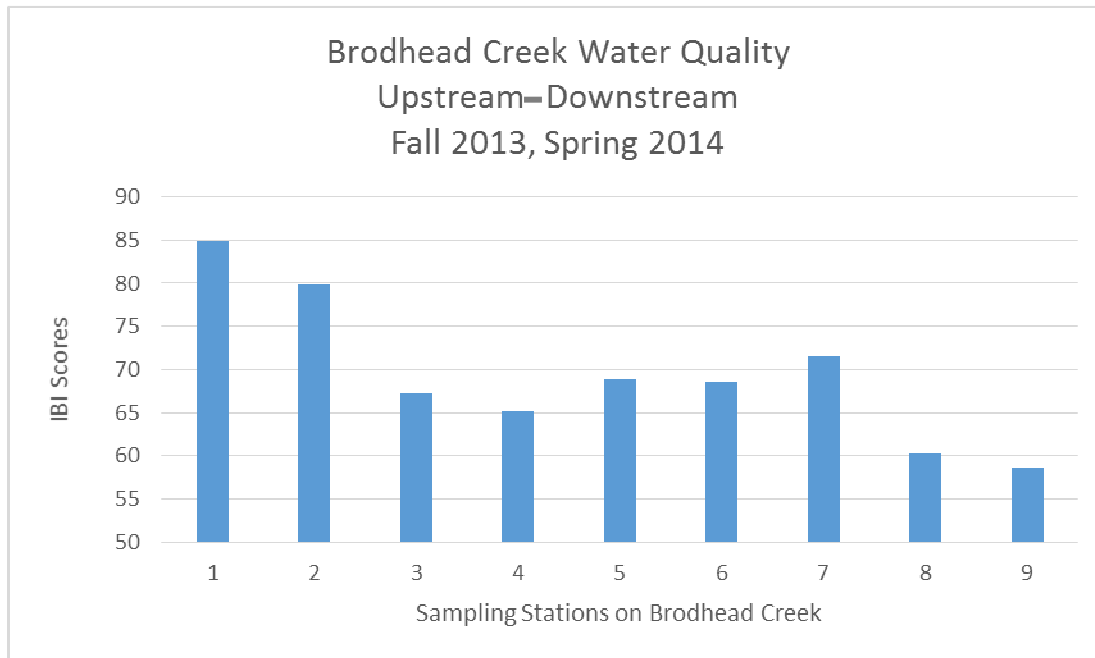


APPENDIX 1

BRODHEAD CREEK WATER QUALITY

Aquatic Resources Consulting, Inc. (Don Baylor) sampled Benthic macroinvertebrates at nine stations on Brodhead Creek in fall of 2013 and spring of 2014.



Sampling Stations on Brodhead Creek

- Station 1. ForEvergreen Preserve – above Analomink
- Station 2. Brodhead Park
- Station 3. Creekview Park
- Station 4. Below Sambo tributary
- Station 5. Below UNT entering from east near 1st Street, Stroudsburg
- Station 6. Below UNT entering from west below Dansbury Park, East Stroudsburg
- Station 7. Below BCRA WWTP discharge, McMichael Creek confluence
- Station 8. Above East Stroudsburg WWTP discharge
- Station 9. Below East Stroudsburg WWTP discharge

Index of Biotic Integrity (IBI) Score

The IBI score gives a rating of the water quality in a stream. It is a scientific tool used to identify and classify water pollution problems caused by human influences. It provides a better picture of water quality because the insects in the stream respond to long term influences. Scores range from 0-100, with 100 being the best. This chart shows a steadily declining IBI score in the Brodhead Creek.

The IBI score is calculated by examining the insects living on the rocks and bottoms of streams. Several “metrics” (scores) are derived by identifying and counting the insects. Those “metrics” then determine the “Index of Biotic Integrity” (IBI).