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--12	0--3	0	0	2--2	15	0	0	2--2
FEBRUARY	4	8--20	0--2	0	0	2--2	12	0	0	2--2
MARCH	4	6--18	0--1	0	0	2--2	12	0	0	2--4
APRIL	4	10--24	0--2	0	0	2--4	12	0	0	2--2
MAY	5	2--38	0--8	0	0	2--2	15	0	0	2--2
JUNE	4	30--80	4--14	0	0	2--2	15	0	0	2--2
JULY	4	26--100	8--15	0	0	2--2	16	0	0	2--2
AUGUST	5	24--220	8--28	0	0	2--2	20	0	0	2--32
SEPTEMBER	4	20--58	12--23	0	0	2--2	16	0	0	2--2
OCTOBER	5	10--140	9--26	0	0	2--2	15	0	0	2--2
NOVEMBER	4	8--26	1--13	0	0	2--2	12	0	0	2--2
DECEMBER	4	6--28	1--7	0	0	2--4	12	0	0	2--2
TOTAL	52						172			
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	448	614	13898	2521	8760	2.01--2.37	1.73--2.28	46	1.48--2.22	1.25--1.97
FEBRUARY	434	510	12165	2266	8760	1.88--2.03	1.59--2.19	40	1.10--1.88	0.92--1.66
MARCH	413	558	12794	2849	8760	2.05--2.25	1.85--2.79	43	1.06--2.07	0.92--1.84
APRIL	405	525	12155	2553	8760	2.06--2.08	1.50--2.02	42	0.97--2.08	0.85--1.88
MAY	410	576	13670	2935	8760	1.89--2.34	1.54--2.06	46	0.94--1.98	0.80--1.75
JUNE	450	596	13503	3418	8760	1.86--2.16	1.52--2.43	45	0.86--1.83	0.64--1.77
JULY*	460	603	14249	3411	8760	1.73--2.25	1.53--2.26	47	0.75--2.25	0.81--1.99
AUGUST*	487	927**	15091	3313	8760	1.85--2.49	1.46--3.13	51	0.57--1.81	0.40--1.64
SEPTEMBER	503	713	15081	2274	8760	1.82--2.40	1.24--2.45	46	0.92--1.93	0.64--1.75
OCTOBER	444	564	13761	1820	8760	1.88--2.47	1.50--2.43	46	0.84--1.99	0.69--1.76
NOVEMBER	462	589	13860	2345	8760	1.78--2.15	1.45--2.23	42	0.65--2.17	0.52--1.94
DECEMBER	473	637	14651	2054	8760	2.07--2.66	1.46--2.29	43	0.80--2.12	0.63--1.74
TOTAL			164878	31759	105120			537		
AVERAGE	449	590	13740	2647						
MIN - MAX						1.73--2.66	1.24--3.13		0.57--2.25	0.40--1.99
ODWQS							0.05 - 4.0			0.05 - 4.0

*Adjusted Flows to accommodate bypass flows due to Bruce St. Standpipe being offline July 31 to Aug. 31
**High flow due to refilling of Bruce St. Standpipe.

EGANVILLE DRINKING WATER SYSTEM

TREATED WATER - SCHEDULE 23 - INORGANIC PARAMETERS

SAMPLE DATE:		Jan.17,2017		
PARAMETER		RESULT mg/l	ODWQS* mg/l	
Antimony		0.0002	0.006	
Arsenic		<0.0001	0.01	
Barium		0.024	1	
Boron		<0.005	5	
Cadmium		<0.00002	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.17,2017	Apr.25,2017	Jul.11,2017	Oct.24,2017	
PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l	
Haloacetic Acid	27.8	33.3	80.2	54.4	
Chloroacetic Acid	<4.7	<4.7	<4.7	<4.7	
Bromoacetic Acid	<2.9	<2.9	<2.9	<2.9	
Dichloracetic Acid	11.1	14.3	34.4	21.1	
Dibromoacetic Acid	<2.0	<2.0	<2.0	<2.0	
Trichloroacetic Acid	16.7	19	45.8	33.3	
Running Annual Average (RAA)	27.8	30.6	47.1	48.9	
ODWQS* RAA 80 ug/l					

DISTRIBUTION SYSTEM - TRIHALOMETHANE (THM's)

SAMPLE DATE	Jan.17,2017	Apr.25,2017	Jul.11,2017	Oct.24,2017
PARAMETER	RESULTS ug/l	RESULTS ug/l	RESULTS ug/l	RESULTS ug/l
Chloroform	36.9	41.0	65.7	66.8
Bromodichloromethane	0.9	1.0	1.6	1.6
Dibromochloromethane	<0.1	<0.1	<0.1	<0.1
Bromoform	<0.1	<0.1	<0.1	<0.1
Total Trihalomethane	37.8	42.0	67.3	68.4
Running Annual Average (RAA)	58.5	56.7	51.5	53.9
ODWQS* RAA 100 ug/l				

TREATED WATER - CHEMICAL ANALYSIS

	Jan.17,2017	Apr.25,2017	Jul.11,2017	Oct.24,2017	
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 WATER TREATMENT PLANT - TREATED WATER - SCHEDULE 24 - ORGANIC PARAMETERS							
SAMPLE DATE:	Jan.17,2017	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)	<0.12	100
Bromoxynil		<0.3	5		Metolachlor	<3	50
Carbaryl		<3	90		Metribuzin	<3	80
Carbofuran		<1	90		Monochlorobenzene	<0.2	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		<0.1	200		Polychlorinated Biphenyls (PCB)	<0.5	3
1,4-Dichlorobenzene		<0.2	5		Prometryne	<0.1	1
1,2-Dichloroethane		<0.1	5		Simazine	<0.5	10
1,1-Dichloroethylene (vinylidene chloride)		<0.1	14		Terbufos	<0.3	1
Dichloromethane		<0.3	50		Tetrachloroethylene (perchloroethylene)	<0.2	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	<0.1	5
Dimethoate		<1	20		2,4,6-Trichlorophenol	<0.1	5
					Trifluralin	<0.5	45
					Vinyl Chloride	<0.2	1

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - MONTHLY AVERAGES										
	pH		ALKALINITY		COLOUR		TEMPERATURE			
			mg/l $CaCo_3$		TCU		C^O			
MONTH	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED		
JANUARY	7.30	6.97	39	29	12	1	1.5	3.0		
FEBRUARY	7.31	6.97	40	32	12	1	1.5	2.7		
MARCH	7.44	7.15	44	33	12	1	2.5	3.5		
APRIL	7.39	7.16	44	34	11	1	5.8	6.2		
MAY	7.35	7.12	39	31	12	1	11.4	11.5		
JUNE	7.33	7.21	39	29	23	1	19.5	19.2		
JULY	7.31	7.20	41	32	36	1	22.6	22.1		
AUGUST	7.45	7.19	41	32	32	1	22.5	22.7		
SEPTEMBER	7.38	7.17	37	28	31	1	20.1	2.4		
OCTOBER	7.58	7.29	44	34	25	1	14.3	16.0		
NOVEMBER	7.47	7.25	48	35	26	1	4.9	6.8		
DECEMBER	7.33	7.18	42	33	23	1	2.1	3.5		
AVERAGE	7.39	7.16	42	32	21	1	10.7	10.0		

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	16532	89.22	5.40	819.91	49.60	3.42	0.21
FEBRUARY	14522	74.28	5.11	745.55	51.34	3.09	0.21
MARCH	15633	78.30	5.01	744.92	47.65	3.27	0.21
APRIL	14708	74.32	5.05	726.80	49.42	3.24	0.22
MAY	16605	97.50	5.87	832.00	50.11	4.03	0.24
JUNE	16921	129.18	7.63	756.00	44.68	4.12	0.24
JULY	17660	161.76	9.16	814.00	46.09	4.24	0.24
AUGUST	18404	184.02	10.00	839.00	45.59	4.42	0.24
SEPTEMBER	17355	145.56	8.39	807.00	46.50	4.17	0.24
OCTOBER	15581	121.20	7.78	777.00	49.87	3.74	0.24
NOVEMBER	16205	105.66	6.52	816.00	50.35	3.89	0.24
DECEMBER	16705	101.46	6.07	825.00	49.39	4.01	0.24
TOTAL	196831	1362.46		9503.18		45.64	
AVERAGE	16403	113.54	6.83	791.93	48.38	3.80	0.23

EGANVILLE WATER TREATMENT PLANT - 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	0.32	0.39	0.05	0.06	0.01	0.02	0.00	0.10	0.01	0.15	0.01	0.04	0.00	0.21	0.00	0.50
FEBRUARY	0.33	0.35	0.05	0.06	0.01	0.20	0.00	0.25	0.01	0.12	0.01	0.02	0.00	0.15	0.01	0.23
MARCH	0.28	0.33	0.05	0.07	0.01	0.29	0.02	0.27	0.00	0.27	0.01	0.28	0.00	0.06	0.01	0.14
APRIL	0.34	0.60	0.05	0.07	0.01	0.28	0.02	0.22	0.00	0.26	0.01	0.58	0.00	0.03	0.00	0.16
MAY	0.56	0.72	0.06	0.07	0.01	0.31	0.00	0.37	0.00	0.33	0.01	0.77	0.00	0.30	0.01	0.17
JUNE	0.72	0.83	0.05	0.07	0.00	0.35	0.00	0.29	0.00	0.31	0.01	0.70	0.00	0.32	0.01	0.28
JULY	0.71	1.18	0.07	0.08	0.00	0.29	0.00	0.31	0.00	0.31	0.01	0.45	0.01	0.70	0.01	0.21
AUGUST	0.62	0.89	0.06	0.09	0.00	0.26	0.00	0.31	0.00	0.29	0.01	0.29	0.01	0.33	0.01	0.29
SEPTEMBER	0.49	0.67	0.05	0.07	0.00	0.27	0.00	0.31	0.00	0.28	0.01	0.27	0.01	0.39	0.01	0.24
OCTOBER	0.49	1.31	0.06	0.08	0.00	0.28	0.00	0.26	0.00	0.30	0.01	0.26	0.01	0.35	0.01	0.15
NOVEMBER	0.61	0.82	0.06	0.08	0.00	0.43	0.00	0.35	0.00	0.32	0.01	0.40	0.01	0.14	0.00	0.16
DECEMBER	0.49	0.62	0.07	0.07	0.00	0.41	0.00	0.30	0.00	0.37	0.01	0.83	0.01	0.15	0.00	0.11
Yearly Min / Max	0.28	1.31	0.05	0.09	0.00	0.43	0.00	0.37	0.00	0.37	0.01	0.83	0.00	0.70	0.00	0.50