EGANVILLE DRINKING WATER SYSTEM - MICROBIOLOGICAL ANALYSIS										
	RAW WATER			TREATED WATER			DISTRIBUTION SYSTEM			
		TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	HETEROPHIC PLATE COUNT (HPC)		TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	HETEROPHIC PLATE COUNT (HPC)
MONTH	NUMBER OF SAMPLES COLLECTED	RANGE OF RESULTS CFU/100 ml*	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS Colonies /1 ml	NUMBER OF SAMPLES COLLECTED	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS Colonies /1 ml
JANUARY	5	2 -- 24	0 -- 1	0	0	2--2	15	0	0	2--2
FEBRUARY	4	14 -- 24	0 -- 4	0	0	2--2	12	0	0	2--2
MARCH	4	8 -- 38	0 -- 7	0	0	2--2	12	0	0	2--2
APRIL	5	14 -- 52	2 -- 42	0	0	2--2	15	0	0	2--2
MAY	4	18 -- 34	1 -- 8	0	0	2--2	12	0	0	2--2
JUNE	4	26 -- 62	6 -- 43	0	0	2--2	13	0	0	2--2
JULY	5	38 -- 96	7 -- 25	0	0	2--2	20	0	0	2--2
AUGUST	4	26 -- 70	4 -- 24	0	0	2--2	16	0	0	2--2
SEPTEMBER	4	18 -- 84	8 --15	0	0	2--2	12	0	0	2--2
OCTOBER	5	12 -- 66	1 -- 19	0	0	2--2	15	0	0	2--2
NOVEMBER	4	12 -- 48	1 -- 4	0	0	2--2	12	0	0	2--2
DECEMBER	5	2 -- 20	0 -- 4	0	0	2--2	15	0	0	2--2
TOTAL	53						169			
ODWQS*				0	0	500		0	0	500

*CFU/100ml is Colony Forming Units per 100 millilitres
*ODWQS - ONTARIO DRINKING WATER QUALITY STANDARD, ONT. REG. 169/03

EGANVILLE DRINKING WATER SYSTEM										
	TREATED WATER FLOW			PROCESS WASTE WATER	TREATED WATER DISINFECTION			DISTRIBUTION SYSTEM DISINFECTION		
MONTH	AVERAGE DAY m^3	MAXIMUM DAY m^3	MONTHLY TOTAL m^3	MONTHLY TOTAL m^3	NUMBER OF SAMPLES COLLECTED	RANGE OF TOTAL CHLORINE RESIDUAL (mg/l)	RANGE OF FREE CHLORINE RESIDUAL (mg/l)	NUMBER OF SAMPLES COLLECTED	RANGE OF TOTAL CHLORINE RESIDUAL (mg/l)	RANGE OF FREE CHLORINE RESIDUAL (mg/l)
JANUARY	413.3	503.1	12813.0	2961.2	8760	1.89 -- 2.27	1.49 -- 1.98	46	0.93 -- 1.97	0.81 -- 1.75
FEBRUARY	426.8	507.9	11950.6	2545.7	8760	1.90 -- 1.95	1.60 -- 1.95	40	1.27 -- 1.84	1.15 -- 1.63
MARCH	441.0	659.8	13699.1	2401.0	8760	1.88 -- 2.08	1.54 -- 1.82	43	1.15 -- 1.87	0.91 -- 1.65
APRIL	447.1	547.3	13411.4	2814.3	8760	1.96 -- 2.04	1.51 -- 1.90	45	0.92 -- 1.91	0.78 -- 1.71
MAY	503.1	617.7	15595.9	3560.4	8760	1.68 -- 2.07	1.35 -- 1.89	43	0.76 -- 1.79	0.55 -- 1.60
JUNE	545.0	644.5	16350.2	3823.6	8760	1.69 -- 2.10	1.34 -- 2.38	43	0.74 -- 1.84	0.55 -- 1.64
JULY	663.9	764.4	20579.2	4361.0	8760	1.66 -- 2.38	1.29 -- 2.47	51	0.61 -- 1.98	0.46 -- 1.79
AUGUST	574.8	719.2	17819.1	3766.7	8760	2.30 -- 2.47	1.65 -- 3.06	47	0.77 -- 1.90	0.61 -- 1.69
SEPTEMBER	478.7	603.3	14360.6	3868.2	8760	1.97 -- 2.39	1.66 -- 3.02	42	0.84 -- 2.01	0.69 -- 1.81
OCTOBER	527.5	842.2	16352.0	3259.4	8760	2.13 -- 2.92	1.47 -- 2.36	46	1.18 -- 2.19	0.99 -- 1.96
NOVEMBER	527.8	648.7	15833.6	2040.2	8760	2.29 -- 2.48	1.35 -- 2.48	42	1.04 -- 2.19	0.80 -- 1.96
DECEMBER	532.9	672.9	16519.3	1952.9	8760	2.22 -- 2.46	1.67 -- 2.27	46	1.17 -- 2.19	0.94 -- 1.95
TOTAL			185284.0	37354.6	105120			534		
AVERAGE	506.8	644.3	15440.3	3112.9						
MIN - MAX						1.66 - 2.92	1.29 - 3.06		0.61 - 2.19	0.46 - 1.96
ODWQS*							0.05 - 4.0			0.05 - 4.0

EGANVILLE DRINKING WATER SYSTEM

TREATED WATER - SCHEDULE 23 - INORGANIC PARAMETERS

SAMPLE DATE:	Jan.22,2019		
PARAMETER	RESULT mg/l	ODWQS* mg/l	
Antimony	<0.0001	0.006	
Arsenic	<0.0001	0.01	
Barium	0.017	1	
Boron	<0.005	5	
Cadmium	<0.000015	0.005	
Chromium	<0.002	0.05	
Mercury	<0.00002	0.001	
Selenium	<0.001	0.05	
Uranium	<0.00005	0.02	

DISTRIBUTION SYSTEM - HALOACETIC ACIDS (HAA's)

SAMPLE DATE:	Jan.22,2019	Apr.23,2019	Jul.15,2019	Oct. 22,2019	
PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l	
Monochloroacetic Acid	<2	<4.7	4.7	<4.7	
Monobromoacetic Acid	<2	2.9	2.9	<2.9	
Dichloracetic Acid	14.3	19.8	20.8	21.1	
Dibromoacetic Acid	<2	<2	2	<2	
Trichloroacetic Acid	22.3	29.5	47.2	28.0	
Total Haloacetic Acid	36.6	49.3	68	49.1	
Running Annual Average (RAA)	58.5	59.9	52.4	50.8	
ODWQS* RAA 80 ug/l					

DISTRIBUTION SYSTEM - TRIHALOMETHANE (THM's)

SAMPLE DATE	Jan.22,2019	Apr.23,2019	Jul.15,2019	Oct. 22,2019
PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l
Chloroform	39	34.0	73	57
Bromodichloromethane	<2	<2	3	2
Dibromochloromethane	<2	<2	2	<2
Bromoform	<5	<5	5	<5
Total Trihalomethane	40	35.0	76	59
Running Annual Average (RAA)	81.4	76	61.5	52.5
ODWQS* RAA 100 ug/l				

TREATED WATER - CHEMICAL ANALYSIS

	Jan.22,2019	Apr.23,2019	Jul.15,2019	Oct. 22,2019	
PARAMETER	RESULT mg/l	RESULT mg/l	RESULT mg/l	RESULT mg/l	ODWQS* mg/l
Nitrate	<0.1	<0.1	<0.1	<0.1	10.0
Nitrite	<0.1	<0.1	<0.1	0.1	1.0
Flouride	<0.1				1.5
Sodium	8.3				200.0

EGANVILLE DRINKING WATER SYSTEM - TREATED WATER - SCHEDULE 24 - ORGANIC PARAMETERS							
SAMPLE DATE:	Jan.22,2019	RESULT	ODWQS			RESULT	ODWQS
PARAMETER		ug/l	ug/l		PARAMETER	ug/l	ug/l
Alachlor		<0.3	5		Diquat	<5	70
Atrazine + N-dealkylated metabolites		<0.5	5		Diuron	<5	150
Azinphos-methyl		<1	20		Glyphosate	<25	280
Benzene		<0.5	1		Malathion	<5	190
Benzo(a)pyrene		<0.005	0.01		2-Methyl-4-chlorophenoxyacetic acid (MCPA)	< 10	100
Bromoxynil		<0.3	5		Metolachlor	<3	50
Carbaryl		<3	90		Metribuzin	<3	80
Carbofuran		<1	90		Monochlorobenzene	<0.5	80
Carbon Tetrachloride		<0.2	2		Paraquat	<1	10
Chlorpyrifos		<0.5	90		Pentachlorophenol	<0.1	60
Diazinon		<1	20		Phorate	<0.3	2
Dicamba		<5	120		Picloram	<5	190
1,2-Dichlorobenzene		<0.5	200		Polychlorinated Biphenyls (PCB)	<0.05	3
1,4-Dichlorobenzene		<0.5	5		Prometryne	<0.1	1
1,2-Dichloroethane		<0.5	5		Simazine	<0.5	10
1,1-Dichloroethylene (vinylidene chloride)		<0.5	14		Terbufos	<0.3	1
Dichloromethane		< 5	50		Tetrachloroethylene (perchloroethylene)	<0.5	10
2,4-Dichlorophenol		<0.1	900		2,3,4,6-Tetrachlorophenol	<0.1	100
2,4-Dichlorophenoxy acetic acid (2,4-D)		<5	100		Triallate	<10	230
Diclofop-methyl		<0.5	9		Trichloroethylene	<0.5	5
Dimethoate		<1	20		2,4,6-Trichlorophenol	<0.1	5
					Trifluralin	<0.5	45
					Vinyl Chloride	<0.5	1

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - MONTHLY AVERAGES										
MONTH	pH		ALKALINITY		COLOUR		TEMPERATURE			
			mg/l $CaCo_3$		TCU		C^O			
	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED		
JANUARY	7.25	7.13	39	30	16	1	1.5	2.3		
FEBRUARY	7.21	7.07	39	30	18	1	1.2	1.6		
MARCH	7.20	7.08	39	30	19	1	1.7	2.2		
APRIL	7.34	7.18	46	36	20	1	4.1	4.9		
MAY	7.31	7.11	39	30	28	1	9.6	10.2		
JUNE	7.41	7.22	41	30	29	1	18.8	18.4		
JULY	7.46	7.17	40	30	26	1	24.9	25.4		
AUGUST	7.54	7.19	37	27	23	1	23.1	23.3		
SEPTEMBER	7.51	7.26	39	30	17	1	18.0	18.8		
OCTOBER	7.49	7.31	44	36	18	1	11.9	12.8		
NOVEMBER	7.33	7.13	33	24	19	1	4.7	5.8		
DECEMBER	7.28	7.08	36	27	16	1	2.2	3.5		
AVERAGE	7.36	7.16	39	30	21	1	10.1	10.8		

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - PROCESS CHEMICAL USAGE							
MONTH	RAW WATER FLOW	SODIUM HYPOCHORITE		PAS-8		POLYMER	
	m^3	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l
JANUARY	15773.8	85.20	5.40	761.55	48.28	3.78	0.24
FEBRUARY	14496.5	78.30	5.40	714.30	49.27	3.48	0.24
MARCH	16071.9	86.22	5.36	789.92	49.15	3.50	0.22
APRIL	16225.8	91.38	5.63	793.67	48.91	3.57	0.22
MAY	19156.4	114.30	5.97	929.28	48.51	4.59	0.24
JUNE	20183.9	134.58	6.67	934.28	46.29	4.84	0.24
JULY	24940.3	201.96	8.10	1204.87	48.31	5.98	0.24
AUGUST	21585.8	184.50	8.55	1042.39	48.29	5.18	0.24
SEPTEMBER	18228.3	145.02	7.96	880.53	48.31	4.37	0.24
OCTOBER	19611.0	145.62	7.43	930.53	47.45	4.70	0.24
NOVEMBER	17843.1	102.90	5.77	828.66	46.44	4.29	0.24
DECEMBER	18472.0	101.46	5.49	891.78	48.28	3.19	0.17
TOTAL	222588.8	1471.44		10701.76		51.47	
AVERAGE	18549.1	122.62	6.48	891.81	48.12	4.29	0.23

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - TURBIDITY																
MONTH	RANGE OF WEEKLY GRAB SAMPLES (NTU)				RANGE OF TURBIDITY FROM CONTINUOUS RECORDING METERS (NTU)											
	RAW		TREATED		Filter 1A		Filter 1B		Filter 2A		Filter 2B		GAC Filter 1		GAC Filter 2	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
JANUARY	0.42	0.87	0.06	0.08	0.02	0.10	0.02	0.28	0.02	0.14	0.03	0.27	0.01	0.04	0.01	0.03
FEBRUARY	0.43	0.51	0.06	0.08	0.02	0.09	0.02	0.28	0.03	0.10	0.01	0.28	0.01	0.09	0.01	0.06
MARCH	0.36	0.41	0.05	0.06	0.03	0.19	0.02	0.28	0.05	0.27	0.03	0.28	0.01	0.07	0.01	0.13
APRIL	0.49	0.85	0.06	0.07	0.04	0.49	0.03	0.32	0.07	0.33	0.02	0.33	0.01	0.12	0.00	0.14
MAY	0.45	0.72	0.06	0.08	0.05	0.34	0.00	0.26	0.01	0.20	0.00	0.23	0.02	0.04	0.02	0.09
JUNE	0.68	0.93	0.08	0.10	0.06	0.41	0.00	0.30	0.00	0.34	0.00	0.33	0.01	0.15	0.01	0.16
JULY	0.92	1.12	0.08	0.09	0.01	0.34	0.00	0.12	0.00	0.12	0.00	0.12	0.01	0.17	0.01	0.17
AUGUST	0.72	1.10	0.07	0.09	0.01	0.10	0.03	0.13	0.01	0.13	0.00	0.10	0.01	0.23	0.01	0.24
SEPTEMBER	0.46	0.59	0.07	0.08	0.01	0.11	0.01	0.14	0.00	0.12	0.00	0.12	0.01	0.19	0.01	0.21
OCTOBER	0.51	0.66	0.06	0.09	0.00	0.26	0.00	0.34	0.00	0.27	0.01	0.64	0.01	0.21	0.00	0.20
NOVEMBER	0.53	0.84	0.07	0.10	0.00	0.29	0.03	0.31	0.00	0.33	0.00	0.32	0.00	0.09	0.00	0.25
DECEMBER	0.44	0.52	0.07	0.12	0.00	0.41	0.02	0.33	0.02	0.32	0.00	0.34	0.01	0.09	0.01	0.13
Yearly Min / Max	0.36	1.12	0.05	0.12	0.00	0.49	0.00	0.34	0.00	0.34	0.00	0.64	0.00	0.23	0.00	0.25