

# WATER QUALITY MONITORING - LAKE HUGHES

## RSVL RESULTS – SUMMARY 2010-2023

### LAKE TROPHIC CLASSIFICATION

<b>ULTRA-OLIGOTROPIC</b>	No signs of eutrophication /lake aging
<b>OLIGOTROPIC</b>	Little or no signs of eutrophication
<b>OLIGO-MESOTROPIC</b>	Some signs of eutrophication
<b>MESOTROPIC</b>	Intermediate stage of eutrophication
<b>MESO-EUTROPIC</b>	Advanced intermediate stage of eutrophication
<b>EUTROPIC</b>	Significantly advanced stage of eutrophication

Phosphorus	Stimulates growth of plants & algae
Chlorophyll <i>a</i>	Algae measurement
Dissolved Organic Carbon	Water color having an impact on transparency
Transparency	Water clarity

► RSVL PHOSPHORUS TEST RESULTS BEFORE 2018 ARE UNDER REVISION

LAKE HUGHES SAMPLING STATION: RSVL #571: at the deepest area of the lake (26,8 m)

	Phosphorus Total trace (µg/l)	Chlorophyll <i>a</i> (µg/l)	Dissolved Organic Carbon (mg/l)	Transparency (meters) No. measurements	COMBINED RESULTS  <b>TROPIC LEVEL OF LAKE HUGHES</b>
2010	6,2	3,2	5,9 (colored)	(11) 4,7 m	OLIGO-MESOTROPIC
2011	6	3,2	5,2 (colored)	(12) 4,6 m	OLIGO-MESOTROPIC
2012	3,4	3,8	5,3 (colored)	(12) 3,9 m	OLIGO-MESOTROPIC
2013				(4) 5 m	
2014				(4) 4,8 m	
2015				(5) 4,3 m	
2016	3,4	2,7	5 (colored)	(12) 4,7 m	OLIGO-MESOTROPIC
2017					
2018	4,7	2,6	4,7 (colored)	(13) 4,8 m	OLIGO-MESOTROPIC
2019	6,7	2,9	5,6 (colored)	(11) 4,3 m	OLIGO-MESOTROPIC
2020	4,8	3,0	4,8 (colored)	(11) 4,4 m	OLIGO-MESOTROPIC
2021	6,4	2,4	4,7 (colored)	(10) 4,6 m	OLIGOTROPIC
2022	7,1	3,8	6,8 (very colored)	(11) 3,9 m	OLIGO-MESOTROPIC
2023	6,9	3,7	6,7 (very colored)	(11) 3,5 m	OLIGO-MESOTROPIC

The trophic status of a lake must be interpreted with caution – the monitoring must be done over time to establish a trend.

INFO & COMPLETE REPORTS ARE AVAILABLE ON THE RSVL & CRE LAURENTIDES (Atlas des lacs) WEBSITES

<https://www.environnement.gouv.qc.ca/Eau/rsvl/index.htm>

<https://crelaurentides.org/>