

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	30 -- 126	0 -- 6	0	0	2--2	15	0	0	2--2
FEBRUARY	4	10 -- 50	0 -- 2	0	0	2--2	12	0	0	2--2
MARCH	4	10 -- 70	1 -- 5	0	0	2--2	12	0	0	2--2
APRIL	4	40 --150	0 -- 4	0	0	2--2	12	0	0	2--2
MAY	5	40 -- 190	5 -- 13	0	0	2--2	15	0	0	2--2
JUNE	4	60 -- 500	11 -- 108	0	0	2--2	14	0	0	2--2
JULY	4	30 -- 200	10 -- 41	0	0	2--2	16	0	0	2--4
AUGUST	5	40 -- 170	8 -- 50	0	0	2--2	20	0	0	2--2
SEPTEMBER	4	40 -- 200	18 -- 51	0	0	2--2	14	0	0	2--4
OCTOBER	5	100 -- 230	0 -- 63	0	0	2--2	15	0	0	2--2
NOVEMBER	4	50 -- 180	1 -- 7	0	0	2--2	12	0	0	2--2
DECEMBER	4	150 -- 600	2 -- 4	0	0	2--2	12	0	0	2--2
TOTAL	52						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										
MONTH	TREATED WATER FLOW			PROCESS WASTE WATER	TREATED WATER DISINFECTION			DISTRIBUTION SYSTEM DISINFECTION		
	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	452	511	14006	3247	8760	2.03 -- 2.38	1.67 - 2.01	46	0.65 -- 2.13	0.53 -- 1.92
FEBRUARY	471	769	13190	3184	8760	2.03 -- 2.41	1.70 -- 2.74	40	0.86 -- 2.07	0.62 -- 1.91
MARCH	471	527	14607	3275	8760	1.59 -- 2.00	1.52 -- 2.22	43	0.66 -- 1.53	0.54 -- 1.53
APRIL	453	555	16659	3065	8760	1.69 -- 1.85	1.35 -- 1.69	42	0.53 -- 1.53	0.40 -- 1.37
MAY	499	609	15460	3424	8760	1.48 -- 2.71	1.36 -- 2.35	46	0.64 -- 2.20	0.44 -- 1.96
JUNE	598	728	17955	3887	8760	1.74 -- 2.14	1.53 -- 2.34	44	0.38 -- 1.81	0.45 -- 2.00
JULY	590	742	18276	3726	8760	1.91 -- 2.35	1.70 -- 2.11	47	0.47 -- 2.13	0.35 -- 1.95
AUGUST	527	621	16344	3645	8760	2.10 -- 2.47	1.70 -- 2.28	51	0.51 -- 2.03	0.39 -- 1.84
SEPTEMBER	524	602	19314	3579	8760	2.13 -- 2.44	1.90 -- 2.41	44	0.40 -- 1.95	0.51 -- 2.16
OCTOBER	441	568	13682	3508	8760	1.93 -- 2.25	1.60 -- 2.24	46	0.39 -- 1.87	0.31 -- 1.68
NOVEMBER	407	551	12224	3465	8760	2.01 -- 2.26	1.82 -- 2.39	42	0.46 -- 1.95	0.37 -- 1.78
DECEMBER	407	494	12632	3589	8760	1.83 -- 2.46	1.49 -- 2.56	43	0.48 -- 2.20	0.34 -- 2.00
TOTAL			184349	41594	105120			534		
AVERAGE	487	606	15362	3466						
MIN - MAX						1.48 -- 2.71	1.35 -- 2.74		0.38 -- 2.20	0.31 -- 2.16
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.24,2023			SAMPLE DATE:	Jan.24,2023	Apr.18,2023	Jul.18,2023	Oct.24,2023		
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	4.7	4.7	4.7	4.7		
Arsenic	<0.0001	0.01		Monobromoacetic Acid	2.9	2.9	2.9	2.9		
Barium	0.023	1		Dichloroacetic Acid	21.3	23.2	43.9	20.8		
Boron	<0.005	5		Dibromoacetic Acid	2	2	2	2		
Cadmium	<0.000010	0.005		Trichloroacetic Acid	27	33.1	60.3	23.1		
Chromium	<0.002	0.05		Total Haloacetic Acid	48.3	56.3	104	43.9		
Mercury	<0.00002	0.001								
Selenium	<0.001	0.001								
Uranium	<0.00005	0.02		Running Annual Average (RAA)	66.6	62.8	64.9	63.1		
				ODWQS* RAA 80 ug/l						
DISTRIBUTION SYSTEM - TRIHALOMETHANE (THM's)					TREATED WATER - CHEMICAL ANALYSIS					
SAMPLE DATE	Jan.24,2023	Apr.18,2023	Jul.18,2023	Oct.24,2023		Jan.24,2023	Apr.18,2023	Jul.18,2023	Oct.24,2023	
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	53	49	113	77	Nitrate	0.1	<0.05	<0.05	<0.05	10.0
Bromodichloromethane	2	2	3	2	Nitrite	<0.1	<0.05	<0.06	<0.05	1.0
Dibromochloromethane	2	2	2	2						
Bromoform	5	5	5	5	Flouride	<0.1				1.5
Total Trihalomethane	53	50	116	79	Sodium	8.7				200
Running Annual Average (RAA)	71.5	70.3	66.8	74.5	Lead	0.00005				
ODWQS* RAA 100 ug/l										

EGANVILLE DRINKING WATER SYSTEM - TREATED WATER - SCHEDULE 24 - ORGANIC PARAMETERS							
SAMPLE DATE:	Jan.24,2023	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			
JANUARY	7.61	7.2	43	33	15	1	2.4	4.1		
FEBRUARY	7.54	7.18	43	33	15	1	2.7	3.6		
MARCH	7.58	7.16	41	32	16.3	1	3.2	4.4		
APRIL	7.44	7.03	47	37	19	1	7.1	8.1		
MAY	7.50	7.09	44	34	27	1	13.7	13.67		
JUNE	7.46	7.14	43	33	26	1	21.3	21		
JULY	7.57	7.15	38	28	25	1	24.8	24		
AUGUST	7.83	7.29	36	27	21	1	21.9	21.8		
SEPTEMBER	7.83	7.16	36	26	18	1	20.6	20.8		
OCTOBER	7.74	7.18	37	28	17	1	14.6	16.1		
NOVEMBER	7.73	7.16	36	25	17	1	6.4	8.99		
DECEMBER	7.51	6.98	32	23	15.8	1	4	7		
AVERAGE	7.61	7.14	40	30	19	1	11.9	12.8		

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	17253	85.10	4.93	812	47.06	1.56	0.09
FEBRUARY	16374	85.66	5.23	771	47.09	1.31	0.08
MARCH	17882	87.84	4.91	844	47.20	1.43	0.08
APRIL	16659	89.82	5.39	770	46.22	1.62	0.10
MAY	18883	134.46	7.12	876	46.39	1.51	0.08
JUNE	21841	120.34	5.51	999	45.74	1.85	0.08
JULY	22002	138.16	6.28	1011	45.95	2.64	0.12
AUGUST	19989	125.32	6.27	924	46.23	2.40	0.12
SEPTEMBER	19314	107.48	5.56	903	46.75	2.32	0.12
OCTOBER	17190	93.80	5.46	824	47.93	2.06	0.12
NOVEMBER	15689	82.02	5.23	762	48.57	1.88	0.12
DECEMBER	16221	75.40	4.65	860	53.02	1.95	0.12
TOTAL	219297	1225.40		10356		22.53	
AVERAGE	18275	102.12	5.55	863	47.35	1.88	0.10

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	0.46	0.05	0.07	0.006	0.235	0.004	0.284	0.000	0.008	0.001	0.032	0.010	0.157	0.051	0.223
FEBRUARY	0.34	0.41	0.05	0.10	0.006	0.272	0.004	0.291	0.000	0.140	0.001	0.240	0.004	0.168	0.002	0.192
MARCH	0.34	0.41	0.05	0.10	0.042	0.176	0.004	0.294	0.010	0.044	0.001	0.033	0.035	0.211	0.002	0.218
APRIL	0.42	0.59	0.06	0.09	0.035	0.120	0.005	0.220	0.032	0.096	0.001	0.200	0.030	0.136	0.002	0.118
MAY	0.46	0.70	0.07	0.09	0.017	0.210	0.005	0.180	0.000	0.250	0.001	0.220	0.004	0.173	0.006	0.212
JUNE	0.78	1.34	0.09	0.10	0.043	0.257	0.005	0.285	0.000	0.100	0.001	0.100	0.026	0.204	0.010	0.185
JULY	0.72	1.12	0.08	0.11	0.035	0.162	0.000	0.200	0.018	0.110	0.001	0.182	0.013	0.090	0.031	0.080
AUGUST	0.59	0.91	0.06	0.08	0.006	0.154	0.003	0.142	0.000	0.205	0.001	0.141	0.008	0.219	0.007	0.297
SEPTEMBER	0.47	0.54	0.06	0.08	0.006	0.150	0.000	0.067	0.000	0.090	0.001	0.080	0.013	0.225	0.007	0.136
OCTOBER	0.37	0.54	0.05	0.09	0.006	0.200	0.000	0.120	0.000	0.090	0.000	0.160	0.009	0.190	0.010	0.214
NOVEMBER	0.41	0.54	0.06	0.08	0.006	0.115	0.000	0.155	0.016	0.183	0.001	0.150	0.030	0.218	0.004	0.241
DECEMBER	0.38	0.53	0.08	0.10	0.054	0.130	0.059	0.147	0.026	0.100	0.019	0.296	0.045	0.221	0.005	0.180
Yearly Min / Max	0.34	1.34	0.05	0.11	0.006	0.272	0.000	0.294	0.000	0.250	0.000	0.296	0.004	0.225	0.002	0.297