

Ministry of the Environment and Climate Change Drinking Water System Inspection Report

Golden Lake United Church Camp-Staff House

2022

Annual Report

Optional Annual Report Template

(🕅 Ontario

Ministry of the Ministère de Environment l'Environnement

Drinking-Water System Number:	260034905
Drinking-Water System Name:	Golden Lake United Church Camp - Staff House
Drinking-Water System Owner:	Golden Lake United Church Camp
Drinking-Water System Category:	Small Non-Municipal Non-Residential System
Period being reported:	01/01/2022-12/31/2022

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No	Number of Designated Facilities served:
Is your annual report available to the public	Did you provide a copy of your annual
at no charge on a web site on the Internet? Yes [] No []	report to all Designated Facilities you serve? Yes [] No []
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
On file in Assembly Hall office and at the following website: www.goldenlakecamp.ca	Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
GLUCC Staff House	260034905

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes No []

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- [] Public access/notice via Government Office
- [] Public access/notice via a newspaper
- [] Public access/notice via Public Request
- [] Public access/notice via a Public Library
- [] Public access/notice via other method ______

Describe your Drinking-Water System

Please see page 7 for Drinking-Water System Information

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- [] Install required equipment
- [] Repair required equipment
- **X** Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Replace filters , UV Lamps & Pressure Gauge \$2251.15

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw					
Treated		Please see repo	rts on pages 8-16		
Distribution					

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	N/A	
Chlorine	N/A	
Fluoride (If the DWS provides fluoridation)		

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				

Ministry of the Ministère de Environment l'Environnement

Addin ProceedingAtrazine + N-dealkylated metobolitesAzinphos-methylBendiocarbBenzeneBenzeneBenzeneBromoxynilCarbarylCarboruanCarboruanCarboruanCarboruanCarboruanCarboruanCarboruanChlorgyrifosCyanazineDiazinonDiazinonDicamba1,2-Dichlorobenzene1,4-Dichlorobenzene1,2-Dichloroethane (DDT) +metabolites1,2-Dichloroethane1,2-Dichloroethane1,2-Dichloroethane1,2-Dichlorophenoxy acetic acid (2,4-D)Dielofon-methylDimethoateDiagataCarborus <th>Aldrin + Dieldrin</th> <th></th> <th></th>	Aldrin + Dieldrin		
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Metribuzin			
Monochlorobenzene			
Paraquat	-		
Parathion			
Pentachlorophenol	_		
Phorate		 	
Picloram	Picloram		
Polychlorinated Biphenyls(PCB)	Polychlorinated Biphenyls(PCB)		

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Prometryne		
Simazine		
ТНМ		
(NOTE: show latest annual average)		
Temephos		
Terbufos		
Tetrachloroethylene		
2,3,4,6-Tetrachlorophenol		
Triallate		
Trichloroethylene		
2,4,6-Trichlorophenol		
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)		
Trifluralin		
Vinyl Chloride		

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

Drinking Water System Description:

Golden Lake Camp has two identical water treatment systems, one in its Staff House at 54 McNee Drive, Golden Lake, ON, and the other in its Dining (Assembly) Hall at 63 McNee Drive,

Golden Lake, ON. They were installed in June 2004 and certified as compliant with the requirements of Regulation 170/03 by Jp2g Consultants Inc, of Pembroke, in July of the same

year.

Each system is classified as "small, non-municipal nonresidential," providing potable water for

a children's camp, which is a "designated facility."

Each of the two systems is fed from its own well, classified as GUDI ("ground water under the

direct influence of surface water"). Therefore, a cartridge filtration system and UV disinfection

system in compliance with "Procedure for Disinfection of Drinking Water in Ontario" were specified for and installed on each system.

To provide the required disinfection, the installations employ a Point-of-Entry system in each building, consisting of cartridge filtration followed by UV disinfection. Each point of entry system has two parallel trains of cartridge filters, with each train consisting of a 5 micron nominal and a 1 micron absolute filter.

Each UV unit installed is a Hallet Model 13, rated to provide minimum of 65 mJ/cm2 at 13 USgpm and UVT of 75% at end of lamp life. The UV system has a solenoid shut-off, so that on

alarm or failure to disinfect, the solenoid closes, shutting off flow to the water system. Dual lamp sensors are used for UV and water quality, with flow shut off low UV or poor water quality. The UV equipment is NSF/ANSI 55 Class 55 A rated, and has flow limiter to limit maximum flow to maximum rated flow.



Environment Testing

Client:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE			
	RR #1		Report Number:	1980535
			Date Submitted:	2022-06-29
	Golden Lake, ON		Date Reported:	2022-07-04
	K0J 1X0		Project:	Drinking Water System Sampling
Attention:	Ms. Alice Madigan		,	ş , 1 ş
PO#:	-		COC #:	108150
		Dara 1 of 0	Waterworks/Facility:	260034905
Invoice to:	Golden Lake Camp	Page 1 of 2		

Dear Alice Madigan:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL:

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: https://directory.cala.ca/.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Environment Testing

Client: Attention: PO#:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE RR #1 Golden Lake, ON K0J 1X0 Ms. Alice Madigan	Report Number: Date Submitted: Date Reported: Project: COC #: Waterworks/Facility:	1980535 2022-06-29 2022-07-04 Drinking Water System Sampling 108150 260034905
Invoice to:	Golden Lake Camp		

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1634801 Supply Water RAW WATER 2022-06-28 Staff House - Raw Water	1634802 Supply Water DISTRIBUTION 2022-06-28 Staff House - E-coli
Group	Analyte	MRL	Units	Guideline		
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = MOE REG. 170/03

eurofins

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. **Analytical Method: AMBCOLM1** additional QA/QC information available on request.

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Certificate of Analysis

Environment Testing

Client: Attention: PO#:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE RR #1 Golden Lake, ON K0J 1X0 Ms. Alice Madigan		Report Number: Date Submitted: Date Reported: Project: COC #: Waterworks/Facility:	1980540 2022-06-29 2022-07-07 Drinking Water System Sampling 108150 260034905
Invoice to:	Golden Lake Camp	Page 1 of 3		

Dear Alice Madigan:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL:

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Environment Testing

Client:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE	Report Number:	1980540
	RR #1	Date Submitted:	2022-06-29
	Golden Lake, ON	Date Reported:	2022-07-07
	K0J 1X0	Project:	Drinking Wa
Attention:	Ms. Alice Madigan	COC #:	108150
PO#:		Waterworks/Facility:	260034905
Invoice to:	Golden Lake Camp		

port Number:	1980540
te Submitted:	2022-06-29
te Reported:	2022-07-07
oject:	Drinking Water System Sampling
DC #:	108150
terworks/Facility:	260034905

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1634813 Supply Water TREATEDWATER 2022-06-28 Staff House - NO2/NO3	1634814 Supply Water DISTRIBUTION 2022-06-29 Staff House - Pb
Group	Analyte	MRL	Units	Guideline		
Anions	N-NO2	0.10	mg/L	MAC 1.0	<0.10	
	N-NO3	0.10	mg/L	MAC 10.0	0.51	
	NO2 + NO3 as N	0.10	mg/L		0.53	
Metals	Pb	0.001	mg/L	MAC 0.010		<0.001

Guideline = MOE REG. 170/03

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* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

Environment Testing

Client: GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE RR #1 Golden Lake, ON K0J 1X0 Attention: Ms. Alice Madigan PO#: Invoice to: Golden Lake Camp

Report Number:1980540Date Submitted:2022-06-29Date Reported:2022-07-07Project:Drinking Water System SamplingCOC #:108150Waterworks/Facility:260034905

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 424921 Analysis/Extraction Date 2 Method SM 4110	022-07-05 Ana	llyst AaN	
N-NO2	<0.10 mg/L	104	90-110
N-NO3	<0.10 mg/L	103	90-110
NO2 + NO3 as N	<0.10 mg/L		
Run No425029Analysis/Extraction Date2MethodEPA 200.8	022-07-06 Ana	ilyst SD	
Lead	<0.001 mg/L	114	80-120

Guideline = MOE REG. 170/03

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* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request. MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



Environment Testing

Client:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE			
	RR #1		Report Number:	1982730
			Date Submitted:	2022-07-29
	Golden Lake, ON		Date Reported:	2022-08-02
	K0J 1X0			
Attention:	Ms. Alice Madigan		Project:	Drinking Water System Sampling
PO#:	······································		COC #:	108152
			Waterworks/Facility:	260034905
Invoice to:	Golden Lake Camp	Page 1 of 2		

Dear Alice Madigan:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL:

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <u>https://directory.cala.ca/</u>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Environment Testing

Client: Attention: PO#:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE RR #1 Golden Lake, ON K0J 1X0 Ms. Alice Madigan	Report Number: Date Submitted: Date Reported: Project: COC #: Waterworks/Facility:	1982730 2022-07-29 2022-08-02 Drinking Water System Sampling 108152 260034905
Invoice to:	Golden Lake Camp		

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1640986 Supply Water RAW WATER 2022-07-28 Raw Water 1-3	1640987 Supply Water DISTRIBUTION 2022-07-28 E-Coli 1-4
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = MOE REG. 170/03

eurofins

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. **Analytical Method: AMBCOLM1** additional QA/QC information available on request.



Environment Testing

Client:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE			
	RR #1		Report Number:	1984450
			Date Submitted:	2022-08-23
	Golden Lake, ON		Date Reported:	2022-08-24
	K0J 1X0		Project:	Drinking Water System Sampling
Attention:	Ms. Alice Madigan		COC #:	108153
PO#:				
Invoice to:	Golden Lake Camp	Page 1 of 2	Waterworks/Facility:	260034905

Dear Alice Madigan:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL:

Emma-Dawn Ferguson, Chemist

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Environment Testing

Client: Attention:	GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE RR #1 Golden Lake, ON K0J 1X0 Ms. Alice Madigan	Report Number: Date Submitted: Date Reported: Project: COC #: Waterworks/Facility:	1984450 2022-08-23 2022-08-24 Drinking Water System Sampling 108153 260034905
PO#: Invoice to:	Golden Lake Camp		

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1645986 Supply Water RAW WATER 2022-08-22 Raw Water 1-3	1645987 Supply Water DISTRIBUTION 2022-08-22 E-coli 1-4
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = MOE REG. 170/03

eurofins

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. **Analytical Method: AMBCOLM1** additional QA/QC information available on request.