# McGarry Water & Wastewater Systems
# Quarterly Operations Report

Prepared By: The Ontario Clean Water Agency | Prepared for: The Township of McGarry

## SYSTEM OVERVIEW | April 1 to June 30, 2022

### Highlights

*Virginiatown-Kearns Drinking Water System*

- May – annual lifting device inspection and generator maintenance complete.
- May 5 – generator fuel tank replaced by Township of McGarry.
- June 20 – A tower inspection was conducted. The vent and rupture disc is intact. The roof is rusted and there is settled material in the bottom of the tank that should be removed. These issues will be identified in the 2023 capital letter.
- June 21 – External desk-top audit complete. Refer to *Regulatory* below for findings.
- Langelier testing was done on the treated water from the plant and distribution water. This test indicates that the water is aggressive and can cause serious corrosion of the pipes.
- Four (4) water mains break occurred in the second quarter. Refer to "*Incidents*" below for details.
- The stand-by well No. 2 exceeded its allowable rate of taking resulting in a permit to take water (PTTW) exceedance on May 7th and 8th. Refer to "*Incidents*" below for more information.

*McGarry Wastewater Treatment Lagoon*

- From 2021 - The spill at the Lagoon is on-going. Weekly sampling and reporting to the MECP continued in the second quarter. A large amount tracer dye was put into Cells No. 2 and No. 3 on June 6th to try and determine the location of the leak. No colour was observed at the spill site. A dye test for Cell No. 1 is planned for July.
- May – annual lifting device inspection and generator maintenance complete.
- One (1) overflow events occurred this quarter. Refer to Incidents below for details.

### Capital Plan Progress

Status of capital work completed to date in 2022.

| Capital Work – Water Treatment System | Status |
|---|---|
| Generator maintenance | Complete in May |
| Lifting device inspections | Complete in May |
| DWQMS – third party desk-top audit | Complete in June 10 |

| Capital Work - Wastewater Lagoon System | Status |
|---|---|
| Replaced Jockey pump at the V-Town SPS | Complete – January 20, 2022 |
| Generator maintenance | Complete in May |
| Lifting device inspections | Complete in May |

| CAPITAL WORK - WASTEWATER LAGOON SYSTEM | STATUS |
|---|---|
| Spill – dye test | June 6 (Cell 2 & 3) |

## INCIDENTS

*Virginiatown Drinking Water System:*

Three Catergory 2 watermain breaks, one Category 1 watermain break and one permit to take water (PTTW) exceedance occurred in the second quarter.

| Date | Type of Incident | Details |
|---|---|---|
| April 10 | Category 2 Watermain Break, Boil Water Advisory<br><br>(AWQI No. 158168) | Loss of pressure due to a Category 2 watermain break in the community of Kearns (intersection of Lynch Avenue and Highway 66). The main was isolated on April 10th and the repair occurred on April 11th at 0900 hours. The local Health Unit was notified and a precautionary boil water advisory (BWA) was issued for the affected area (60 homes) on April 10th.<br><br>After the repair was complete, the pressure was restored and the area was flushed until acceptable chlorine residuals were achieved. OCWA's OIC oversaw the repair. All materials were disinfected as per the Ministry's Watermain Disinfection procedure. Two sets of 3 bacteriological samples were collected (upstream, downstream and at the site of the break) on April 11th and 12th. Sample results indicated no total coliforms or *E.coli*. BWA was lifted on April 13, 2022 at 1530 hours (3:30 PM). Reported to appropriate authorities as required. |
| April 15 | Category 2 Watermain Break, Boil Water Advisory<br><br>(AWQI No. 158211) | Loss of pressure due to a Category 2 watermain break in the community of Kearns (intersection of Lynch Avenue and Highway 66). The main was isolated on April 15th at 1700 hours and the repair occurred the morning of April 16th. The local Health Unit was notified and a precautionary BWA was issued for the affected area (60 homes) on April 15th.<br><br>After the repair was complete the pressure was restored and the area was flushed until acceptable chlorine residuals were achieved. OCWA's OIC oversaw the repair. All materials were disinfected as per the Ministry's Watermain Disinfection procedure. Two sets of 3 bacteriological samples were collected (upstream, downstream and at the site of the break) on April 16th and 17th. Sample results indicated no total coliforms or *E.coli*. BWA was lifted on April 18, 2022 at approximately1645 hours (4:45 PM). Reported to appropriate authorities as required. |

| Date | Type of Incident | Details |
|---|---|---|
| April 22 | Category 2 Watermain Break, Boil Water Advisory<br><br>(158236) | Category 2 watermain break at Reddick Avenue caused a loss of pressure to approximately 30 homes. Areas affected include: Reddick Avenue, Colville Street and Thompson Street. The 6 " main had a hole caused by corrosion. The main was isolated prior to excavation. The local Health Unit was notified and a precautionary BWA was issued for the affected area.<br><br>After the repair was complete with a repair band, the pressure was restored and the area was flushed until acceptable residuals were achieved. Two sets of 3 bacteriological samples were collected (upstream, downstream and at the site of the break) on April 21st and 22nd. Sample results indicated no total coliforms or *E.coli*. BWA was lifted on April 23, 2022 at approximately1435 hours (2:35 PM). Reported to appropriate authorities as required. |
| June 29 | Category 1 watermain break | blow-out on a 6 inch cast iron main at 133 Government Rd due to deterioration. Repaired using Smith and Blair clamp while system was live. Pipe and repair parts disinfected as per the Ministry's Watermain Disinfection procedure. No sampling required. |
| May 7 & 8 | PTTW Exceedance for Well No. 2 | Stand-by Well No. 2 allowable run time exceeded due to production well left in the 'off' position from May 5$^{th}$ to May 9$^{th}$.<br><br>Allowable runtime for stand-by well is 10 hours per day. Stand-by Well No.2 ran for approximately 11 hours on the May 7$^{th}$ and 10 hours and 25min. on May 8$^{th}$. |

*McGarry Lagoon Sewage Treatment System:*

One sewage overflow occurred in the second quarter.

| Date | Type of Incident | Details |
|---|---|---|
| April 14 | Sewage Overflow<br><br>(SAC Reference No. 1-1RIKBQ) | Approximately 7,000 m$^3$ of wastewater overflowed the Virginiatown sewage pumping station due to heavy rains and snowmelt. The event started at 1919 hours and lasted for approximately 67 hours, terminating on April 17$^{th}$ at 1419 hours. |

## COMPLAINTS

No complaints were documented this quarter.

## CALL-OUT SUMMARY

| | | |
|---|---|---|
| **Number of Call-outs this Quarter:** | 3 (water system) | 2 (sewage lagoon) |
| **Total Call-outs to Date (2022):** | 5 | |
| **Annual Call-out Allowance:** | 8 | |
| **Details of the Call-outs:** | Refer to Appendix A for a call-out summary. | |

Note: Not all call backs are billed to the Owner; depends on the nature of the call.

## REGULATORY

*Inspections:*

- No MECP or MOL inspections were conducted this quarter.

*Quality & Environmental Management System (QEMS)*

- June 21 – External desk-top audit complete. No issues identified. External on-site audit scheduled for July 26th.

*Sampling, Testing and Monitoring*

- Refer to Appendix B for Performance and Compliance Summaries.

*Reporting*

- Annual WSER report completed.

## FLOW SUMMARIES

**Virginiatown-Kearns Water Treatment Plant (Tower Flows)**

| Year | Total Treated Flows ($m^3$) | Average Daily Treated Flow ($m^3/d$) | Maximum Treated Flow ($m^3/d$) | Maximum % of Rated Capacity (2045 $m^3/d$) |
|---|---|---|---|---|
| **Jan. to Jun. 2022** | **91,128** | **503** | **1254** | **61.3%** |
| 2021 | 142,720 | 391 | 789 | 38.6% |
| 2020 | 188,494 | 515 | 889 | 43.5% |
| 2019 | 230,717 | 632 | 991 | 45.5% |
| 2018 | 337,340 | 924 | 1870 | 91.4% |

**McGarry Lagoon**

| Year | Total Influent Flow ($m^3$) | Maximum Influent Flow ($m^3/d$) | Average Daily Influent Flow ($m^3/d$) | Average Day % of Design Capacity (1135 $m^3/d$) |
|---|---|---|---|---|
| **Jan. to Jun. 2022** | **232,172** | **6617** | **1283** | **113%** |
| 2021 | 349,792 | 10,000 | 958 | 84.4% |
| 2020 | 476,828 | 6191 | 1303 | 115% |
| 2019 | 475,681 | 7585 | 1303 | 115% |
| 2018 | 575,627 | 7896 | 1580 | 139% |

Refer to Appendix C for historical flow trends which compare flows from 2018 to June 2022.

## HEALTH AND SAFETY

- All safety equipment at each plant was checked monthly to ensure that they are in good working order.

- Health and Safety Training/Sessions completed this quarter include:
- Health and Safety Training/Sessions completed this quarter include:
  - ✓ Emergency Showers and Eyewash Stations
  - ✓ Ladder Safety
  - ✓ Facility Emergency Plan Review

# APPENDIX A

Call-Out Summary

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# Workorder Summary Report

| | |
|---|---|
| Report Start Date: | Apr 1, 2022 12:00 AM |
| Report End Date: | Jun 30, 2022 11:59 PM |
| Location: | 5085* |
| Work Order Type: | CALL, |
| Work Order Class: | |

| | | | | WorkOrder | | PM Schedule | | Workorder Details | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WO # | Asset ID | Asset Description | Location Description | Type | Class | FEQ | Units | Work Order Description | Status | Schedule Start | Actual Start | Actual Finsh | WorkLog Detail |
| 2774634 | | | 5085, McGarry WTP Pump House, Facility | CALL | Compliance | 0 | | McGarry watermain break BWA issued | CLOSE | | 4/10/22 01:00 PM | 4/10/22 05:00 PM | McGarry watermain break BWA issued<br>-<br>Gord from Mcgarry called to inform me of a watermain break between vtown and kerns causing loss of pressure.60 homes were affected as a result of this.<br><br>I contacted the THU who issued a BWA.<br><br>Reported incident to MOE SAC<br><br>ORO anthony danis was notified.<br><br>i filled out the AWQI form and sent it to all apropriate people.<br><br>AWQI # 158168 |
| 2775209 | | | 5085, McGarry WTP Tower, Facility | CALL | Compliance | 0 | | McGarry DWS BWA AWQI 158236 5085 | COMP | | 4/26/22 11:37 AM | 4/26/22 11:37 AM | McGarry DWS BWA 5085<br>- Worked with lab, MOH and Town to lift BWA on Reddick Ave. BWA issued due to a Category 2 water main break |

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# Workorder Summary Report

| | |
|---|---|
| Report Start Date: | Apr 1, 2022 12:00 AM |
| Report End Date: | Jun 30, 2022 11:59 PM |
| Location: | 5085* |
| Work Order Type: | CALL, |
| Work Order Class: | |

| | | | | WorkOrder | | PM Schedule | | Workorder Details | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WO # | Asset ID | Asset Description | Location Description | Type | Class | FEQ | Units | Work Order Description | Status | Schedule Start | Actual Start | Actual Finsh | WorkLog Detail |
| 2775211 | | | 5085, McGarry WTP Tower, Facility | CALL | Compliance | 0 | | McGarry DWS AWQI 158211 BWA , 5085 | COMP | | 4/15/22 07:30 AM | 4/15/22 03:15 PM | - Trends show water main break occurred at 0305am.<br>Operators became aware of the break at 0730am.<br>Positive pressure was maintained until 17:00hrs<br>McGarry DWS BWA 5085<br>-<br>Water Main Break at the intersection of Lynch Ave and Hwy 66.<br>Second break in that area in past few days affecting 60 + houses.<br>Complete isolation of 60 + homes was required to prevent further erosion of highway 66.<br>A Pre-cautionary Boil Water Advisory issued because of loss of pressure.<br>2 sets of bacterial samples required 24 hours apart prior to lifting the boil water advisory<br><br>McGarry DWS AWQI 158211 BWA , 5085<br>- Worked with lab, MOH, operator and Town to lift the BWA in Kearns |
| 2775742 | | | 5085, McGarry WTP Tower, Facility | CALL | Compliance | 0 | | | COMP | | 4/21/22 01:09 PM | 4/21/22 01:09 PM | |

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# Workorder Summary Report

| | |
|---|---|
| Report Start Date: | Apr 1, 2022 12:00 AM |
| Report End Date: | Jun 30, 2022 11:59 PM |
| Location: | 1022* |
| Work Order Type: | CALL, |
| Work Order Class: | |

| | | | | WorkOrder | | PM Schedule | | Workorder Details | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WO # | Asset ID | Asset Description | Location Description | Type | Class | FEQ | Units | Work Order Description | Status | Schedule Start | Actual Start | Actual Finsh | WorkLog Detail |
| 2817380 | 0000247069 | PUMP DIAPHRAGM 2 ALUM PUMP | 1022, V Town Pumping Station, Process | CALL | Refurbish/ Replace/Repair | 0 | | ALARM - SPS alum pump Fault 1022 | COMP | | 5/1/22 08:30 AM | 5/1/22 12:30 PM | ALARM - SPS alum pump Fault 1022<br>-<br>found the pump faulted as a result of the day tank being empty .<br>I delivered more Alum and filled the day tank.<br>restart the pump.<br>normal ops resumed. |
| 2824758 | | | 1022, V Town Pumping Station | CALL | Refurbish/ Replace/Repair | 0 | | Chemical Pump Failed Alarm, 1022 | COMP | | 5/28/22 06:00 PM | 5/28/22 10:00 PM | Chemical Pump Failed Alarm, 1022<br>-<br>Chemical pump failed of over pressure.<br>- purged addition line and primed both pumps<br>- reset faulted pump |

# APPENDIX B

Performance & Compliance Summaries

# MCGARRY DRINKING WATER SYSTEM
## Quarterly Data Report

**Q2: April 1 to June 30, 2022**

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| McGarry Drinking Water System | | April | May | June | Compliance |
|---|---|---|---|---|---|
| **Flows** | | | | | |
| Total Raw Flow - Max. Daily Volume | $m^3/d$ | 1299 | 819 | 662 | Max. = 2044.8 |
| Well 1 Flow - Maximum Daily Volume | $m^3/d$ | 1299 | 819 | 662 | Max. = 2044.8 |
| Well 1 Flow - Maximum Flow Rate | L/min | 1402 | 1410 | 1415 | Max. = 1420 |
| Well 2 Flow - Maximum Daily Volume | $m^3/d$ | 99 | 669 | 112 | Max. = 1500 |
| Well 2 Flow - Maximum Flow Rate | L/min | 1100 | 1098 | 1100 | Max. = 1105 |
| Tower Flow - Maximum Daily Volume | $m^3/d$ | 1254 | 702 | 480 | Max. = 2045 |
| Tower Flow - Maximum Flow Rate | L/min | 1733 | 2093 | 1338 | N/A |
| | | | | | |
| Well 1 Total Coliforms - Maximum | c/100mL | 0 | 0 | 0 | N/A |
| Well 1 *E.coli* - Maximum | c/100mL | 0 | 0 | 0 | N/A |
| Well 2 Total Coliforms - Maximum | c/100mL | 0 | 0 | 0 | N/A |
| Well 2 *E.coli* - Maximum | c/100mL | 0 | 0 | 0 | N/A |
| Well 1 Turbidity - Maximum | NTU | 0.344 | 0.193 | 0.161 | N/A |
| Well 2 Turbidity - Maximum | NTU | 0.508 | 0.631 | 0.920 | N/A |
| | | | | | |
| Free Chlorine Residual - Minimum | mg/L | 1.08 | 0.664 | 0.484 | Min. = 0.10 (CT) [1] |
| Total Coliforms - Maximum | c/100mL | 0 | 0 | 0 | Max. = 0 |
| *E.coli* - Maximum | c/100mL | 0 | 0 | 0 | Max. = 0 |
| Nitrite | mg/L | < 0.01 | - | - | Max. = 1 |
| Nitrate | mg/L | 0.1 | - | - | Max. = 10 |
| | | | | | |
| Free Chlorine Residual - Minimum | mg/L | 0.78 | 0.88 | 0.48 | Min. = 0.05 |
| Total Coliforms - Maximum | c/100mL | 0 | 0 | 0 | Max. = 0 |
| *E.coli* - Maximum | c/100mL | 0 | 0 | 0 | Max. = 0 |
| Trihalomethanes (THMs) | µg/L | 1.6 | - | - | Max. = 100 µg/L (RAA) [2] |
| Haloacetic Acids (HAAs) | µg/L | < 8 | - | - | Max. = 80 µg/L (RAA) [3] |

# MCGARRY DRINKING WATER SYSTEM
# Quarterly Data Report

**Q2: April 1 to June 30, 2022**

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| **Distribution Water** | | | | | |
|---|---|---|---|---|---|
| Lead – Maximum | µg/L | - | - | N/A | Max. = 10 µg/L [4] |
| Alkalinity - Maximum | mg/L | - | - | - | N/A [5] |
| pH - Average | mg/L | - | - | - | N/A [5] |

**Notes:**

**1** CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Virginiatown-Kearns water plant if the free chlorine residual level drops below 0.10 mg/L to ensure primary disinfection is achieved. Primary disinfection was achieved this quarter.

**2** Maximum Allowable Concentration (MAC) for Trihalomethanes (THMs) = 100 ug/L (Four Quarter Running Average). The annual running average to the end of the quarter = 2.08 ug/L

**3** Maximum Allowable Concentration (MAC) for Haleoacetic Acids (HAAs) = 80 ug/L (Four Quarter Running Average). The annual running average to the end of the quarter = 8.5 ug/L

**4** Lead testing required every 3 year. Next sampling due in 2023.

**5** Alkalinity and pH testing required twice per year. Next sampling due in September 2022.

# McGARRY WASTE WATER SYSTEM
# Quarterly Data Report

**Q2: April 1 to June 30, 2022**

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

| McGarry Waste Water System | | April | May | June | Compliance |
|---|---|---|---|---|---|
| **Flows** | | | | | |
| Influent – Average Daily Flow | $m^3/d$ | 3312 | 1635 | 1081 | Average = 1135 |
| Influent – Maximum Daily Flow | $m^3/d$ | 6617 | 5291 | 2704 | N/A |
| Effluent – Average Daily Flow | $m^3/d$ | 3200 [1] | 1598 [1] | 822 | Average = 1135 |
| Effluent – Maximum Daily Flow | $m^3/d$ | 4975 | 3023 | 2487 | N/A |
| **Influent** | | | | | |
| $BOD_5$ – Average | mg/L | 1.8 | 9.4 | 11 | N/A |
| Total Suspended Solids (TSS) – Average | mg/L | 2 | 22.5 | < 1 | N/A |
| Total Phosphorus (TP) – gAverage | mg/L | 0.077 | 0.243 | 0.124 | N/A |
| Total Ammonia (TKN) – Average | mg/L | 10.6 | 2.2 | 2 | N/A |
| **Effluent** [2] | | | | | |
| $cBOD_5$ – Average | mg/L | < 0.938 | < 1.29 | < 1.17 | Monthly Average = 25 |
| $cBOD_5$ Loading | kg/d | < 3 | < 2.06 | < 1.03 | Monthly Average = 28.4 |
| TSS – Average | mg/L | 1.63 | <6.60 | < 2.64 | Monthly Average = 25 |
| TSS Loading | kg/d | 5.2 | < 10.546 | < 2.331 | Monthly Average = 28.4 |
| TP – Average | mg/L | 0.110 | 0.188 | 0.105 | Monthly Average = 0.5 |
| TP Loading | kg/d | 0.351 | 0.300 | 0.093 | Monthly Average = 0.6 |
| Total Ammonia Nitrogen (TAN) – Average | mg/L | < 0.939 | < 0.423 | < 0.560 | Monthly Average = 5 |
| TAN Loading | kg/d | < 3.004 | < 0.676 | < 0.494 | Monthly Average = 5.7 |
| *E.coli* (geometric mean) | cfu/100mL | 547.745 | 26.173 | 19.392 | N/A |

**Notes:**

1 High flows in April and May due to rain and snow melt.

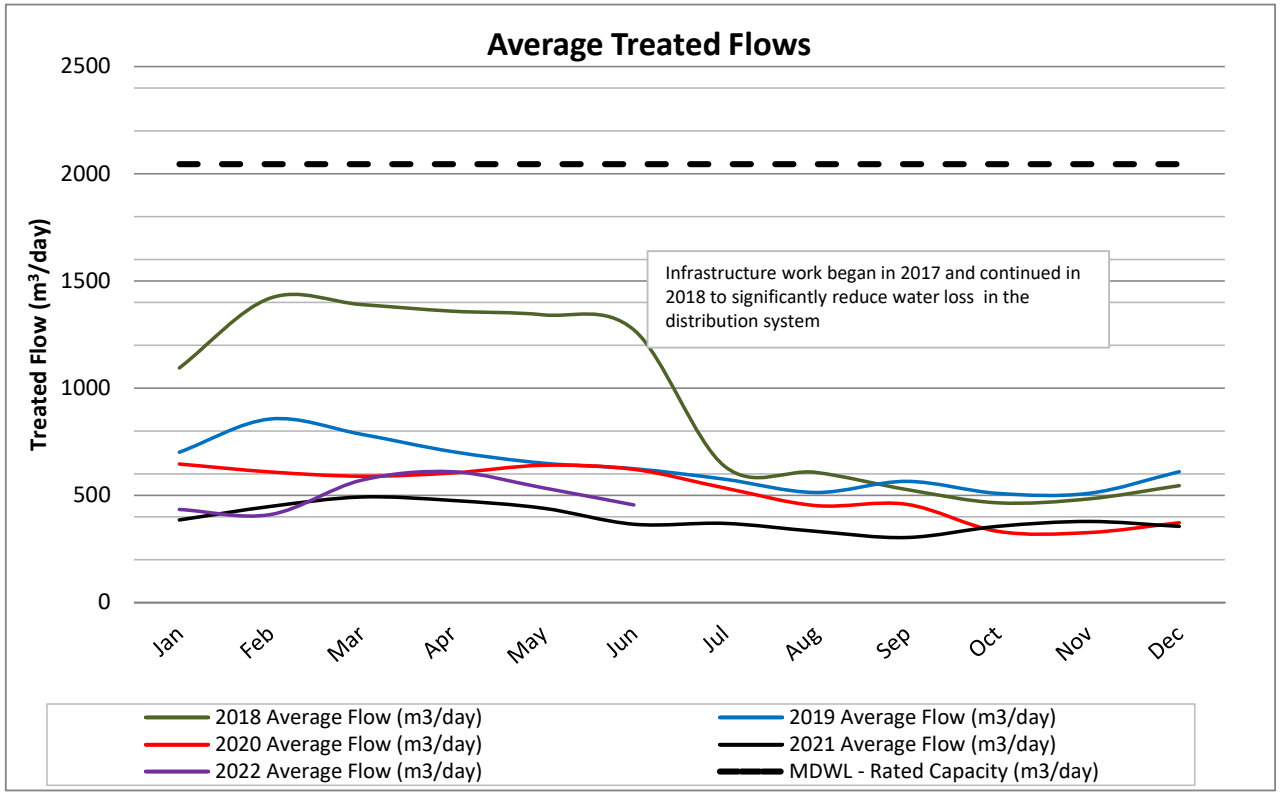
2 Effluent data also includes results from a suspected spill discharging from near the side of the lagoon which was observed in November 2021. MECP requested that the spill material be tested weekly and the results be included as part of the effluent results.

# APPENDIX C

Historical Flow Trends

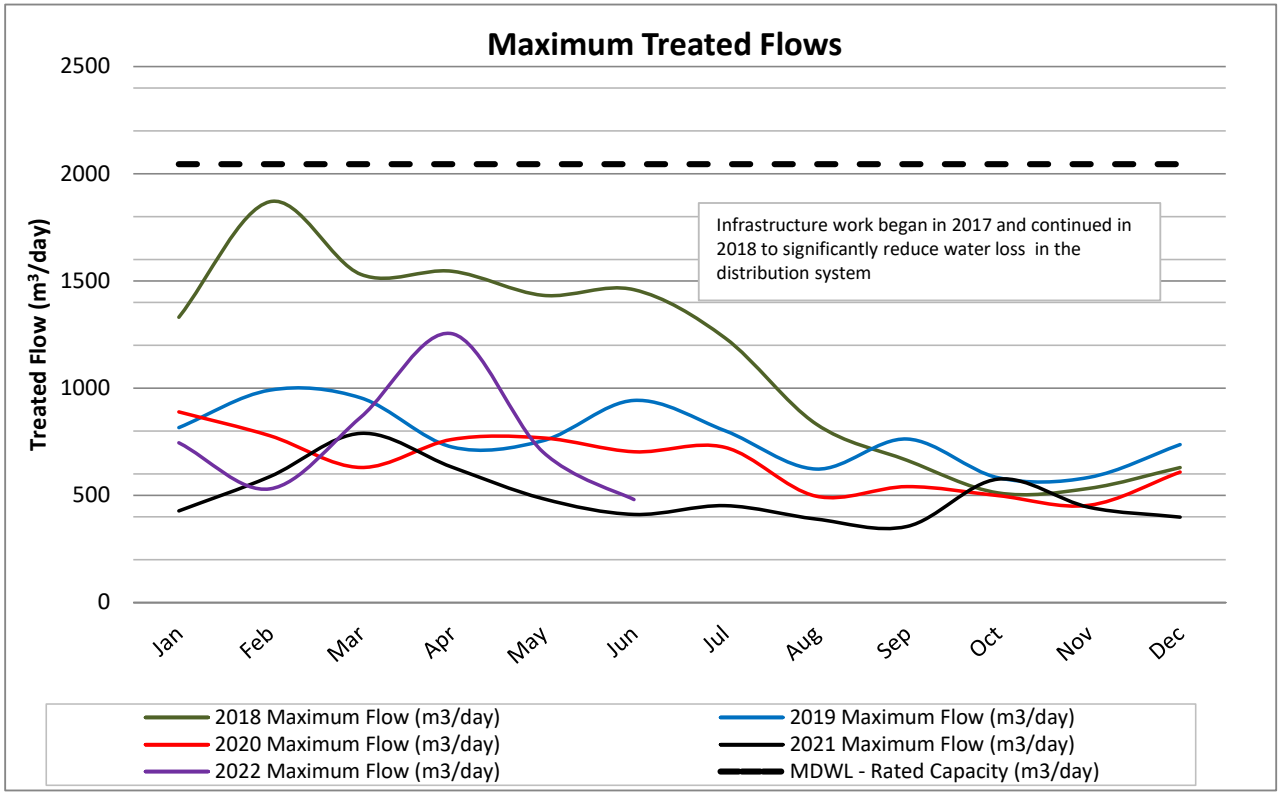
**Virginiatown-Kearns Water Treatment System - Average Treated Water Tower Flows from 2018 to 2022**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2018 Average Flow ($m^3$/day)* | 1094 | 1420 | 1390 | 1359 | 1342 | 1272 | 635 | 607 | 527 | 465 | 483 | 545 |
| *2019 Average Flow ($m^3$/day)* | 701 | 856 | 785 | 704 | 650 | 624 | 575 | 513 | 565 | 509 | 509 | 610 |
| *2020 Average Flow ($m^3$/day)* | 646 | 609 | 589 | 604 | 640 | 621 | 534 | 452 | 458 | 332 | 326 | 372 |
| *2021 Average Flow ($m^3$/day)* | 385 | 448 | 492 | 476 | 440 | 365 | 369 | 332 | 303 | 355 | 378 | 355 |
| *2022 Average Flow ($m^3$/day)* | 434 | 410 | 570 | 610 | 535 | 455 | | | | | | |
| *MDWL - Rated Capacity ($m^3$/day)* | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 |



**Virginiatown-Kearns Water Treatment System - Maximum Treated Water Tower Flows from 2018 to 2022**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2018 Maximum Flow ($m^3$/day)* | 1331 | 1870 | 1531 | 1545 | 1433 | 1459 | 1234 | 833 | 663 | 511 | 532 | 629 |
| *2019 Maximum Flow ($m^3$/day)* | 816 | 991 | 954 | 725 | 755 | 943 | 801 | 622 | 763 | 582 | 584 | 737 |
| *2020 Maximum Flow ($m^3$/day)* | 889 | 778 | 630 | 761 | 768 | 703 | 724 | 496 | 541 | 499 | 454 | 608 |
| *2021 Maximum Flow ($m^3$/day)* | 427 | 587 | 789 | 632 | 484 | 411 | 452 | 389 | 355 | 576 | 444 | 398 |
| *2022 Maximum Flow ($m^3$/day)* | 745 | 530 | 865 | 1254 | 702 | 480 | | | | | | |
| *MDWL - Rated Capacity ($m^3$/day)* | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 | 2045 |



**McGarry Lagoon - Average Influent Flows from 2018 to 2022**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2018 Average Flow ($m^3$/day)* | 1304 | 1457 | 1459 | 2244 | 2394 | 1837 | 1017 | 1141 | 1766 | 2434 | 1187 | 729 |
| *2019 Average Flow ($m^3$/day)* | 769 | 874 | 1118 | 2679 | 3352 | 1611 | 696 | 699 | 849 | 1117 | 1064 | 802 |
| *2020 Average Flow ($m^3$/day)* | 683 | 632 | 802 | 3533 | 1840 | 1322 | 1255 | 775 | 1156 | 1975 | 1236 | 447 |
| *2021 Average Flow ($m^3$/day)* | 447 | 422 | 1519 | 1653 | 1148 | 824 | 2024 | 608 | 981 | 690 | 524 | 634 |
| *2022 Average Flow ($m^3$/day)* | 412 | 389 | 839 | 3311 | 1635 | 1081 | | | | | | |
| *ECA - Rated Capacity ($m^3$/day)* | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 | 1135 |