

## **Document 2**

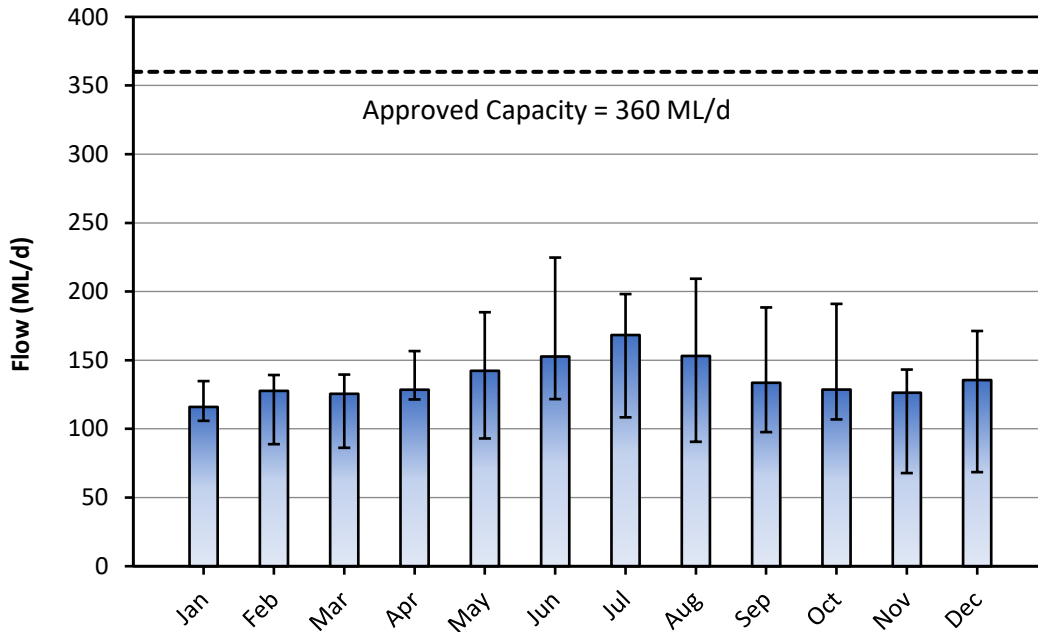
### **2022 Water Flowrates in Ottawa's Municipal Water Systems**

This supporting document reports on the amount of water supplied during the period of January 1 to December 31, 2022. The flowrates are shown in the tables and graphs that follow for each of the eight municipal water systems. Average, minimum, and maximum daily flows (by month) are shown in comparison to the rated capacity for each water system. Seasonal water use patterns can be seen in the graphs, with higher usage typically occurring during summer months.

## Britannia WPP – Annual Water Flow Rates for 2022

The Britannia Water Purification Plant treated and distributed an average of 136.6 Million Liters per day (ML/d), which represents 38 per cent of the approved plant capacity of 360 ML/d. The daily flow rates ranged from a minimum of 67.8 ML/d to a maximum of 224.2 ML/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

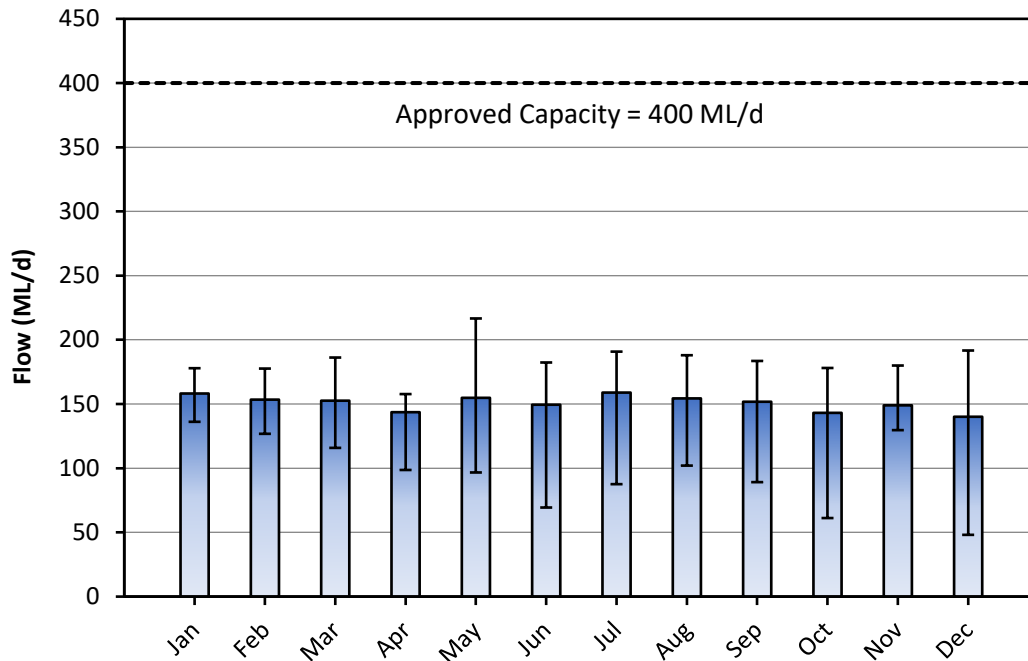


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	116.0	105.9	134.8
February	127.7	88.9	139.2
March	125.5	86.2	139.5
April	128.5	121.4	156.7
May	142.3	93.0	184.9
June	152.7	121.7	224.7
July	168.3	108.4	198.2
August	153.1	90.6	209.3
September	133.6	97.7	188.4
October	128.6	106.9	191.0
November	126.4	67.8	143.2
December	135.5	68.5	171.3
<b>Year End</b>	<b>136.6</b> (Average)	<b>67.8</b> (Min. Day)	<b>224.7</b> (Max. Day)

## Lemieux Island WPP – Annual Water Flow Rates for 2022

The Lemieux Island Water Purification Plant treated and distributed an average of 150.8 Million Liters per day (ML/d), which represents 38 per cent of the approved plant capacity of 400 ML/d. The daily flow rates ranged from a minimum of 48.8 ML/d to a maximum of 216.6 ML/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

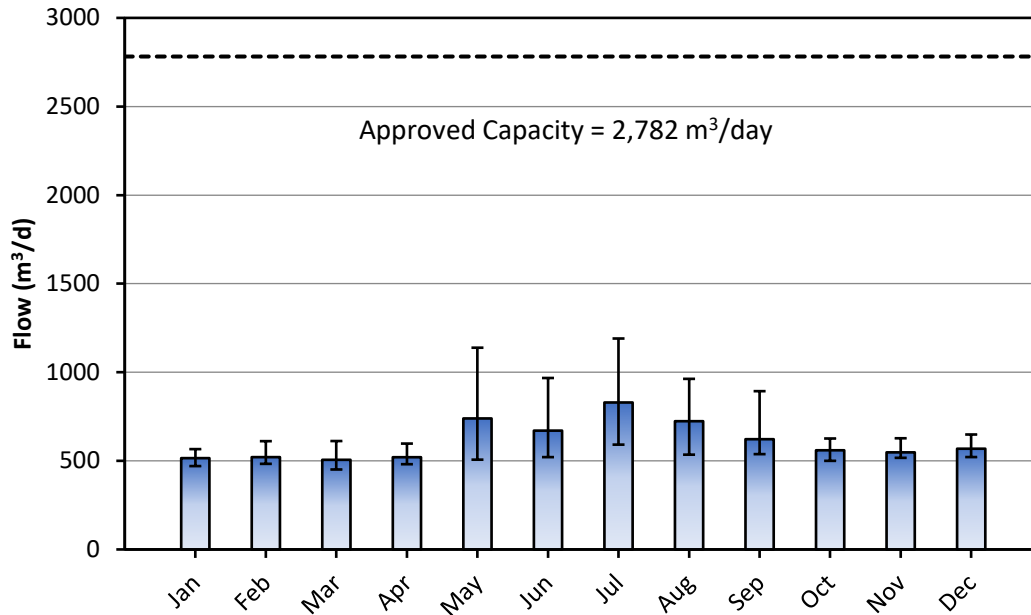


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	158.2	136.1	177.9
February	153.4	126.8	177.6
March	152.6	115.8	186.2
April	143.6	98.6	157.7
May	154.8	96.7	216.6
June	149.5	69.4	182.3
July	158.9	87.6	190.8
August	154.4	102.0	188.0
September	151.8	89.2	183.5
October	143.1	61.2	178.1
November	149.0	129.7	180.0
December	140.1	48.1	191.7
<b>Year End</b>	<b>150.8</b> (Average)	<b>48.1</b> (Min. Day)	<b>216.6</b> (Max. Day)

## Carp Well System – Annual Water Flow Rates for 2022

The Carp Well System treated and distributed an average of 611.3 m<sup>3</sup>/d, which represents 22 per cent of the approved plant capacity of 2,782 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 451.3 m<sup>3</sup>/d to a maximum of 1190.5 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

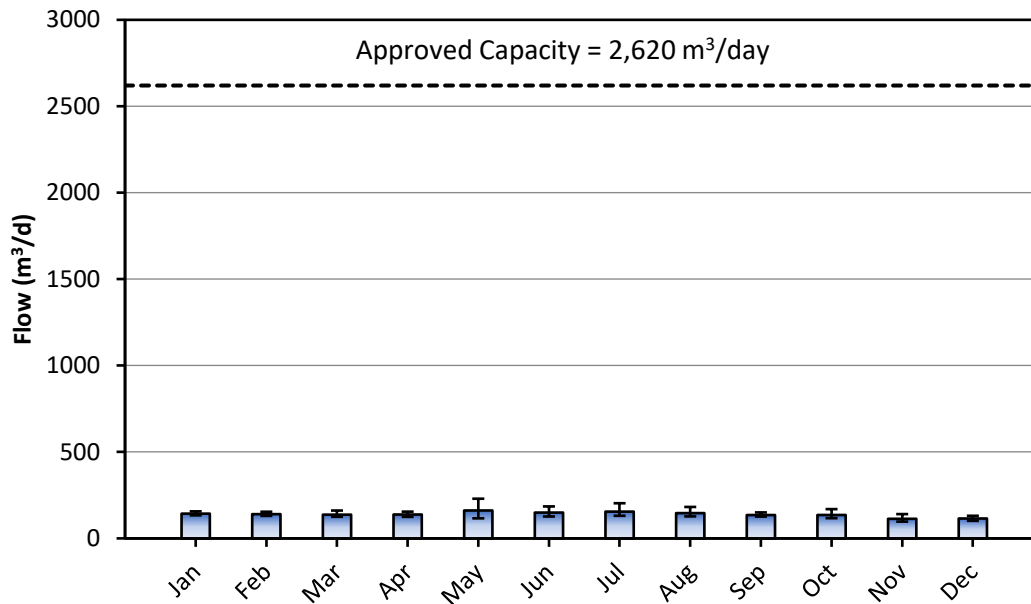


Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	515.3	470.5	566.2
February	521.0	483.2	611.1
March	505.9	451.3	611.8
April	520.5	481.1	597.5
May	739.4	506.7	1138.6
June	670.6	521.1	967.7
July	829.4	591.6	1190.5
August	723.8	535.0	962.8
September	622.2	538.0	893.3
October	559.7	500.1	626.2
November	548.0	517.1	627.5
December	568.5	521.4	648.7
<b>Year End</b>	<b>611.3</b> (Average)	<b>451.3</b> (Min. Day)	<b>1190.5</b> (Max. Day)

## Kings Park Well System – Annual Water Flow Rates for 2022

The Kings Park Well System (Richmond) treated and distributed an average of 139.2 m<sup>3</sup>/d, which represents 5.3 per cent of the approved plant capacity of 2620 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 97 m<sup>3</sup>/d to a maximum of 229.6 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

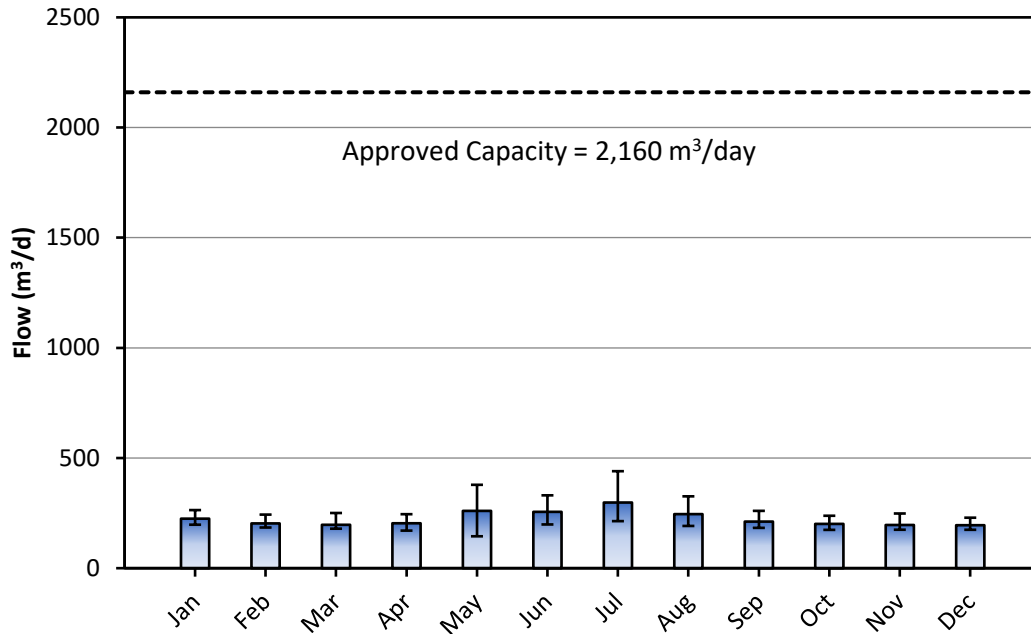


Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	143.2	133.5	156.3
February	140.2	130.3	154.2
March	137.3	125.1	161.1
April	138.1	124.7	154.7
May	161.5	116.1	229.6
June	149.4	126.7	185.0
July	154.9	130.8	203.4
August	146.2	127.3	182.0
September	135.2	126.1	150.2
October	135.5	117.0	169.3
November	113.3	97.1	140.5
December	115.1	101.7	130.7
<b>Year End</b>	<b>139.2</b> (Average)	<b>97.1</b> (Min. Day)	<b>229.6</b> (Max. Day)

## Munster Well System – Annual Water Flow Rates for 2022

The Munster Well System treated and distributed an average of 224.6 m<sup>3</sup>/d, which represents 10 per cent of the approved plant capacity of 2160 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 145 m<sup>3</sup>/d to a maximum of 440 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

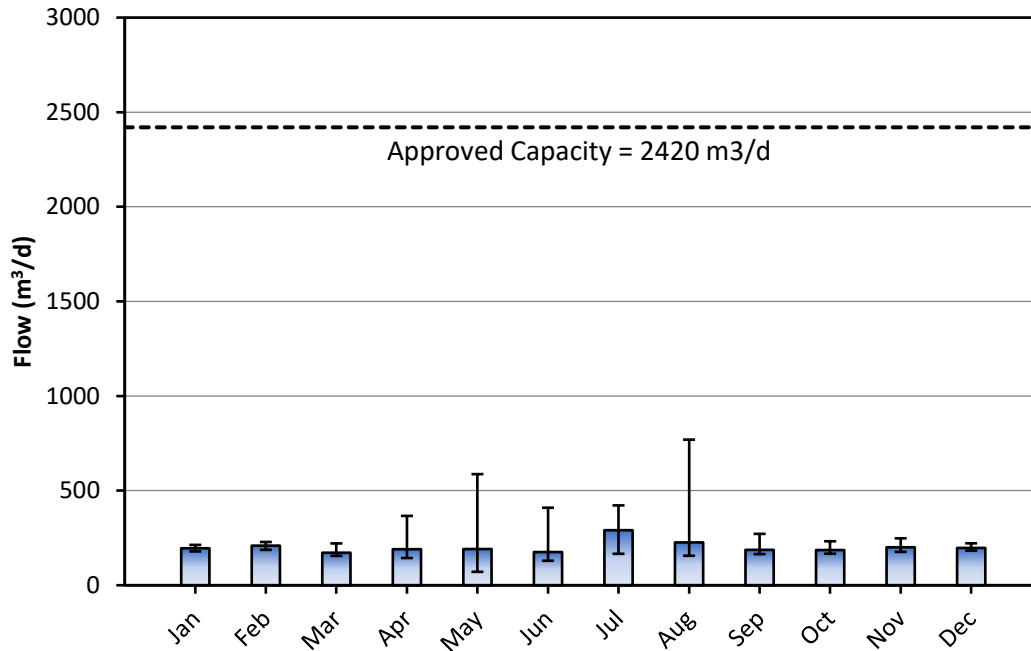


Month	Average Daily Flow Rate (m3/d)	Minimum Daily Flow Rate (m3/d)	Maximum Daily Flow Rate (m3/d)
January	224.8	197.4	263.7
February	203.2	184.6	243.2
March	197.0	179.3	250.5
April	203.9	170.6	245.1
May	260.1	144.8	378.5
June	255.8	198.5	330.7
July	298.0	213.6	440.2
August	245.4	191.7	326.1
September	211.5	183.1	260.2
October	201.0	174.0	238.0
November	196.1	174.6	248.2
December	195.1	174.4	229.2
<b>Year End</b>	<b>224.6</b> (Average)	<b>144.8</b> (Min. Day)	<b>440.2</b> (Max. Day)

## Richmond West Well System – Annual Water Flow Rates for 2022

The Richmond West Well System treated and distributed an average of 201.9 m<sup>3</sup>/d, which represents 8 per cent of the approved plant capacity of 2420 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 70.9 m<sup>3</sup>/d to a maximum of 769.5 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.

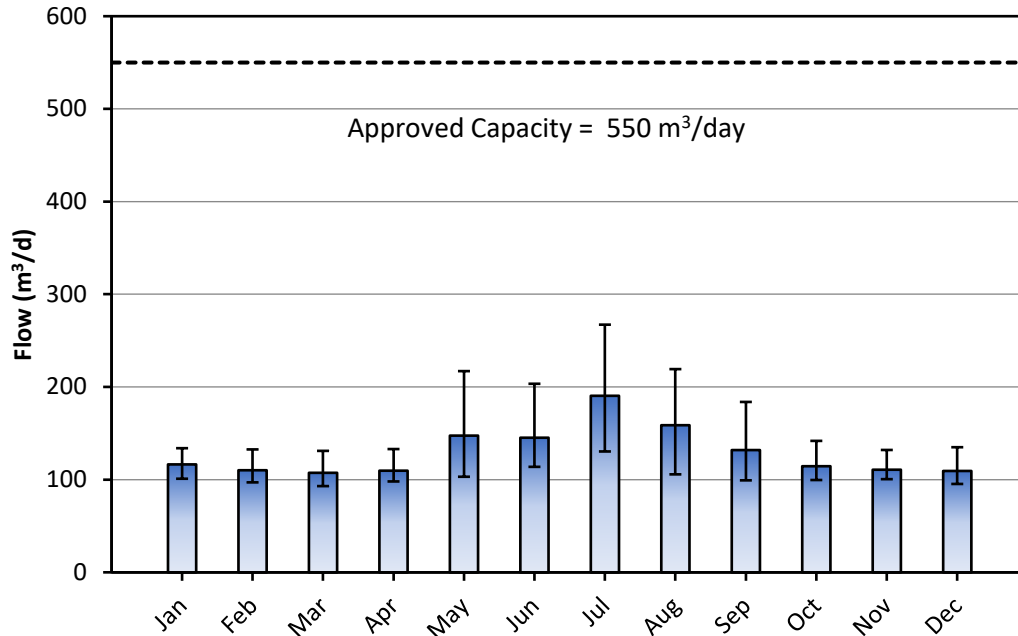


Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	195.5	178.9	213.3
February	209.3	187.1	228.6
March	171.9	155.2	221.1
April	190.5	144.0	366.6
May	191.4	70.9	587.2
June	175.5	129.6	409.7
July	290.9	166.3	422.0
August	226.3	155.9	769.5
September	187.0	164.5	271.6
October	186.0	166.8	232.5
November	200.6	176.3	248.0
December	197.1	182.5	221.7
<b>Year End</b>	<b>201.9</b> (Average)	<b>70.9</b> (Min. Day)	<b>769.5</b> (Max. Day)

## Shadow Ridge Well System – Annual Water Flow Rates for 2022

The Shadow Ridge Well System treated and distributed an average of 129.5 m<sup>3</sup>/d, which represents 24 per cent of the approved plant capacity of 550 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 93 m<sup>3</sup>/d to a maximum of 267.2 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.



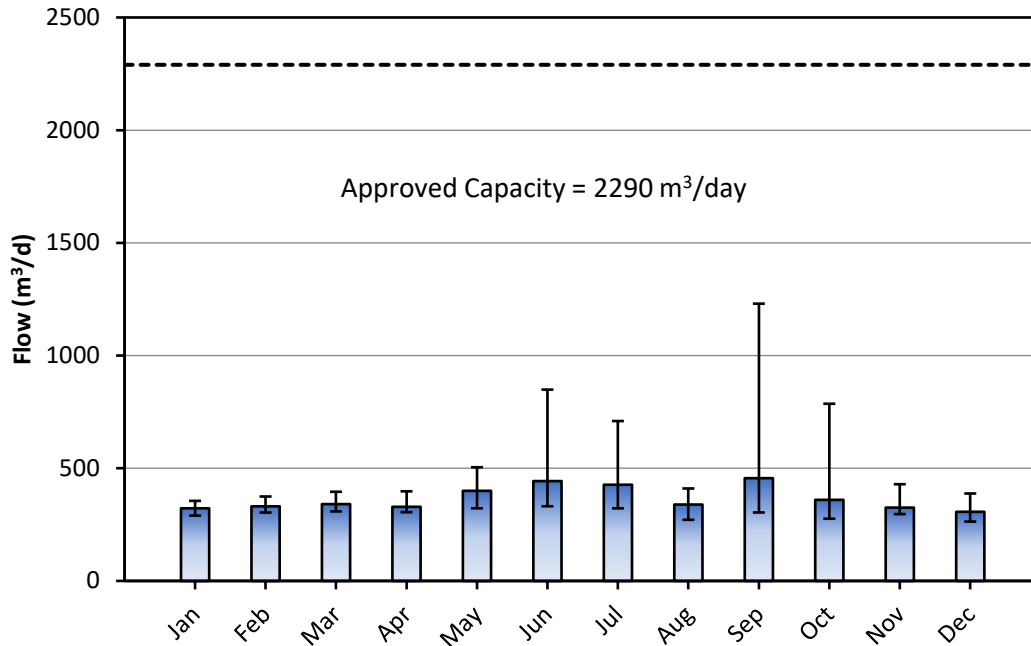
Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	116.4	101.0	133.9
February	110.1	97.1	132.6
March	107.4	93.0	131.0
April	109.7	98.1	133.0
May	147.5	103.1	217.1
June	145.2	113.8	203.4
July	190.5	130.4	267.2
August	158.7	105.7	219.2
September	131.9	99.3	183.8
October	114.5	99.6	141.8
November	110.7	100.5	132.0
December	109.4	95.4	135.0
<b>Year End</b>	<b>129.5</b> (Average)	<b>93.0</b> (Min. Day)	<b>267.2</b> (Max. Day)



## Vars Well System – Annual Water Flow Rates for 2022

The Vars Well System treated and distributed an average of 364.9 m<sup>3</sup>/d, which represents 16 per cent of the approved plant capacity of 2290 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 263.3 m<sup>3</sup>/d to a maximum of 1230.2 m<sup>3</sup>/d.

The table and graph below summarize the 2022 water production by month, highlighting the minimum, maximum and average daily flows.



Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	322.2	289.8	355.2
February	330.9	303.4	374.5
March	340.9	308.5	395.6
April	328.8	304.9	397.7
May	399.8	322.2	504.4
June	443.0	331.3	848.9
July	426.8	322.2	709.4
August	338.9	271.3	410.2
September	455.9	303.7	1230.2
October	359.7	276.1	786.1
November	325.3	296.5	429.1
December	306.7	263.3	388.0
<b>Year End</b>	<b>364.9</b> (Average)	<b>263.3</b> (Min. Day)	<b>1230.2</b> (Max. Day)