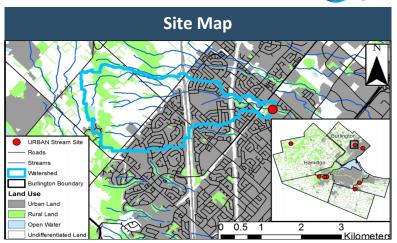
Report Card: Palmer Park

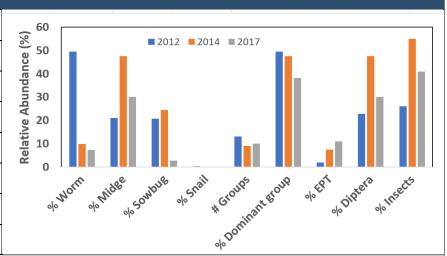


Site Information							
Stream	Tuck Creek, Burlington						
Land Management	Halton Region Conservation Authority (HRCA)						
URBAN Monitoring	Sampled May 2012, 2013, 2014, 2017						
Urban Land Use	31.8% in watershed						
Road Density	54.1 m/ha in watershed						
Ecological Importance	Urban stream in public park						



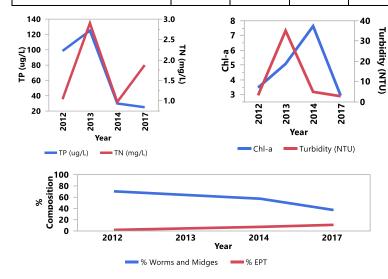
Results

Stream Benthic Invertebrates Score Indicator 2012 2014 2017 **Total Abundance** 311 82 550 **Species Richness** 13 9 10 **% EPT** 1.93 7.32 10.909 70.4 57.32 37.27 % Worms & Midges **HBI** 7.5 7.16 6.4



Water Quality

Parameter	Score			Davamatar	Score				
	2012	2013	2014	2017	Parameter	2012	2013	2014	2017
Total Phosphorus (ug/L)	98.5	124.97	29.87	24.99	Chlorophyll-α (ug/L)	3.47	5.08	7.64	2.93
Total Nitrogen (mg/L)	1.04	2.90	0.973	1.88	Turbidity (NTU)	3.25	35.13	4.97	2.84
Conductivity (mS/cm³)	499	662	920	1035	рН	7.74	7.1	_	7.9



Site Summary

- Nitrogen and phosphorus levels are quite high; this is largely a reflection of the highly urbanized surroundings
- Chlorophyll values remain relatively high as well; this corresponds with the high phosphorus loading in the stream
- The stream is dominated by pollution-tolerant worms and midges, though they appear to be declining as EPT numbers (pollutionintolerant mayflies, caddisflies and stoneflies) rise
- Conductivity has been rising, reflecting greater inputs of suspended solids and road salts
- Water quality and benthic community remain degraded

