

# ASSOCIATION DES PROPRIÉTAIRES DU LAC DORÉ

## ENVIRONNEMENTAL REPORT 2018

### The RSVL program

The RSVL (Voluntary Lake Monitoring Network) program comes from the Ministry of Sustainable Development, Environment and Climate Change (MDDELCC). In 2018, three series of samplings were sent to the department's laboratory, the Quebec Center of Expertise in Environmental Analysis.

The average results for all the parameters (and especially for phosphorus) show that all the parameters analyzed are in the zone of the very good results.

The following table shows the average values measured by the RSVL and the local laboratory in recent years. Transparency was measured by the APLD.

Year	Phosphore Total mg/m <sup>3</sup>	Chlorophyll mg / L	Organic carbon dissolved mg / L	Transparency meters
2007	3			
2008	2			
2009 <sup>(1)</sup>	3,5	3	2,6	7,7
2011	6,4			
2012 <sup>(1)</sup>	2,8	1,4	2,6	
2013	7,3			
2014	7,0			
2015 <sup>(1)</sup>	3,0	2,3	2,2	7,3
2016 <sup>(1)</sup>	4,6	1,4	2,2	7,0
2017	1,4	1,6	2,1	6,1
2018	5,5	1,2	2,1	7,1
Excellent	< 4	< 1		> 10
Très bon	< 7	< 2,5		> 6

## **Transparency**

As part of the follow-up of the RSVL, we conducted nine measures of transparency. The average measured value for the summer of 2018 was 7.1 meters, which is considered excellent (oligotrophic lake) by the Ministry of the Environment. However, there was one measurement (4.3 meters on August 3) that showed a clear deterioration of this parameter. This decrease in transparency corresponded to a visible but weak presence of cyanobacteria.

In addition, according to the Ministry of the Environment, transparency values greater than 6.0 meters are considered very good.

It can be noted that the average transparency of 2018, has been in the normal of previous years

## **Bacteriological analysis**

Three sets of samplings were made in front of each beach. The results are excellent. (see table in annex)

## **Presence of blue-green algae (cyanobacteria)**

There were four reports of floating material, the majority located in the southeast sector of the lake (between St-Michel and St-Lucie Streets) on July 30 and 31, August 11 and August 19. According to observers, the July reports are likely to be related to cyanobacteria (greenish moss and boiled corn odor). The other two reports (August) are associated with whitish streaks, with no characteristic odor. In all these cases, the concentrations of floating materials were not very important and disappeared around 10:00/10:30 hrs. These four events were reported to the Ministry of Environment by the municipality.

## **The Master Plan of the Laurentides Regional Environmental Council**

In the summer of 2017, the CRE conducted a study (Master Plan) on Lac Doré. Due to administrative issues, there have been no immediate follow-up to this report but a joint APLD / municipality committee from Val-David was created in late 2018 and is expected to work on the implementation of the key recommendations in 2019.

**Roger Tessier**

**Consultant en environnement**

**Vice-président environnement et écologie APLD 2018-2019**