

FRWA WATER TESTING RESULTS - 2022

SPRING 2022 - chemical testing

Headwaters - Russell Farm - 4/16/22 - 9:30 am

Conditions were partly cloudy, no rain, a trace of rain in last 48 hrs. Stream flow normal, water condition clear. Air temp. 62.2 F, water 53.4 F. Stage 0.4 ft.

Conductivity 135 uS/cm - pH 7.0 - transparency 90.16 cm - nitrate/nitrogen 0.0
Dissolved oxygen 86%

Durham Rd. Bridge - 4/16/22 - 10:45 am

Conditions partly cloudy, no rain, trace of rain in last 48 hrs. Stream flow normal, water condition clear. Air temp. 71.6 F, water 56.4 F, Stage 14.4 ft.

Conductivity 198 uS/cm - pH 8 - transparency 120 cm - nitrate/nitrogen 0.0
Dissolved oxygen 95%

Fry's Run Park - 4/16/22 - 11:50 am

Conditions partly cloudy, no rain, trace of rain in last 48 hrs. Stream flow normal water condition clear. Air temp. 77.1 F, water 58.2 F, Stage 1.3 ft.

Conductivity 263.5 uS/cm - pH 8 - transparency 120 cm - nitrate/nitro 0.0
Dissolved oxygen 100%

SPRING 2022 - Benthic testing

Headwaters - 5/9/22

Conditions were clear, no rain for past 3 days, stream clear, normal flow, approximate length of testing area 50 meters.

Sensitive: Caddisfly larvae 8 - Mayfly larvae 68 - Stonefly larvae 23
Somewhat Sensitive: Crane fly larvae 4 - Crayfish 1 - Dragonfly larvae 2
Tolerant: aquatic worms 5 - Midge larvae 4

Total index value 17 which falls in the Good category of 17 - 22

Durham Rd. Bridge - 5/21/22

Conditions clear, no rain for 3 days, Stream flow normal, stream clear, testing area 50 meters.

Sensitive: Caddisfly larvae 3 - Mayfly larvae 39 - Stonefly larvae 23 - Water penny 3
Somewhat Sensitive: Cranefly larvae 1 - Crayfish 2

Tolerant: aquatic worms 1

Total index value 17.

Fry's Run Park - 6/3/22

Conditions clear during testing, Moderate rain in past 3 days, Stream clear, flow normal, testing area 50 meters.

Sensitive: Caddisfly larvae 6 - Mayfly larvae 30 - riffle beetle 1 - Stonefly larvae 7 - Water Penny 2

Somewhat sensitive: Crayfish 2 - Damselfly larvae 6 - scuds 9 - alderfly larvae 5

Tolerant: Midge larvae

Total Index Value : 24 which is in the Excellent range of >22

Suggestions for future - sample 100 meter length of stream..