



# Town of Cornwall

so much to offer...

## Water & Sewer Utility

### WATER DISTRIBUTION REPORT 2013

Throughout the year, our utility technicians sample the Town's water distribution and waste water treatment plant to ensure residents continue to receive the highest quality of water and waste water treatment.

In the Town's commitment to service and keeping a sustainable environment, our sampling procedures exceed provincial standards.

Samples from Distribution System (Treated)						
Month	# of Samples	Positive TC Test (TC ≤ 10)	# of Non-Compliant (TC > 10)	E.coli	Positive BG Tests (BG ≤ 200)	# of Non-Compliant (BG > 200)
January	15	0	0	0	0	0
February	12	0	0	0	0	0
March	10	0	0	0	0	0
April	12	0	0	0	0	0
May	13	0	0	0	0	0
June	12	0	0	0	0	0
July	20	0	0	0	0	0
August	13	0	0	0	0	0
September	14	0	0	0	0	0
October	12	0	0	0	0	0
November	14	0	0	0	0	0
December	14	0	0	0	0	0
<b>Total</b>	<b>161</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

In accordance with the *Drinking Water and Wastewater Facility Operating Regulations*, a water sample is collected from each source of supply on a monthly basis and analyzed for the presence of coliform bacteria and E.coli.

Untreated Water (Samples from Wells)										
Month	Meadow bank	Norgate	East Wiltshire	River Point	# of Samples	Positive TC Test (TC ≤ 10)	# of Non-Compliant (TC > 10)	Ecoli	Positive BG Tests (BG ≤ 200)	# of Non-Compliant (BG > 200)
January	6	2	2	3	13	2	0	0	2	0
February	3	1	1	2	7	1	0	0	0	0
March	3	1	1	2	7	0	1	0	1	0
April	3	1	1	3	8	1	0	0	1	0
May	3	1	3	3	10	0	1	0	1	0
June	3	1	3	3	10	2	1	0	1	0
July	3	1	2	3	9	0	1	0	1	0
August	3	1	3	3	10	0	3	0	3	0
September	3	1	2	16	22	1	10	0	6	2
October	3	1	6	9	19	3	4	0	5	2
November	3	1	1	6	11	2	2	0	1	0
December	3	1	2	4	10	1	3	0	1	2
<b>Total</b>	<b>39</b>	<b>13</b>	<b>27</b>	<b>57</b>	<b>136</b>	<b>13</b>	<b>26</b>	<b>0</b>	<b>23</b>	<b>6</b>

For each non-compliant sample, the well is isolated from the system and is flushed and resampled until clear samples are obtained.

Chemical Analysis Report						
Chemical	Meadowbank (avg) Concentration (mg/L)	Northgate (avg) Concentration (mg/L)	East Wiltshire (avg) Concentration (mg/L)	River Point (avg) Concentration (mg/L)	MAC* (mg/L)	AO* (mg/L)
Alkalinity Total	108	126	155.5	139	--	--
Barium	0.467	0.525	0.8275	0.144	1.0	--
Cadmium	<0.002	<0.002	<0.002	<0.002	0.005	--
Calcium	39.91	35.9	35	36.43	--	--
Chloride	232.9	19.5	16.05	23.3	--	≤250
Chromium	<0.005	<0.005	<0.005	<0.005	0.05	--
Copper	0.009	0.006	<0.005	<0.005	--	≤1.0
Iron	<0.009	<0.009	<0.009	<0.009	--	≤0.3
Lead	<0.002	<0.002	<0.002	<0.002	0.01	--
Magnesium	25.54	17.19	18.4	18.46	--	--
Manganese	<0.003	<0.003	<0.003	<0.003	--	≤0.05
Nickel	<0.003	<0.003	<0.003	<0.003	--	--
Nitrate-N	1.23	5	1.95	3.1	10.0	--
pH	8.2	7.8	7.7	7.5	--	6.5-8.5
Phosphorus	0.03	0.05	0.04	0.09	--	--
Potassium	2.69	1.6	1.73	1.56	--	--
Sodium	110.8	6.7	8.065	8.86	--	≤200
Sulfate	25.96	5.13	6.86	5.56	--	≤500
Zinc	0.009	<0.006	0.009	<0.006	--	≤5
Total Hardness	204.8	158.4	163.15	167	--	≤200

\*MAC - Maximum Acceptable Concentration AO - Aesthetic Objective - as per *Guidelines for Canadian Drinking Water Quality*, Health Canada

