

Golden Lake United Church Camp-Assembly Hall

2019

Annual Report

Optional Annual Report Template

Drinking-Water System Number:	260034892
Drinking-Water System Name:	Golden Lake United Church Camp - Assembly Hall
Drinking-Water System Owner:	Golden Lake United Church Camp
Drinking-Water System Category:	Small Non-Municipal Non-Residential System
Period being reported:	01/01/2019-12/31/2019

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

On file in Assembly Hall office and at the following website:
www.goldenlakecamp.ca

Complete for all other Categories.

Number of Designated Facilities served:

1

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☒ No ☐

Number of Interested Authorities you report to:

0

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 Assembly Hall	260034892

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

See Page 7 for Drinking-Water System Description

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☐ Repair required equipment
- ☒ Replace required equipment

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

Replaced filters, UV Lamps &
Sensor Array \$760

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 pages 21-36 for 2019 Water Sampling Results				
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)	Please see 2018 Reports pages 8-20	

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	Please see 2018 Reports pages 8-20			
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	Please see 2018 Reports pages 8-20			

Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil	Please see 2018 Reports pages 8-20			
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				

Prometryne				
Simazine				
THM (NOTE: show latest annual average)				
Temephos				
Terbufos				
Tetrachloroethylene	Please see 2018 Reports pages 8-20			
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.

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

Report Number: 1808648
Date Submitted: 2018-05-31
Date Reported: 2018-06-07
Project:
COC #: 82941
Waterworks/Facility: 260034892

Page 1 of 6

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: _____
Addrine Thomas, Inorganics Supervisor

All analysis is completed in Ottawa, Ontario (unless otherwise indicated).

Eurofins Ottawa is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on our CALA scope of accreditation. It can be found at <http://www.cala.ca/scopes/2602.pdf>.

Eurofins(Ottawa) is certified and accredited for specific parameters by OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils). Licensed by Ontario MOE for specific tests in drinking water.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required.

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Report Number: 1808648
Date Submitted: 2018-05-31
Date Reported: 2018-06-07
Project:
COC #: 82941
Waterworks/Facility: 260034892

					Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
					1361968	Supply Water	DISTRIBUTION	2018-05-30	Assembly Hall - Pb
					1361969	Supply Water	TREATEDWATER	2018-05-30	Assembly Hall
Group	Analyte	MRL	Units	Guideline					
AWQI Report No	AWQI Report								139579
General Chemistry	F	0.10	mg/L	MAC 1.5					<0.10
Mercury	Hg	0.0001	mg/L	MAC 0.001					<0.0001
Metals	As	0.001	mg/L	IMAC 0.01					<0.001
	B	0.01	mg/L	IMAC 5.0					<0.01
	Ba	0.01	mg/L	MAC 1.0					0.15
	Cd	0.0001	mg/L	MAC 0.005					<0.0001
	Cr	0.001	mg/L	MAC 0.05					<0.001
	Na	2	mg/L	MAC 20					46*
	Pb	0.001	mg/L	MAC 0.010	<0.001				0.002
	Sb	0.0005	mg/L	IMAC 0.006					<0.0005
	Se	0.001	mg/L	MAC 0.05					<0.001
	U	0.001	mg/L	MAC 0.02					<0.001
VOCs Surrogates	1,2-dichloroethane-d4	0	%						92
	4-bromofluorobenzene	0	%						109
	Toluene-d8	0	%						93
Volatiles	1,1-dichloroethylene	0.5	ug/L	MAC 14					<0.5
	1,2-dichlorobenzene	0.4	ug/L	MAC 200					<0.4
	1,2-dichloroethane	0.2	ug/L	IMAC 5					<0.2
	1,4-dichlorobenzene	0.4	ug/L	MAC 5					<0.4
	Benzene	0.5	ug/L	MAC 1					<0.5
	Carbon Tetrachloride	0.2	ug/L	MAC 2					<0.2
	Dichloromethane	4.0	ug/L	MAC 50					<4.0
	Monochlorobenzene	0.5	ug/L	MAC 80					<0.5
	Tetrachloroethylene	0.3	ug/L	MAC 10					<0.3

Guideline = MOE REG. 170/03

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.
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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

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 K0J 1X0
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Report Number: 1808648
 Date Submitted: 2018-05-31
 Date Reported: 2018-06-07
 Project:
 COC #: 82941
 Waterworks/Facility: 260034892

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1361968 Supply Water DISTRIBUTION 2018-05-30 Assembly Hall - Pb	1361969 Supply Water TREATEDWATER 2018-05-30 Assembly Hall
Group	Analyte	MRL	Units	Guideline			
Volatiles	Trichloroethylene	0.3	ug/L	MAC 5			<0.3
	Vinyl Chloride	0.2	ug/L	MAC 1			<0.2

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Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 346642 Analysis/Extraction Date 2018-06-02 Analyst H_F Method M SM3120B-3500C			
Sodium	<2 mg/L	99	82-118
Run No 346662 Analysis/Extraction Date 2018-05-30 Analyst TA Method AWQI Report			
AWQI Report			
Run No 346678 Analysis/Extraction Date 2018-06-04 Analyst SKH Method EPA 200.8			
Lead	<0.001 mg/L	101	92.4-107.5
Run No 346685 Analysis/Extraction Date 2018-06-04 Analyst SKH Method EPA 200.8			
Arsenic	<0.001 mg/L	96	91.7-108.2
Boron (total)	<0.01 mg/L	111	84.9-115
Barium	<0.01 mg/L	95	93.4-106.5
Chromium Total	<0.001 mg/L	100	94-106
Selenium	<0.001 mg/L	96	87.4-112.6
Uranium	<0.001 mg/L	95	92.7-107.2
Run No 346751 Analysis/Extraction Date 2018-06-01 Analyst QL Method V 8260B			

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QC Summary

Analyte	Blank	QC % Rec	QC Limits
Dichloroethylene, 1,1-	<0.5 ug/L	104	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	94	60-130
Dichloroethane, 1,2-	<0.2 ug/L	100	60-130
Dichlorobenzene, 1,4-	<0.4 ug/L	97	60-130
Benzene	<0.5 ug/L	103	60-130
Carbon Tetrachloride	<0.2 ug/L	108	60-130
Methylene Chloride	<4.0 ug/L	87	60-130
Chlorobenzene	<0.5 ug/L	98	60-130
Tetrachloroethylene	<0.3 ug/L	108	60-130
Trichloroethylene	<0.3 ug/L	111	60-130
Vinyl Chloride	<0.2 ug/L	114	60-130
Run No 346774 Analysis/Extraction Date 2018-06-05 Analyst SKH Method EPA 200.8			
Cadmium	<0.0001 mg/L	97	93.5-106.4
Antimony	<0.0005 mg/L	105	89.6-110.3
Run No 346776 Analysis/Extraction Date 2018-06-05 Analyst SKH Method M SM3112B-3500B			
Mercury	<0.0001 mg/L	109	76-123

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 Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 346895 Analysis/Extraction Date 2018-06-06 Analyst AET Method SM2320,2510,4500H/F			
F	<0.10 mg/L	103	90-110

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Report Number: 1808647
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Page 1 of 7

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Report Comments:

APPROVAL:

Long Qu, Organics Supervisor

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					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1361967 Supply Water TREATEDWATER 2018-05-30 Assembly Hall - Sch 24
Group	Analyte	MRL	Units	Guideline	
HPLC Herb/Pest	Diquat	5	ug/L	MAC 70	<5
	Diuron	10	ug/L	MAC 150	<10
	Glyphosate	10	ug/L	IMAC 280	<10
	Paraquat	1	ug/L	IMAC 10	<1
NP Pesticides	Alachlor	0.5	ug/L	IMAC 5	<0.5
	Atrazine	1.0	ug/L		<1.0
	Atrazine + N-dealkylated metabolites	0.2	ug/L	IMAC 5	<0.2
	Azinphos-methyl	2.0	ug/L	MAC 20	<2.0
	Carbaryl	5.0	ug/L	MAC 90	<5.0
	Carbofuran	5.0	ug/L	MAC 90	<5.0
	Chlorpyrifos	1.0	ug/L	MAC 90	<1.0
	De-ethylated atrazine	1.0	ug/L		<1.0
	Diazinon	1.0	ug/L	MAC 20	<1.0
	Dimethoate	2.5	ug/L	IMAC 20	<2.5
	Malathion	0.5	ug/L	MAC 190	<0.5
	Metolachlor	1.0	ug/L	IMAC 50	<1.0
	Metribuzin	5.0	ug/L	MAC 80	<5.0
	Phorate	0.5	ug/L	IMAC 2	<0.5
	Prometryne	0.25	ug/L	IMAC 1	<0.25
	Simazine	1.0	ug/L	IMAC 10	<1.0
	Terbufos	0.4	ug/L	IMAC 1	<0.4
	Triallate	1.0	ug/L	MAC 230	<1.0
	Trifluralin	1.0	ug/L	IMAC 45	<1.0
OCP/PCB	a-chlordane	0.006	ug/L		<0.006
	Aldrin	0.006	ug/L		<0.006

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					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1361967 Supply Water TREATEDWATER 2018-05-30 Assembly Hall - Sch 24
Group	Analyte	MRL	Units	Guideline	
OCP/PCB	Dieldrin	0.006	ug/L		<0.006
	g-chlordane	0.006	ug/L		<0.006
	op-DDT	0.006	ug/L		<0.006
	Oxychlordane	0.006	ug/L		<0.006
	pp-DDD	0.006	ug/L		<0.006
	pp-DDE	0.006	ug/L		<0.006
	pp-DDT	0.006	ug/L		<0.006
PAH	Benzo(a)pyrene	0.01	ug/L	MAC 0.01	<0.01
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L	IMAC 3	<0.1
Phenoxyacid Herb	2,4-dichlorophenoxyacetic acid (2,4-D)	1.0	ug/L	IMAC 100	<1.0
	Bromoxynil	0.5	ug/L	IMAC 5	<0.5
	Dicamba	1.0	ug/L	MAC 120	<1.0
	Diclofop-methyl	0.9	ug/L	MAC 9	<0.9
	MCPA	10	ug/L	MAC 100	<10
	Picloram	5.0	ug/L	IMAC 190	<5.0
Semi-Volatiles	2,3,4,6-tetrachlorophenol	1.0	ug/L	MAC 100	<1.0
	2,4,6-trichlorophenol	1.0	ug/L	MAC 5	<1.0
	2,4-dichlorophenol	0.2	ug/L	MAC 900	<0.2
	Pentachlorophenol	1.0	ug/L	MAC 60	<1.0

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Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 347719 Analysis/Extraction Date 2018-06-16 Analyst R_E Method EPA 8081B			
a-chlordane	<0.006 ug/L	87	50-140
Aldrin	<0.006 ug/L	86	50-140
Dieldrin	<0.006 ug/L	86	50-140
g-chlordane	<0.006 ug/L	87	50-140
op-DDT	<0.006 ug/L	88	50-140
Oxychlordane	<0.006 ug/L	86	50-140
Polychlorinated Biphenyls	<0.1 ug/L	80	60-140
DDD	<0.006 ug/L	82	50-140
DDE	<0.006 ug/L	83	50-140
DDT	<0.006 ug/L	71	50-140
Run No 348029 Analysis/Extraction Date 2018-06-22 Analyst QL Method P 8000-HPLC			
Diquat	<5 ug/L	89	60-120
Diuron	<10 ug/L	106	60-120
Glyphosate	<10 ug/L	97	60-120
Paraquat	<1 ug/L	101	60-120

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QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 348056 Analysis/Extraction Date 2018-06-22 Analyst C_M Method SW 846 8151A/3151A			
2,4-dichlorophenoxyacetic acid (2,4-D)	<1.0 ug/L	95	10-120
Bromoxynil	<0.5 ug/L	62	10-120
Dicamba	<1.0 ug/L	61	10-120
Diclofop-methyl	<0.9 ug/L	67	10-120
MCPA	<10 ug/L		10-120
Picloram	<5.0 ug/L	70	10-120
Run No 348058 Analysis/Extraction Date 2018-06-20 Analyst C_M Method P 8270C/SW846 3510C			
Alachlor	<0.5 ug/L	118	20-140
Atrazine	<1.0 ug/L	114	20-140
Atrazine + N-dealkylated metabolites	<0.2 ug/L		20-140
Azinphos-methyl	<2.0 ug/L	94	20-140
Benzo[a]pyrene	<0.01 ug/L		20-140
Carbaryl	<5.0 ug/L	128	20-140
Carbofuran	<5.0 ug/L	108	20-140
Chlorpyrifos	<1.0 ug/L	116	20-140

Guideline = MOE REG. 170/03

*** = Guideline Exceedence**

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

Report Number: 1808647
Date Submitted: 2018-05-31
Date Reported: 2018-06-25
Project:
COC #: 82941
Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
De-ethylated atrazine	<1.0 ug/L	26	20-140
Diazinon	<1.0 ug/L	108	20-140
Dimethoate	<2.5 ug/L		20-140
Malathion	<0.5 ug/L	114	20-140
Metolachlor	<1.0 ug/L	122	20-140
Metribuzin	<5.0 ug/L		20-140
Phorate	<0.5 ug/L	64	20-140
Prometryne	<0.25 ug/L	111	20-140
Simazine	<1.0 ug/L	92	20-140
Terbufos	<0.4 ug/L	64	20-140
Triallate	<1.0 ug/L	124	20-140
Trifluralin	<1.0 ug/L	112	20-140
Run No 348062 Analysis/Extraction Date 2018-06-21 Analyst C_M Method B 625 P 8270/3510C			
2,3,4,6-tetrachlorophenol	<1.0 ug/L	140	20-140
Trichlorophenol, 2,4,6-	<1.0 ug/L	122	20-140
Dichlorophenol, 2,4-	<0.2 ug/L	103	20-140
Pentachlorophenol	<1.0 ug/L	75	20-140

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

Report Number: 1808647
Date Submitted: 2018-05-31
Date Reported: 2018-06-25
Project:
COC #: 82941
Waterworks/Facility: 260034892

Guideline = MOE REG. 170/03

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

Report Number: 1915863
Date Submitted: 2019-08-30
Date Reported: 2019-09-03
Project:
COC #: 97263
Waterworks/Facility: 260034892

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:

Dragana Dzeletovic, Team Leader

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

Report Number: 1915863
 Date Submitted: 2019-08-30
 Date Reported: 2019-09-03
 Project:
 COC #: 97263
 Waterworks/Facility: 260034892

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	
					1451186 Supply Water RAW WATER 2019-08-30 2-1 Assembly Hall	1451187 Supply Water DISTRIBUTION 2019-08-30 2-2 Assembly Hall - DW
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = MOE REG. 170/03

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

Report Number: 1915864
Date Submitted: 2019-08-30
Date Reported: 2019-09-05
Project:
COC #: 97263
Waterworks/Facility: 260034892

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: _____

Addrine Thomas, Inorganics Supervisor

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

Report Number: 1915864
 Date Submitted: 2019-08-30
 Date Reported: 2019-09-05
 Project:
 COC #: 97263
 Waterworks/Facility: 260034892

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1451188 Supply Water TREATEDWATER 2019-08-30 2-3 Assembly Hall - TW
Anions	N-NO2	0.10	mg/L	MAC 1.0	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	1.02
	NO2 + NO3 as N	0.10	mg/L		1.02

Guideline = MOE REG. 170/03

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

Report Number: 1915864
 Date Submitted: 2019-08-30
 Date Reported: 2019-09-05
 Project:
 COC #: 97263
 Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 371806 Analysis/Extraction Date 2019-09-03 Analyst Z_S Method C SM4500-NO3-F			
N-NO2	<0.10 mg/L	100	80-120
N-NO3	<0.10 mg/L	93	80-120
NO2 + NO3 as N	<0.10 mg/L	96	80-120

Guideline = MOE REG. 170/03
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Client: GOLDEN LAKE UNITED CHURCH CAMP ASSEMBLY HALL
RR #1
Golden Lake, ON
K0J 1X0
Attention: Ms. Alice Madigan
PO#:
Invoice to: Golden Lake Camp

Report Number: 1913435
Date Submitted: 2019-07-29
Date Reported: 2019-07-30
Project:
COC #: 96107
Waterworks/Facility: 260034892

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:

Steven Tosh, Operations Manager

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

Report Number: 1913435
 Date Submitted: 2019-07-29
 Date Reported: 2019-07-30
 Project:
 COC #: 96107
 Waterworks/Facility: 260034892

					Lab I.D.	
					Sample Matrix	
					Sample Type	
					Sampling Date	
					Sample I.D.	
Group	Analyte	MRL	Units	Guideline	1444033 Supply Water RAW WATER 2019-07-28 Assembly Hall 2-1	1444034 Supply Water DISTRIBUTION 2019-07-28 Assembly Hall 2-2
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = MOE REG. 170/03

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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

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

Report Number: 1913436
Date Submitted: 2019-07-29
Date Reported: 2019-08-02
Project:
COC #: 96107
Waterworks/Facility: 260034892

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: _____

Addrine Thomas, Inorganics Supervisor

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

Report Number: 1913436
 Date Submitted: 2019-07-29
 Date Reported: 2019-08-02
 Project:
 COC #: 96107
 Waterworks/Facility: 260034892

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1444035 Supply Water TREATEDWATER 2019-07-29 Assembly Hall 2-3
Anions	N-NO2	0.10	mg/L	MAC 1.0	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	1.03
	NO2 + NO3 as N	0.10	mg/L		1.03

Guideline = MOE REG. 170/03

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

Report Number: 1913436
 Date Submitted: 2019-07-29
 Date Reported: 2019-08-02
 Project:
 COC #: 96107
 Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 370110 Analysis/Extraction Date 2019-08-01 Analyst Z_S Method C SM4500-NO3-F			
N-NO2	<0.10 mg/L	97	80-120
N-NO3	<0.10 mg/L	100	80-120
NO2 + NO3 as N	<0.10 mg/L	99	80-120

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

Report Number: 1910455
Date Submitted: 2019-06-25
Date Reported: 2019-06-26
Project:
COC #: 95187
Waterworks/Facility: 260034892

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:

Steven Tosh, Operations Manager

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

Report Number: 1910455
 Date Submitted: 2019-06-25
 Date Reported: 2019-06-26
 Project:
 COC #: 95187
 Waterworks/Facility: 260034892

					Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
					1435247	Supply Water	RAW WATER	2019-06-24	1-2
					1435248	Supply Water	DISTRIBUTION	2019-06-24	1-4
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

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

Report Number: 1910455
 Date Submitted: 2019-06-25
 Date Reported: 2019-06-26
 Project:
 COC #: 95187
 Waterworks/Facility: 260034892

QC Summary

Analyte	Extraction/Analysis Dates	Blank	QC % Rec	QC Limits
Run No 367972	Analysis/Extraction Date 2019-06-26	Analyst L_V		
Method AMBCOLM1				
Escherichia Coli	2019-06-26 / 2019-06-25			
Total Coliforms	2019-06-26 / 2019-06-25			

Guideline = MOE REG. 170/03

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Analytical Method: AMBCOLM1

additional QA/QC information available on request.

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

Report Number: 1910471
Date Submitted: 2019-06-25
Date Reported: 2019-06-27
Project:
COC #: 95187
Waterworks/Facility: 260034892

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:

Hong Deng, Inorganic Technician

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

Report Number: 1910471
 Date Submitted: 2019-06-25
 Date Reported: 2019-06-27
 Project:
 COC #: 95187
 Waterworks/Facility: 260034892

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1435294 Supply Water DISTRIBUTION 2019-06-24 1-1	1435295 Supply Water TREATEDWATER 2019-06-24 1-3
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			0.73
	NO2 + NO3 as N	0.10	mg/L				0.73
Metals	Pb	0.001	mg/L	MAC 0.010		0.001	

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

Report Number: 1910471
 Date Submitted: 2019-06-25
 Date Reported: 2019-06-27
 Project:
 COC #: 95187
 Waterworks/Facility: 260034892

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 368067 Analysis/Extraction Date 2019-06-26 Analyst Z_S Method C SM4500-NO3-F			
N-NO2	<0.10 mg/L	93	80-120
N-NO3	<0.10 mg/L	97	80-120
NO2 + NO3 as N	<0.10 mg/L	96	80-120
Run No 368193 Analysis/Extraction Date 2019-06-27 Analyst H_D Method EPA 200.8			
Lead	<0.001 mg/L	100	90-110

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