

# Well Water

Annual Report  
202,

## McKenzie

1625 Lakeshore Drive  
Shuniah ON P7A 0T2

Drinking Water System Number  
**260009932**



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**ANNUAL WELL WATER REPORT**

**LAKEHEAD DISTRICT SCHOOL BOARD**

**McKENZIE PUBLIC SCHOOL**

1625 Lakeshore Drive, Shuniah, ON P7A 0T2

Drinking-water System Number: **260009932**

The Period being reported: **January 1, 2023 TO December 31, 2023**

Waterworks Type (O. Reg. 170/03): **SMALL NON-MUNICIPAL NON-RESIDENTIAL DESIGNATED FACILITY**

Population Served: **80**

Maximum flow rate Capacity: **1.26 Litres per second**

Is this drinking-water system seasonally operated? **NO**

Area serviced by the Drinking-water system: **SCHOOL**

*The following questions about designated and public facilities are for Small municipal non residential systems only*

Number of designated facilities served by the drinking-water system: **ONE**

Name of each designated facility: **McKENZIE PUBLIC SCHOOL**

Address of each designated facility: **1625 Lakeshore Drive, Shuniah, ON P7A 0T2**

Interested Authority for each designated facility served: **MINISTRY OF EDUCATION**

**1. DESCRIPTION OF THE SYSTEM:**

Source(s) of raw water:

☒ **Groundwater**

☐ Surface

☐ Ground water under direct influence of surface water

If the source is groundwater or GUDI:

Groundwater: **Yes**

GUDI: **NO**

Number of wells: **ONE**

Sample location names:

Raw: **WELL OUTLET**

Treated Water: **CLASSROOM**

List of chemicals used: **Chlorine**

Does the Drinking-water system have disinfection: **YES**

Disinfection methods: (Check the boxes that apply)

- ☒ **Chlorination**
- ☐ Chloramination
- ☐ Chlorine Dioxide
- ☐ Ozonation
- ☐ UltraViolet
- ☐ Others – Specify

Treatment type: (Check the boxes that apply)

- ☐ Coagulation
- ☐ Flocculation
- ☐ Sedimentation
- ☐ Filtration
- ☐ Filter Medium
- ☐ Membrane Filtration
- ☐ Membrane Filtration Type
- ☐ Alkalinity Adjustment
- ☐ pH Adjustment
- ☐ Clarifier- Sludge Blanket
- ☐ Clarifier – Upflow
- ☐ Dissolved Air Flotation
- ☐ Fluoridation
- ☐ Iron Sequestering
- ☐ Softening
- ☐ Stripping
- ☒ **Taste and Odour Control**
- ☐ Zebra Mussel Control

## **2. Adverse Results**

Total number of adverse results during this reporting period for microbiological, chemical, chlorine residual, malfunction of other disinfection equipment, turbidity:  
For each incident of adverse result please list the following:

No adverse conditions for this reporting period.

**3. Summary of results**

Regulation 170 lab analysis results are summarized in appendix A.

Regulation 243 lab analysis results are summarized in appendix B.

5 year inorganic sampling was completed in 2020. Next 60 month tests are due in 2025.

**5. Major Expenses incurred during the period covered by the report**

To install required equipment: **N/A**

To repair equipment: **N/A**

To replace equipment: **\$10,000**

**6. Providing information relating to compliance with the regulation:**

A copy of the annual report given to each designated facility served by the drinking-water system;

**Yes**

A copy of the annual report given to each Interested Authority of each designated facility served by the drinking-water system

**Yes, the Ministry of Education**

A copy of the annual report will be provided to every person who requests a copy

**Yes, by contacting the school main office or the Board's web site**

Means that were used to share the information in this annual report:

**Web Site: [www.lakeheadschoools.ca](http://www.lakeheadschoools.ca)**

Date of the report: June 14, 2024

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Description	Sample Tags	Sample Name	Sampling Date	Anions and Nutrients		Microbiological Tests					Physical Tests		Total Metals
				Nitrate (as N) mg/L	Nitrite (as N) mg/L	Coliforms, Escherichia coli [E. coli] MPN/100mL	Coliforms, Escherichia coli [E. coli] P/A/100mL	Coliforms, total MPN/100mL	Coliforms, total P/A/100mL	Heterotrophic plate count [HPC] CFU/mL	Turbidity NTU	Lead, total µg/L	
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	03-01-2023			<1	Not Detected	<1	Not Detected	44			
Distribution	McKenzie PS Reg. 170	Distribution Room 10	03-01-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	03-01-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	17-01-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Day Care	17-01-2023				Not Detected		Not Detected	3			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	17-01-2023				Not Detected		Not Detected	1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	31-01-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	31-01-2023				Not Detected		Not Detected	106			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	31-01-2023				Not Detected		Not Detected	7			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	14-02-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Day Care	14-02-2023				Not Detected		Not Detected	7			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	14-02-2023				Not Detected		Not Detected	19			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	02-03-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	02-03-2023				Not Detected		Not Detected	18			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	02-03-2023				Not Detected		Not Detected	6			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	14-03-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Day Care	14-03-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	14-03-2023				Not Detected		Not Detected	<1			
Treated	McKenzie PS Reg. 170	Treated Water McKenzie	14-03-2023	<0.020	<0.010								
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	28-03-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 2	28-03-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Room 10	28-03-2023				Not Detected		Not Detected	6			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	11-04-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution JK Room	11-04-2023				Not Detected		Not Detected	32			
Distribution	McKenzie PS Reg. 170	Distribution Day Care	11-04-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	27-04-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	27-04-2023				Not Detected		Not Detected	39			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	27-04-2023				Not Detected		Not Detected	7			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	09-05-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Day Care	09-05-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	09-05-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	23-05-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	23-05-2023				Not Detected		Not Detected	46			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	23-05-2023				Not Detected		Not Detected	12			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	06-06-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution JK Room	06-06-2023				Not Detected		Not Detected	179			
Distribution	McKenzie PS Reg. 170	Distribution Room 1	06-06-2023				Not Detected		Not Detected	206			
Distribution	McKenzie PS Reg. 170	Distribution Day Care	12-06-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	JK/SK Lunch Room	22-06-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	22-06-2023			<1	Not Detected	<1	Not Detected				
Treated	McKenzie PS Reg. 170	Treated Water McKenzie	22-06-2023	<0.020	<0.010								
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	28-08-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	28-08-2023				Not Detected		Not Detected	1			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	28-08-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	29-08-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 1	29-08-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	29-08-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	12-09-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 1 Daycare	12-09-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution JK Room	12-09-2023				Not Detected		Not Detected	<1			
Treated	McKenzie PS Reg. 170	Treated Water McKenzie	12-09-2023	<0.020	<0.010								
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	26-09-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 2	26-09-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Room 10	26-09-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	10-10-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution JK Room	10-10-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Day Care	10-10-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	24-10-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	24-10-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	24-10-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	07-11-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution JK Room	07-11-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Day Care	07-11-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	21-11-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	21-11-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	21-11-2023				Not Detected		Not Detected	<1			
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	05-12-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Day Care Rm 1	05-12-2023				Not Detected		Not Detected	<1			
Distribution	McKenzie PS Reg. 170	Distribution-JK/SK Rm	05-12-2023				Not Detected		Not Detected	<1			
Treated	McKenzie PS Reg. 170	Treated Water McKenzie Rm 10	05-12-2023	<0.020	<0.010								
Raw	McKenzie PS Reg. 170	Raw Water Pump Room	19-12-2023			<1	Not Detected	<1	Not Detected				
Distribution	McKenzie PS Reg. 170	Distribution Room 10	19-12-2023				Not Detected		Not Detected	57			
Distribution	McKenzie PS Reg. 170	Distribution Room 2	19-12-2023				Not Detected		Not Detected	7			

[illegible]