

# **Val Gagne Drinking Water System**

## **2024 Annual Summary Report**



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## OVERVIEW

Municipalities throughout Ontario are required to comply with Ontario Regulation 170/03 made under the *Safe Drinking Water Act*, 2002. The Act was passed following recommendations made by Commissioner O'ConnOr after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking-water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

Section 11 of O. Reg. 170/03 requires the owner to produce an Annual Report which must include the following:

- Description of system and chemical(s) used
- Summary of any adverse water quality reports and corrective actions
- Summary of all required testing
- Description of any major expenses incurred to install, repair or replace equipment

This Annual Report must be completed by February 28 of each year.

Schedule 22 of the regulation requires that a Summary Report for Municipalities be prepared which must be presented and accepted by Council by March 31 of each year for the preceding calendar year reporting period.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any Provincial Officer Order the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The *Safe Drinking Water Act*, 2002 and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

- A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
- A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The Annual and Summary Reports have been combined and presented to council as the Val Gagne Drinking Water System 2024 Annual Summary Report.



## 1.0 INTRODUCTION

**Drinking-Water System Name:** VAL GAGNE DRINKING WATER SYSTEM  
**Drinking-Water System No.:** 210001674  
**Drinking-Water System Owner:** The Corporation of the Township of Black River - Val Gagne  
**DWS Operating Authority:** Ontario Clean Water Agency  
**Drinking-Water System Category:** Small Municipal, Residential System  
**Municipal Drinking Water Licence No.:** 204-102 (Issue 8 - March 14, 2022)  
**Drinking Water Work Permit No.:** 204-202 (Issue 6 - March 14, 2022)  
**Permit to Take Water No:** P-300-1077256711 (Issued October 1, 2020)  
**Period being reported on:** January 1, 2024 to December 31, 2024

**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?** No

**Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.**

**Black River - Matheson Municipal Office**  
**367 Fourth Avenue,**  
**Matheson ON P0K 1N0**

### *Drinking Water Systems that receive drinking water from the Val Gagne Drinking Water System*

<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
Val Gagne Drinking Water System	210001674

### *The Annual Report was provided to all connected Drinking Water System owners*

The Ontario Clean Water Agency prepared the 2024 Annual Summary Report for the Val Gagne Drinking Water System and provided a copy to the system owner; the Township of Black River - Matheson. The Val Gagne Drinking Water System is a stand-alone system that does not receive water from or send water to another system.

### *System users are notified that the Annual Report is available through:*

- Public access/notice via newspaper/website



## 2.0 DESCRIPTION OF THE DRINKING WATER SYSTEM

The Val Gagne water treatment plant is a Class 1 facility owned by the Corporation of the Township of Black River-Matheson and operated by the Ontario Clean Water Agency (OCWA). The facility is located west of Lessard Street in the community of Val Gagne and provides drinking water to approximately 175 residents.

Well 1 is the main production well and is located near Highway 11 on the south side of Country Lane Road. It is a deep drilled groundwater well that is 150 mm in diameter and 22.9 m deep. The well is pumped at the rate of 158.9 L/min by a 2.23 kW submersible deep well pump. The water is pumped to the Val Gagne water treatment via a 1027 meter long watermain. The sodium levels in the well have been increasing over the last 15 to 20 years; the cause of this is being investigated.

Well 6 is a backup well located within the water treatment plant building. It is a drilled groundwater well that is 200 mm in diameter and 56.4 m deep. It is equipped with a submersible pump, rated at 46 L/min at a TDH of 62 m, with a 50 mm diameter discharge line connected to a common well pump header. This well is for emergency use only but it is run at least monthly for testing and sampling.

The main plant houses the disinfection system. Sodium hypochlorite is injected directly into the well pump discharge header by two pace-to-flow metering pumps (one duty and one standby). The sodium hypochlorite is stored in a 275 L double-walled tank equipped with secondary spill containment. An in-ground reservoir with a storage capacity of 550 m<sup>3</sup> serves as the chlorine contact chamber and provides water storage for the distribution system.

Water is pumped into the distribution system by 3hp submersible high lift pumps with VFD's, each rated at 2.5 L/s with a TDH of 62 m. A diesel driven high flow pump is also available to deliver water at the rate of 2270 L/min during emergencies. Also, a 60 kW (208 V) 3-phase generator will start automatically if the power fails.

A baffled contact tank is used during scheduled cleaning of the reservoir. The chlorinated water is directed to the tank to provide sufficient contact time before entering the distribution system.

The distribution system for the Val Gagne Drinking Water system serves a population of 175 people with a total of 88 service connections (74 in Val Gagne North and 14 in Val Gagne South). In Val Gagne North, the distribution system consists primarily of six (6) inch water main, 75% of which are asbestos concrete construction and the remainder being PVC construction. In Val Gagne South, the distribution system consists primarily of singular straight length six (6) inch ductile water main. A valve is located at the terminal end of the water main and is used during system flushing.

## 3.0 LIST OF ALL WATER TREATMENT CHEMICALS USED

- Sodium Hypochlorite - disinfection

## 4.0 SIGNIFICANT EXPENSES INCURRED

- Fire pump repair starter
- 4 channel alarm dialer
- Pump #2 repair
- Chlorination spare parts kits
- Genset servicing



## 5.0 DETAILS OF NOTICES REPORTED & SUBMITTED TO THE SPILLS ACTION CENTER

### 1. Low and Loss of pressure

<b>AWQI #</b>	<b>164352</b>
<b>Date</b>	January 17, 2024
<b>Details</b>	After the fire department finished filling up their trucks at the Val Gagne WTP the high lift pumps locked out and the back up diesel pump did not start. The high lift pumps were locked out for 19 minutes, from 06:24 hrs to 06:43 hrs, during which time the plant stopped producing water creating a loss of pressure in the distribution system. The pressure is only monitored at the plant so there is no way to know what the pressure was throughout the distribution system while the plant lost pressure.
<b>Corrective Action</b>	January 17 - Pumps were restarted manually and service resumed to the community. Operator flushed the distribution system and then took the first set of three samples required to ensure there was no contamination and to lift the boil water advisory. Further investigation revealed that the pressure peaked and the SCADA was programmed to shut down the pumps when a max psi is reached and this is what caused the pumps to fail. Programming will be adjusted to avoid the issue in the future.  January 18 - The second set of samples collected 24 - 48 hours apart.  January 19 - All samples clear. Health Unit lifted Boil Water Advisory.
<b>AWQI #</b>	<b>164881</b>
<b>Date</b>	April 25, 2024
<b>Details</b>	High flow (diesel) pump is in need of repairs and currently needs to be started manually. The fire department called for the pump to be started but placed heavy demands on the system before the pump could be started. Pressure readings were low and zero (10:30 - 10:32 was 6 psi; 10:32 - 10:34 was 0 psi; 10:34 - 10:36 was 8 psi; 10:36 - 10:40 was 0 psi). The chlorine residuals leaving the plant was 0.85 mg/L before the incident. Porcupine Health Unit has issued a precautionary Boil Water Advisory and has requested two rounds of samples 24-48 hours apart. Population approx 175; 88 service connections
<b>Corrective Action</b>	On April 25 the first set of samples taken at the Fire Hall and the countryside Market and on the next day second set of samples were taken at the same locations. On April 27 - Both sets of lab reports received, PHU on-call inspector was contacted and supported lifting the BWA; BWA rescind notices were provided to the Township. Resolved
<b>AWQI #</b>	<b>165132</b>
<b>Date</b>	June 5, 2024
<b>Details</b>	Sample taken on June 3, 2024 at 14:43 from the firehall had 1 TC cfu/100mL; free chlorine residual 0.98 mg/L
<b>Corrective Action</b>	June 5 - re-samples were collected June 6 - samples received at lab and analysis started June 7 - results received indicating no total coliforms nor E. coli (report included in email submission)

## 6.0 MICROBIOLOGICAL TESTING



Sample Type	Range of Results ( <i>min to max</i> )				
	No. of Samples	<i>E. coli</i>	Total Coliform	# of HPC Samples	HPC Results
Raw - Well 1	14	0 to 0	0 to 0	N/A	N/A
Raw - Well 6	14	0 to 0	0 to 3	N/A	N/A
Distribution	30	1 to 10	0 to 0	26	10 to 70

Maximum Allowable Concentration (MAC) for distribution samples: *E. coli* = 0 Counts/100 mL and Total Coliforms = 0 Counts/100 mL  
 “<” denotes less than the laboratory’s method detection limit.

**Note:** One microbiological sample is collected and tested each month from the raw water supply and one every two weeks from the distribution system.

## 7.0 OPERATIONAL TESTING

### *Raw Water Turbidity*

Location	No. of Samples	Range of Results ( <i>min to max</i> )	Unit of Measure
Well 1	13	0.24 to .0.92	NTU
Well 6	13	0.44 to 0.99	

### *Continuous Monitoring in the Treatment Process*

Parameter	No. of Samples	Range of Results ( <i>min to max</i> )	Unit of Measure	Standard
Free Chlorine	8760	0.36 to 2.00	mg/L	N/A

Notes: For continuous monitors 8760 is used as the number of samples.

### *Chlorine Residuals from the Distribution System*

Parameter	No. of Samples	Range of Results ( <i>min to max</i> )	Unit of Measure	Standard
Free Chlorine	103	0.51 to 0.77	mg/L	0.05

Note: in the distribution system, at least two samples for free chlorine residual testing must be taken at least 48-hours apart and taken during the same week, each week.

### *Nitrate & Nitrite Results from the Water Treatment Plant*

Date of Sample	Nitrate Result Value (mg/L)	Nitrite Result Value (mg/L)	Exceedance
January 15	0.92	<0.05	No
April 8	1.04	<0.05	No
July 15	0.89	<0.05	No
October 7	1.1	<0.01	No

Maximum Acceptable Concentration (MAC) for Nitrate = 10 mg/L

MAC for Nitrite = 1.0 mg/L

### *Total Trihalomethane (THM's) Results from the Distribution System*

Date of Sample	Result Value (ug/L)	Four Quarter	Exceedance
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		Running Average	
January 4	22.7	19.5	No
April 11	13.3	20.8	No
July 17	14	20.7	No
October 10	33.4	20.9	No

Maximum Acceptable Concentration (MAC) = 100 ug/L (Four Quarter Running Average)

**Total Haloacetic Acid (HAA's) Results from the Distribution System**

Date of Sample	Result Value (ug/L)	Four Quarter Running Average	Exceedance
January 4	8	8.25	No
April 11	9	8.5	No
July 17	8	8.5	No
October 10	8	8.25	No

Maximum Acceptable Concentration (MAC) = 80 ug/L (Four Quarter Running Average)

**Lead, pH & Alkalinity Results from the Distribution System**

Date of Sample	# of Samples	Range of Results (min to max)		
		pH	Alkalinity (mg/L)	Lead (ug/L)
April 13, 2023	1	-	-	0.9
April 2, 2024	1	7.25	285	-
October 4, 2023	1	-	-	<0.1
September 23, 2024	1	7.8	297	-

MAC for Lead -10 ug/L

**Note:** The system is required to test for total alkalinity and pH in one distribution sample collected during the period of December 15 to April 15 and one distribution sample during the period of June 15 to October 15. This testing is required in every 12-month period with lead testing in every third 12-month period. The next round of lead sampling will be completed in April and October of 2026.

**Lead, pH & Alkalinity Results from - Residential Plumbing**

Date of Sample	# of Samples	pH Result	Temp (°C)	Lead Results (ug/L)
April 4, 2023	5	7.28 to 7.7	10.7 to 18.1	0.2 to 1.7
April 13, 2023	4	7.19 to 7.8	8.4 to 11	<0.1 to 1.4
October 12, 2023	7	7.3 to 7.4	16.3 to 18.6	0.1 to 18.1*

Sampling required every third 12-month period. Sampling Periods: December 15 to April 15; and June 15 to October 15

**Lead, pH & Alkalinity Results from Non - Residential Plumbing**

Date of Sample	# of Samples	pH Result	Temp (°C)	Lead Results (ug/L)
April 4, 2023	1	7.43	8.7	0.1 to 0.9
April 13, 2023	1	7.13	9.4	0.1 to 0.8
October 12, 2023	1	7.2	15.2	0.3 to 1.0

Sampling required every third 12-month period. Sampling Periods: December 15 to April 15; and June 15 to October 15





*Note: The Val Gagne Drinking Water System was required to complete Reduced Lead Sampling in both sampling periods in 2023. As such the system was required to test for lead in five residential plumbing samples, one non-residential plumbing sample and one distribution sample.*

**Summary of Most Recent Schedule 23 Inorganic Results from the Water Treatment Plant**  
**Sample Date: September 21, 2020**

Parameter (ug/L)	Result Value	Maximum Acceptable Concentration	Exceedance
Antimony	<0.5	6	No
Arsenic	1	10	No
Barium	60	1000	No
Boron	9	5000	No
Cadmium	<0.1	5	No
Chromium	<1	50	No
Mercury	<0.1	0.001	No
Selenium	0.3	10	No
Uranium	5	20	No

**Note:** Sampling required once every 60 months (next sample scheduled for October 2025)

**Summary of Most Recent Schedule 24 Organic Results from the Water Treatment Plant**  
**Sample Date: September 21, 2020**

Parameter	Result Value	Unit of Measure	Standard	Exceedance
1,1-Dichloroethylene	<0.3	ug/L	14	No
1,2-Dichlorobenzene	<0.3	ug/L	200	No
1,2-Dichloroethane	<0.3	ug/L	5	No
1,4-Dichlorobenzene	<0.3	ug/L	5	No
2,3,4,6-Tetrachlorophenol	<0.3	ug/L	100	No
2,4,6-Trichlorophenol	<0.2	ug/L	100	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.342	ug/L	100	No
2-4 Dichlorophenol	<0.2	ug/L	900	No
Alachlor	<0.226	ug/L	5	No
Atrazine + N-dealkylated metabolites	<0.5	ug/L	5	No
Azinphos-methyl	<0.169	ug/L	20	No
Benzene	<0.1	ug/L	1	No
Benzo(a)pyrene	<0.01	ug/L	0	No
Bromoxynil	<0.0911	ug/L	5	No
Carbaryl	<2	ug/L	90	No
Carbofuran	<4	ug/L	90	No
Carbon Tetrachloride	<0.2	ug/L	2	No
Chlorobenzene	<0.5	ug/L	80	No
Chlorpyrifos	<0.169	ug/L	90	No
Diazinon	<0.169	ug/L	20	No
Dicamba	<0.0797	ug/L	120	No
Dichloromethane	<1	ug/L	50	No
Diclofop-methyl	<0.114	ug/L	9	No



Parameter	Result Value	Unit of Measure	Standard	Exceedance
Dimethoate	<0.169	ug/L	20	No
Diquat	<0.2	ug/L	70	No
Diuron	<10	ug/L	150	No
Glyphosate	<20	ug/L	280	No
Malathion	<0.169	ug/L	190	No
MCPA	<5.69	ug/L	230	N/A
Metolachlor	<0.113	ug/L	50	No
Metribuzin	<0.113	ug/L	80	No
Paraquat	<0.1	ug/L	10	No
Pentachlorophenol	<0.3	ug/L	3	No
Phorate	<0.113	ug/L	60	No
Picloram	<0.0797	ug/L	2	No
Prometryne	<0.0564	ug/L	1	No
Simazine	<0.169	ug/L	10	No
Terbufos	<0.113	ug/L	1	No
Tetrachloroethylene	<0.3	ug/L	10	No
Total PCB's	<0.07	ug/L	190	No
Triallate	<0.113	ug/L	5	No
Trichloroethylene	<0.2	ug/L	5	No
Trifluralin	<0.113	ug/L	45	No
Vinyl Chloride	<0.1	ug/L	1	No

**Note:** Sampling required once every 60 months (next sample scheduled for October 2025)

### ***Sodium Results (Most Recent) from the Water Treatment Plant***

Date of Sample	# of Samples	Result Value	Unit of Measure	Standard	Exceedance
September 21, 2020	1	26.4	mg/L	20	Yes (AWQI #152285)
October 2, 2020	1	22.8	mg/L	20	Yes

Notes: Sample required every 60 months. Next sampling scheduled for October 2025

The sodium levels in Well 1 have been increasing over the last 15 to 20 years.

### ***Fluoride Results (Most Recent) from the Water Treatment Plant***

Date of Sample	No. of Samples	Result Value	Unit of Measure	Standard	Exceedance
September 21, 2020	1	0.06	mg/L	1.5	No

**Note:** Sample required every 60 months. Next sampling scheduled for October 2025

### ***Inorganic or Organic Test Results that Exceeded Half the Standard***

No inorganic or organic parameter(s) listed in Schedule 23 and 24 of Ontario Regulation 170/03 exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (O. Reg. 169/03) during the reporting period with the exception of the lead exceedance described in section 5.0.



***Additional Testing Performed in Accordance with a Legal Instrument.***

No additional sampling or testing was required in 2024.

**8.0 REQUIREMENTS THE SYSTEM FAILED TO MEET**

**Incident #1 – Raw Turbidity Monitoring**

<b>Legislation</b>	<b>Section 7-3(1) of Schedule 7 of O. Reg. 170/03</b>
<b>Requirement(s) the System Failed to Meet</b>	As per Section 7-3 (1) of Schedule 7 of O. Reg. 170/03, Val Gagne DWS is required to collect turbidity samples from each well on a monthly basis. The definition of monthly sampling (as per Section 6-1.1(3) of Schedule 6 of O. Reg. 170/03) is a sample that is taken at least 20 days and not more than 40 days apart.
<b>Corrective Action</b>	Monthly raw turbidity monitoring was not conducted as required by Section 7-3(1) of Schedule 7 of O. Reg. 170/03. By no later than March 31, 2025, a training record will be provided to Ministry's Water Compliance Officer Rachel Hamelin by email. The training record shall outline the training provided to all operators
<b>Status</b>	Scheduled training to take place on March 12, 2025

**Incident #2 – Missing Logbook Entries**

<b>Legislation</b>	<b>Section 27(5)3 of O.Reg. 128/04.</b>
<b>Requirement(s) the System Failed to Meet</b>	Failure to properly document events in a logbook is a violation of Section 27(5)3 of O.Reg. 128/04.
<b>Corrective Action</b>	-Corrective Action(s): Operational records were not completed as required by Regulation 128/04, Section 27(1-5). By no later than February 28, 2025, the operating authority shall review Regulation 128/04 - Section 27, subsection 1-5 with all operators for the Val Gagne Water Treatment Plant and provide written confirmation of the training/review to Ministry's Water Compliance Officer Rachel Hamelin by email.
<b>Status</b>	Completed

**Incident #3 - Loss of Continuous Monitoring**

<b>Legislation</b>	<b>Schedule 6, O. Reg. 170/03</b>
<b>Requirement(s) the System Failed to Meet</b>	All continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, were not equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6 or the relief conditions of the Municipal Drinking Water Works Licence.
<b>Corrective Action</b>	On May 8, 2024, the alarm dialer was out of service for approximately 8 hours due to a service provider outage. Operators increased monitoring of the continuous trending data until service was restored. No further action required.
<b>Status</b>	Completed

**Incident #1 – Missed Microbiology Sample**

<b>Legislation</b>	<b>Schedule 11-2 of O. Reg. 170/03</b>
<b>Requirement(s) the</b>	Distribution microbiological sampling requirements prescribed by Schedule 11-2 of O. Reg.



<b>System Failed to Meet</b>	170/03 for small municipal residential systems were not met.
<b>Corrective Action</b>	By no later than March 31, 2025, OCWA shall provide the training records electronically to Ministry's Water Compliance Officer Rachel Hamelin.
<b>Status</b>	Scheduled training to take place on March 12, 2025

## 9.0 SUMMARY OF FLOW RATES AND QUANTITIES

The following tables indicate the quantities and flow rates of water taken and produced during the reporting period, including monthly average flows, maximum daily flows and the total monthly volumes. A comparison of the water data is made to the rated capacity and flow rates specified in the system’s Permit to Take Water and the Municipal Drinking Water License.

Any raw water flow rate exceedances in 2024 were checked and determined to be inflated numbers due to momentary spikes on pump start up/shutdown that were momentary and are not representative. The actual maximum flow rates have been depicted in the tables below.

### Well 1 - Summary of Water Taking

Regulated by Permit to Take Water (PTTW) #P-300-1077256711, Issued October 1, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	2066	1817	1944	2542	2550	2212	2321	2388	1929	1814	1737	1942	25262
Average Volume (m <sup>3</sup> /d)	66.7	62.7	62.7	84.7	82.3	73.7	74.9	77.0	64.3	58.5	57.9	62.7	69.0
Maximum Volume (m <sup>3</sup> /d)	83	74	95	124	107	129	106	101	87	72	70	75	129
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	229	229	229	229	229	229	229	229	229	229	229	229	229
Maximum Flow Rate (L/min)	148	134	136	132	130	131	128	136	128	127	137	131	148
PTTW - Maximum Allowable Flow Rate (L/min)	159	159	159	159	159	159	159	159	159	159	159	159	159

The system’s Permit to Take Water allows the municipality to withdraw a maximum volume of 229 cubic meters from Well 1 each day. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 129 m<sup>3</sup>.

The Permit also allows a maximum flow rate of 159 L/minute which was not exceeded either as the maximum flow rate was 148 L/minute.

### Well 6 - Summary of Water Taking

Regulated by Permit to Take Water (PTTW) #P-300-1077256711, Issued October 1, 2020



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	1	0	1	1	1	1	1	1	1	1	1	2	12
Average Volume (m <sup>3</sup> /d)	0.03	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.03
Maximum Volume (m <sup>3</sup> /d)	1	0	1	1	1	1	1	1	1	1	1	1	1
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24	66.24
Maximum Flow Rate (L/min)	44	38	37	41	40	40	40	38	38	37	37	38	44
PTTW - Maximum Allowable Flow Rate (L/min)	46	46	46	46	46	46	46	46	46	46	46	46	46

The system’s Permit to Take Water *allows* the municipality to withdraw a maximum volume of 66.24 cubic meters from Well 6 each day. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 1 m<sup>3</sup>.

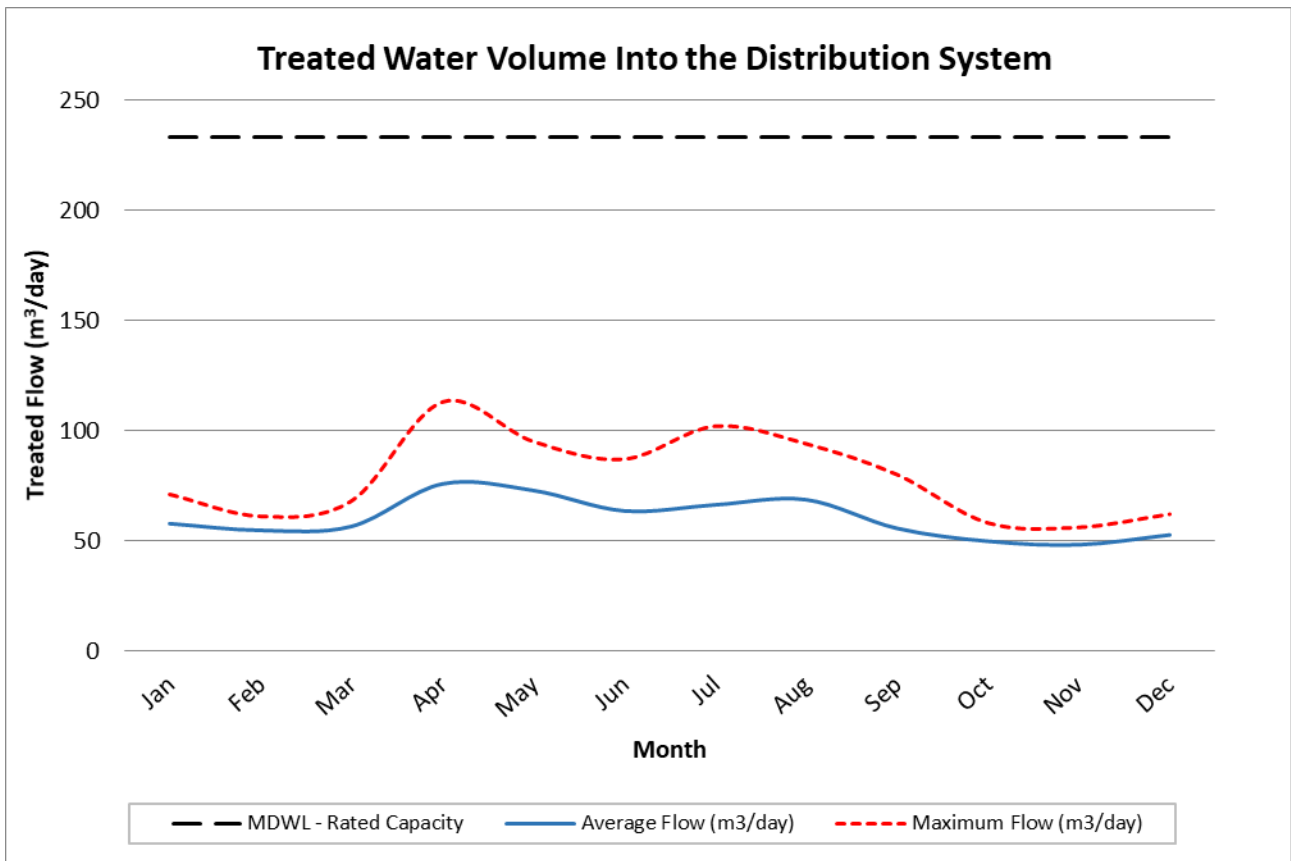
The Permit also allows a maximum flow rate of 46 L/minute which was not exceeded either as the maximum flow rate was 44 L/minute.

**Treated Water Supplied to the Distribution System**

*Regulated by Municipal Drinking Water Licence (MDWL) #204-102 - Issue 8 (Issued March 14, 2022)*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	1791	1586	1751	2272	2256	1906	1988	2126	1668	1543	1445	1632	21964
Average Volume (m <sup>3</sup> /d)	58	55	56	76	73	64	66	69	56	50	48	53	60
Maximum Volume (m <sup>3</sup> /d)	71	61	68	113	95	87	102	94	80	58	56	62	113
MDWL - Rated Capacity (m <sup>3</sup> /day)	233	233	233	233	233	233	233	233	233	233	233	233	233
% Rated Capacity	30	26	29	48	41	37	44	40	34	25	24	27	48

Schedule C, Section 1.1 of MDWL No. 204-102 states that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a maximum flow rate of 233 m<sup>3</sup> on any calendar day. The Val Gagne DWS was under the limit all year with a maximum flow rate 106 m<sup>3</sup>.



**Comparison of the Flow Summary to Systems Licence & Permit**

Rated Capacity of the Plant (MDWL)	233 m <sup>3</sup> /day	
Average Daily Flow for 2024	60 m <sup>3</sup> /day	26 % of the rated capacity
Maximum Daily Flow for 2024	113 m <sup>3</sup> /day	48 % of the rated capacity
Total Treated Water Produced in 2024	21,964 m <sup>3</sup>	

The Val Gagne water treatment plant is rated to 233 cubic meters of water per day as specified in the system’s Municipal Drinking Water Licence. The average daily flow was 66 m<sup>3</sup> per day, which is 28% of the rated capacity. This information clearly shows that the plant is well within its rated capacity and is able to meet current demands of consumers.

**10.0 CONCLUSION**

The Val Gagne Drinking Water System completed all required sampling and monitoring in 2024 and was able to meet the communities demand for drinking water while complying with the terms and conditions outlined in its Drinking Water Works Permit and Municipal Drinking Water Licence. The system also complied with the regulatory requirements of the Safe Drinking Water Act and its Regulations with the exception of the incident described in section 8.0 of this report.