



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2HO  
Phone: 705-652-2000 FAX: 705-652-6365

**Veolia Water (Ripley)**

Attn : Steve Walmsley

Box 185,  
Goderich, ON  
N7A 3Z2, Canada

Phone: 519-524-6583  
Fax:pdf

Works #: 220002636

17-May-2024

Date Rec. : 07 May 2024  
LR Report: CA30150-MAY24

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: Half MAC	7: MDL	8: TW Ripley Elevated Tank - Treated	9: DW Public Works Garage	10: DW Arena	11: TW Riply Wellhouse	12: DW RLS	13: DW Firehall
Sample Date & Time								06-May-24 11:30	06-May-24 12:05	06-May-24 12:15	06-May-24 11:08	06-May-24 12:35	06-May-24 11:02
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	---	12.8	12.8	12.8	12.8	12.8	12.8
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	---	10.0	10.0	10.0	10.0	10.0	10.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	---	1.46	1.32	1.52	1.36	1.53	1.50
Arsenic [ug/L]	13-May-24	10:30	13-May-24	12:51	10	5	0.2	0.7	---	---	1.0	---	---
Nitrite (as N) [mg/L]	10-May-24	02:46	10-May-24	15:42	1.0	---	0.003	0.003 <MDL	---	---	0.003 <MDL	---	---
Nitrate (as N) [mg/L]	10-May-24	02:46	10-May-24	15:42	10	---	0.006	0.675	---	---	0.687	---	---
Nitrate + Nitrite (as N) [mg/L]	10-May-24	02:46	10-May-24	15:42	---	---	0.006	0.675	---	---	0.687	---	---
Trihalomethanes (total) [ug/L]	09-May-24	15:34	10-May-24	09:45	100 (RAA)	---	0.37	---	14	---	---	12	---
Bromodichloromethane [ug/L]	09-May-24	15:34	10-May-24	09:45	---	---	0.26	---	4.4	---	---	4.0	---
Bromoform [ug/L]	09-May-24	15:34	10-May-24	09:45	---	---	0.34	---	0.34 <MDL	---	---	0.34 <MDL	---
Chloroform [ug/L]	09-May-24	15:34	10-May-24	09:45	---	---	0.29	---	7.5	---	---	6.2	---
Dibromochloromethane [ug/L]	09-May-24	15:34	10-May-24	09:45	---	---	0.37	---	2.0	---	---	1.9	---
Total Haloacetic Acids (HAA5) [ug/L]	15-May-24	08:17	16-May-24	17:25	80 (RAA)	---	5.3	---	---	5.3 <MDL	---	---	5.3 <MDL
Chloroacetic Acid [ug/L]	15-May-24	08:17	16-May-24	17:25	---	---	4.7	---	---	4.7 <MDL	---	---	4.7 <MDL
Bromoacetic Acid [ug/L]	15-May-24	08:17	16-May-24	17:25	---	---	2.9	---	---	2.9 <MDL	---	---	2.9 <MDL
Dichloroacetic Acid [ug/L]	15-May-24	08:17	16-May-24	17:25	---	---	2.6	---	---	2.6 <MDL	---	---	2.6 <MDL
Dibromoacetic Acid [ug/L]	15-May-24	08:17	16-May-24	17:25	---	---	2.0	---	---	2.0 <MDL	---	---	2.0 <MDL
Trichloroacetic Acid [ug/L]	15-May-24	08:17	16-May-24	17:25	---	---	5.3	---	---	5.3 <MDL	---	---	5.3 <MDL

MAC - Maximum Acceptable Concentration  
Half MAC - Half of the Maximum Acceptable Concentration  
MDL - SGS Method Detection Limit

### Method Descriptions



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Lakefield - Ontario - KOL 2H0

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Works #: 220002636

LR Report : CA30150-MAY24

Parameter	Description	SGS Method Code
Arsenic	Arsenic by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
Bromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Bromodichloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Bromoform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Chloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Chloroform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dibromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Dibromochloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Total Haloacetic Acids (HAA5)	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trihalomethanes (total)	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

Hawley Anderson, Hon.B.Sc  
Project Specialist,  
Environment, Health & Safety



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**Veolia Water (Ripley)**

Attn : Gary Nicholson

Box 185,  
Goderich, ON  
N7A 3Z2, Canada

Phone: 519-524-6583  
Fax:pdf

Works #: 220002636

22-February-2024

Date Rec. : 13 February 2024  
LR Report: CA30256-FEB24

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: Half MAC	8: MDL	9: TW Ripley Elevated Tank - Treated	10: DW Fire Hall THM
Sample Date & Time								12-Feb-24 12:35	12-Feb-24 12:00
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	---	5.0	5.0
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	---	8.0	8.0
Arsenic [ug/L]	20-Feb-24	09:30	20-Feb-24	13:00	10	5	0.2	---	---
Nitrite (as N) [mg/L]	17-Feb-24	06:54	22-Feb-24	11:39	1.0	---	0.003	0.003 <MDL	---
Nitrate (as N) [mg/L]	17-Feb-24	06:54	22-Feb-24	11:39	10	---	0.006	0.891	---
Nitrate + Nitrite (as N) [mg/L]	17-Feb-24	06:54	22-Feb-24	11:39	---	---	0.006	0.891	---
Trihalomethanes (total) [ug/L]	16-Feb-24	13:26	20-Feb-24	11:08	100 (RAA)	---	0.37	---	9.3
Bromodichloromethane [ug/L]	16-Feb-24	13:26	20-Feb-24	11:08	--	---	0.26	---	3.2
Bromoform [ug/L]	16-Feb-24	13:26	20-Feb-24	11:08	--	---	0.34	---	0.34 <MDL
Chloroform [ug/L]	16-Feb-24	13:26	20-Feb-24	11:08	--	---	0.29	---	4.4
Dibromochloromethane [ug/L]	16-Feb-24	13:26	20-Feb-24	11:08	--	---	0.37	---	1.8
Total Haloacetic Acids (HAA5) [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	80 (RAA)	---	5.3	---	---
Chloroacetic Acid [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	---	---	4.7	---	---
Bromoacetic Acid [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	---	---	2.9	---	---
Dichloroacetic Acid [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	---	---	2.6	---	---
Dibromoacetic Acid [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	---	---	2.0	---	---
Trichloroacetic Acid [ug/L]	21-Feb-24	09:09	22-Feb-24	10:48	---	---	5.3	---	---

OnLine LIMS

0003627582



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Lakefield - Ontario - K0L 2H0  
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Works #: 220002636

LR Report : CA30256-FEB24

Analysis	11: DW Fire Hall HAA	12: TW Ripley Wellhouse	13: DW Lift Stn THM	14: DW Lift Stn HAA
Sample Date & Time	12-Feb-24 12:00	12-Feb-24 11:50	12-Feb-24 11:30	12-Feb-24 11:30
Temperature Upon Receipt [at London Lab °C]	5.0	5.0	5.0	5.0
Temperature Upon Receipt [at Lakefield Lab °C]	8.0	8.0	8.0	8.0
Arsenic [ug/L]	---	0.9	---	---
Nitrite (as N) [mg/L]	---	0.003 <MDL	---	---
Nitrate (as N) [mg/L]	---	0.914	---	---
Nitrate + Nitrite (as N) [mg/L]	---	0.914	---	---
Trihalomethanes (total) [ug/L]	---	---	11	---
Bromodichloromethane [ug/L]	---	---	3.8	---
Bromoform [ug/L]	---	---	0.34 <MDL	---
Chloroform [ug/L]	---	---	5.3	---
Dibromochloromethane [ug/L]	---	---	2.0	---
Total Haloacetic Acids (HAA5) [ug/L]	5.3 <MDL	---	---	5.3 <MDL
Chloroacetic Acid [ug/L]	4.7 <MDL	---	---	4.7 <MDL
Bromoacetic Acid [ug/L]	2.9 <MDL	---	---	2.9 <MDL
Dichloroacetic Acid [ug/L]	2.6 <MDL	---	---	2.6 <MDL
Dibromoacetic Acid [ug/L]	2.0 <MDL	---	---	2.0 <MDL
Trichloroacetic Acid [ug/L]	5.3 <MDL	---	---	5.3 <MDL

MAC - Maximum Acceptable Concentration  
Half MAC - Half of the Maximum Acceptable Concentration  
MDL - SGS Method Detection Limit

### Method Descriptions

Parameter	Description	SGS Method Code
Arsenic	Arsenic by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
Bromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Bromodichloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Bromoform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Chloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Chloroform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dibromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Dibromochloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001



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**Works #:** 220002636

**LR Report :** CA30256-FEB24

Parameter	Description	SGS Method Code
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Total Haloacetic Acids (HAA5)	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trihalomethanes (total)	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

*Hawley Anderson, Hon.B.Sc*  
*Project Specialist,*  
*Environment, Health & Safety*

**SGS Canada Inc.**

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 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

16-January-2024

**Veolia Water (Ripley)**

Attn : Gary Nicholson

Date Rec. : 09 January 2024  
 LR Report: CA30210-JAN24

Box 185,  
 Goderich, ON  
 N7A 3Z2, Canada

Copy: #1

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## CERTIFICATE OF ANALYSIS

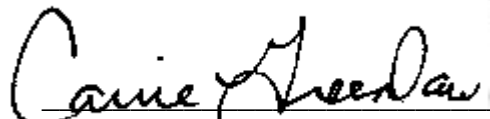
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Free Chlorine mg/L	Field pH	Alkalinity mg/L as CaCO3	Lead ug/L	pH No unit
1: Analysis Start Date		---	---	---	---	11-Jan-24	15-Jan-24	11-Jan-24
2: Analysis Start Time		---	---	---	---	15:12	19:58	15:12
3: Analysis Completed Date		---	---	---	---	12-Jan-24	16-Jan-24	12-Jan-24
4: Analysis Completed Time		---	---	---	---	11:58	09:10	11:58
5: MAC		---	---	---	---	---	10	---
6: AO/OG		---	---	---	6.5-8.5	30-500	---	6.5-8.5
7: MDL		---	---	---	---	2	0.01	---
8: DW RLS	09-Jan-24 12:25	7.2	8.0	1.47	7.84	224	0.19	7.89
9: DW Work Shed	09-Jan-24 13:20	7.2	8.0	1.62	7.88	221	0.20	7.95

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit

#### Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO3	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
ug/L	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
No unit	pH - solution	ME-CA-[ENV]EWL-LAK-AN-006

  
 Carrie Greenlaw  
 Project Specialist,  
 Environment, Health & Safety