

Document 2

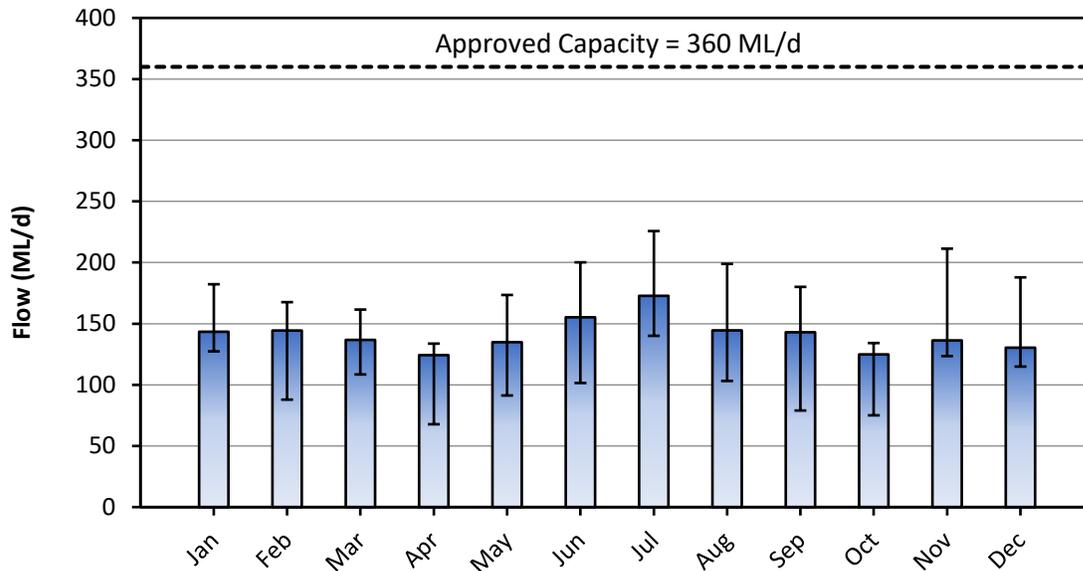
2020 Water Flowrates in Ottawa's Municipal Water Systems

This supporting document reports on the amount of water supplied during the period of January 1st to December 31st, 2020. 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 2020

The Britannia Water Purification Plant treated and distributed an average of 141.3 Million Liters per day (ML/d), which represents 39% of the approved plant capacity of 360 ML/d. The daily flow rates ranged from a minimum of 67.7 ML/d to a maximum of 225.7 ML/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

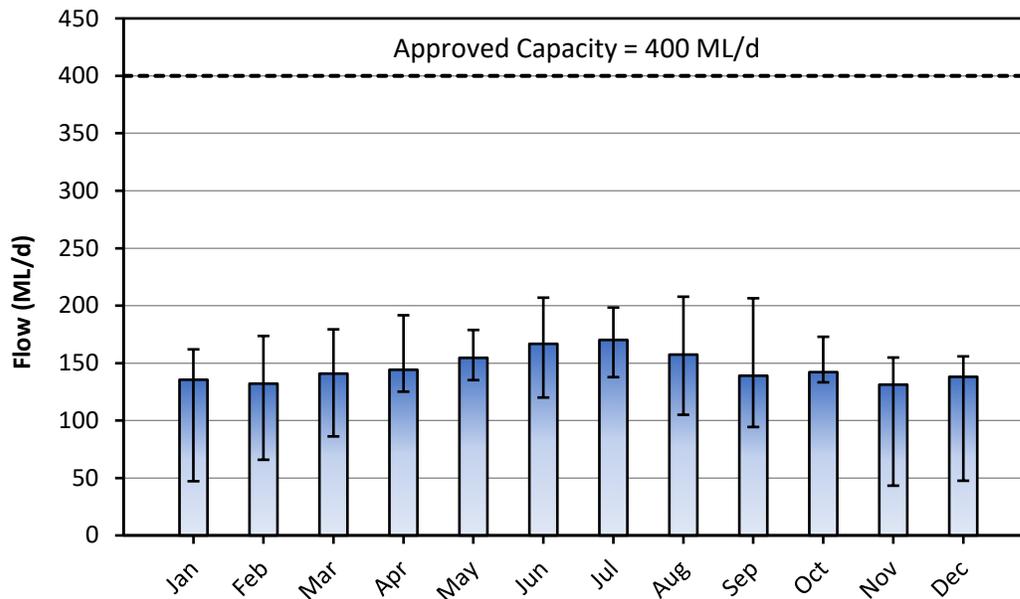


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	143.4	127.4	182.2
February	144.4	87.9	167.6
March	136.7	108.5	161.5
April	124.3	67.7	133.7
May	134.9	91.3	173.5
June	155.2	101.5	200.1
July	172.7	140.0	225.7
August	144.5	103.2	198.9
September	143.0	79.0	180.1
October	124.9	75.0	134.2
November	136.3	123.5	211.3
December	130.4	114.9	187.9
Year End	141.3 (Average)	67.7 (Min. Day)	225.7 (Max. Day)

Lemieux Island WPP – Annual Water Flow Rates for 2020

The Lemieux Island Water Purification Plant treated and distributed an average of 146.5 Million Liters per day (ML/d), which represents 37% of the approved plant capacity of 400 ML/d. The daily flow rates ranged from a minimum of 43.3 ML/d to a maximum of 207.8 ML/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

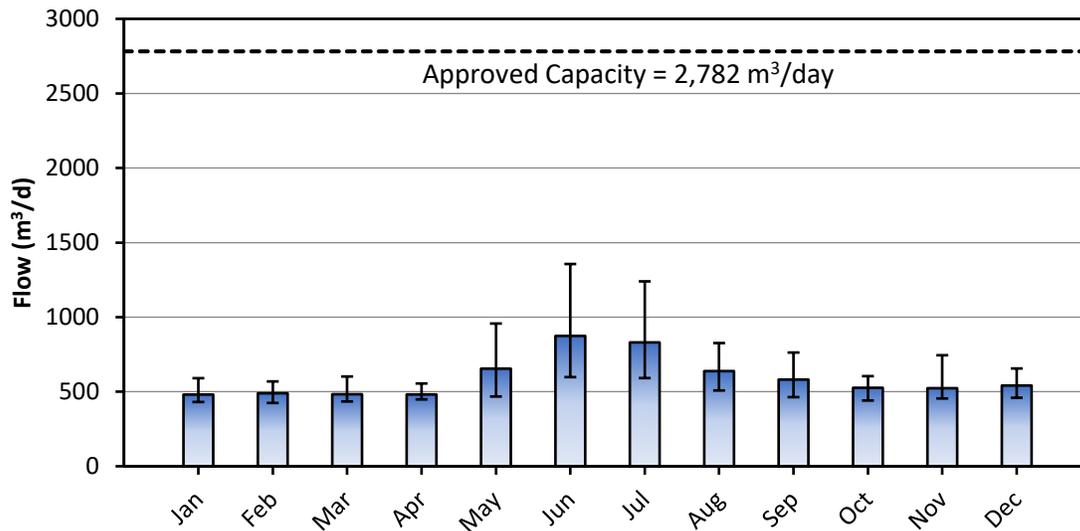


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	135.5	47.2	162.0
February	132.1	65.8	173.6
March	140.9	86.2	179.4
April	144.2	125.1	191.6
May	154.6	135.2	178.8
June	166.8	120.0	207.0
July	170.2	137.8	198.4
August	157.4	105.0	207.8
September	139.0	94.4	206.5
October	142.1	133.3	172.9
November	131.3	43.3	154.9
December	138.1	47.6	155.9
Year End	146.5 (Average day)	43.3 (Min. day)	207.8 (Max. day)

Carp Well System – Annual Water Flow Rates for 2020

The Carp Well System treated and distributed an average of 592 m³/d, which represents 21% of the approved plant capacity of 2782 m³/d. The daily flow rates ranged from a minimum of 425 m³/d to a maximum of 1356 m³/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

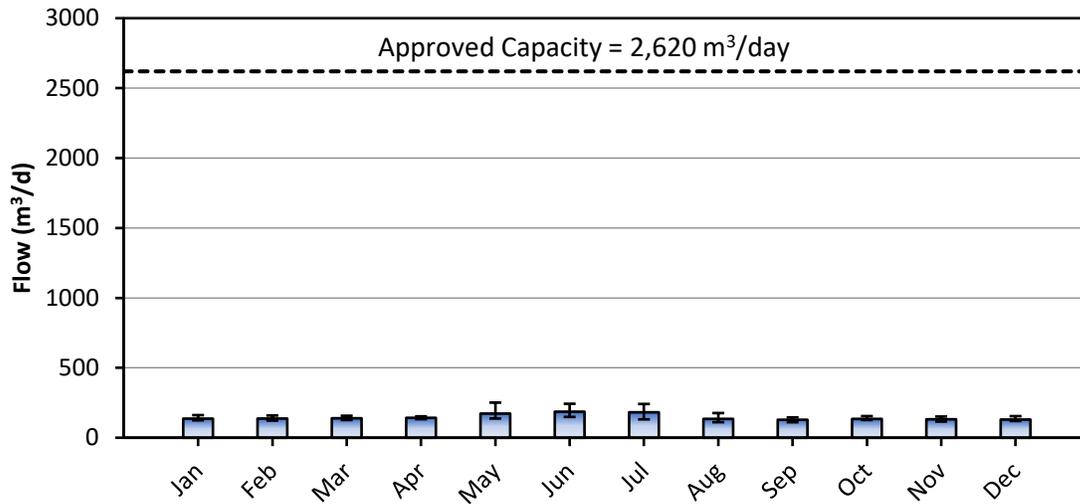


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	481.0	430.9	590.6
February	489.6	424.6	568.9
March	483.2	434.6	602.0
April	481.6	448.3	555.2
May	654.7	467.8	957.1
June	874.1	597.8	1356.3
July	830.5	591.3	1239.8
August	638.1	508.2	826.2
September	581.5	463.6	762.6
October	526.3	441.0	604.4
November	523.5	454.7	744.6
December	541.5	459.4	655.8
Year End	592.4 (Average day)	424.6 (Min. day)	1356.3 (Max. day)

Kings Park Well System – Annual Water Flow Rates for 2020

The Kings Park Well System (Richmond) treated and distributed an average of 147 m³/d, which represents 5.6% of the approved plant capacity of 2620 m³/d. The daily flow rates ranged from a minimum of 111 m³/d to a maximum of 251 m³/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

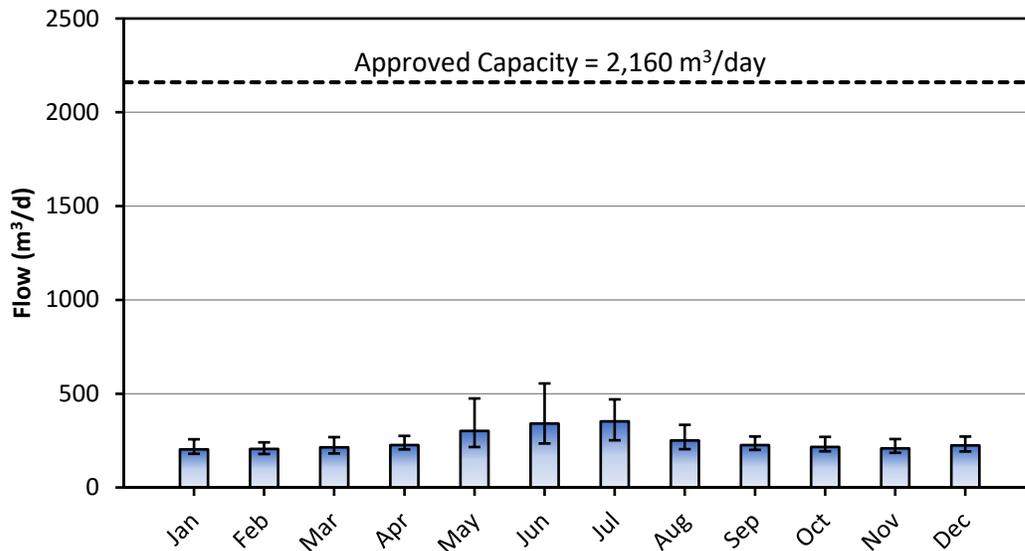


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	136.7	124.4	161.8
February	137.2	122.6	159.1
March	139.3	126.6	157.1
April	142.4	132.9	153.0
May	172.8	137.6	251.4
June	186.3	148.7	242.9
July	181.9	131.5	241.3
August	134.9	111.2	176.5
September	128.6	111.0	145.5
October	134.8	126.8	154.7
November	132.0	115.7	151.5
December	130.1	119.9	154.4
Year End	146.9 (Average day)	111.0 (Min. day)	251.4 (Max. day)

Munster Well System – Annual Water Flow Rates for 2020

The Munster Well System treated and distributed an average of 248 m³/d, which represents 11.5% of the approved plant capacity of 2160 m³/d. The daily flow rates ranged from a minimum of 178 m³/d to a maximum of 555 m³/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

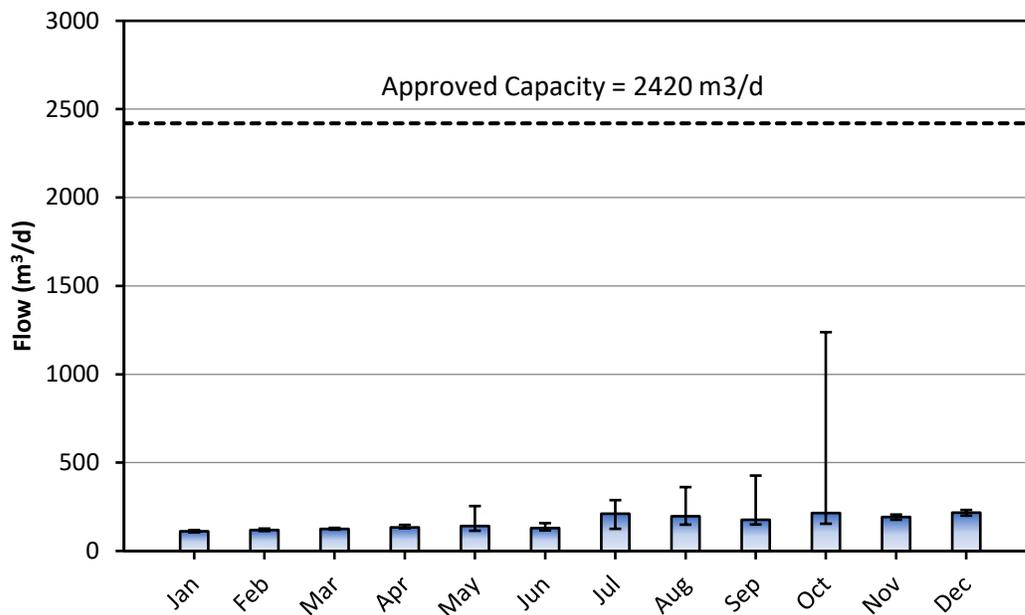


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	203.1	179.4	256.8
February	205.4	178.4	240.5
March	213.9	181.4	268.3
April	226.1	202.9	274.9
May	301.4	215.4	474.5
June	340.8	234.5	554.5
July	352.4	251.4	469.6
August	250.6	204.2	333.8
September	225.9	200.2	271.7
October	215.8	192.7	269.6
November	208.4	184.7	258.0
December	224.3	191.9	271.4
Year End	248.2 (Average day)	178.4 (Min. day)	554.5 (Max. day)

Richmond West Well System – Annual Water Flow Rates for 2020

The Richmond West Well System treated and distributed an average of 164 m³/d, which represents 7% of the approved plant capacity of 2420 m³/d. The daily flow rates ranged from a minimum of 105 m³/d to a maximum of 1238 m³/d which was related to high flow pump testing carried out on October 20th.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

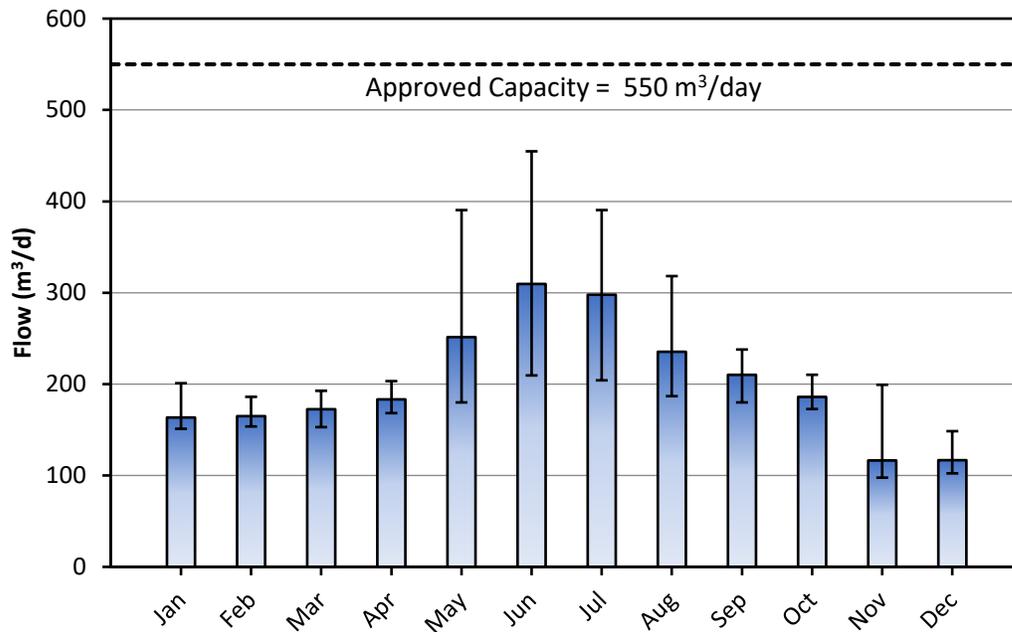


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	111.5	105.2	118.3
February	118.7	113.2	126.8
March	124.9	121.1	130.8
April	133.5	128.2	147.7
May	141.4	114.6	254.3
June	129.9	116.4	157.8
July	211.1	125.4	287.8
August	196.7	149.1	361.6
September	176.6	149.9	426.7
October	214.9	154.3	1238.3
November	192.3	177.0	206.1
December	217.1	200.3	232.0
Year End	164.4 (Average day)	105.2 (Min. day)	1238.3 (Max. day)

Shadow Ridge Well System – Annual Water Flow Rates for 2020

The Shadow Ridge Well System treated and distributed an average of 201 m³/d, which represents 37% of the approved plant capacity of 550 m³/d. The daily flow rates ranged from a minimum of 98 m³/d to a maximum of 455 m³/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.

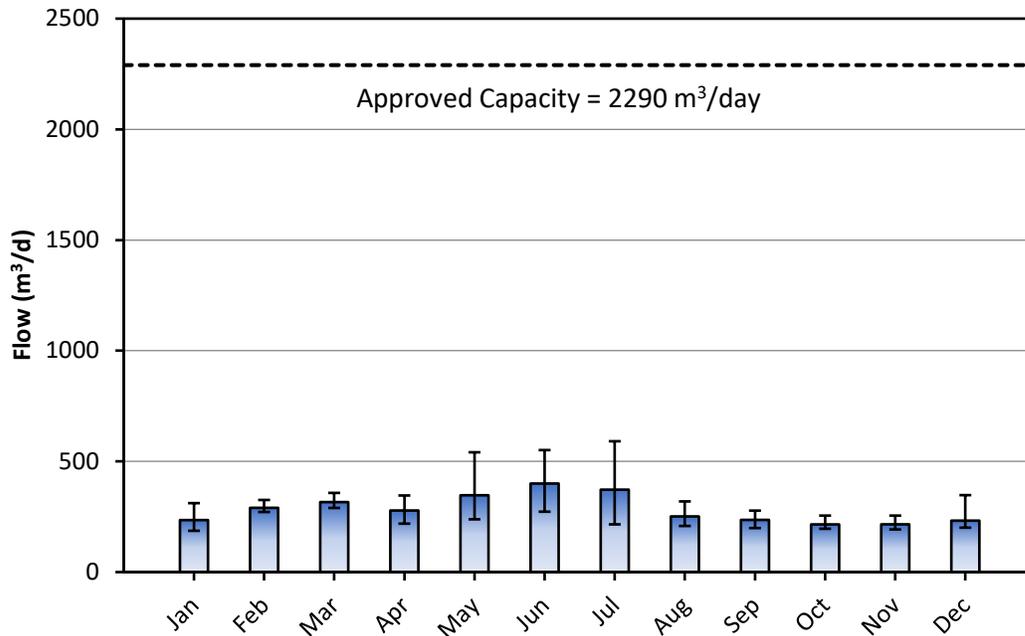


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	163.5	151.1	201.0
February	165.0	153.7	186.1
March	172.5	153.0	192.7
April	183.3	168.3	203.3
May	251.5	180.0	390.5
June	309.6	209.5	454.8
July	297.9	204.2	390.5
August	235.4	186.8	318.2
September	210.2	180.0	237.9
October	186.0	172.7	210.2
November	116.5	97.7	199.3
December	116.8	102.4	148.5
Year End	201.4 (Average day)	97.7 (Min. day)	454.8 (Max. day)

Vars Well System – Annual Water Flow Rates for 2020

The Vars Well System treated and distributed an average of 283 m³/d, which represents 12% of the approved plant capacity of 2290 m³/d. The daily flow rates ranged from a minimum of 187 m³/d to a maximum of 591 m³/d.

The table and graph below summarize the 2020 water production by month, highlighting the minimum, maximum and average daily flows.



Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	235.1	186.7	311.6
February	290.4	271.6	325.9
March	316.3	289.9	357.8
April	278.3	219.0	346.1
May	347.1	238.6	541.3
June	400.1	273.0	551.2
July	372.4	215.6	591.1
August	251.5	208.5	319.4
September	236.0	199.0	277.7
October	215.5	195.8	255.3
November	215.8	192.7	255.3
December	232.5	200.8	347.7
Year End	283.3 (Average day)	186.7 (Min. day)	591.1 (Max. day)