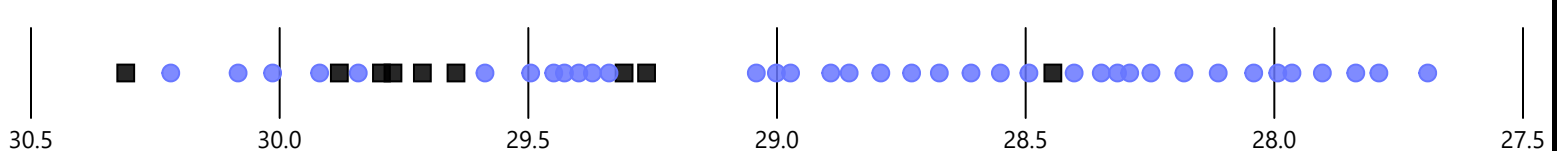
## Invasive Species

● Japanese Knotweed



## Aquatic Vegetation

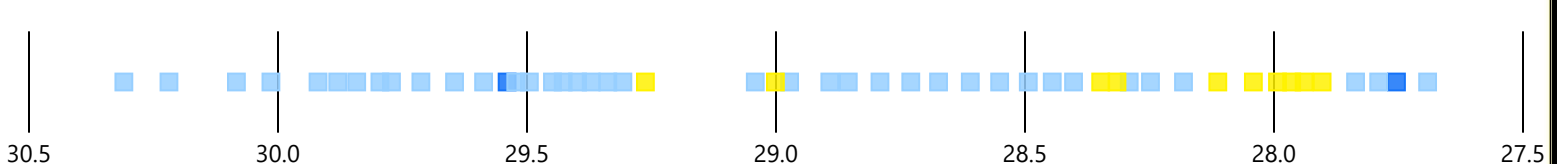
■ Both ● Submergent



## OVERALL SVAP RATING

ELLICOTT CREEK

■ Excellent ■ Good ■ Mediocre

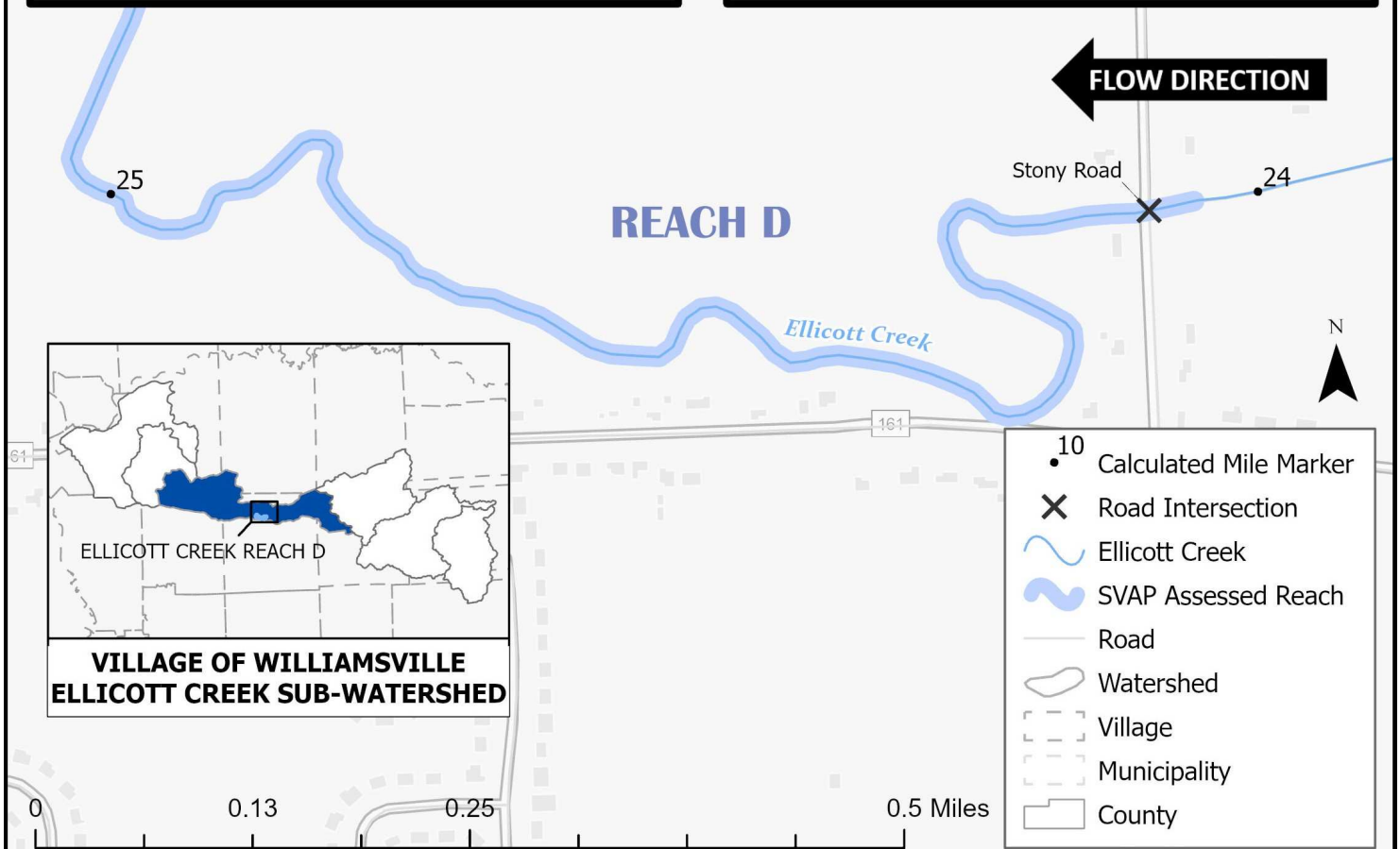


← FLOW DIRECTION Creek Mile (30.31 at Tailwater, 27.69 at Headwater) ← FLOW DIRECTION

## ELLICOTT CREEK

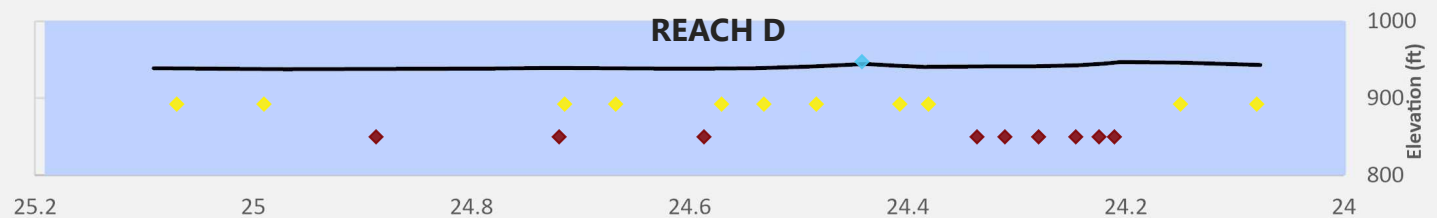
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH D

AVERAGE OVERALL SVAP RATING: **5.9**

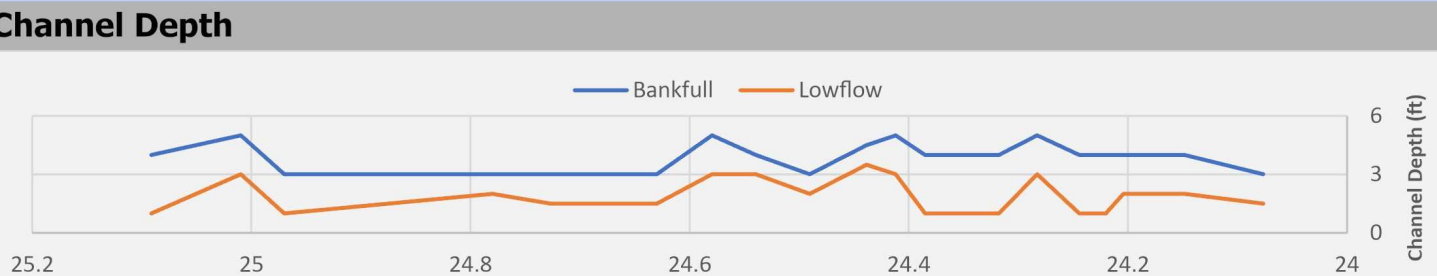


### Elevation Profile

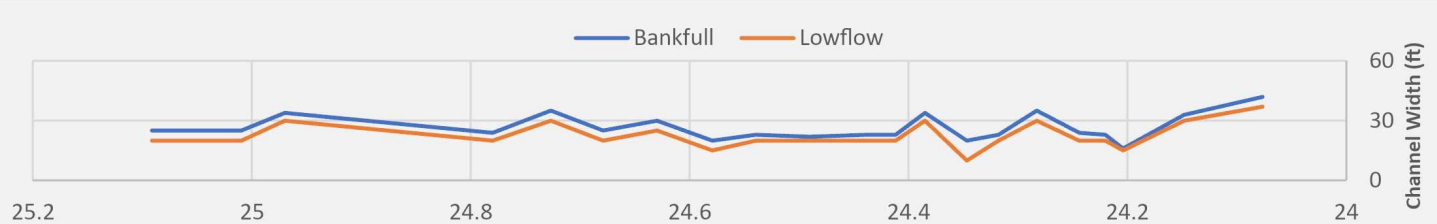
Substrate: ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



### Channel Depth



### Channel Width



**← FLOW DIRECTION** Creek Mile (25.09 at Tailwater, 24.08 at Headwater) **← FLOW DIRECTION**

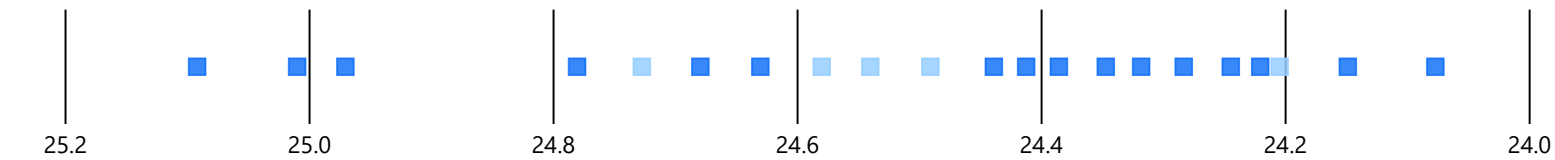
# Classification Scheme for SVAP Parameters

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

REACH D

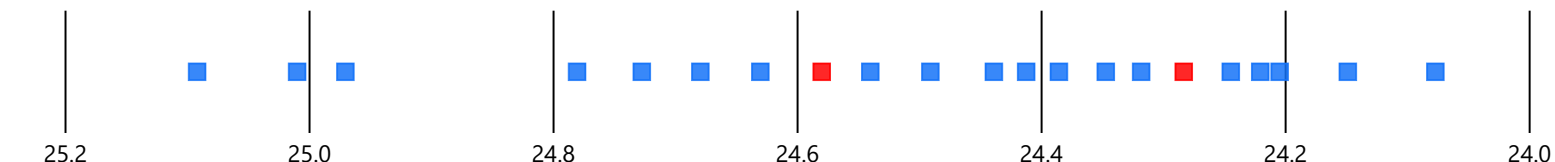
## Channel Conditions

Score    ■ Excellent    ■ Good



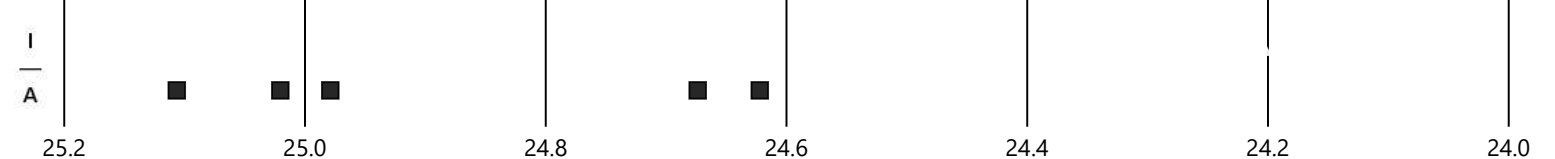
## Stream Bank Hardening

■ No    ■ Yes



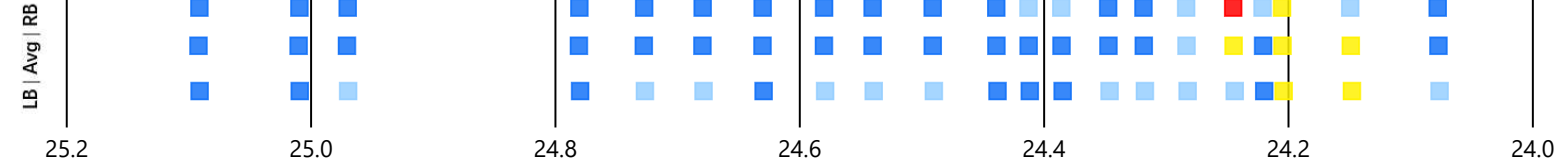
## Aggradation/Incision

■ Aggradation



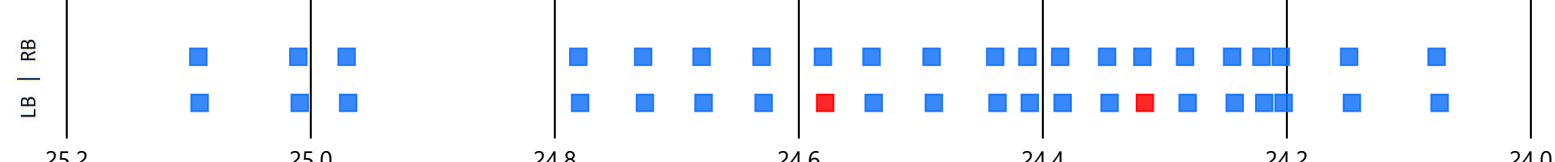
## Bank Stability

■ Excellent    ■ Good    ■ Mediocre    ■ Poor



## Bank Condition

■ Hardened Structure    ■ Natural



## Riparian Zone

Score    ■ Excellent    ■ Good    ■ Mediocre    ■ Poor

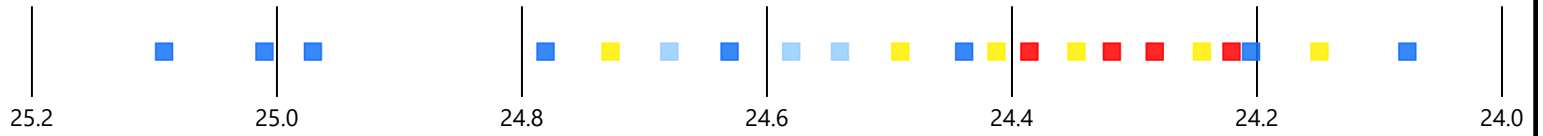




## REACH D

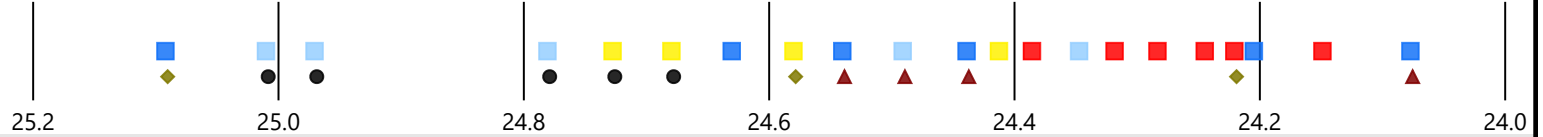
### Water Appearance

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



### Nutrient Enrichment

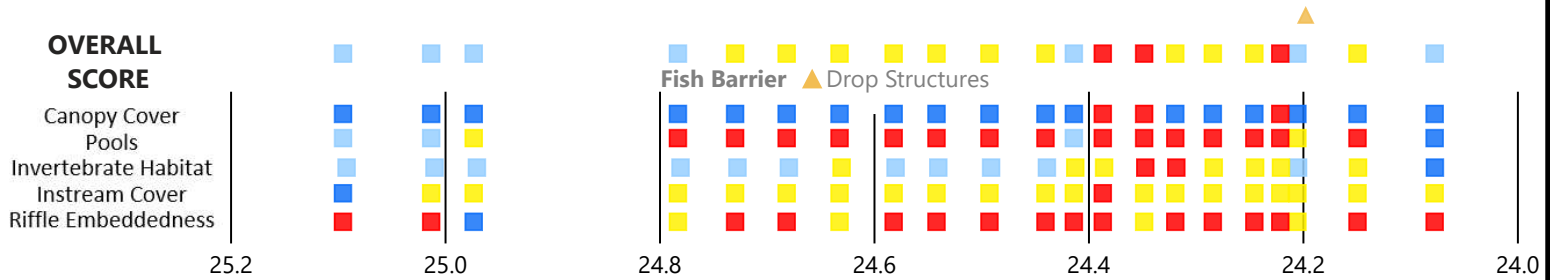
Score ■ Low ■ Mild ■ Moderate ■ Severe  
NE Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



### Fish Habitat

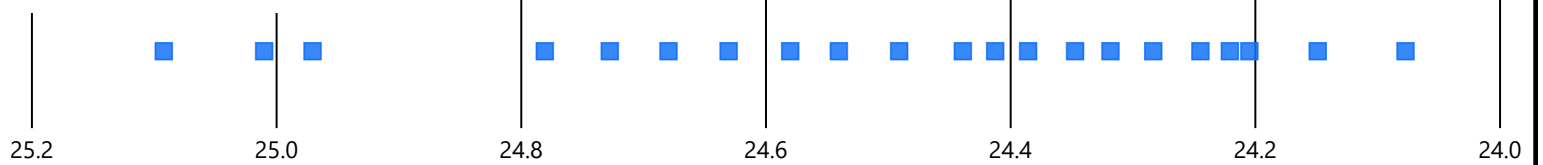
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



### Manure Presence

■ None



### Invasive Species

None Observed



### Aquatic Vegetation

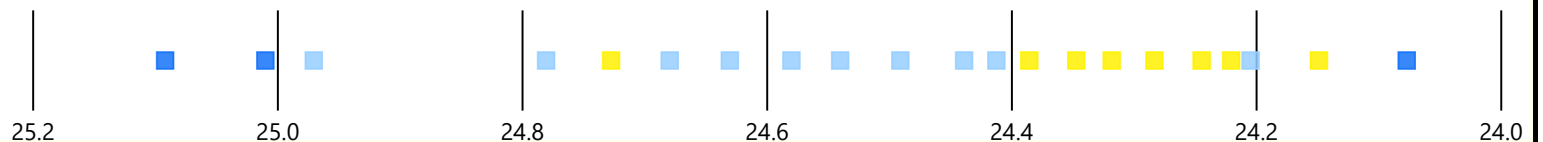
▲ Emergent ● Submergent



### OVERALL SVAP RATING

ELLCOTT CREEK

■ Excellent ■ Good ■ Mediocre

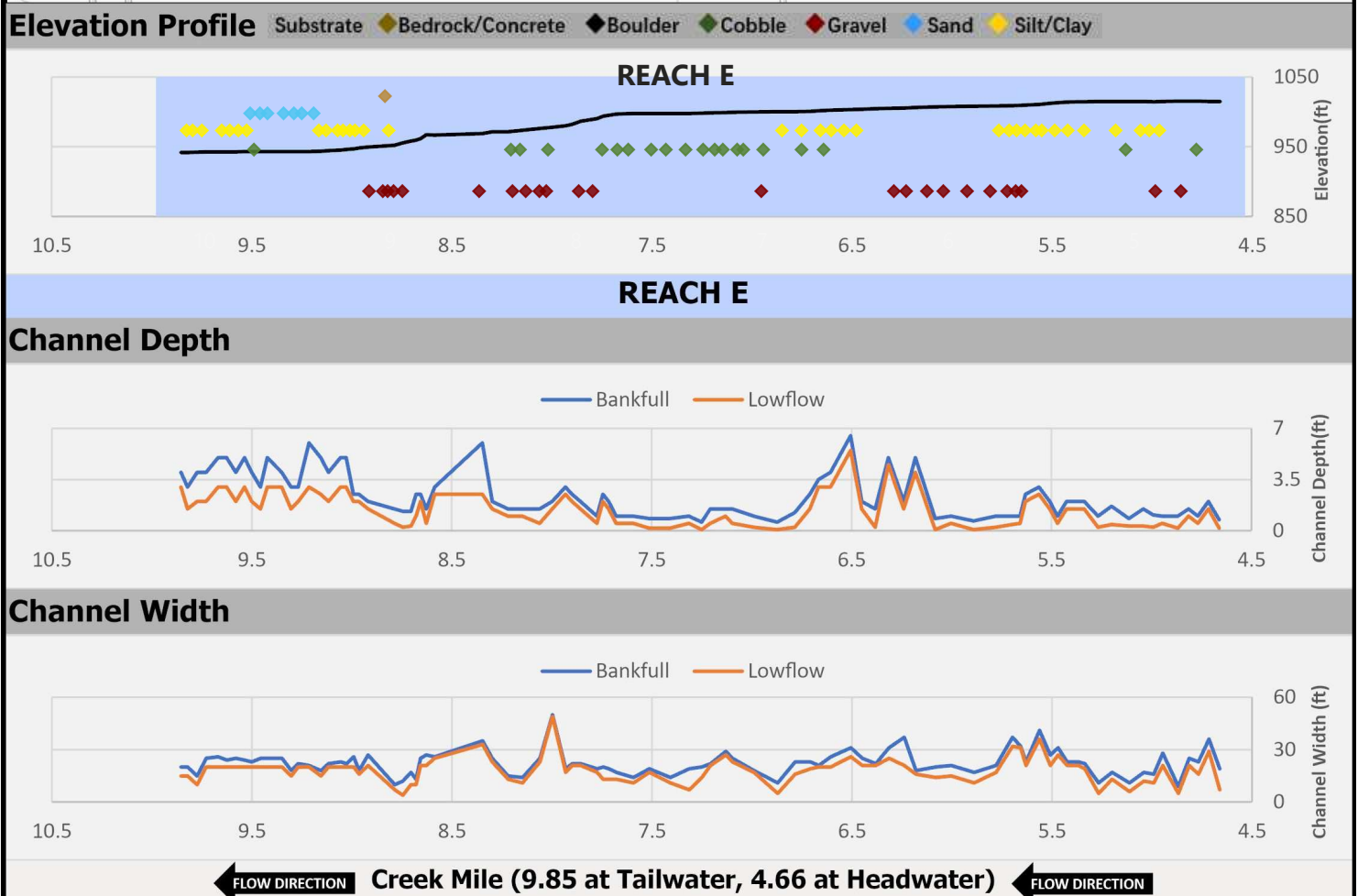
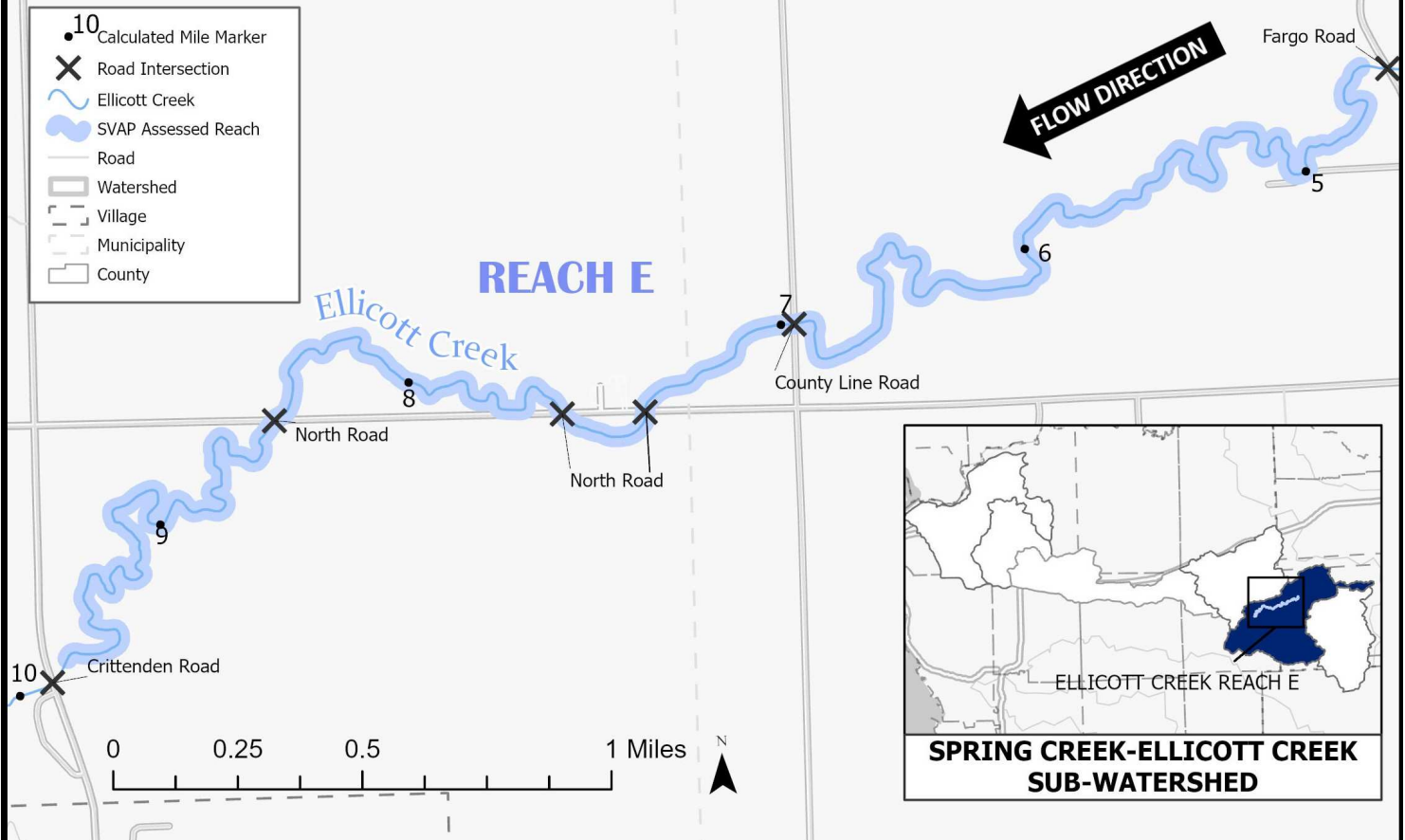


← FLOW DIRECTION Creek Mile (25.09 at Tailwater, 24.08 at Headwater) ← FLOW DIRECTION

# ELLICOTT CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS  
FOR REACH E

AVERAGE OVERALL SVAP RATING: **7.2**



# 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



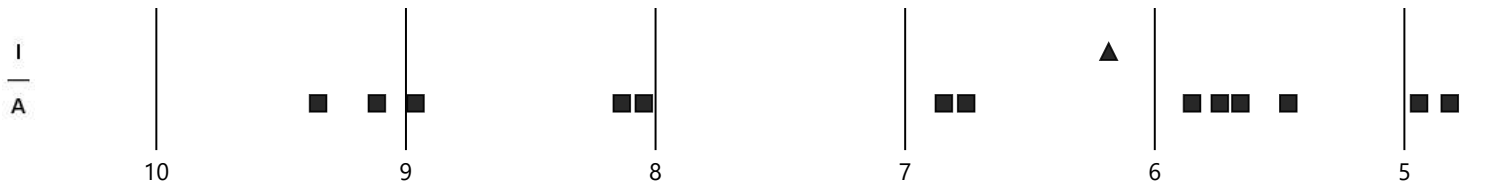
## Stream Bank Hardening

■ No ■ Yes



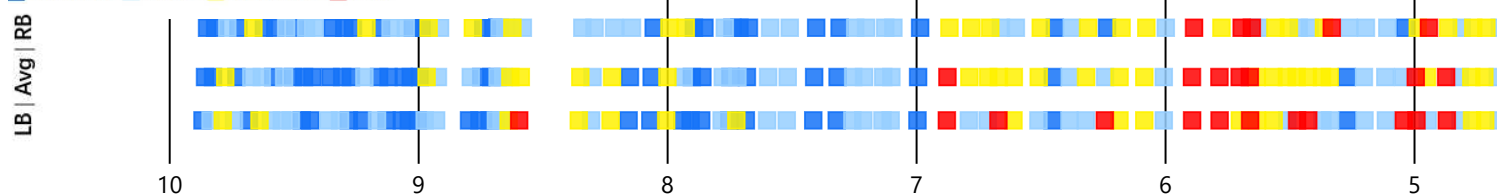
## Aggradation/Incision

■ Aggradation ▲ Incision



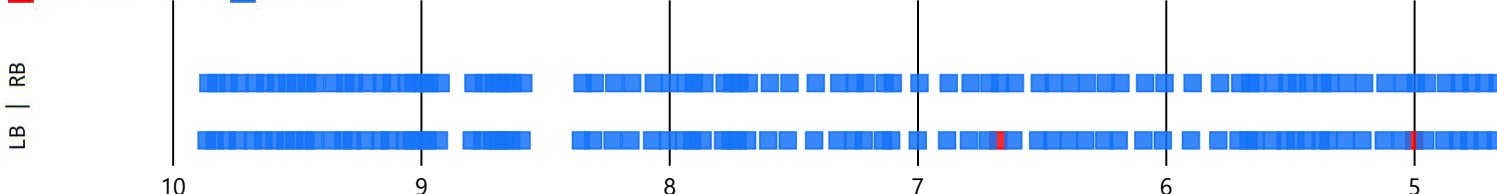
## Bank Stability

■ Excellent ■ Good ■ Mediocre ■ Poor



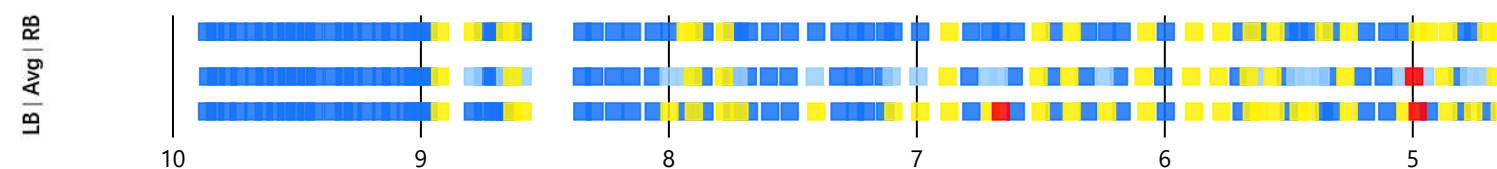
## Bank Condition

■ Hardened Structure ■ Natural



## Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



← FLOW DIRECTION

Creek Mile (9.85 at Tailwater, 4.66 at Headwater)

← FLOW DIRECTION

# REACH E

## Water Appearance

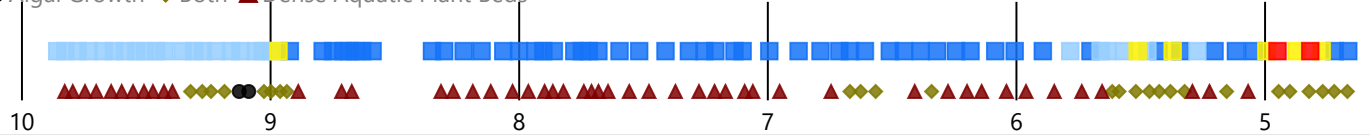
Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

Score ■ Low ■ Mild ■ Moderate ■ Severe

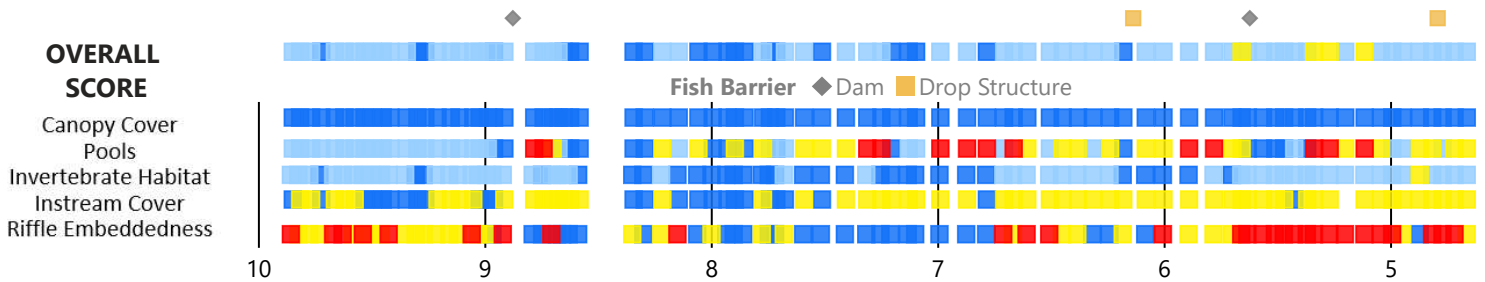
NE Notes ● Algal Growth ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

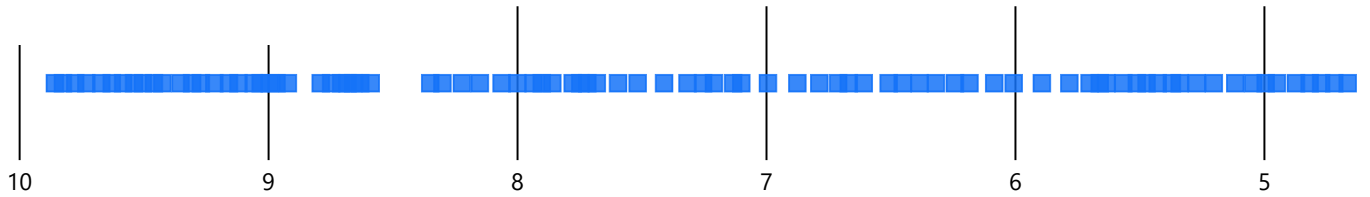
Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



## Manure Presence

■ None



## Invasive Species

● Japanese Knotweed



## Aquatic Vegetation

▲ Emergent ● Submergent



## OVERALL SVAP RATING

ELLCOTT CREEK

Score ■ Excellent ■ Good ■ Mediocre



← FLOW DIRECTION

Creek Mile (9.85 at Tailwater, 4.66 at Headwater)

← FLOW DIRECTION

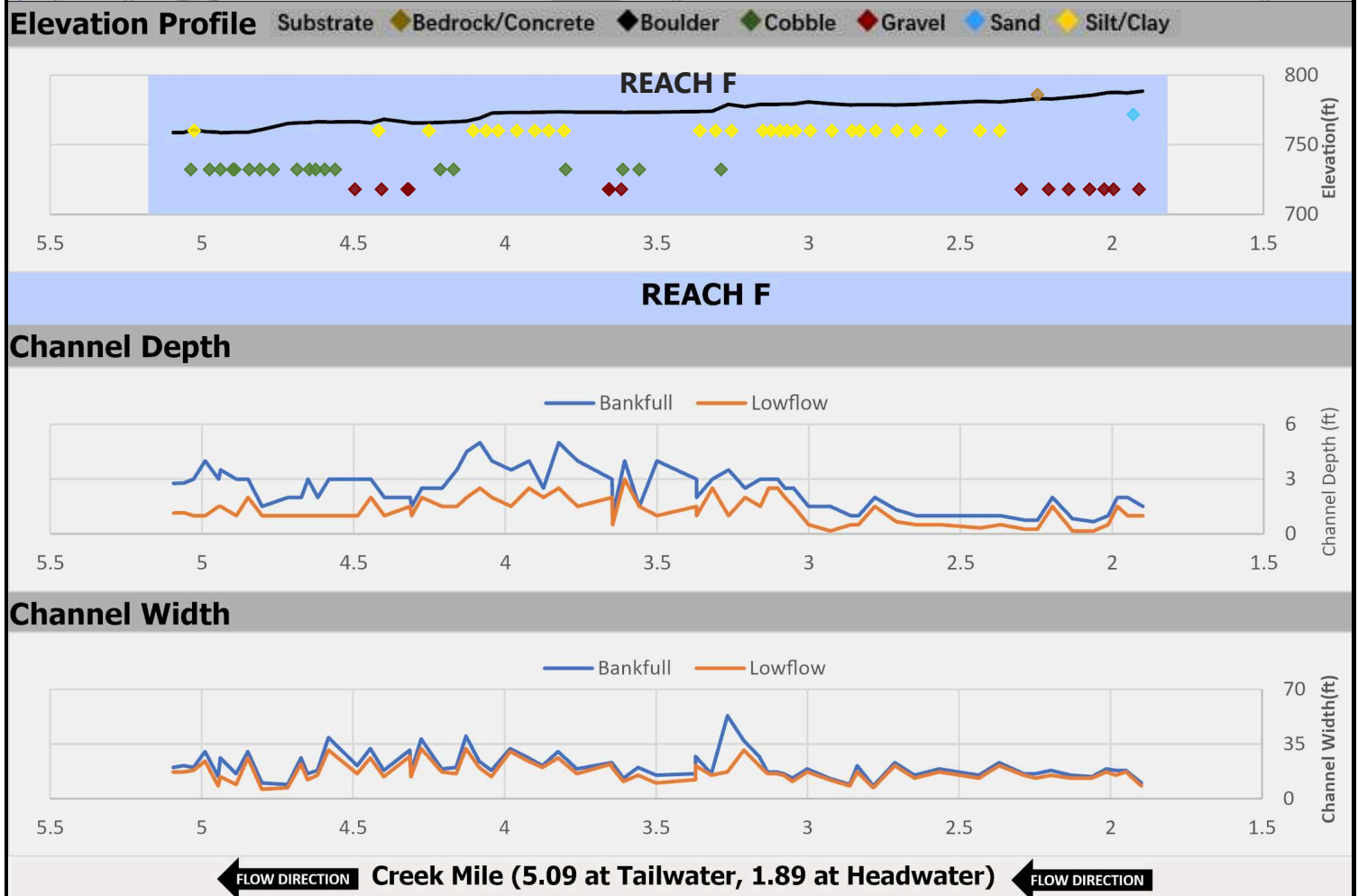
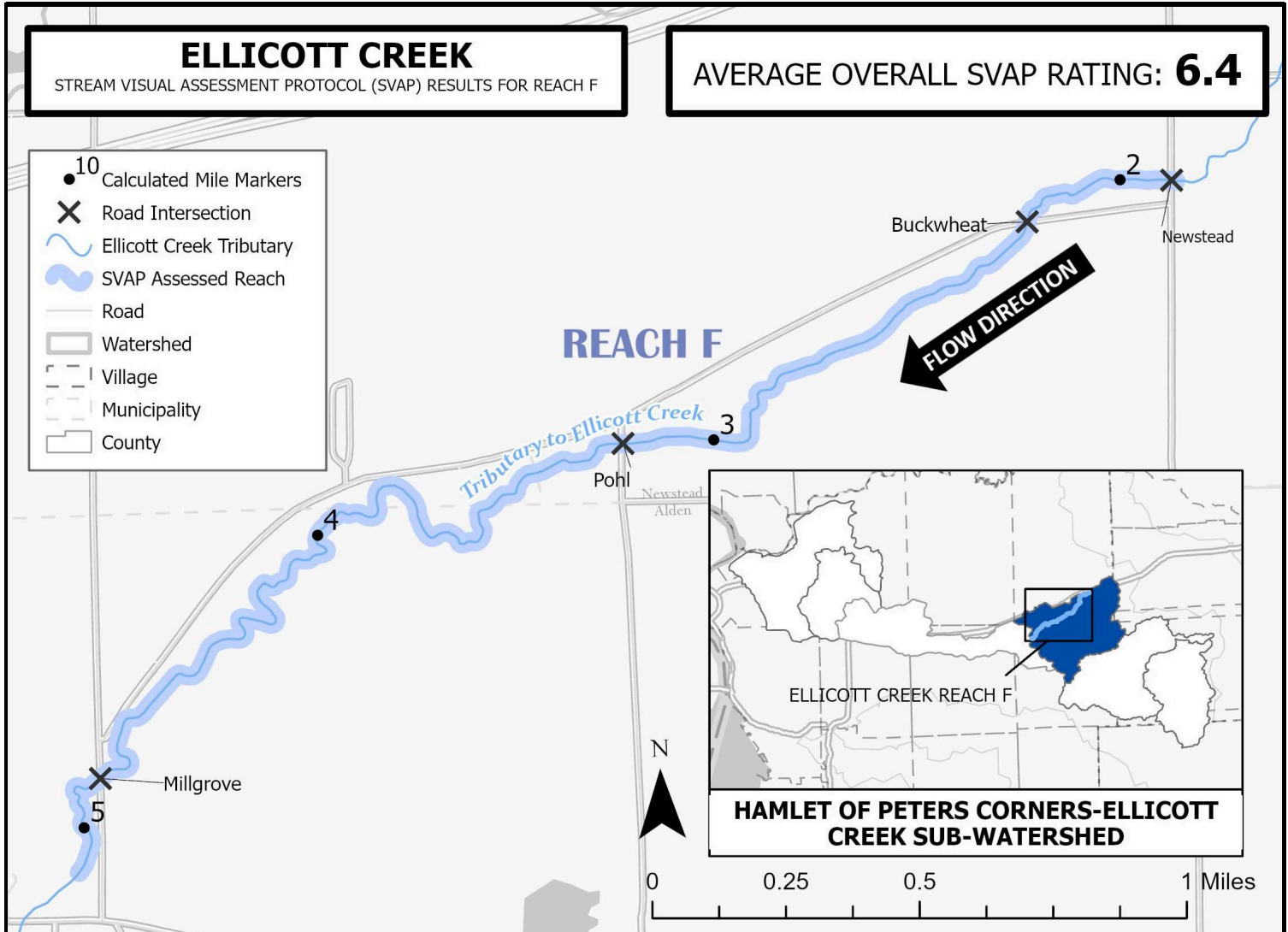


# ELLICOTT CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS FOR REACH F

AVERAGE OVERALL SVAP RATING: **6.4**

- 10 Calculated Mile Markers
- ✕ Road Intersection
- ~ Ellicott Creek Tributary
- ~ SVAP Assessed Reach
- Road
- ▭ Watershed
- - - Village
- - - Municipality
- ▭ County



# 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 ■ Poor



## Stream Bank Hardening

■ No



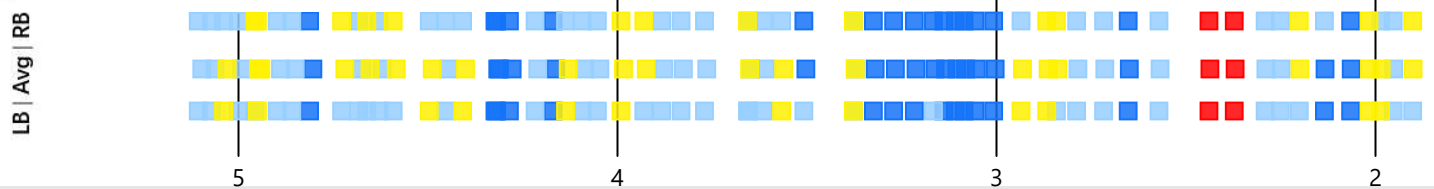
## Aggradation/Incision

■ Aggradation ▲ Incision



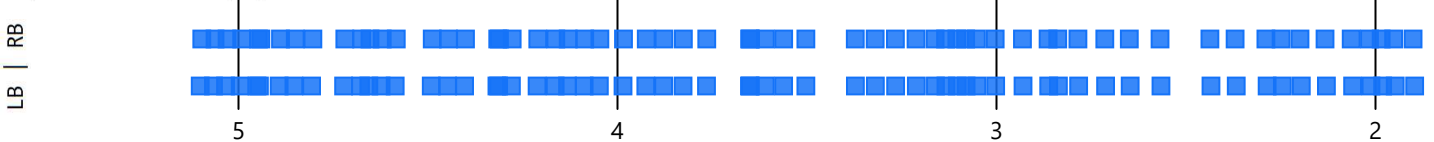
## Bank Stability

■ Excellent ■ Good ■ Mediocre ■ Poor



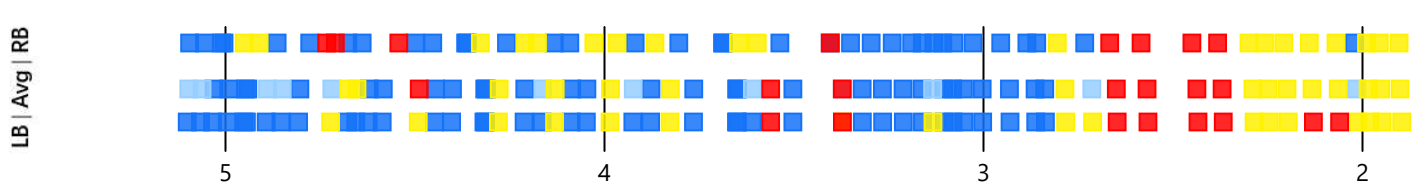
## Bank Condition

■ Hardened Structure ■ Natural



## Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



Creek Mile (5.09 at Tailwater, 1.89 at Headwater)



# REACH F

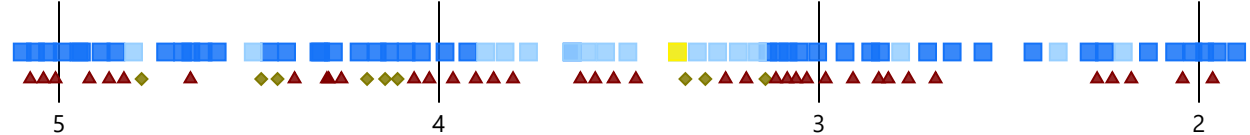
## Water Appearance

Score ■ Excellent ■ Good ■ Mediocre ■ Poor



## Nutrient Enrichment

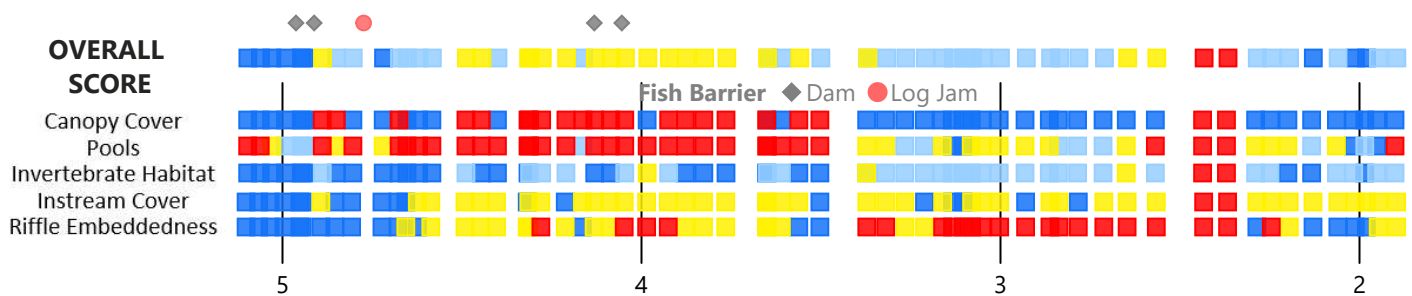
Score ■ Low ■ Mild ■ Moderate  
NE Notes ◆ Both ▲ Dense Aquatic Plant Beds



## Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

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



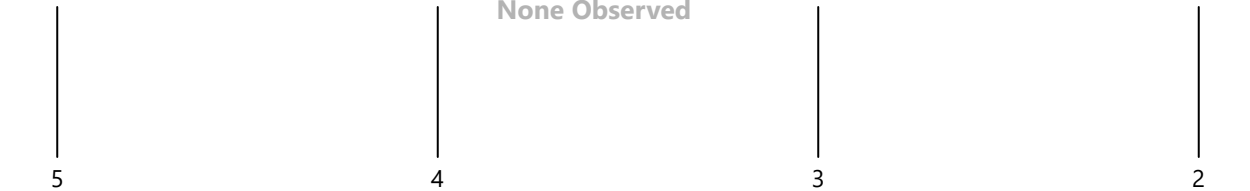
## Manure Presence

■ None ■ Extensive Manure/CFO Pipe



## Invasive Species

None Observed



## Aquatic Vegetation

▲ Emergent ● Submerged



## OVERALL SVAP RATING

TRIBUTARY TO ELLICOTT CREEK

■ Excellent ■ Good ■ Mediocre ■ Poor



FLOW DIRECTION

Creek Mile (5.09 at Tailwater, 1.89 at Headwater)

FLOW DIRECTION