



## Ellison & Dry Valley Comprehensive Water Quality Results - CREEK

Please note that water quality can change drastically in Ellison and Dry Valley as these areas can be supplied with water from the creek only; from the creek augmented by wells; or with wells only (when flows are low, and during spring freshet). **The following results are for the creek only.**

Parameter	Sept 6/13	Sept 5/14	Sept 17/15	Oct 10/16	Units	Canadian Guidelines for Drinking Water
Alkalinity (total)	21	14	21	28	mg/L as CaCo3	No Guideline
Hardness (total)	36.7	27	29.8	37.8	mg/L as CaCo3	No Guideline
Chloride	9.64	7.92	6.27	0.73	mg/L	AO <250
Color (true)	20	19	<5	63	Color Units	AO<15 TCU
Conductivity@ 25	57.9	69	72	61	Umhos/cm	No Guideline
Cyanide	<0.010	<0.010	<0.010	<0.0020	mg/L	MAC < 0.2
Fluoride	0.11	<0.10	<0.10	<0.10	mg/L	MAC < 1.5
Nitrite	<0.010	<0.010	<0.010	<0.010	mg/L as N	MAC < 1
Nitrate	0.042	0.025	0.027	0.026	mg/L as N	MAC < 10
pH	6.97	6.74	7.10	7.57	pH units	AO=6.5-8.5
Sulphate	2.8	2.4	2.2	2.1	mg/L	AO <500
Dissolved Solids (total)	41.9	30.7	34.6	37	mg/L	AO <500
Turbidity	1.5	0.2	1.9	2.71	NTU	<1
Transmissivity @ 254nm	57.9	58	66.9	N/A	No Guideline	
Total Coliform	<1	<1	<1	<1	CFU/100ml	MAC <1
E. coli	<1	<1	<1	<1	CFU/100ml	MAC <1
Parameter	Sept 6/13	Sept 5/14	Sept 17/15	Oct 10/16	Units	Canadian Guidelines for Drinking Water
Aluminum	0.10	0.13	0.10	0.12	mg/L	AO ≤ 0.1
Antimony	<0.001	0.002	<0.001	<0.001	mg/L	MAC <0.007
Arsenic	<0.005	<0.005	<0.005	<0.005	mg/L	MAC < 0.01

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Barium	<0.05	<0.05	<0.05	<0.05	mg/L	MAC <1
Beryllium	<0.001	<0.001	<0.001	N/A	mg/L	No Guideline
Boron	<0.04	<0.04	<0.04	<0.04	mg/L	MAC <5
Cadmium	<0.0001	<0.0001	<0.0001	<0.001	mg/L	MAC <0.005
Calcium	10	7.4	8.2	10.2	mg/L	No Guideline
Chromium	<0.005	<0.005	0.005	<0.005	mg/L	MAC <0.05
Cobalt	<0.0005	<0.0005	<0.0005	<0.0005	mg/L	No Guideline
Copper (Total)	0.008	0.007	0.009	<0.0020	mg/L	AO <1
Iron	0.4	0.33	0.36	0.55	mg/L	AO <0.3
Lead	<0.001	<0.001	<0.001	<0.0010	mg/L	MAC <0.01
Magnesium	3.1	2.1	2.2	3	mg/L	No Guideline
Manganese	0.035	0.017	0.018	0.019	mg/L	AO <0.05
Mercury	<0.0002	<0.0002	<0.00002	<0.00002	mg/L	MAC <0.001
Molybdenum	<0.001	<0.001	<0.001	<0.0010	mg/L	No Guideline
Nickel	<0.002	<0.002	<0.002	<0.0020	mg/L	No Guideline
Phosphorus	<0.2	<0.2	<0.2	N/A	mg/L	No Guideline
Potassium	1.0	0.6	0.8	0.94	mg/L	No Guideline
Selenium	<0.005	<0.005	<0.005	N/A	mg/L	MAC <0.01
Silicon	<5	5	5	N/A	mg/L	No Guideline
Silver	<0.0005	<0.0005	<0.0005	N/A	mg/L	No Guideline
Sodium	2.8	2.0	2.0	2.87	mg/L	AO <200
Uranium	<0.0002	<0.0002	<0.0002	<0.0002	mg/L	MAC <0.02
Zinc	<0.04	<0.04	<0.04	<0.04	mg/L	AO <5