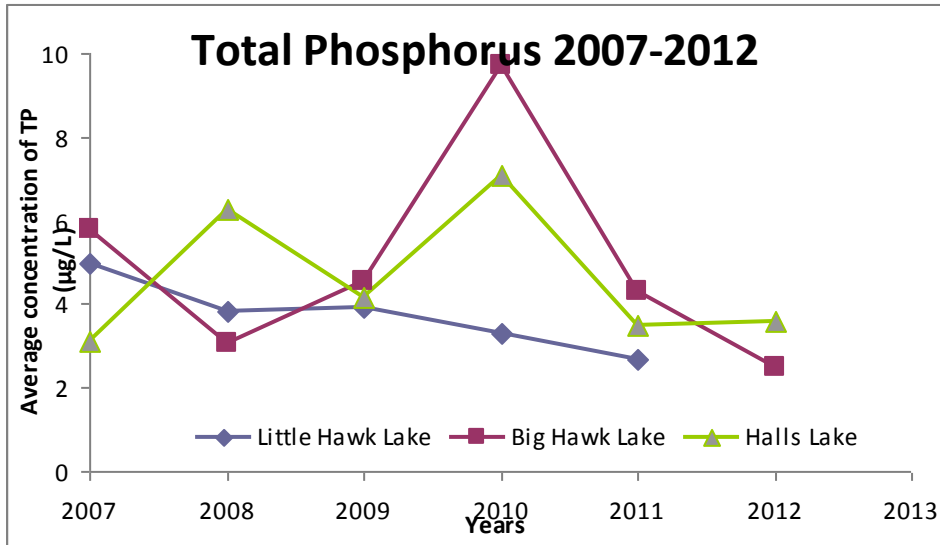


Water transparency or Secchi Depth measurements are a good indicator of algal productivity within the water column and has a direct connection to phosphorus concentrations in a lake. Other factors such as "the amount of dissolved organic carbon (DOC) or non-biological turbidity also plays an important role in the water clarity/light penetration" (MOE 2013). Water transparency measurements can also be an indicator of the presence of invasive species (i.e., zebra mussels) (MOE). The Lake Partner Program's volunteer's track the secchi disk readings over the summer months and an average is calculated for the entire year.

Little Hawk	
Year	Secchi Depth (meters)
2007	7.9
2008	6.4
2009	6.8
2010	6.6
2011	6.4
2012	6.41875
2013	6.4375
*2012=Ave of 2011+2013	
*2010=Ave of 2009 +2011	

Big Hawk	
Year	Secchi Depth (meters)
2007	7.2
2008	6.1
2009	6.9
2010	6.5
2011	6.1
2012	5.95625
2013	5.8125
*2012=Ave of 2011+2013	
*2010=Ave of 2009 +2011	

Halls Lake	
Year	Secchi Depth (meters)
2007	8.5
2008	7.9
2009	7.7
2010	8.4
2011	7.8
2012	7.25
2013	6.35



Phosphorus levels of the three lakes fall well below the Provincial guideline of 20 (µg/L) as the highest concentration reading was 9.7(µg/L) in Big Hawk Lake during the year of 2010.

Halls Lake	Average (µg/L)
2007	3.1
2008	6.25
2009	4.15
2010	7.1
2011	3.5
2012	3.6

Little Hawk Lake	Average (µg/L)
2007	5
2008	3.85
2009	3.9
2010	3.3
2011	2.7

Big Hawk Lake	Average (µg/L)
2007	5.8
2008	3.05
2009	4.55
2010	9.7
2011	4.3
2012	2.5