

# Well Water

Annual Report  
2025

## Kingfisher Lake *Outdoor Education Centre*

Hwy 527 (Spruce River Road)  
Shuniah, ON P7A 0X5

Drinking Water System Number  
**260009919**



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**ANNUAL WELL WATER REPORT**

**LAKEHEAD DISTRICT SCHOOL BOARD**

**KINGFISHER OUTDOOR SCHOOL**

**In care of C.D. Howe School, 30 Wishart Cres.  
THUNDER BAY, ONT. P7A 6G3**

Drinking-water System Number: **260009919**

The Period being reported: **January 1 2025 TO December 31, 2025**  
Waterworks Type (O. Reg. 170/03): **SMALL NON-MUNICIPAL NON-RESIDENTIAL DESIGNATED FACILILTY**  
Population Served: **VARIES**

Maximum flow rate Capacity: **0.42 Litres per second**  
Is this drinking-water system seasonally operated? **NO**  
Area serviced by the Drinking-water system: **OUTDOOR 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: **KINGFISHER OUTDOOR SCHOOL**  
Address of each designated facility - **In care of C.D. Howe School, 30 Wishart Cres.  
THUNDER BAY, ONT. P7A 6G3**

Interested Authority for each designated facility served: **MINISRTY 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 - PUMP ROOM**

Treated Water Distribution Point: **KITCHEN**

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:

Mar 14, 2025 – Total Coliform Exceedance

- Corrective Actions:
  - Fixture Disinfected
  - Flushed
  - Re-sampled Mar 16 and passed laboratory analysis

Dec 4, 2025 – Installation of contact tank standpipe

Corrective Actions:

- Signage posted
- Bottled water supplied
- Stand pipe kit on order from manufacturer
- After installing re-sampled

### 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 sampling lab analysis results are summarized in appendix C. Next 60-month tests are due in 2030.

### 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: **\$12,000**

### 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, to the Ministry of Education**

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

**Yes, by contacting the Kingfisher 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 March 25, 2026

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<b>Sample</b>			
Evaluation		Within Limit	
Matrix		Water/Drinking Water - Regulated	
Sample Tags		Kingfisher PS Reg 170	
Total Samples		12 raw / 12 Distribution	
<b>Batch</b>			
Site		260009919	
Evaluation		Within Limit	
	<b>Min. LOR</b>	<b>CAS Number</b>	
<b>Microbiological Tests</b>			
Coliforms, Escherichia coli [E. coli] MPN/100mL	1		<1
Coliforms, Escherichia coli [E. coli] P/A/100mL			Not Detected
Coliforms, total MPN/100mL	1		<1
Coliforms, total P/A/100mL			Not Detected
Heterotrophic plate count [HPC] CFU/mL	1		0 - >300

			TY2503047-003 (1)	TY2504937-001 (1)	TY2511561-003 (1)	TY2514532-003 (1)
<b>Sample</b>						
Received Date			01-04-2025	16-05-2025	08-10-2025	11-12-2025
Evaluation			Within Limit	Within Limit	Within Limit	Within Limit
Matrix			Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description			Treated	Treated	Treated	Treated
Sample Tags			Kingfisher PS Reg 170	Kingfisher PS Reg 170	Kingfisher PS Reg 170	Kingfisher PS Reg 170
Sample Name			Kingfisher Treated Water Post-treatment	Kingfisher Treated Water Post-treatment	Kingfisher Treated Water Post-treatment	Kingfisher Treated Water Post-treatment Tap in Water Room
Sampling Date			01-04-2025	15-05-2025	07-10-2025	11-12-2025
ALS ID			TY2503047-003	TY2504937-001	TY2511561-003	TY2514532-003
<b>Batch</b>						
Received Date			01-04-2025	16-05-2025	08-10-2025	11-12-2025
Site			260009919	260009919	260009919	260009919
Evaluation			Within Limit	Within Limit	Within Limit	Within Limit
Job #			260009919	260009919	260009919	260009919
	<b>Min. LOR</b>	<b>CAS Number</b>				
<b>Anions and Nutrients</b>						
Nitrate (as N) mg/L	0.020	14797-55-8	0.021	0.045	<0.020	0.052
Nitrite (as N) mg/L	0.010	14797-65-0	<0.010	<0.010	<0.010	<0.010

		TY2505140-001 (1)	TY2505140-002 (1)
<b>Sample</b>			
Received Date		21-05-2025	21-05-2025
Evaluation		Within Limit	Within Limit
Matrix		Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description		Plumbing Standing	Plumbing Flushed
Sample Tags		Kingfisher PS Reg 243 Leads	Kingfisher PS Reg 243 Leads
Sample Name		Kingfisher 2A Kitchen	Kingfisher 2B Kitchen
Sampling Date		20-05-2025	20-05-2025
ALS ID		TY2505140-001	TY2505140-002
<b>Batch</b>			
Received Date		21-05-2025	21-05-2025
Site		500021919	500021919
Evaluation		Within Limit	Within Limit
Job #		500021919	500021919
	<b>Min. LOR</b>		
<b>Total Metals</b>			
Lead, total µg/L	1.0	<1.0	<1.0

		TY2504923-001 (1)	TY2504937-001 (1)
<b>Sample</b>			
Received Date		16-05-2025	16-05-2025
Evaluation		Within Limit	Within Limit
Matrix		Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description		Treated	Treated
Sample Tags		Kingfisher PS Reg 170	Kingfisher PS Reg 170
Sample Name		Kingfisher Treated Water Post-treatment	Kingfisher Treated Water Post-treatment Tap in Water Room
Sampling Date		15-05-2025	15-05-2025
ALS ID		TY2504923-001	TY2504937-001
<b>Batch</b>			
Received Date		16-05-2025	16-05-2025
Site		260009919	260009919
Evaluation		Within Limit	Within Limit
Job #		260009919	260009919
	<b>Min. LOR</b>	<b>CAS Number</b>	
<b>Chlorinated Phenolics</b>			
Dichlorophenol, 2,4- µg/L	0.20	120-83-2	<0.20
Pentachlorophenol [PCP] µg/L	0.50	87-86-5	<0.50
Tetrachlorophenol, 2,3,4,6- µg/L	0.50	58-90-2	<0.50
Trichlorophenol, 2,4,6- µg/L	0.20	88-06-2	<0.20
<b>Herbicides</b>			
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA] mg/L	0.000050	94-74-6	<0.000050
Alachlor µg/L	0.050	15972-60-8	<0.050
Atrazine + N-dealkylated metabolites µg/L	0.14		<0.14
Atrazine µg/L	0.100	1912-24-9	<0.100
Atrazine-desethyl µg/L	0.100	6190-65-4	<0.100
Bromoxynil µg/L	0.250	1689-84-5	<0.250
Dicamba µg/L	0.10	1918-00-9	<0.10
Dichlorophenoxyacetic acid, 2,4- [2,4-D] µg/L	0.050	94-75-7	<0.050
Diclofop-methyl µg/L	0.10	51338-27-3	<0.10
Diquat (ion) µg/L	1.0	2764-72-9	<1.0
Diuron µg/L	0.050	330-54-1	<0.050
Glyphosate µg/L	1.0	1071-83-6	<1.0
Metolachlor µg/L	0.025	51218-45-2	<0.025
Metribuzin µg/L	0.10	21087-64-9	<0.10
Paraquat (as dichloride) µg/L	1.0	1910-42-5	<1.0
Picloram µg/L	0.50	1918-02-1	<0.50
Prometryn µg/L	0.025	7287-19-6	<0.025
Simazine µg/L	0.10	122-34-9	<0.10
Triallate µg/L	0.10	2303-17-5	<0.10
Trifluralin µg/L	0.10	1582-09-8	<0.10
<b>Herbicides Surrogates</b>			
Dichlorophenylacetic acid, 2,4- µg/L	1.0	19719-28-9	10.9
<b>Insecticides</b>			
Azinphos-methyl µg/L	0.10	86-50-0	<0.10
Carbaryl µg/L	0.050	63-25-2	<0.050
Carbofuran µg/L	0.025	1563-66-2	<0.025
Chlorpyrifos µg/L	0.10	2921-88-2	<0.10
Diazinon µg/L	0.025	333-41-5	<0.025
Dimethoate µg/L	0.050	60-51-5	<0.050
Malathion µg/L	0.025	121-75-5	<0.025
Phorate µg/L	0.25	298-02-2	<0.25
Terbufos µg/L	0.50	13071-79-9	<0.50
<b>Organic / Inorganic Carbon</b>			
Carbon, dissolved organic [DOC] mg/L	1.00		
Carbon, total organic [TOC] mg/L	0.50		
<b>Phenolics Surrogates</b>			
Tribromophenol, 2,4,6- µg/L	0.50	118-79-6	57.2
<b>Physical Tests</b>			
pH pH units	0.10		
<b>Polychlorinated Biphenyls</b>			
Aroclor 1254 µg/L	0.020	11097-69-1	<0.020
Aroclor 1260 µg/L	0.020	11096-82-5	<0.020
polychlorinated biphenyls [PCBs], 1254+1260 µg/L	0.03	n/a	<0.030
<b>Polychlorinated Biphenyls Surrogates</b>			
Decachlorobiphenyl µg/L	0.1	2051-24-3	0.1
Tetrachloro-m-xylene µg/L	0.1	877-09-8	0.2
<b>Polycyclic Aromatic Hydrocarbons</b>			
Benzo(a)pyrene µg/L	0.0050	50-32-8	<0.0050
<b>Polycyclic Aromatic Hydrocarbons Surrogates</b>			
Chrysene-d12 µg/L	0.1	1719-03-5	0.8
Naphthalene-d8 µg/L	0.1	1146-65-2	0.9
Phenanthrene-d10 µg/L	0.1	1517-22-2	0.9
<b>Sample Preparation</b>			
Dissolved carbon filtration location -			
<b>Semi-Volatile Organics Surrogates</b>			
Fluorobiphenyl, 2- µg/L	1.0	321-60-8	77.3
Nitrobenzene-d5 µg/L	1.0	4165-60-0	79.4
Terphenyl-d14, p- µg/L	1.0	1718-51-0	98.5
<b>Total Metals</b>			

Antimony, total µg/L	0.60	7440-36-0		<0.60
Arsenic, total µg/L	1.0	7440-38-2		<1.0
Barium, total µg/L	10	7440-39-3		<10
Boron, total µg/L	50	7440-42-8		<50
Cadmium, total µg/L	0.10	7440-43-9		<0.10
Chromium, total µg/L	1.0	7440-47-3		<1.0
Mercury, total µg/L	0.100	7439-97-6		<0.100
Selenium, total µg/L	1.0	7782-49-2		<1.0
Sodium, total mg/L	0.50	7440-23-5		16.5
Uranium, total µg/L	2.0	7440-61-1		2.6
<b>Volatile Organic Compounds</b>				
Benzene µg/L	0.50	71-43-2	<0.50	
Carbon tetrachloride µg/L	0.20	56-23-5	<0.20	
Chlorobenzene µg/L	0.50	108-90-7	<0.50	
Dichlorobenzene, 1,2- µg/L	0.50	95-50-1	<0.50	
Dichlorobenzene, 1,4- µg/L	0.50	106-46-7	<0.50	
Dichloroethane, 1,2- µg/L	0.50	107-06-2	<0.50	
Dichloroethylene, 1,1- µg/L	0.50	75-35-4	<0.50	
Dichloromethane µg/L	1.0	75-09-2	<1.0	
Tetrachloroethylene µg/L	0.50	127-18-4	<0.50	
Trichloroethylene µg/L	0.50	79-01-6	<0.50	
Vinyl chloride µg/L	0.20	75-01-4	<0.20	
<b>Volatile Organic Compounds Surrogates</b>				
Bromofluorobenzene, 4- µg/L	1.0	460-00-4	8.8	
Difluorobenzene, 1,4- µg/L	1.0	540-36-3	9.6	