

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	60 -- 400	2 -- 5	0	0	2--56	15	0	0	2--2
FEBRUARY	4	50 -- 200	1 -- 3	0	0	2--2	12	0	0	2--2
MARCH	4	40 -- 230	2 -- 4	0	0	2--2	12	0	0	2--2
APRIL	5	300--1500	2 --10	0	0	2--2	15	0	0	2--2
MAY	4	180 -- 800	11 -- 34	0	0	2--2	12	0	0	2--2
JUNE	5	90 -- 400	30 -- 76	0	0	2--2	16	0	0	2--2
JULY	5	90 -- 190	30 -- 61	0	0	2--2	20	0	0	2--2
AUGUST	4	90 -- 380	30 --183	0	0	2--2	16	0	0	2--2
SEPTEMBER	4	50 -- 110	21 -- 28	0	0	2--4	12	0	0	2--2
OCTOBER	5	70 -- 90	7 -- 29	0	0	2--2	15	0	0	2--2
NOVEMBER	4	30 -- 300	4 -- 11	0	0	2--2	12	0	0	2--2
DECEMBER	5	20 -- 140	0 -- 6	0	0	2--2	15	0	0	2--2
TOTAL	54						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	409.0	499.0	12680.0	4280.2	744	1.77 -- 1.98	1.60 -- 1.80	46	0.48 -- 1.90	0.38 -- 1.73
FEBRUARY	429.1	526.1	12445.2	2801.8	696	1.53 -- 1.96	1.17 -- 2.25	41	0.45 -- 1.44	0.36 -- 1.62
MARCH	431.5	525.8	13376.7	3668.8	744	1.88 -- 2.03	1.47 -- 2.15	43	0.61 -- 1.82	0.50 -- 1.69
APRIL	389.9	482.9	11697.0	3077.5	720	1.36 -- 2.03	1.31 -- 1.84	45	0.43 -- 1.61	0.32 -- 1.32
MAY	426.4	553.7	13219.7	3215.6	744	1.33 -- 2.28	1.33 -- 2.20	43	0.44 -- 1.90	0.33 -- 1.78
JUNE	439.1	556.6	13172.5	3047.8	720	1.81 -- 2.48	1.61 -- 2.27	46	0.38 -- 2.16	0.28 -- 1.95
JULY	470.4	552.4	14581.7	3155.1	744	1.78 -- 2.11	1.58 -- 1.89	50	0.43 -- 1.93	0.34 -- 1.80
AUGUST	457.4	620.7	14180.2	3290.9	744	1.95 -- 2.31	1.74 -- 2.06	47	0.29 -- 1.85	0.20 -- 1.68
SEPTEMBER	483.9	623.9	14516.2	3492.9	720	1.97 -- 2.65	1.78 -- 2.44	42	0.42 -- 1.99	0.30 -- 1.80
OCTOBER	433.4	536.2	13436.5	3201.4	744	1.65 -- 2.10	1.45 -- 2.26	46	0.34 -- 2.02	0.23 -- 1.82
NOVEMBER	424.7	523.8	12741.1	2734.0	720	1.77 -- 2.71	1.59 -- 2.41	42	0.49 -- 2.20	0.38 -- 2.05
DECEMBER	425.2	555.7	13180.5	2848.8	744	1.61 -- 1.94	1.80 -- 2.17	46	0.51 -- 2.10	0.38 -- 1.82
TOTAL			159227	38815	8784			537		
AVERAGE	435.0	546.4	13268.9	3234.6						
MIN - MAX		623.9				1.33 -- 2.71	1.17 -- 2.44		0.29 -- 2.20	0.20 -- 2.05
ODWQS*							0.05 - 4.0			0.05 - 4.0

EGANVILLE DRINKING WATER SYSTEM										
TREATED WATER - SCHEDULE 23 - INORGANIC PARAMETERS			DISTRIBUTION SYSTEM - HALOACETIC ACIDS (HAA's)							
SAMPLE DATE:	Jan.23			SAMPLE DATE:	Jan.23	Apr.23	Jul. 23	Oct. 21		
PARAMETER	RESULT mg/l	ODWQS* mg/l		PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l		
Antimony	<0.0001	0.006		Monochloroacetic Acid	0.6	4.7	4.7	4.7		
Arsenic	<0.0001	0.01		Monobromoacetic Acid	<0.5	2.9	2.9	2.9		
Barium	0.025	1		Dichloroacetic Acid	10.6	19.8	39.7	23.8		
Boron	<0.005	5		Dibromoacetic Acid	<0.5	2	2	2		
Cadmium	<0.000015	0.005		Trichloroacetic Acid	15	24.2	44.3	36.5		
Chromium	<0.0010	0.05		Total Haloacetic Acid	26.3	44	84	60.3		
Mercury	<0.00002	0.001								
Selenium	<0.001	0.001								
Uranium	<0.00005	0.02		Running Annual Average (RAA)	57.6	54.6	49.6	53.7		
				ODWQS* RAA 80 ug/l						
DISTRIBUTION SYSTEM - TRIHALOMETHANE (THM's)					TREATED WATER - CHEMICAL ANALYSIS					
SAMPLE DATE	Jan.23	Apr.23	Jul. 23	Oct. 21		Jan.23	Apr.23	Jul. 23	Oct. 21	
PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l	PARAMETER	RESULT mg/l	RESULT mg/l	RESULT mg/l	RESULT mg/l	ODWQS* mg/l
Chloroform	43	53	98	68	Nitrate	0.05	0.05	0.05	0.05	10.0
Bromodichloromethane	<2	2	3	2	Nitrite	0.05	0.09	0.05	0.05	1.0
Dibromochloromethane	<2	2	2	2						
Bromoform	<5	5	5	5	Flouride	0.1				1.5
Total Trihalomethane	44	55	101	70	Sodium	9.2				200
Running Annual Average (RAA)	72.3	73.5	69.8	67.5	Lead	0.00045				
ODWQS* RAA 100 ug/l										

EGANVILLE DRINKING WATER SYSTEM - TREATED WATER - SCHEDULE 24 - ORGANIC PARAMETERS							
SAMPLE DATE:	Jan.24,2024	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		<0.006	0.01		2-Methyl-4-chlorophenoxyacetic acid (MCPA)	<0.10	100
Bromoxynil		<0.5	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	<0.2	60
Diazinon		<1	20		Phorate	<0.3	2
Dicamba		<1	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	<0.5	1
Dichloromethane		<0.5	50		Tetrachloroethylene (perchloroethylene)	<0.5	10
2,4-Dichlorophenol		<0.2	900		2,3,4,6-Tetrachlorophenol	<0.2	100
2,4-Dichlorophenoxy acetic acid (2,4-D)		<1	100		Triallate	<10	230
Diclofop-methyl		<0.9	9		Trichloroethylene	<0.5	5
Dimethoate		<1	20		2,4,6-Trichlorophenol	<0.2	5
					Trifluralin	<0.5	45
					Vinyl Chloride	<0.2	1

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - MONTHLY AVERAGES										
MONTH	pH		ALKALINITY		COLOUR		TEMPERATURE			
	RAW	TREATED	mg/l CaCo ₃		TCU		C ^o			
	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED		
JANUARY	7.41	6.85	36	23	17	1	2.7	4.3		
FEBRUARY	7.44	6.92	39	24	17	1	3.0	4.3		
MARCH	7.61	7.03	43	27	19	1	5.5	6.1		
APRIL	7.78	7.15	54	40	17	1	10.0	10.4		
MAY	7.64	7.03	40	27	19	1	17.0	16.1		
JUNE	7.77	7.07	43	31	19	1	21.3	20.1		
JULY	7.80	7.14	50	37	23	1	23.5	22.3		
AUGUST	7.95	7.15	49	38	21	1	22.3	21.6		
SEPTEMBER	7.80	7.08	42	31	21	1	21.5	21.4		
OCTOBER	7.98	7.34	44	31	19	1	15.0	16.9		
NOVEMBER	7.5	6.80	40	32	18	1	11.0	13.1		
DECEMBER	7.38	6.87	42	32	18	1	6.5	8.1		
AVERAGE	7.67	7.04	44	31	19	1	13.3	13.7		

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - PROCESS CHEMICAL USAGE							
MONTH	RAW WATER FLOW m ³	SODIUM HYPOCHORITE		PAS-8		POLYMER	
		Kg Used	Dosage mg/l	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l
JANUARY	16960.2	68.02	4.01	1030	60.73	2.04	0.12
FEBRUARY	15348.0	64.16	4.18	974	63.46	1.74	0.11
MARCH	17045.5	74.28	4.36	1022	59.96	2.18	0.13
APRIL	14774.5	62.80	4.25	882	59.70	2.07	0.14
MAY	16435.3	81.00	4.93	954	58.05	2.30	0.14
JUNE	16220.3	80.70	4.98	902	55.61	2.27	0.14
JULY	17736.8	102.54	5.78	986	55.59	2.48	0.14
AUGUST	17471.1	104.92	6.01	987	56.49	2.45	0.14
SEPTEMBER	18009.1	94.76	5.26	992	55.08	2.52	0.14
OCTOBER	16637.9	91.70	5.51	932	56.02	2.33	0.14
NOVEMBER	15475.1	85.94	5.55	750	48.46	2.17	0.14
DECEMBER	16029.3	96.58	6.03	779	48.60	2.24	0.14
TOTAL	198143.1	1007.40		11190		26.79	
AVERAGE	16512	83.95	5.07	933	56.48	2.23	0.14

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	0.37	0.62	0.06	0.09	0.056	0.125	0.056	0.131	0.000	0.126	0.021	0.089	0.038	0.164	0.004	0.206
FEBRUARY	0.37	0.56	0.07	0.13	0.059	0.276	0.000	0.100	0.000	0.100	0.031	0.281	0.280	0.154	0.005	0.071
MARCH	0.48	1.05	0.08	0.09	0.013	0.298	0.000	0.122	0.000	0.164	0.016	0.292	0.026	0.245	0.005	0.148
APRIL	0.54	0.76	0.07	0.09	0.045	0.175	0.000	0.231	0.001	0.143	0.016	0.252	0.028	0.234	0.005	0.286
MAY	0.52	0.83	0.09	0.13	0.024	0.277	0.034	0.169	0.015	0.219	0.046	0.199	0.053	0.154	0.081	0.200
JUNE	0.84	1.21	0.09	0.10	0.011	0.134	0.000	0.154	0.001	0.215	0.011	0.245	0.045	0.262	0.001	0.186
JULY	0.85	1.50	0.09	0.10	0.015	0.183	0.000	0.138	0.001	0.100	0.007	0.140	0.059	0.295	0.000	0.051
AUGUST	0.88	1.18	0.09	0.11	0.058	0.163	0.000	0.148	0.001	0.267	0.014	0.216	0.049	0.281	0.003	0.054
SEPTEMBER	0.10	0.67	0.07	0.11	0.055	0.141	0.000	0.092	0.006	0.244	0.010	0.280	0.046	0.179	0.003	0.049
OCTOBER	0.39	0.67	0.08	0.12	0.068	0.210	0.000	0.241	0.001	0.220	0.012	0.285	*	*	*	*
NOVEMBER	0.53	0.60	0.10	0.14	0.020	0.291	0.000	0.016	0.001	0.136	0.006	0.290	*	*	*	*
DECEMBER	0.52	0.63	0.09	0.18	0.066	0.282	0.029	0.234	0.001	0.285	0.006	0.115	*	*	*	*
Yearly Min / Max	0.10	1.50	0.06	0.18	0.011	0.298	0.000	0.241	0.000	0.285	0.006	0.292	0.026	0.295	0.000	0.286

Number of Samples Collected:

Raw Water Grab - 52

Treated Water Grab - 52

Treated Water Continuous - 6 filters for 9 months, 4 filters for 3 months - 48,144

* GAC Filters offline for maintenance