

# **2020 Annual Drinking Water System Quality Report for Ansnorveldt DWS**

Prepared by The Regional Municipality of York pursuant to Section 11 of O.Reg. 170/03

**Drinking Water System Number:** 260002213  
**Drinking Water System Name:** Ansnorveldt DWS  
**Drinking Water System Owner:** The Regional Municipality of York  
**Drinking Water System Category:** Large Municipal Residential  
**Drinking Water System Classification:** Water Distribution and Supply II  
**Reporting period:** Jan 1, 2020 - Dec 31, 2020

## **The Ansnorveldt DWS serves approximately 118 people**

(Population is a year-end forecasted estimate based on Statistics Canada census data, and building permits)

## **List all Drinking Water Systems which receive their drinking water from the Ansnorveldt DWS:**

Ansnorveldt Distribution System (260034372)

This annual report is available to the public at no charge on the Region's website ([york.ca/drinkingwater](http://york.ca/drinkingwater)) and upon request. Accessible formats or communication supports are also available upon request. Please contact [AccessYork@york.ca](mailto:AccessYork@york.ca) or call 1-877-464-9675.

**A copy of York Region's annual report was provided to all Drinking Water System owners that are connected to and receive drinking water from York Region.**

**System users were notified that York Region's annual report is available free of charge by public access and notice through:**

- Media (internet, social media)
- Public requests at any time

**Summary report required under O.Reg. 170/03 Schedule 22 will be available for inspection at:**

The Regional Municipality of York  
Administrative Centre  
Environmental Services Department  
17250 Yonge Street, Newmarket ON

## **Description of the Ansnorveldt DWS**

### **Introduction**

Ansnorveldt is located in King Township. The residential community served by the Ansnorveldt Drinking Water System is centred on Dufferin Street, north of Highway 9. Local groundwater is naturally high in minerals. York Region operates the water supply, while the Township of King maintains water quality and distributes it to users. The Province governs the Region's operations with Acts and Regulations, a Permit to Take Water, a Municipal Drinking Water License and an operating Permit.

### **Raw water source**

Groundwater

### **Profile of water in distribution system**

Groundwater

### **Water treatment description**

Two wells share one pumphouse. Water is disinfected with chlorine. No other treatment chemicals are used. Raw water test results show the good health of the aquifer and help staff confirm optimal treatment. Water is stored and kept fresh on site for high demand times. Operators test the water and inspect the process regularly. Online analyzers continuously monitor treatment and water flow. When analyzers detect an issue, the system pauses operation until an operator takes action.

### **List of water treatment chemicals used in this system**

Chlorine (Sodium Hypochlorite)

### **Brief description and breakdown of monetary expenses incurred**

\$6,450 for general maintenance and repairs.

**Notices submitted under Section 18(1) of the Safe Drinking Water Act or Section 16-4 of O.Reg. 170/03 and reported to MECP Spills Action Centre**

Adverse Parameter	Incident Date	Adverse Test Result	Corrective Action	Corrective Action Date
Sodium	Apr 15	41.9 mg/L	Operator attended site. Resample taken.	Apr 22

**Microbiological testing completed under Schedule 10 of O.Reg. 170/03**

For additional distribution samples collected under Schedule 10, refer to the local municipality

Test Parameter	Sample Source	Count Of Samples	Count Of Presence
E. coli	Raw	104	0
	Treated	52	0
Heterotrophic Plate Count	Treated	52	7
Total Coliforms	Raw	104	1
	Treated	52	0

**Operational testing completed under Schedule 7 of Regulation 170/03 during this reporting period**

Test Parameter	Test Units	No. of Samples*	Average	Minimum	Maximum
Free Chlorine	mg/L	8,760	1.59	0.09	2.26
Turbidity (Treated)	NTU	8,760	0.18	0.11	5.00

**Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of an approval, order or other legal instrument**

Values with a less than sign ("<") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect (i.e. the "<" is omitted) and are rounded to three decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater)

Test Parameter	Test Units	No. of Samples*	Average	Minimum	Maximum
Fluoride	mg/L	4	0.233	0.2	0.25
Haloacetic Acids	mg/L	4	0.009	<0.008	0.01
Nitrate	mg/L	4	0.500	<0.5	<0.5
Nitrite	mg/L	4	0.050	<0.05	<0.05
Sodium	mg/L	2	41.450	41.0	41.9
Trihalomethanes	mg/L	4	0.044	0.0361	0.0531

\*8,760 is used as the number of samples for continuous analyzers.

\*\*Lead testing under Schedule 15.1 is conducted by the Local Municipality - refer to Local Municipality reports for results. York Region occasionally collects samples tested for lead for non-regulatory research purposes

## Organic and inorganic parameter(s) that exceeded half the standard prescribed in Schedule 2 of O.Reg. 169/03 Ontario Drinking Water Quality Standards

Test Parameter	Sample Facility	Sample Date	Test Units	Test Result	ODWS Limit
Trihalomethanes	Ansnorveldt Well 2,3 Treated	Jan 22	mg/L	0.0531	0.100

### Summary of inorganic parameters tested pursuant to Schedule 23 of O.Reg. 170/03

Values with a less than sign ("<") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to five decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater)

Test Parameter	No. of Samples	Test Units	Average	Minimum	Maximum	ODWS Limit
Antimony	1	mg/L	0.00050	<0.0005	<0.0005	0.006
Arsenic	1	mg/L	0.00050	<0.0005	<0.0005	0.01
Barium	1	mg/L	0.12900	0.129	0.129	1
Boron	1	mg/L	0.15000	0.15	0.15	5
Cadmium	1	mg/L	0.00050	<0.0005	<0.0005	0.005
Chromium	1	mg/L	0.00050	<0.0005	<0.0005	0.05
Mercury	1	mg/L	0.00005	<0.00005	<0.00005	0.001
Selenium	1	mg/L	0.00050	<0.0005	<0.0005	0.05
Uranium	1	mg/L	0.00050	<0.0005	<0.0005	0.02

## Summary of organic parameters tested pursuant to Schedule 24 of O.Reg. 170/03

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to four decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater)

Test Parameter	No. of Samples	Test Units	Average	Minimum	Maximum	ODWS Limit
1,1-dichloroethylene (vinylidene chloride)	1	mg/L	0.0003	<0.0003	<0.0003	0.014
1,2-(o-dcb) Dichlorobenzene	1	mg/L	0.0001	<0.0001	<0.0001	0.2
1,2-Dichloroethane	1	mg/L	0.0001	<0.0001	<0.0001	0.005
1,4-(p-dcb) Dichlorobenzene	1	mg/L	0.0001	<0.0001	<0.0001	0.005
2-methyl-4-chlorophenoxyacetic acid	1	mg/L	0.0050	<0.005	<0.005	0.1
2,3,4,6-Tetrachlorophenol	1	mg/L	0.0005	<0.0005	<0.0005	0.1
2,4-Dichlorophenol	1	mg/L	0.0007	<0.0007	<0.0007	0.9
2,4-dichlorophenoxyacetic acid (2,4-D)	1	mg/L	0.0008	<0.0008	<0.0008	0.1
2,4,6-Trichlorophenol	1	mg/L	0.0005	<0.0005	<0.0005	0.005
Alachlor	1	mg/L	0.0004	<0.0004	<0.0004	0.005
Atrazine + N-dealkylated metabolites	1	mg/L	0.0002	<0.0002	<0.0002	0.005
Azinphos-methyl	1	mg/L	0.0003	<0.0003	<0.0003	0.02
Benzene	1	mg/L	0.0001	<0.0001	<0.0001	0.001
Benzo(a)pyrene	1	mg/L	0.0000	<0.00001	<0.00001	0.00001
Bromoxynil	1	mg/L	0.0004	<0.0004	<0.0004	0.005
Carbaryl	1	mg/L	0.0030	<0.003	<0.003	0.09
Carbofuran	1	mg/L	0.0030	<0.003	<0.003	0.09
Carbon Tetrachloride	1	mg/L	0.0002	<0.0002	<0.0002	0.005
Chlorpyrifos	1	mg/L	0.0002	<0.0002	<0.0002	0.09
Diazinon	1	mg/L	0.0002	<0.0002	<0.0002	0.02
Dicamba	1	mg/L	0.0004	<0.0004	<0.0004	0.12
Dichloromethane	1	mg/L	0.0020	<0.002	<0.002	0.05
Diclofop-methyl	1	mg/L	0.0004	<0.0004	<0.0004	0.009
Dimethoate	1	mg/L	0.0003	<0.0003	<0.0003	0.02
Diquat	1	mg/L	0.0010	<0.001	<0.001	0.07
Diuron	1	mg/L	0.0030	<0.003	<0.003	0.15
Glyphosate	1	mg/L	0.0250	<0.025	<0.025	0.28
Malathion	1	mg/L	0.0002	<0.0002	<0.0002	0.19
Metolachlor	1	mg/L	0.0002	<0.0002	<0.0002	0.05
Metribuzin	1	mg/L	0.0003	<0.0003	<0.0003	0.08
Monochlorobenzene	1	mg/L	0.0001	<0.0001	<0.0001	0.08
Paraquat	1	mg/L	0.0010	<0.001	<0.001	0.01
Pentachlorophenol	1	mg/L	0.0004	<0.0004	<0.0004	0.06
Phorate	1	mg/L	0.0002	<0.0002	<0.0002	0.002
Picloram	1	mg/L	0.0007	<0.0007	<0.0007	0.19
Polychlorinated Biphenyls (PCBs)	1	mg/L	0.0000	<0.00002	<0.00002	0.003
Prometryne	1	mg/L	0.0002	<0.0002	<0.0002	0.001
Simazine	1	mg/L	0.0002	<0.0002	<0.0002	0.01
Terbufos	1	mg/L	0.0002	<0.0002	<0.0002	0.001
Tetrachloroethylene (perchloroethylene)	1	mg/L	0.0003	<0.0003	<0.0003	0.01
Triallate	1	mg/L	0.0040	<0.004	<0.004	0.23
Trichloroethylene	1	mg/L	0.0001	<0.0001	<0.0001	0.005
Trifluralin	1	mg/L	0.0000	<0.000006	<0.000006	0.045
Vinyl Chloride	1	mg/L	0.0002	<0.0002	<0.0002	0.001