

Espanola Water Treatment

Large Municipal Residential Drinking Water System

January 1, 2021 – December 31, 2021

***O.Reg 170/03 Schedule 22 Summary Report
O.Reg 170/03 Section 11 Annual Report
&
O.Reg 387/04 Annual Record of Water Taking***

Prepared by the Ontario Clean Water Agency
For The Corporation of the Town of Espanola



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Drinking-Water System Number: 210000746
Drinking-Water System Name: ESPANOLA DRINKING WATER SYSTEM
Drinking-Water System Owner: The Corporation of the Town of Espanola
Drinking-Water System Category: Large Municipal Residential

SECTION 1: INTRODUCTION

This document is prepared in accordance with Section 11 and Schedule 22 of O.Reg.170/03 under the Safe Drinking Water Act and with Section 9 of O.Reg.387/04 under the Ontario Water Resources Act. The reports are prepared by the Ontario Clean Water Agency. Acronyms and definitions can be found at the end of the report.

A copy of the Summary Report must be provided to the members of the municipal council by March 31, [2022](#).

SECTION 2: REQUIREMENTS OF THE REPORTS

Schedule 22 Report

The report must list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report. It must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

For the purpose of enabling the owner of the system to assess the rated capability of their system to meet existing and future planned water uses, the following information is required to be included in this report:

- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- A comparison of the summary to the rated capacity and flow rates approved in the systems approval.

Section 11 Report

The annual report must contain the following:

- A brief description of the drinking water system and a list of chemicals used by the system.
- A description of any major expenses incurred during the period covered by the report to install, repair or replace required equipment.
- A summary of all adverse water quality incidents (AWQI) reported to the Ministry
- A summary of corrective actions taken in response all AWQIs
- A summary of all test results required under the regulation, under an approval, municipal drinking water licence or order, including an OWRA order.
- A statement of where a Schedule 22 report will be available for inspection.

The report must be prepared not later than February 28 of the following year.

Regulation 387 Report

On or before March 31 in every year, every holder of a permit to take water (PTTW) shall submit to a Director the data collected and recorded for the previous year.

A record of annual water taking can be found in [Appendix A](#).



SECTION 3: SCHEDULE 22 REPORT

Flows - Treated

In accordance with the Municipal Drinking Water License (MDWL), the Espanola WTP shall not be operated to exceed a maximum flow of 10,500 m³/d to the distribution system.

The daily treated water maximum flow was 5,056 m³ in June and represents 58% of capacity. In 2021, the total volume of water sent to the distribution system was 923,855m³

The quantity of treated water supplied during the reporting period **did not** exceed the rated maximum capacity.

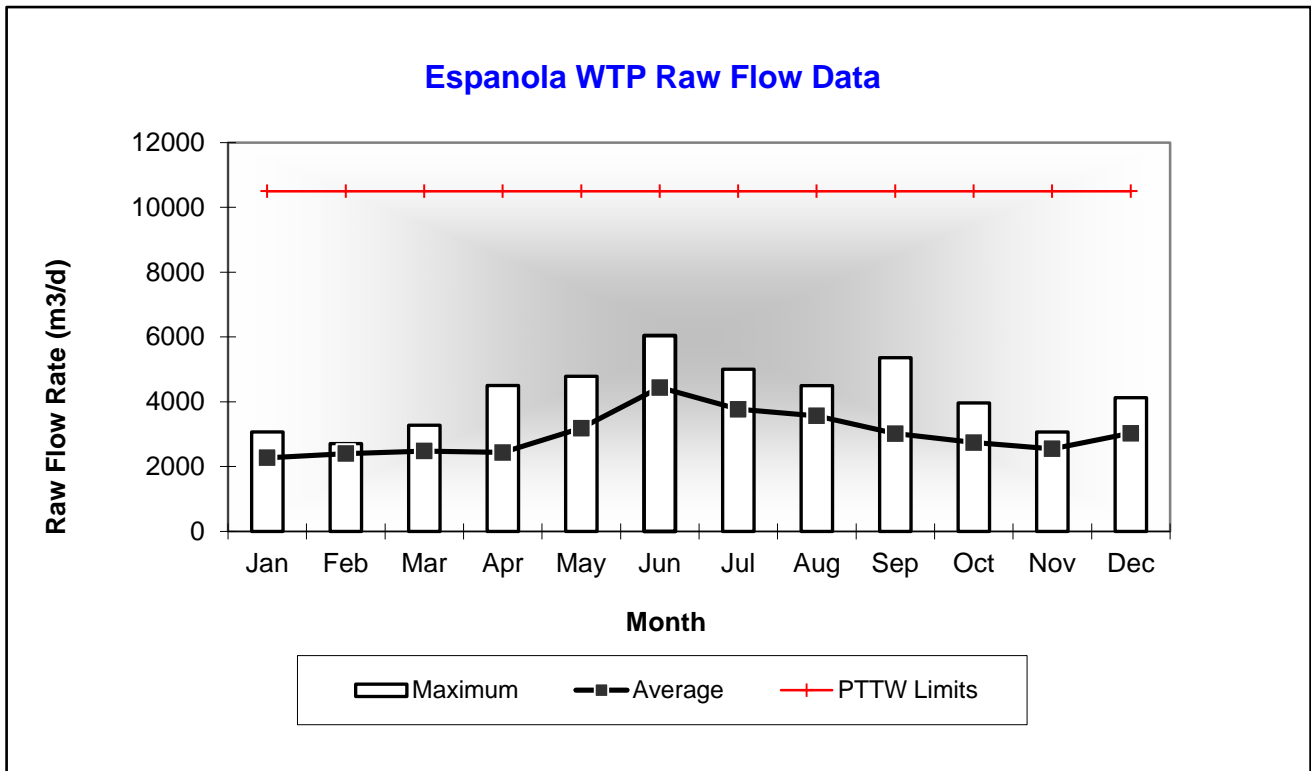
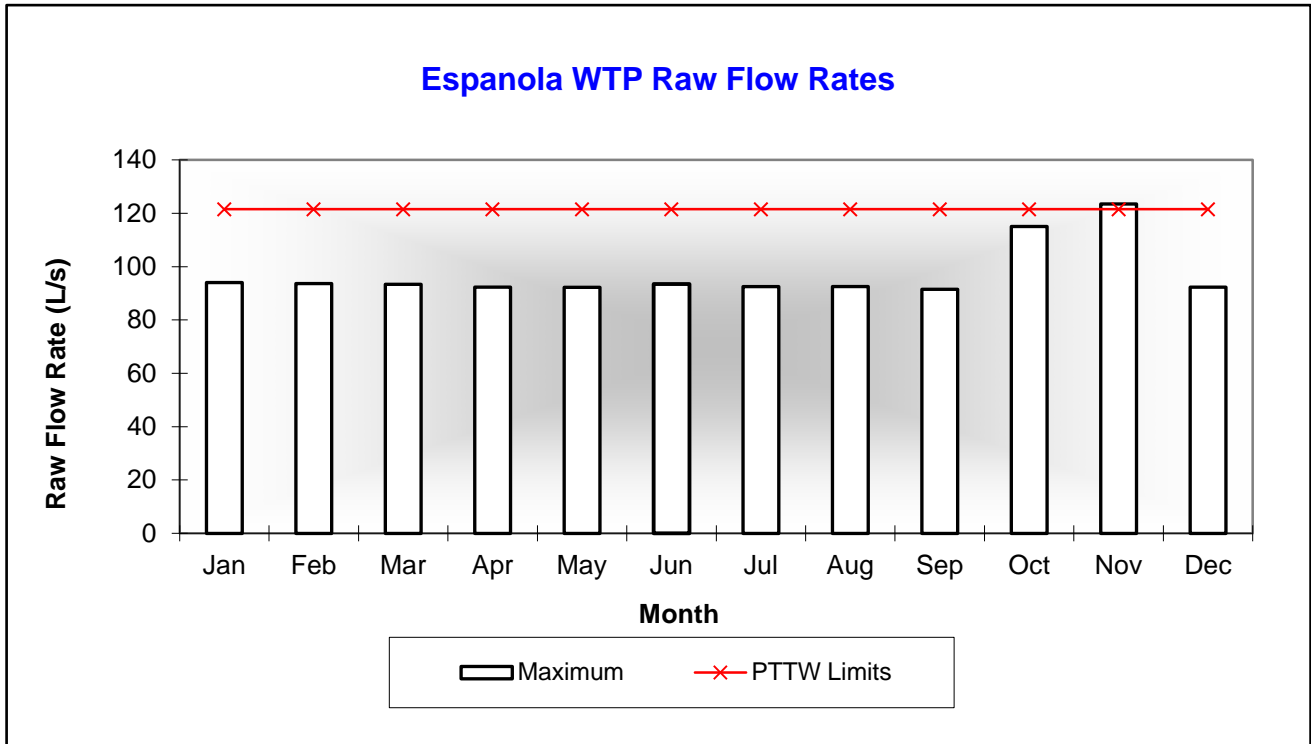
Flows - Raw

Daily raw maximum instantaneous flow is stated in the PTTW at a maximum rate of flow of 121.53 L/s and a maximum daily volume of 10,500.0 m³/d.

The average monthly raw water flow for this reporting period was 2,993m³/d. The maximum daily flow was 6,039 m³/d representing 58% of water taking limits. In 2021, the total volume of water sent to the distribution system was 1,092,449 m³

The quantity of raw water taken **did not** exceed any limits stipulated within the PTTW. A flow rate exceedance of 123L/s with a duration of 30 seconds occurred during a generator test. However, since the flow rate was not exceeded for more than one minute, this is not a true exceedance.

<i>RAW WATER FLOW DATA – Apsey Lake</i>						
Month	Total Monthly Flow (m ³)	Average Flow (m ³ /d)	Maximum Flow (m ³ /d)	Maximum Flow Rate (L/s)	Limits	
					L/s (PTTW)	m ³ /d (PTTW)
January	70,406	2,271.16	3,071	94.08	121.53	10,500.0
February	67,203	2,400.11	2,711	93.7	121.53	10,500.0
March	76,788	2,477.03	3,278	93.42	121.53	10,500.0
April	73,027	2,434.23	4,504	92.36	121.53	10,500.0
May	98,798	3,187.03	4,788	92.29	121.53	10,500.0
June	133,148	4,438.27	6,039	93.43	121.53	10,500.0
July	116,759	3,766.42	5,006	92.56	121.53	10,500.0
August	110,525	3,565.32	4,500	95.58	121.53	10,500.0
September	90,452	3,015.07	5,362	91.55	121.53	10,500.0
October	84,978	2,741.23	3,966	115.1	121.53	10,500.0
November	76,492	2,549.73	3,069	123.54	121.53	10,500.0
December	93,873	3,028.16	4,128	92.35	121.53	10,500.0
Total	1,092,449					
Average		2,993				
Maximum			6,039	123.54	121.53	10,500.0





Annual Raw Water Review

Raw Water Taking	Total Taking (m3/d)	Average Day (m3/d)	Max Day (m3/d)	Max Day % of PTTW allowable 10,500 (m3/d)
2021	1,092,449	2,993	6,039	58%
2020	1,114,464	3,044.98	6,057	58%
2019	1,097,380	3,006.52	6,203	59%
2018	1,240,053	3,397.4	6,650	63.3%
2017	1,092,559	2,993.31	5,150	49%

System Failures and Corrective Actions

The latest inspection of the drinking water facility took place on **March 26, 2021**. The facility scored **0/510** providing a rating of **100%**

AWQIs reported to the Ministry

Incident Date	Parameter	Result	Unit of Measure	Corrective Action/Comment	Corrective Action Date
20-Oct-21	Distribution Chlorine	0.03	mg/L	AWQI#156083 – Operators flushed the main and resampled. Achieved a residual of 1.16mg/L after flushing. Two sets of bacti samples were collected. A bleeder was also installed on the line to prevent a reoccurrence.	22-Oct-21

SECTION 4: SECTION 11 REPORT

Information

Population Served 4,996 (Stats Canada 2016)	
Does your Drinking-Water System serve more than 10,000 people?	No
Is your annual report available to the public at no charge on a web site on the Internet?	Yes
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Town of Espanola, Municipal Office 100 Tudhope Street, Suite 2 Espanola, Ontario P5E 1S6
Number of Designated Facilities served:	0
Did you provide a copy of your annual report to all Designated Facilities you serve?	NA



Number of Interested Authorities you report to:	0
Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?	NA
List all Drinking-Water Systems (if any), and their DWS Number which receive all of their drinking water from your system:	N/A
Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?	NA
Indicate how you notified system users that your annual report is available, and is free of charge.	Public access/notice via a Public Library
Indicate if you notified system users that your annual report is available and is free of charge using an alternate method	Yes

Facility Description

The source of raw water for the Espanola Drinking Water System is Lake Apsey where the intake is located 135 m from shore at a depth of 12m.

The facility includes two solids contact clarifiers, three dual media filters, a clearwell, a pumping station with low lift pumps, three high lift pumps, two backwash pumps, backwash water holding tank with pumps discharging to the sanitary sewer system.

As raw water enters the facility, potassium permanganate is added to improve oxidation of iron and manganese. Alkalinity is boosted and pH is adjusted prior to coagulation and flocculation. After the water is through the reactivator clarifiers and 3 dual media filters, sodium hypochlorite is added for disinfection and hydrofluosilicic acid (fluoride) is added to the water. The water is then pushed through into the facility's reservoir. PH levels are again adjusted and then fed to the 2 clearwells. Prior to entering the distribution, polyphosphates (corrosion control) and sodium hypochlorite is added. The system is equipped with a 275KW diesel generator on site for emergency power.

The distribution includes an elevated storage tank, 5 bleeders with backflow prevention (air gap), a continuous chlorine analyzer and approximately 150 hydrants.

Chemicals Used

Poly Aluminum Chloride (PAC)	Coagulation
Magnafloc LT 27 AG (Polymer)	Coagulation aide
Sodium Hypochlorite 12%	Disinfection
Hydrofluosilicic Acid (25% HFS)	Fluoride
Soda Ash	Alkalinity and pH control
Poly Ortho Phosphate	Corrosion control
Potassium Permanganate	Oxidizing Agent
Sodium Hydroxide	Alkalinity and pH control



Significant Expenses

Significant expenses incurred to

- Install required equipment
- Repair required equipment
- Replace required equipment

Work Order	Completion Date	Comment
2174449	21-Apr-21	Polymer system repairs – \$3320
2224021 2224021 2226029 2360655	23-Nov-21	Troubleshooting for various generator issues as well as repairs – \$17,178
2222236	07-May-21	Turbidity meter photocell replacement – \$1174
2222578	31-Aug-21	Spare pump head tubes for chemical pumps – \$1205
2226381	01-Jun-21	Fluoride analyzer probes – \$2,875
	07-May-21	Supply processor for low lift building PLC – \$4973
2269138	01-Nov-21	Installed new low lift pump and motor

Adverse Water Quality Incidents

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action/Comment	Corrective Action Date
20-Oct-21	Distribution Chlorine	0.03	mg/L	AWQI#156083 – Operators flushed the main and resampled. Achieved a residual of 1.16mg/L after flushing. Two sets of bacti samples were collected. A bleeder was also installed on the line to prevent a reoccurrence.	22-Oct-21

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03.

	No. of Samples Collected	Range of E.Coli		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
		Min #	Max #	Min #	Max #		Min #	Max #
Raw Water	52	0	5	0	67	N/A	N/A	N/A
Treated Water	53	0	0	0	0	53	0	3
Distribution	208	0	0	0	59	53	0	6



Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03

Parameter	No. of Samples Collected*	Range of Results		Units of Measure
		Minimum	Maximum	
Turbidity - Filt1	8760	0.01	0.54	NTU
Turbidity - Filt2	8760	0.01	0.34	NTU
Turbidity - Filt3	8760	0.01	0.30	NTU
Free Chlorine Residual - TW	8760	0.65	3.66	mg/L
Fluoride Residual - TW	8760	0	1.11	mg/L
Fluoride Residual - TW	70	0.19	0.80	mg/L
Free Chlorine Residual – DW	8760	0	1.64	mg/L
Free Chlorine Residual – DW 1	104	0.55	1.47	mg/L
Free Chlorine Residual – DW 2	104	0.3	1.5	mg/L
Free Chlorine Residual – DW 3	104	0.54	1.65	mg/L
Free Chlorine Residual – DW 4	52	0.66	1.59	mg/L

*8760 is used as number of samples for online data.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter and limits	Month Sampled	Day Sampled	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A	N/A
Annual Average					mg/L

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2021/01/18	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/18	<MDL 0.2	25.0	No	No
Barium: Ba (ug/L) - TW	2021/01/18	4.65	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/18	5.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/18	0.004	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/18	0.2	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/18	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/18	0.07	10.0	No	No
Uranium: U (ug/L) - TW	2021/01/18	0.002	20.0	No	No



TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Fluoride (mg/L) - TW	2020/07/06	0.89	1.5	No	No
Nitrite (mg/L) - TW	2021/01/18	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/04/19	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/07/12	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/10/04	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2021/01/18	0.048	10.0	No	No
Nitrate (mg/L) - TW	2021/04/19	0.083	10.0	No	No
Nitrate (mg/L) - TW	2021/07/12	0.082	10.0	No	No
Nitrate (mg/L) - TW	2021/10/04	0.039	10.0	No	No
Sodium: Na (mg/L) - TW	2017/02/15	19.6	20*	No	Yes

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Summary of Lead testing under Schedule 15.1 during this reporting period

Location Type	No. of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution - Lead Results (ug/L)	6	0.01	0.05	N/A	N/A
Distribution - Alkalinity (mg/L)	6	31	40	N/A	N/A
Distribution - pH In-House	6	7.22	7.53	N/A	N/A

Summary of Organic parameters sampled during this reporting period or the most recent results

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Alachlor (ug/L) - TW	2021/01/18	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2021/01/18	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW	2021/01/18	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW	2021/01/18	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2021/01/18	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2021/01/18	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW	2021/01/18	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW	2021/01/18	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW	2021/01/18	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW	2021/01/18	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW	2021/01/18	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW	2021/01/18	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW	2021/01/18	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW	2021/01/18	<MDL 0.36	5.0	No	No



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1,2-Dichloroethane (ug/L) - TW	2021/01/18	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW	2021/01/18	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2021/01/18	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW	2021/01/18	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2021/01/18	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW	2021/01/18	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW	2021/01/18	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW	2021/01/18	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW	2021/01/18	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW	2021/01/18	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW	2021/01/18	<MDL 0.02	190.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)(mg/L) - TW	2021/01/18	<MDL 0.01	50.0	No	No
Metolachlor (ug/L) - TW	2021/01/18	<MDL 0.02	80.0	No	No
Metribuzin (ug/L) - TW	2021/01/18	<MDL 0.3	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2021/01/18	<MDL 1.0	10.0	No	No
Paraquat (ug/L) - TW	2021/01/18	<MDL 0.04	3.0	No	No
PCB (ug/L) - TW	2021/01/18	<MDL 0.15	60.0	No	No
Pentachlorophenol (ug/L) - TW	2021/01/18	<MDL 0.01	2.0	No	No
Phorate (ug/L) - TW	2021/01/18	<MDL 1.0	190.0	No	No
Picloram (ug/L) - TW	2021/01/18	<MDL 0.03	1.0	No	No
Prometryne (ug/L) - TW	2021/01/18	<MDL 0.01	10.0	No	No
Simazine (ug/L) - TW	2021/01/18	<MDL 0.01	1.0	No	No
Terbufos (ug/L) - TW	2021/01/18	<MDL 0.35	10.0	No	No
Tetrachloroethylene (ug/L) - TW	2021/01/18	<MDL 0.2	100.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2021/01/18	<MDL 0.01	230.0	No	No
Triallate (ug/L) - TW	2021/01/18	<MDL 0.44	5.0	No	No
Trichloroethylene (ug/L) - TW	2021/01/18	<MDL 0.25	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2021/01/18	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW	2021/01/18	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW	2021/01/18	<MDL 0.17	1.0	No	No
DISTRIBUTION WATER					
Trihalomethane: Total (ug/L) Annual Average - DW	2021/12/31	45.75	100.00	No	No
HAA Total (ug/L) Annual Average – DW	2021/12/31	38.7	80.0	No	No



SECTION 5: RAW WATER SUBMISSIONS

Raw water flows were submitted to the MOECC on [January 20, 2022](#).



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 8723-AVXQ59

Permit Holder: THE CORPORATION OF THE MUNICIPALITY OF ESPANOLA.

Received on: Jan 20, 2022 2:33 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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SECTION 6: CONCLUSION

The Espanola WTP delivers water that, in all its treated and distribution samples, indicates the water to be free of bacteriological contamination.

Based on information available for the [2021](#) operating year, the Espanola WTP was able to meet the demand of water use without exceeding the PTTW or the MDWL. A flow rate exceedance of 123L/s with a duration of 30 seconds occurred during a generator test. However, since the flow rate was not exceeded for more than one minute, this is not a true exceedance.



List of Acronyms and Definitions

Alkalinity	The capacity of water for neutralizing an acid solution
AWQI	Adverse Water Quality Incident- when a water sample test result exceeds the Ontario Drinking Water Quality Standards
Backwash	Water pumped backwards to clean filters
BWA	Boil Water Advisory; Issued when risk of contamination is possible in drinking water
CFU	Colony Forming Units
Chlorine Residual	A low level of chlorine remaining in water after disinfection occurs
DW	Distribution Water
DWA	Drinking Water Advisory; Issued when water cannot be consumed by any means
DWWP	Drinking Water Works Permit - provides a description of the overall system
E.Coli	Bacteria used as indicators to measure the degree of pollution and sanitary quality of water
GUDI 170/03	Groundwater Under Direct Influence – Considered to be surface water under O.Reg
HPC	Heterotrophic Plant Count
L/s	Litres per Second
m ³ /d	Cubic Metres per Day
MAC	Maximum Acceptable Concentration
MDL	Minimum Detection Level
MDWL requirements	Municipal Drinking Water Licence - relates to the operation and performance
mg/L	Milligrams per Litre
Ministry	Ministry of the Environment and Climate Change
MOECC	Ministry of the Environment and Climate Change
O.Reg	Ontario Regulation
PTTW water	Permit to Take Water – Permit which allows water taking from groundwater or surface
RW	Raw Water
TC	Total Coliforms
TSS	Total Suspended Solids
Turbidity	Cloudiness or haziness of water
TW	Treated Water



Appendix A

Raw Water Flows

Ontario Clean Water Agency
Annual Water Taking and Transfer Report
 From 01/01/2021 To 12/31/2021

Facility: ESPANOLA DRINKING WATER SYSTEM-5758
 Tag: Raw Flow: Sum (m3/d)
 Tag Group: Raw Water

Permit#: 8723-AVXQ59
 Source Name: Lake Apsey
 Source: Lake
 Type:
 Purpose: Municipal

Coordinate Zone: 17
 Easting: 439966
 Northing: 5119623
 Method deter: Metered

Date Measured	Value (m³/d)	Value (Litres)
01/01/2021	2026.0000	2026000.0000
02/01/2021	2153.0000	2153000.0000
03/01/2021	2565.0000	2565000.0000
04/01/2021	2095.0000	2095000.0000
05/01/2021	1983.0000	1983000.0000
06/01/2021	2681.0000	2681000.0000
07/01/2021	2302.0000	2302000.0000
08/01/2021	2189.0000	2189000.0000
09/01/2021	1885.0000	1885000.0000
10/01/2021	2701.0000	2701000.0000
11/01/2021	2164.0000	2164000.0000
12/01/2021	2259.0000	2259000.0000
13/01/2021	2136.0000	2136000.0000
14/01/2021	2552.0000	2552000.0000
15/01/2021	1856.0000	1856000.0000
16/01/2021	2547.0000	2547000.0000
17/01/2021	2271.0000	2271000.0000
18/01/2021	2269.0000	2269000.0000
19/01/2021	2111.0000	2111000.0000
20/01/2021	2242.0000	2242000.0000
21/01/2021	2152.0000	2152000.0000
22/01/2021	2583.0000	2583000.0000
23/01/2021	2287.0000	2287000.0000
24/01/2021	1978.0000	1978000.0000
25/01/2021	2705.0000	2705000.0000
26/01/2021	2289.0000	2289000.0000
27/01/2021	2210.0000	2210000.0000
28/01/2021	1904.0000	1904000.0000
29/01/2021	3071.0000	3071000.0000
30/01/2021	2131.0000	2131000.0000
31/01/2021	2109.0000	2109000.0000
01/02/2021	2663.0000	2663000.0000
02/02/2021	2557.0000	2557000.0000
03/02/2021	2516.0000	2516000.0000
04/02/2021	1755.0000	1755000.0000
05/02/2021	2484.0000	2484000.0000
06/02/2021	2523.0000	2523000.0000
07/02/2021	2489.0000	2489000.0000
08/02/2021	2424.0000	2424000.0000
09/02/2021	2144.0000	2144000.0000
10/02/2021	2344.0000	2344000.0000
11/02/2021	2430.0000	2430000.0000

12/02/2021	2507.0000	2507000.0000
13/02/2021	2483.0000	2483000.0000
14/02/2021	2093.0000	2093000.0000
15/02/2021	2307.0000	2307000.0000
16/02/2021	2711.0000	2711000.0000
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