

# FIBI502-R2

## Brass Castle Creek Tributary

Brass Castle Harmony Road

Municipality: Washington

County: Warren

Drainage Area (sq miles):0.88

Average Width (m): 3.78

Sample Date: 8 /2 /2018

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	33.33
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	100.00

Air Temperature (°C)	30.5
Water Temperature (°C)	18.75
Dissolved Oxygen (mg/L)	8.92
% Saturation	97
pH	6.98
Conductivity (uS/cm)	181.2
Nitrate/Nitrite (mg/L):	0.621
Total Kjeldahl (mg/L):	0.355
Total Phosphorus (mg/L):	0.0275

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***Headwaters IBI Score (0-100):*** ***88.89***

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***IBI Rating:*** ***Excellent***

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***High Gradient Habitat Score (0-200):*** ***164***

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***Habitat Rating:*** ***Optimal***

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### Summary:

FIBI502 is a sentinel site which is sampled every two years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. This site contains an abundance of brook trout, as well as several other sensitive crayfish and salamanders. This site has remained in excellent condition in the three times it has been sampled ( 2013, 2016 and 2018).

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## **Brass Castle Creek UNT**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Blacknose Dace	<i>Rhinichthys atratulus</i>	186
Brook Trout	<i>Salvelinus fontinalis</i>	151
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	14
Common Crayfish	<i>Cambarus bartonii bartonii</i>	3
Bullfrog	<i>Lithobates catesbeianus</i>	1