



Analytical Report

Bill To:	Rosen Lake Ratepayers 113 Aspen Meadows Hill SW Calgary, AB, Canada T3H 0G3	Project ID: Project Name: Project Location: LSD: P.O.:	Lo t ID: Control Number: Date Received: Date Reported: Report Number: Report Type: Final Report
A	Scott Cote	Proj. Acct. code:	1741413
tn: Sampled			
By: Company:			

Reference Number	1741413-1
Sample Date Sample	June 24, 2024
Time Sample Location	14:00
Sample Description	
Sample Matrix	Rosen Lake Water / 3.3°C Water

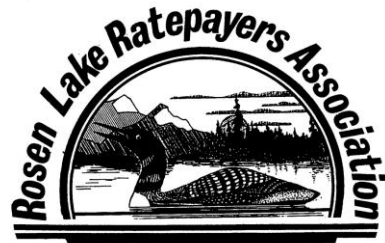
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Microbiological Analysis						
Total Coliforms	Membrane Filtration	CFU/100 mL	<1	1	0	Absent - Below MAC
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Below AO
Turbidity		NTU	0.4	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH			8.33	1	7.0-10.5	Within OG Range
Temp. of observed pH		°C	21.0			
Electrical Conductivity	at 25 °C	µS/cm	253	1		
Calcium	Extractable	mg/L	32.3	0.2		
Magnesium	Extractable	mg/L	11.6	0.2		
Sodium	Extractable	mg/L	2.3	0.4	200	Below AO
Potassium	Extractable	mg/L	<0.4	0.4		
Iron	Extractable	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Extractable	mg/L	<0.005	0.005	0.02 AO;	Below AO
					0.12	
					MAC	
Chloride	Dissolved	mg/L	1.1	0.4	250	Below AO
Fluoride		mg/L	0.07	0.05	1.5	Below MAC
Nitrate - N		mg/L	<0.01	0.01	10	Below MAC
Nitrite - N		mg/L	<0.005	0.005	1	Below MAC
Nitrate and Nitrite - N		mg/L	<0.01	0.01	10	Below MAC
Sulfate (SO4)	Extractable	mg/L	13	0.9	500	Below AO
Hydroxide		mg/L	<5			
Carbonate		mg/L	<6			
Bicarbonate		mg/L	151			
P-Alkalinity	as CaCO3	mg/L	<5	5		
T-Alkalinity	as CaCO3	mg/L	124	5		
Total Dissolved Solids		mg/L	135	1	500	Below AO
Hardness	as CaCO3	mg/L	129.0			
Ionic Balance		%	96			



Approved by:

David
Kapiczowski,
BSc Operations
Customer
Support

Data have been
validated by Analytical



	SAMPLE IDENTIFICATION												Canadian Drinking Water Quality*	BCMOECC Drinking Water Quality
	Rosen Lake													
Location	Inlet		Centre								Outlet			
Sample Date	8-Jun-2014	10-Aug-2014	8-Jun-2014	10-Aug-2014	17-Aug-2020	6-Sep-2021	12-Jun-2022	2-Oct-2022	6-Jun-2023	24-Jun-2024	8-Jun-2014	10-Aug-2014		
Microbiological														
<i>Escherichia coli</i>	NM	NM	NM	NM	NM	NM	1	<1	NM	NM	NM	NM	0 per 100 mL	<=10 per 100 mL
Total coliforms	<1	<1	<1	<1	NM	NM	1	10.9	<1	<1	<1	<1	0 per 100 mL	<=10 per 100 mL
Routine Parameters														
pH	NM	NM	NM	NM	8.22	8.12	8.19	NM	8.34	8.33	NM	NM	7.0 - 10.5	---
EC	NM	NM	NM	NM	0.27	0.266	0.262	NM	0.263	0.253	NM	NM	---	---
T-Alkalinity (CaCO ₃)	NM	NM	NM	NM	120	130	129	NM	132	124	NM	NM	---	---
TDS	NM	NM	NM	NM	130	149	144	NM	146	135	NM	NM	500	500
Hardness (as CaCO ₃)	NM	NM	NM	NM	139	146	140	NM	142	129	NM	NM	NGR	NGR
Colour (colour units)	NM	NM	NM	NM	NM	<5	<5	NM	<5	<5	NM	NM	15	15
Turbidity (NTU)	NM	NM	NM	NM	NM	0.8	0.9	NM	1.1	0.4	NM	NM	1	1
Calcium	NM	NM	NM	NM	33.8	36.7	36.1	NM	35.8	32.3	NM	NM	NGR	NGR
Chloride	NM	NM	NM	NM	0.845	0.8	0.9	NM	0.9	1.1	NM	NM	250	250
Fluoride	NM	NM	NM	NM	<DL	0.16	0.07	NM	0.09	0.07	NM	NM	1.5	1.5
Iron	NM	NM	NM	NM	<DL	<0.01	<0.01	NM	<0.01	<0.01	NM	NM	0.3	0.3
Potassium	NM	NM	NM	NM	2.35	0.5	<0.4	NM	<0.4	<0.4	NM	NM	---	---
Magnesium	NM	NM	NM	NM	13.3	13.1	12.2	NM	12.7	11.6	NM	NM	NGR	NGR
Manganese	NM	NM	NM	NM	<DL	<0.005	<0.005	NM	<0.005	<0.005	NM	NM	0.12	0.12
Nitrate-N	0.03	<0.01	0.01	<0.01	0.31	0.01	0.01	NM	0.01	<0.01	0.02	<0.01	45	45
Nitrite-N	NM	NM	NM	NM	NM	<0.005	<0.005	NM	<0.005	<0.005	NM	NM	3.2	3
Orthophosphate	<0.01	<0.01	<0.01	<0.01	0.086	<0.01	<0.01	NM	NM	NM	<0.01	<0.01	---	---
Sodium	NM	NM	NM	NM	27.6	2.6	2.3	NM	2.2	2.3	NM	NM	200	---
Sulphate	NM	NM	NM	NM	5.42	17	15	NM	15	13	NM	NM	500	500
Metals														
Zinc	NM	NM	NM	NM	<DL	<0.004	<0.004	NM	NM	NM	NM	NM	5	3