



# THE COMMUNITY SCIENCE INSTITUTE

## Bio-monitoring RESULTS 2013

non-impacted
slightly impacted
moderately impacted
severely impacted

	Total Family Richness	EPT Richness	Family Biotic Index	Percent Model Affinity	Density <small>of organisms in sample</small>	BAP Value <small>Biological Assessment Profile</small>	
Cayuga Lake Watershed	<b>Enfield Creek - Mouth</b> 5/4/13 42.398095, -76.546700 just upstrm of rte 13 bridge	<b>18.5</b> no impact	<b>9.5</b> no impact	<b>4.57</b> slight impact	<b>89%</b> no impact	274	<b>9.1</b> no impact
	<b>Cayuga Inlet</b> 5/4/13 42.396910, -76.542953 upstream of confluence with Enfield Cr.	<b>8.5</b> moderate impact	<b>5.0</b> slight impact	<b>3.39</b> no impact	<b>73%</b> no impact	1454	<b>6.9</b> slight impact
	<b>*W. Br. Cayuga Inlet-trib</b> 4/24/13 42.359620, -76.598464 upstrm of Main St near Trumbulls Crnr Rd	<b>9.5</b> moderate impact	<b>8.0</b> no impact	<b>3.01</b> no impact	<b>52%</b> slight impact	994	<b>7.0*</b> slight impact
	<b>Six Mile Creek-Slatvl600rd</b> 9/1/13 42.396300N, 76.334333W Slaterville 600 Rd.	<b>19.0</b> no impact	<b>10.0</b> no impact	<b>4.94</b> slight impact	<b>66%</b> no impact	analyzed live	<b>8.5</b> no impact
	<b>Six Mile Creek-upstm GerCrs</b> 9/1/13 42.402909 N, 76.436369 W German Cross Rd	<b>11.0</b> slight impact	<b>7.0</b> slight impact	<b>5.26</b> slight impact	<b>69%</b> no impact	analyzed live	<b>6.9</b> slight impact
	<b>Six Mile Creek-blw Potters Falls</b> 8/28/13 42.419465N, 76.465312W first good riffle dwnstrm of Potters Falls	<b>12.5</b> slight impact	<b>5.5</b> slight impact	<b>4.41</b> no impact	<b>53%</b> moderate impact	1022 analyzed live	<b>6.7</b> slight impact
	<b>Six Mile Creek-Plain Street</b> 8/31/13 42.434082, -76.504191 just downstream of Plain St. Bridge	<b>9.0</b> moderate impact	<b>5.5</b> slight impact	<b>3.84</b> no impact	<b>58%</b> slight impact	analyzed live	<b>6.5</b> slight impact
	<b>Fall Creek</b> 10/16/13 42.457884, -76.437961 Freese Rd	<b>11.5</b> slight impact	<b>7.5</b> no impact	<b>4.34</b> no impact	<b>68%</b> no impact	1220	<b>7.5</b> no/slight impact
	<b>Cascadilla Creek</b> 6/15/13 42.447921, -76.501958 Hancock Bridge	<b>Tier 2 Protocols Used</b>	<b>6.5</b> slight impact	<b>5.80</b> moderate impact	<b>41%</b> moderate impact	1392	<b>Tier 2 Protocols Used</b>
	<b>Trumansburg Creek</b> 6/29/13 42.541258N, 76.650769W King St (upstream of wstwtr trtmnt)	<b>11.5</b> slight impact	<b>7.5</b> no impact	<b>4.60</b> slight impact	<b>79%</b> no impact	3562	<b>7.5</b> no/slight impact
	<b>Trumansburg Creek</b> 6/28/13 42.540714N, 76.649079W just dwnstrm of Tburg wstwtr trtmnt	<b>8.5</b> moderate impact	<b>3.5</b> slight impact	<b>5.60</b> moderate impact	<b>44%</b> moderate impact	6292	<b>4.7</b> moderate impact
	<b>**Mill Creek</b> 5/3/13 42.635728, -76.634322 Atwater Rd, West of Lake Rd	<b>1.5</b> severe impact	<b>0</b> severe impact	<b>6.00</b> moderate impact	<b>21%</b> severe impact	606	<b>1.3**</b> severe impact
	Seneca Lake Watershed	<b>Tug Hollow (Logan) Creek</b> 5/12/13 42.423581N, 76.852775W upstream of CR 5 bridge	<b>14.0</b> no impact	<b>9.0</b> no impact	<b>3.83</b> no impact	<b>78%</b> no impact	1554
<b>Wylie Brook</b> 4/29/13 42.19253N, 75.61975W Off of Rte 235		<b>14.0</b> no impact	<b>9.0</b> no impact	<b>3.37</b> no impact	<b>67%</b> no impact	430	<b>8.4</b> no impact
Susquehanna River Watershed	<b>***Danby Creek</b> 8/24/13 42.32857 -76.426048 southernmost site, Halton property	<b>14.0</b> no impact	<b>6.5</b> slight impact	<b>4.68</b> slight impact	<b>63%</b> slight impact	900	<b>7.4***</b> slight impact
	<b>****Bumps Creek</b> 9/21/13 42.23035N, 75.53273W	<b>12.0</b> slight impact	<b>9.0</b> no impact	<b>3.50</b> no impact	<b>71%</b> no impact	--	<b>8.1****</b> no impact

Samples collected and analyzed using Hudson Basin River Watch Tier 3 Protocols ([www.hudsonbasin.org](http://www.hudsonbasin.org)) unless otherwise noted.

BAP is a composite index of aquatic habitat quality that incorporates Total Family Richness, Family Biotic Index, EPT Richness and Percent Model Affinity.

\* Note on Data for W. Branch Cayuga Inlet Site: Probably not all organisms were pulled out of the sub-samples for the two replicates. Sorting for each rep was done during a 45 minute period by Newfield HS students and may not be totally complete. Family Biotic Index and Percent Model Affinity (and subsequently BAP) may be off as a result.

\*\* Note: Physical habitat may not have been ideal for sampling. It is difficult to tell if this affected the results. Volunteers plan to sample a nearby, more ideal location this year to evaluate stream health.

\*\*\* Analysis of the two replicate samples for this site were not adequately similar

\*\*\*\* These metrics are based on data from only one of the two replicate sampes since the other replicate only had 59 organisms identified (metrics are based on 100 organism sub-sample)