

2025 Annual Drinking Water and Summary Report

Mitchell Drinking Water System



Introduction

The Mitchell Drinking Water System is owned by the Municipality of West Perth and operates under the requirements of the Safe Drinking Water Act, 2002 and Ontario Regulation 170/03, as administered by the Ministry of the Environment, Conservation and Parks (MECP).

Ontario Regulation 170/03 requires the Owner of a drinking water system to ensure that an Annual Report is prepared for each calendar year. In addition, large municipal residential drinking water systems are required to prepare a Summary Report for submission to Municipal Council. The Annual Report must be prepared no later than February 28 of the following year, and the Summary Report must be prepared no later than March 31 of the following year. This document fulfills those requirements for the period of January 1 to December 31, 2025.

The Annual Report has been prepared in accordance with Section 11 of the Regulation. It provides a description of the drinking water system, including treatment chemicals used during the reporting period, and summarizes required monitoring and testing results, reports made to the Ministry, corrective actions taken, and major expenses incurred for the installation, repair, or replacement of required equipment.

The Summary Report has been prepared in accordance with Schedule 22 of the Regulation for submission to Municipal Council. It identifies any regulatory requirements that were not met during the reporting period, including the duration of any such occurrences and the corrective measures implemented. It also summarizes water production volumes and flow data for the year, including monthly average and maximum daily flows, together with a comparison to the approved rated capacity of the system.

This report is made available to the public at no charge through the Municipal Office, the West Perth Public Library, and the Municipality's website.

Part 1 - ANNUAL REPORT (as required by O. Reg. 170/03, Section 11)

Drinking-Water System Number:	210000577
Drinking-Water System Name:	Mitchell Drinking Water System
Drinking-Water System Owner:	Municipality of West Perth
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2025 to December 31, 2025

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories
<p><i>Does your Drinking-Water System serve more than 10,000 people?</i></p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p><i>Number of Designated Facilities served:</i></p> <p>-</p>
<p><i>Is your annual report available to the public at no charge on a web site on the Internet?</i></p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p><i>Did you provide a copy of your annual report to all Designated Facilities you serve?</i></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><i>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</i></p> <p>Municipal Office, West Perth Public Library and Municipality of West Perth Website</p>	<p><i>Number of Interested Authorities you report to:</i></p> <p>-</p> <p><i>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?</i></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:	
Drinking Water System Name	Drinking Water System Number
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?
N/A

Indicate how you notified system users that your annual report is available and is free of charge.		
<input checked="" type="checkbox"/> Public access/notice via the web	<input checked="" type="checkbox"/> Public access/notice via Government Office	<input type="checkbox"/> Public access/notice via a newspaper
<input checked="" type="checkbox"/> Public access/notice via Public Request	<input checked="" type="checkbox"/> Public access/notice via a Public Library	<input type="checkbox"/> Public access/notice via Other Method

Describe your Drinking Water System

Well #1, contained within Well-house #1, is 24m deep and has a 200mm steel liner inserted into the original 300mm well casing. Raw water from this well is pumped through piping past Well-house #2 where, when required, it is combined with raw water from Well #2 and directed to Distribution Center 123.

Well #2 is 33.5m deep and has a 200mm steel liner inserted into the original 300mm well casing. Raw water is combined with raw water from Well #1 when required and directed to Distribution Center 123.

Well #3 is the main well for Distribution Center 123. The well is 54.9m deep with a 200mm steel liner inserted into the original 300mm well casing. Water from this well is conveyed through piping to Distribution Center 123.

Well #4, located within Distribution Center 4, was drilled to a final depth of 54.9m with a 200mm steel casing. Raw water from this well is treated within Distribution Center 4.

Raw water from all four wells is typically free from any bacteriological activity. The water is hard and naturally has elevated levels of fluoride and sodium. The turbidity of the raw water ranges from 0 to 1 NTU.

Other than the normal increase in usage during the summer months, there are no major operational challenges due to event-driven fluctuations.

Distribution Center 123 is located on the west side of St. George St. The storage reservoir is located adjacent to the eastern limit of the plant. It has a baffled section with a capacity of 155m³ and an unbaffled section with a capacity of 243m³. Raw water from Wells 1, 2 and 3 is conveyed into the plant, after which treatment chemicals are injected; sodium silicate for iron sequestering, and sodium hypochlorite for disinfection. The treated water is directed into the reservoir for contact time and then through the high lift pumps into the distribution system. The disinfection system at Distribution Center 123 has been designed with backup chemical pumps.

Distribution Center 4 is located near the NW corner of Arthur St and Herbert St. The plant includes a disinfection system and a 305m³ baffled, below grade reservoir. Sodium silicate is injected for iron sequestering. Disinfection is achieved using liquid sodium hypochlorite. As in Distribution Center 123, the treated water is directed into the reservoir for contact time and then through the high lift pump into the distribution system. The disinfection system at Distribution Center 4 has been designed with backup chemical pumps.

The Mitchell Standpipe is located at 97 Arthur Street. It is approximately 46m high and approximately 11m wide. The standpipe control building houses level and pressure monitoring equipment.

The Mitchell Water Tower is located at 125 Clarke Street. It is approximately 41m high and has a capacity of 1,000 m³. The control room houses level, pressure, flow monitoring equipment, and re-chlorination equipment.

The drinking water system maintains an effective chlorine residual through proper dosing and proactive distribution system management. Chlorine is dosed at the distribution centers to ensure a target residual of 0.20 mg/L, which is maintained throughout the system—well above the provincial minimum standard of 0.05 mg/L. Distribution system maintenance also plays a key role in sustaining water quality; the system is flushed twice a year to remove sediments and maintain disinfectant effectiveness. When planning or completing construction projects, staff work to eliminate dead ends by looping mains wherever possible, and operations are managed to ensure regular water turnover across the system. In addition, online analyzers continuously monitor chlorine residuals at the distribution centers, and routine residual sampling is carried out throughout the system to confirm consistent and compliant disinfection levels.

The works currently service a population of approximately 4,900. There is approximately 42 km of distribution piping of various diameters and materials contained within the Mitchell Drinking Water System. There are approximately 1950 service connections and 242 fire hydrants. Flow varies across the grid, with lower flow volumes in the most remote and dead-end parts of the grid. Pressure within the distribution system is maintained by the level of the standpipe and water tower. If required, the distribution system pressure can be controlled by the high lift pumps at each Distribution Centre.

List all water treatment chemicals used over this reporting period

- Liquid Chlorine 12% - NSF certified
- Liquid Chlorine 6% - NSF certified
- Sodium Silicate - NSF certified

Please provide a brief description and a breakdown of monetary expenses incurred

- Wellington St Reconstruction
- Well 3 Inspection
- Distribution Center 4 PLC Upgrades
- Distribution Center 123 Generator Upgrades

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	Corrective Action Date	Corrective Action
N/A	N/A	N/A	N/A	N/A

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period					
	Number of Samples	Range of E. Coli Results (Min-Max CFU/100mL)	Range of Total Coliform Results (Min-Max CFU/100mL)	Number of HPC Samples	Range of HPC Results (Min-Max CFU/100mL)
Raw Well #1	52	0-0	0-0	N/A	N/A
Raw Well #2	52	0-0	0-0	N/A	N/A
Raw Well #3	30*	0-0	0-0	N/A	N/A
Raw Well #4	52	0-0	0-0	N/A	N/A
POE #123	52	0-0	0-0	52	0-3
POE #4	52	0-0	0-0	52	0-6
Distribution	208	0-0	0-0	54	0-63

*Value due to offline well

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report					
	Continuous Monitoring	Number of Grab Samples	Range of Results Continuous (Min-Max)	Range of Results Grab Samples (Min-Max)	Units
Turbidity Raw Well #1	N/A	53	N/A	0.04-0.16	NTU
Turbidity Raw Well #2	N/A	53	N/A	0.05-0.19	NTU
Turbidity Raw Well #3	N/A	31*	N/A	0.05-0.17	NTU
Turbidity Raw Well #4	N/A	53	N/A	0.04-0.16	NTU
Chlorine - POE 123	8760	564	0.00*-2.35*	0.98-1.66	mg/L
Chlorine - POE 4	8760	546	0.00*-5.00*	0.98-1.68	mg/L
Distribution	N/A	365	N/A	0.68-1.50	mg/L

*Value due operational maintenance

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	Date Sampled	Result	Unit of Measure
N/A				

Distribution Center 123

Summary of Inorganic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Apr 22 2024	ND	µg/L	No
Arsenic	Apr 22 2024	3.4	µg/L	No
Barium	Apr 22 2024	69	µg/L	No
Boron	Apr 22 2024	120	µg/L	No
Cadmium	Apr 22 2024	ND	µg/L	No
Chromium	Apr 22 2024	ND	µg/L	No
Lead - see results below				
Mercury	Apr 22 2024	ND	µg/L	No
Selenium	Apr 22 2024	ND	µg/L	No
Sodium	Apr 22 2024	40	mg/L	Yes
Uranium	Apr 22 2024	ND	µg/L	No
Fluoride	Dec 12 2022	1.8	mg/L	Yes
Nitrite	Jan 6 2025	ND	µg/L	No
Nitrate	Jan 6 2025	ND	µg/L	No
Nitrite	Apr 7 2025	ND	µg/L	No
Nitrate	Apr 7 2025	ND	µg/L	No
Nitrite	Jul 14 2025	ND	µg/L	No
Nitrate	Jul 14 2025	ND	µg/L	No
Nitrite	Oct 6 2025	ND	µg/L	No
Nitrate	Oct 6 2025	ND	µg/L	No

ND = Not detected

Distribution Center 4

Summary of Inorganic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Dec 8 2025	ND	µg/L	No
Arsenic	Dec 8 2025	1.8	µg/L	No
Barium	Dec 8 2025	61	µg/L	No

Boron	Dec 8 2025	110	µg/L	No
Cadmium	Dec 8 2025	ND	µg/L	No
Chromium	Dec 8 2025	ND	µg/L	No
Lead - see results below				
Mercury	Dec 8 2025	ND	µg/L	No
Selenium	Dec 8 2025	ND	µg/L	No
Sodium	Dec 8 2025	47	mg/L	Yes
Uranium	Dec 8 2025	0.31	µg/L	No
Fluoride	Dec 12 2022	1.9	mg/L	Yes
Nitrite	Jan 6 2025	ND	µg/L	No
Nitrate	Jan 6 2025	ND	µg/L	No
Nitrite	Apr 7 2025	ND	µg/L	No
Nitrate	Apr 7 2025	ND	µg/L	No
Nitrite	Jul 14 2025	ND	µg/L	No
Nitrate	Jul 14 2025	ND	µg/L	No
Nitrite	Oct 6 2025	ND	µg/L	No
Nitrate	Oct 6 2025	ND	µg/L	No

ND = Not detected

*Due to operational maintenance

Lead Testing Results

Summary of Lead Results during this reporting period (Winter: Dec 15 – April 15; Summer: June 15 - Oct 15)				
Sampling Period	Location	Distribution System Lead (ug/L)	Distribution System Alkalinity (mg/L)	Any Adverse Water Quality Incidents?
Mar 24 2025	Hydrant #63	N/A	220	No
Mar 24 2025	Hydrant #149	N/A	220	No
Mar 24 2025	Hydrant #126	N/A	210	No
Jul 14 2025	Hydrant #63	N/A	220	No
Jul 14 2025	Hydrant #149	N/A	210	No
Jul 14 2025	Hydrant #126	N/A	210	No

Point of Entry 123

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Semivolatile Organics				
2,3,4,6- Tetrachlorophenol	Apr 22 2024	ND	µg/L	No
2,4,6-Trichlorophenol	Apr 22 2024	ND	µg/L	No
2,4-D	Apr 22 2024	ND	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
2,4-Dichlorophenol	Apr 22 2024	ND	µg/L	No
Alachlor	Apr 22 2024	ND	µg/L	No
Atrazine	Apr 22 2024	ND	µg/L	No
Des-ethyl atrazine	Apr 22 2024	ND	µg/L	No
Atrazine+Desethyl-atrazine	Apr 22 2024	ND	µg/L	No
Bromoxynil	Apr 22 2024	ND	µg/L	No
Carbaryl	Apr 22 2024	ND	µg/L	No
Carbofuran	Apr 22 2024	ND	µg/L	No
Chlorpyrifos(Dursban)	Apr 22 2024	ND	µg/L	No
Diazinon	Apr 22 2024	ND	µg/L	No
Dicamba	Apr 22 2024	ND	µg/L	No
Diclofop-methyl	Apr 22 2024	ND	µg/L	No
Dimethoate	Apr 22 2024	ND	µg/L	No
Malathion	Apr 22 2024	ND	µg/L	No
MCPA	Apr 22 2024	ND	µg/L	No
Metolachlor	Apr 22 2024	ND	µg/L	No
Metribuzin(Sencor)	Apr 22 2024	ND	µg/L	No
Pentachlorophenol	Apr 22 2024	ND	µg/L	No
Phorate	Apr 22 2024	ND	µg/L	No
Picloram	Apr 22 2024	ND	µg/L	No
Prometryne	Apr 22 2024	ND	µg/L	No
Simazine	Apr 22 2024	ND	µg/L	No
Terbufos	Apr 22 2024	ND	µg/L	No
Triallate	Apr 22 2024	ND	µg/L	No
Trifluralin	Apr 22 2024	ND	µg/L	No
Benzo(a)pyrene	Apr 22 2024	ND	µg/L	No
Volatile Organics				
1,1-Dichloroethylene	Apr 22 2024	ND	µg/L	No
1,2-Dichlorobenzene	Apr 22 2024	ND	µg/L	No
1,2-Dichloroethane	Apr 22 2024	ND	µg/L	No
1,4-Dichlorobenzene	Apr 22 2024	ND	µg/L	No
Benzene	Apr 22 2024	ND	µg/L	No
Carbon Tetrachloride	Apr 22 2024	ND	µg/L	No
Chlorobenzene	Apr 22 2024	ND	µg/L	No
Methylene Chloride (Dichloromethane)	Apr 22 2024	ND	µg/L	No
Ethylbenzene	Apr 22 2024	ND	µg/L	No
Tetrachloroethylene	Apr 22 2024	ND	µg/L	No
Toluene	Apr 22 2024	ND	µg/L	No
Trichloroethylene	Apr 22 2024	ND	µg/L	No
Vinyl Chloride	Apr 22 2024	ND	µg/L	No
o-Xylene	Apr 22 2024	ND	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
p+m-Xylene	Apr 22 2024	ND	µg/L	No
Total Xylenes	Apr 22 2024	ND	µg/L	No
PCBs				
Total PCB	Apr 22 2024	ND	µg/L	No
Pesticides & Herbicides				
Glyphosate	Apr 22 2024	ND	µg/L	No
Diquat	Apr 29 2024	ND	µg/L	No
Diuron	Apr 22 2024	ND	µg/L	No
Guthion (Azinphos-methly)	Apr 22 2024	ND	µg/L	No
Paraquat	Apr 29 2024	ND	µg/L	No

ND = Not detected

Point of Entry 4

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Semivolatile Organics				
2,3,4,6- Tetrachlorophenol	Dec 8 2025	ND	µg/L	No
2,4,6-Trichlorophenol	Dec 8 2025	ND	µg/L	No
2,4-D	Dec 8 2025	ND	µg/L	No
2,4-Dichlorophenol	Dec 8 2025	ND	µg/L	No
Alachlor	Dec 8 2025	ND	µg/L	No
Atrazine	Dec 8 2025	ND	µg/L	No
Des-ethyl atrazine	Dec 8 2025	ND	µg/L	No
Atrazine+Desethyl-atrazine	Dec 8 2025	ND	µg/L	No
Bromoxynil	Dec 8 2025	ND	µg/L	No
Carbaryl	Dec 8 2025	ND	µg/L	No
Carbofuran	Dec 8 2025	ND	µg/L	No
Chlorpyrifos(Dursban)	Dec 8 2025	ND	µg/L	No
Diazinon	Dec 8 2025	ND	µg/L	No
Dicamba	Dec 8 2025	ND	µg/L	No
Diclofop-methyl	Dec 8 2025	ND	µg/L	No
Dimethoate	Dec 8 2025	ND	µg/L	No
Malathion	Dec 8 2025	ND	µg/L	No
MCPA	Dec 8 2025	ND	µg/L	No
Metolachlor	Dec 8 2025	ND	µg/L	No
Metribuzin(Sencor)	Dec 8 2025	ND	µg/L	No
Pentachlorophenol	Dec 8 2025	ND	µg/L	No
Phorate	Dec 8 2025	ND	µg/L	No

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Picloram	Dec 8 2025	ND	µg/L	No
Prometryne	Dec 8 2025	ND	µg/L	No
Simazine	Dec 8 2025	ND	µg/L	No
Terbufos	Dec 8 2025	ND	µg/L	No
Triallate	Dec 8 2025	ND	µg/L	No
Trifluralin	Dec 8 2025	ND	µg/L	No
Benzo(a)pyrene	Dec 8 2025	ND	µg/L	No
Volatile Organics				
1,1-Dichloroethylene	Dec 8 2025	ND	µg/L	No
1,2-Dichlorobenzene	Dec 8 2025	ND	µg/L	No
1,2-Dichloroethane	Dec 8 2025	ND	µg/L	No
1,4-Dichlorobenzene	Dec 8 2025	ND	µg/L	No
Benzene	Dec 8 2025	ND	µg/L	No
Carbon Tetrachloride	Dec 8 2025	ND	µg/L	No
Chlorobenzene	Dec 8 2025	ND	µg/L	No
Methylene Chloride (Dichloromethane)	Dec 8 2025	ND	µg/L	No
Ethylbenzene	Dec 8 2025	ND	µg/L	No
Tetrachloroethylene	Dec 8 2025	ND	µg/L	No
Toluene	Dec 8 2025	ND	µg/L	No
Trichloroethylene	Dec 8 2025	ND	µg/L	No
Vinyl Chloride	Dec 8 2025	0.25	µg/L	No
o-Xylene	Dec 8 2025	ND	µg/L	No
p+m-Xylene	Dec 8 2025	ND	µg/L	No
Total Xylenes	Dec 8 2025	ND	µg/L	No
PCBs				
Total PCB	Dec 8 2025	ND	µg/L	No
Pesticides & Herbicides				
Glyphosate	Dec 8 2025	ND	µg/L	No
Diquat	Dec 8 2025	ND	µg/L	No
Diuron	Dec 8 2025	ND	µg/L	No
Guthion (Azinphos-methly)	Dec 8 2025	ND	µg/L	No
Paraquat	Dec 8 2025	ND	µg/L	No

ND = Not detected

Distribution System

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM	Jan 6 2025	16.9	µg/L	No
	Apr 7 2025	15.5	µg/L	
	Jul 14 2025	13.1	µg/L	
	Oct 6 2025	16.3	µg/L	
THM Running Annual Average	2025	15.45	µg/L	No
HAA	Jan 6 2025	22.0	µg/L	No
	Apr 7 2025	17.0	µg/L	
	Jul 14 2025	26.0	µg/L	
	Oct 6 2025	5.0*	µg/L	
HAA Running Annual Average	2025	17.5	µg/L	No

*Sample value was ND, used reportable detection limit for RAA calculations

Point of Entry 123

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.				
Parameter	Sample Date	Result Value	Unit of Measure	ODWS Standard
Fluoride	Dec 12 2022	1.8	mg/L	1.5

Point of Entry 4

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.				
Parameter	Sample Date	Result Value	Unit of Measure	ODWS Standard
Fluoride	Dec 12 2022	1.9	mg/L	1.5

Note: Fluoride is naturally occurring in Mitchell's Drinking Water Supply. For more information on fluoride visit Huron Perth Public Health Unit at:

<https://www.hp-ph.ca/en/health-matters/water.aspx>

Part 2 – SUMMARY REPORT (as required by O. Reg. 170/03, Schedule 22)

Non-Compliance with Legislations, Regulations, Approvals & Orders

There were two incidents of non-compliance as described in the 2025 Mitchell Drinking Water System Inspection Report by The Ministry of Environment, Conservation and Parks:

NC-1

Finding: The owner was not maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials

Action: As noted in the well inspection conducted in August 2025, it is understood that there is a hole in the well casing at the base of the installed liner of Production Well #3. Based on the findings of the well inspection, Production Well #3 is not currently in compliance with the requirements of Ontario Regulation 903, Section 20 (1). The Owner / Operating Authority has advised that it is their intention to have a new well drilled to replace Production Well #3. Given the aforementioned information, the Owner / Operating Authority shall forthwith abandon Production Well #3 in accordance with the requirements of Ontario Regulation 903, Section 21. Following the abandonment of Production Well #3, the Owner / Operating Authority shall forward a completed well record to Neville Rising of the MECP.

NC-2

Finding: The owner did not ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.

Action: The Owner / Operating Authority shall forthwith submit completed Director's Notification forms to account for the modifications made to the Production Well #4 well pump and diesel powered fire pump located at the Standpipe as prescribed by Drinking Water Works Permit #060-201 - Issue #6, Section 2.5. A copy of the aforementioned Director's Notification forms shall be forwarded to Neville Rising of the MECP upon their completion.

The following outlines well exceedances:

November 11, 2025 - Well #2

SCADA recorded a well pump exceedance with a duration of approximately five minutes; however, this value was the result of a brief power interruption that caused a false reading. The well did not physically pump water at the recorded rate.

November 28, 2025 - Well #4

SCADA recorded a well pump exceedance with a duration of approximately five minutes during third-party flow meter verification activities. The recorded value was the result of the verification and did not reflect the actual volume of water pumped.

Well #1

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	179.30	902.28	1694.4
February	265.58	969.96	1693.8
March	263.27	894.36	1693.8
April	210.83	800.10	1693.8
May	268.10	1050.31	1693.8
June	250.79	935.31	1734.6
July	292.18	962.73	1693.8
August	606.10	1965.43	1755.6
September	554.78	2235.10	1755.0
October	512.11	1697.15	1753.8
November	512.87	1688.13	1753.8
December	440.04	1807.70	1774.2
Maximum	N/A	2235.10	1774.2
Average	362.99	1325.71	1724.2
PTTW (m³)	2617.92	2617.92	1818
% of PTTW Max.	-	85%	98%
% of PTTW Avg.	14%	51%	95%

Well #2

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	375.86	1165.87	1816.8
February	286.00	1065.82	1815.0
March	281.05	1116.58	1836.0
April	316.55	1059.25	1839.6
May	346.89	1221.86	1815.6
June	343.16	1149.12	1791.6
July	321.87	1979.40	1813.8
August	773.03	2395.57	1839.6
September	876.56	2412.45	1845.6
October	1025.83	2390.38	1846.2
November	825.95	2572.20	11694.6*
December	952.78	2712.61	1853.4
Maximum	N/A	2712.61	11694.6
Average	560.46	1770.09	2650.65
PTTW (m³)	3024	3024	2100
% of PTTW Max.	-	90%	557%
% of PTTW Avg.	19%	59%	126%

*Highest recorded value is a false reading that occurred during a power blip.

Well #3

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	1024.87	2020.88	2762.4
February	999.75	2128.99	2792.4
March	1004.42	1933.99	2757.6
April	944.13	1856.12	2789.4
May	1115.39	2376.83	2789.4
June	1091.47	2442.85	2785.8
July	933.87	2249.22	2788.8
August	0.00	0.00	0
September	0.00	0.00	0
October	0.00	0.00	0
November	0.00	0.00	0
December	0.00	0.00	0
Maximum	N/A	2442.85	2792.4
Average	592.83	1250.74	1622.15
PTTW (m³)	3900	3900	2880
% of PTTW Max.	-	63%	97%
% of PTTW Avg.	15%	32%	56%

Well #4

System Capability Assessment			
Comparison of Flow Rates (raw flow; m ³):			
Month	Average Daily Flow	Maximum Daily Flow	Max Flow (L/min)
January	1569.26	3221.00	4296.78
February	1324.61	3052.00	4230.84
March	1451.16	3042.00	4213.32
April	1481.20	3150.00	4274.76
May	1298.23	3092.00	4237.68
June	1396.47	3097.00	4204.38
July	1642.77	3018.00	5156.46
August	1878.23	3364.00	4268.94
September	2197.23	3681.00	4293.66
October	2498.32	3958.00	4277.88
November	1688.47	3030.00	8736.66*
December	1508.37	3132.00	4833.60
Maximum	N/A	3958.00	8736.66
Average	1661.19	3236.42	4752.08
PTTW (m³)	8640	8640	6000
% of PTTW Max.	-	46%	146%
% of PTTW Avg.	19%	37%	79%

*Highest recorded value is a false read due to third party verification.

Wells - Combined

System Capability Assessment		
Comparison of Flow Rates (total raw flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	3149.29	4029.90
February	2776.76	3754.92
March	2999.90	3958.27
April	2952.71	3962.57
May	3028.60	4871.63
June	3081.88	4145.70
July	3190.69	4713.10
August	3257.36	4550.57
September	3628.57	4886.15
October	4036.26	5641.11
November	3027.29	4140.00
December	2901.19	4582.06
Average	3169.21	N/A
Maximum	N/A	5641.11
System Capacity (m³)	8640	8640
Capacity (%)	37%	65%

Distribution Center 123

System Capability Assessment		
Comparison of Flow Rates (total treated flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	1473.07	2879.70
February	1466.66	2988.20
March	1465.50	2801.40
April	1379.56	2656.80
May	1625.56	3362.10
June	1584.02	3396.40
July	1457.05	3230.00
August	1182.25	2233.50
September	1206.02	2503.80
October	1273.36	1862.10
November	1124.00	1971.20
December	1143.76	2724.90
Average	1365.07	N/A
Maximum	N/A	3396.4
System Capacity (m³)	8640	8640
Capacity (%)	16%	39%

Distribution Center 4

System Capability Assessment		
Comparison of Flow Rates (total treated flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	1517.90	3123.00
February	1280.43	2986.00
March	1404.23	2984.00
April	1431.10	3024.00
May	1253.74	3025.00
June	1350.10	2983.00
July	1590.10	2945.00
August	1819.10	3285.00
September	2127.50	3545.00
October	2420.03	3841.00
November	1635.67	2934.00
December	1456.45	3049.00
Average	1607.20	N/A
Maximum	N/A	3841.00
System Capacity (m³)	8640	8640
Capacity (%)	19%	45%

Distribution Centers - Combined

System Capability Assessment		
Comparison of Flow Rates (total treated flow; m ³ /d):		
Month	Average Flow	Maximum Daily Flow
January	2990.97	3837.99
February	2747.09	3617.9
March	2869.73	3887.10
April	2810.66	3727.50
May	2879.31	4653.90
June	2934.12	4015.40
July	3047.15	4407.50
August	3001.35	3903.20
September	3333.52	4203.10
October	3693.40	5066.60
November	2759.66	3652.40
December	2600.21	3808.97
Average	2972.26	N/A
Maximum	N/A	5066.60
System Capacity (m³)	8640	8640
Capacity (%)	34%	59%