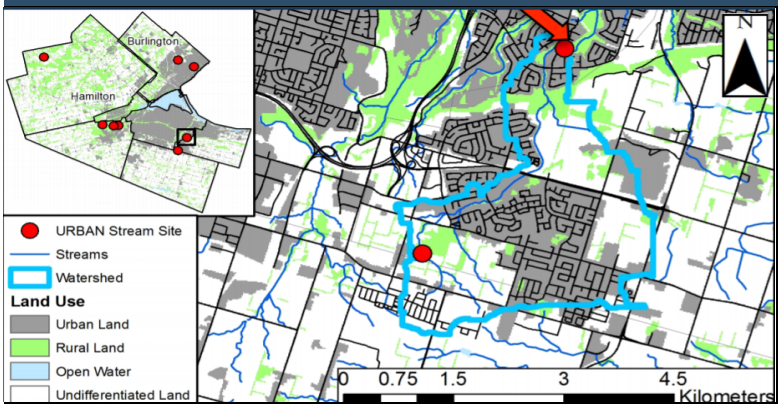
Report Card: Veevers Dr.

Site Information

Stream	Felker Creek
Land Management	Hamilton Conservation Authority (HCA)
URBAN Monitoring	Sampled in: May 2010-2014, 2017
Urban Land Use	51.7% in watershed
Road Density	125.5 m/ha in watershed
Ecological Importance	Urban creek in residential area

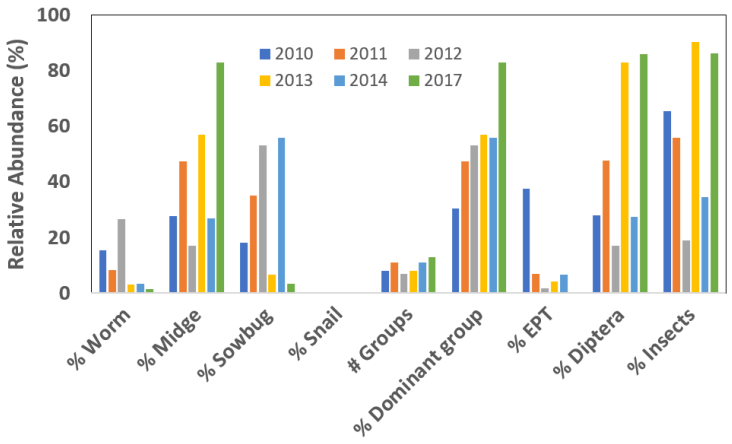
Site Map



Results

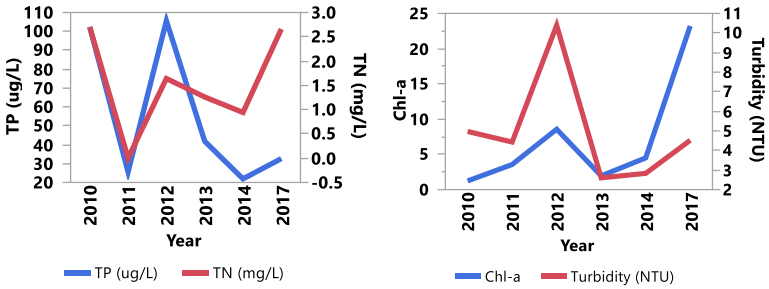
Stream Benthic Invertebrates

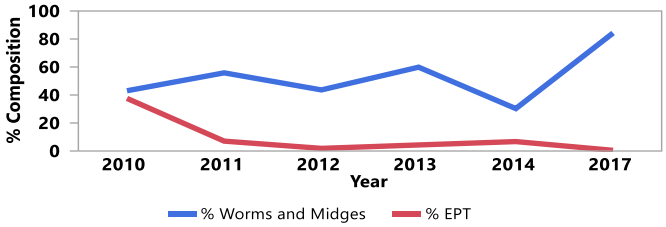
Indicator	Score					
	2010	2011	2012	2013	2014	2017
Total Abundance	330	369	479	162	208	2100
Species Richness	8	11	7	8	11	13
% EPT	37.60	7.05	1.88	4.32	6.73	0.48
% Worms & Midges	43.00	55.80	43.60	59.90	30.29	84.29
HBI	6.48	7.22	7.74	6.66	7.33	6.90



Water Quality

Parameter	Score						Parameter	Score					
	2010	2011	2012	2013	2014	2017		2010	2011	2012	2013	2014	2017
Total Phosphorus (ug/L)	102.4	25.58	105.6	41.8	21.89	32.62	Chlorophyll-α (ug/L)	1.23	3.56	8.57	1.95	4.5	23.22
Total Nitrogen (mg/L)	2.70	0	1.64	1.26	0.941	2.66	Turbidity (NTU)	4.97	4.43	10.39	2.60	2.83	4.52
Conductivity (mS/cm^3)	782	405	519	1201	1090	1150	pH	8.22	8.55	8.06	7.19	—	7.97





Site Summary

- Phosphorus levels have dropped considerably; however, nitrogen levels are rising
- High turbidity and conductivity from urban runoff (suspended solids, road salts)
- Pollution-tolerant worms and midges continue to outweigh pollution-intolerant EPT taxa (mayflies, stoneflies, caddisflies)
- Water quality parameters indicate degraded conditions; exceptionally high chlorophyll levels result from thick algal mats covering the waterway; this has a negative impact on the aquatic community

Overall Status 2017: Impaired