Well Water

Annual Report
2025

Five Mile

2025 Dawson Road
Thunder Bay ON P7G 2E9

Drinking Water System Number
260009867

Lakehead Public Schools

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Part III Form 2

ANNUAL WELL WATER REPORT

LAKEHEAD DISTRICT SCHOOL BOARD

FIVE MILE PUBLIC SCHOOL
2025 DAWSON RD. THUNDER BAY, ONT.
P7G 2E9

Drinking-water System Number: **260009867**
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: **260**

Maximum flow rate Capacity**: 2.83 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**: FIVE MILE PUBLIC SCHOOL**
Address of each designated facility **2026 DAWSON RD, THUNDER BAY, ONT.**
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**
Treated Water Distribution Point**: 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:

Incident date: March 29, 2025
Adverse Condition: Well Pump Failure
Corrective action: Replaced pump and clearance sampling
Corrective action date: April 8, 2025

Incident date: May 16, 2025
Adverse Condition: Sodium Exceedance
Corrective action: Removed sodium based water softener and confirmatory sampling
Corrective action date: June 20, 2025

Incident date: September 8, 2025
Adverse Condition: Chlorine Injection Issues
Corrective action: Replaced pump, lines and re-sampled
Corrective action date: Nov 24, 2025

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 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: $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.lakeheadschools.ca

Date of the report March 25, 2026
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			TY2500219-001 (1)
Sample			
Evaluation			Within Limit
Matrix			Water/Drinking Water - Regulated
Sample Tags			Five Mile PS Reg 170
Sample Name			Five Mile Raw
Total Samples			12 Raw / 24 Distrubution
Batch			
Site			260009867
Evaluation			Within Limit
	Min. LOR	**CAS Number**	
Microbiological Tests			
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		0-6

			TY2502226-005 (1)	TY2504598-001 (1)	TY2514260-004 (1)
Sample					
Received Date			07-03-2025	03-12-2025	03-12-2025
Evaluation			Within Limit	Within Limit	Within Limit
Matrix			Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description			Treated	Treated	Treated
Sample Tags			Five Mile PS Reg 170	Five Mile PS Reg 170	Five Mile PS Reg 170
Sample Name			Five Mile Treated Water	Five Mile Treated Water	Five Mile Treated Water
Sampling Date			07-03-2025	03-12-2025	03-12-2025
ALS ID			TY2502226-005	TY2514260-004	TY2514260-004
Batch					
Received Date			07-03-2025	03-12-2025	03-12-2025
Site			260009867	260009867	260009867
Evaluation			Within Limit	Within Limit	Within Limit
Job #			260009867	260009867	260009867
	Min. LOR	**CAS Number**			
Anions and Nutrients					
Nitrate (as N) mg/L	0.020	14797-55-8	<0.020	<0.020	<0.020
Nitrite (as N) mg/L	0.010	14797-65-0	<0.010	<0.010	<0.010

		TY2505999-001 (1)	TY2505999-002 (1)	TY2505999-003 (1)	TY2505999-004 (1)	TY2505999-005 (1)	TY2505999-006 (1)
Sample							
Received Date		06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025
Evaluation		Within Limit	Within Limit	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	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description		Plumbing Standing	Plumbing Flushed	Plumbing Standing	Plumbing Flushed	Plumbing Standing	Plumbing Flushed
Sample Tags		Five Mile PS Reg 243	Five Mile PS Reg 243	Five Mile PS Reg 243	Five Mile PS Reg 243	Five Mile PS Reg 243	Five Mile PS Reg 243
Sample Name		Five Mile Public School	Five Mile Public School	Five Mile Public School	Five Mile Public School	Five Mile Public School	Five Mile Public School
Sampling Date		06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025
ALS ID		TY2505999-001	TY2505999-002	TY2505999-003	TY2505999-004	TY2505999-005	TY2505999-006
Batch							
Received Date		06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025	06-06-2025
Site		500021776	500021776	500021776	500021776	500021776	500021776
Evaluation		Within Limit	Within Limit	Within Limit	Within Limit	Within Limit	Within Limit
Job #		500021776	500021776	500021776	500021776	500021776	500021776
	Min. LOR						
Total Metals							
Lead, total µg/L	1.0	4.0	1.3	<1.0	<1.0	<1.0	<1.0

			TY2504598-001 (1)	TY2504599-001 (1)	TY2505807-001 (1)	TY2506295-001 (1)
Sample						
Received Date			09-05-2025	09-05-2025	04-06-2025	06-06-2025
Evaluation			Exceeds 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			Five Mile PS Reg 170	Five Mile PS Reg 170	Five Mile PS Reg 170	Five Mile PS Reg 170
Sample Name			Five Mile Treated Water	Five Mile Treated Water	Five Mile Treated Water	Five Mile Treated Water
Sampling Date			09-05-2025	09-05-2025	03-06-2025	06-06-2025
ALS ID			TY2504598-001	TY2504599-001	TY2505807-001	TY2506295-001
Batch						
Received Date			09-05-2025	09-05-2025	04-06-2025	06-06-2025
Site			260009867	260009867	260009867	260009867
Evaluation			Exceeds Limit	Within Limit	Within Limit	Within Limit
Job #			260009867	260009867	260009867	260009867
	Min. LOR	**CAS Number**				
Chlorinated Phenolics						
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		
Herbicides						
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	0.050	1689-84-5		<0.050		
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	0.10	1918-02-1		<0.10		
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		
Herbicides Surrogates						
Dichlorophenylacetic acid, 2,4- µg/L	1.0	19719-28-9		12.0		
Insecticides						
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		
Phenolics Surrogates						

Tribromophenol, 2,4,6- µg/L	0.50	118-79-6		61.5		
Polychlorinated Biphenyls						
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		
Polychlorinated Biphenyls Surrogates						
Decachlorobiphenyl µg/L	0.1	2051-24-3		0.1		
Tetrachloro-m-xylene µg/L	0.1	877-09-8		0.2		
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene µg/L	0.0050	50-32-8		<0.0050		
Polycyclic Aromatic Hydrocarbons Surrogates						
Chrysene-d12 µg/L	0.1	1719-03-5		0.8		
Naphthalene-d8 µg/L	0.1	1146-65-2		1.1		
Phenanthrene-d10 µg/L	0.1	1517-22-2		0.8		
Semi-Volatile Organics Surrogates						
Fluorobiphenyl, 2- µg/L	1.0	321-60-8		83.4		
Nitrobenzene-d5 µg/L	1.0	4165-60-0		79.6		
Terphenyl-d14, p- µg/L	1.0	1718-51-0		108		
Total Metals						
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	130			
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	131 due to water softner install			18.5 water softner removed
Uranium, total µg/L	2.0	7440-61-1	<2.0			
Volatile Organic Compounds						
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	
Volatile Organic Compounds Surrogates						
Bromofluorobenzene, 4- µg/L	1.0	460-00-4			9.2	
Difluorobenzene, 1,4- µg/L	1.0	540-36-3			10.1	