

The Maples Annual Summary 2021

Executive Summary

Schedule 22 of Ontario Regulation 170/03 requires that summary reports are prepared and given to members of council by March 31st of each year. The report must include any requirements of the Act, Regulations, Permits, licenses or orders not met and the actions taken to correct the failure. In addition, a summary of flow rates and quantities compared to the approved capacities are provided to assess the capability of the system to meet existing and planned uses of the system.

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Staffing & Licencing

| Name | Position | Licence |
|------------------|----------------------|-----------------------------------------|
| Curtis Whitteker | ORO | Class 2 (65358) |
| Gerald Whitteker | Operator | Limited Surface Water Subsystem (95112) |
| Brittany Loucks | Operator in Training | OT113705 |
| Raven Hill | Operator in Training | OT112839 |
| Vince Lauzon | Operator | Class 3(91130) |

Inspection Reports

An inspection was done in November 2021 and there were no Non-Compliances.

Tabulation of Monitoring Data

Presently there is no equipment installed to capture and record instantaneous flows. However, the UV is designed with a restrictor to limit the maximum flow to 16.5GPM as per the Certificate of Approval. DWWP maximum is 162 m³/Day.

The treated and raw water flow has been calculated based on the following assumptions:

- Softener regeneration requires approximately 60 USG of water per regeneration.
- Softener regenerates every 4 days. This is roughly 91.25 regenerations per year or 7.58 regenerations per month or 15 USG per day.
- 60 USG * 7.58 monthly regenerations equals 454.8 USG of raw water used for regenerating the water softener each month.

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- Once per calendar month a sprinkler system flow alarm is tested by opening a raw water faucet and running water onto the ground outside. The water flows through a pipe with a one inch inside diameter. The water pressure in the pipe is set at approximately 52psi. The water travels approximately 14.6 meters and the valve is open for approximately 35 seconds. Therefore the estimated volume of water used is 46 liters (12 USG) per test or 0.4 USG per day.
- To determine the raw water flow we have added the monthly sprinkler volume (12 USG) and the water softener regeneration volume (454.8 USG) to the Treated Water Flow.

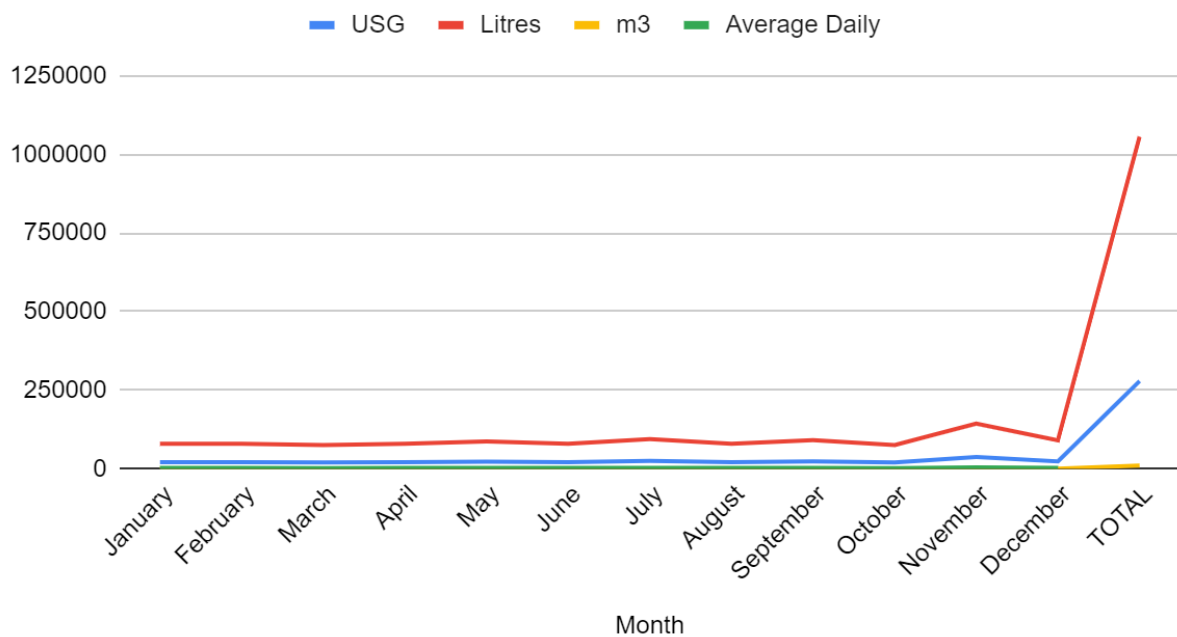
FLOW DATA

| Date | # of Days | Raw Water Flow | | | | | Treated Water Flow | | | |
|------------|-----------|----------------|---------------|-----------|----------|--------------|--------------------|----------|--------------|------------------------------|
| | | Current Flow | Previous Flow | Total USG | Total M3 | Ave daily m3 | Total USG | Total M3 | Ave Daily M3 | Rated Capacity 162m3 per Day |
| 12/27/2020 | | 1302 | | | | | | | | |
| 1/12/2021 | 16 | 1313 | 1302 | 11000 | 41.635 | 2.60 | 11015.4 | 41.693 | 2.61 | 162 |
| 1/26/2021 | 14 | 1323 | 1313 | 10000 | 37.850 | 2.70 | 10015.4 | 37.908 | 2.71 | 162 |
| 2/8/2021 | 13 | 1333 | 1323 | 10000 | 37.850 | 2.91 | 10015.4 | 37.908 | 2.92 | 162 |
| 2/23/2021 | 15 | 1344 | 1333 | 11000 | 41.635 | 2.78 | 11015.4 | 41.693 | 2.78 | 162 |
| 3/8/2021 | 13 | 1353 | 1344 | 9000 | 34.065 | 2.62 | 9015.4 | 34.123 | 2.62 | 162 |
| 3/23/2021 | 15 | 1364 | 1353 | 11000 | 41.635 | 2.78 | 11015.4 | 41.693 | 2.78 | 162 |
| 4/6/2021 | 14 | 1375 | 1364 | 11000 | 41.635 | 2.97 | 11015.4 | 41.693 | 2.98 | 162 |
| 4/20/2021 | 14 | 1385 | 1375 | 10000 | 37.850 | 2.70 | 10015.4 | 37.908 | 2.71 | 162 |
| 5/3/2021 | 13 | 1396 | 1385 | 11000 | 41.635 | 3.20 | 11015.4 | 41.693 | 3.21 | 162 |
| 5/18/2021 | 15 | 1408 | 1396 | 12000 | 45.420 | 3.03 | 12015.4 | 45.478 | 3.03 | 162 |
| 6/2/2021 | 15 | 1420 | 1408 | 12000 | 45.420 | 3.03 | 12015.4 | 45.478 | 3.03 | 162 |
| 6/15/2021 | 13 | 1430 | 1420 | 10000 | 37.850 | 2.91 | 10015.4 | 37.908 | 2.92 | 162 |
| 6/29/2021 | 14 | 1441 | 1430 | 11000 | 41.635 | 2.97 | 11015.4 | 41.693 | 2.98 | 162 |
| 7/13/2021 | 14 | 1455 | 1441 | 14000 | 52.990 | 3.79 | 14015.4 | 53.048 | 3.79 | 162 |
| 7/27/2021 | 14 | 1466 | 1455 | 11000 | 41.635 | 2.97 | 11015.4 | 41.693 | 2.98 | 162 |
| 8/10/2021 | 14 | 1478 | 1466 | 12000 | 45.420 | 3.24 | 12015.4 | 45.478 | 3.25 | 162 |

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|------------|----|------|------|-------|--------|------|---------|--------|------|-----|
| 8/24/2021 | 14 | 1487 | 1478 | 9000 | 34.065 | 2.43 | 9015.4 | 34.123 | 2.44 | 162 |
| 9/8/2021 | 15 | 1498 | 1487 | 11000 | 41.635 | 2.78 | 11015.4 | 41.693 | 2.78 | 162 |
| 9/21/2021 | 13 | 1511 | 1498 | 13000 | 49.205 | 3.79 | 13015.4 | 49.263 | 3.79 | 162 |
| 10/4/2021 | 13 | 1521 | 1511 | 10000 | 37.850 | 2.91 | 10015.4 | 37.908 | 2.92 | 162 |
| 10/17/2021 | 13 | 1531 | 1521 | 10000 | 37.850 | 2.91 | 10015.4 | 37.908 | 2.92 | 162 |
| 11/2/2021 | 17 | 1546 | 1531 | 15000 | 56.775 | 3.34 | 15015.4 | 56.833 | 3.34 | 162 |
| 11/17/2021 | 15 | 1558 | 1546 | 12000 | 45.420 | 3.03 | 12015.4 | 45.478 | 3.03 | 162 |
| 11/29/2021 | 12 | 1569 | 1558 | 11000 | 41.635 | 3.47 | 11015.4 | 41.693 | 3.47 | 162 |
| 12/13/2021 | 14 | 1581 | 1569 | 12000 | 45.420 | 3.24 | 12015.4 | 45.478 | 3.25 | 162 |
| 12/28/2021 | 15 | 1593 | 1581 | 12000 | 45.420 | 3.03 | 12015.4 | 45.478 | 3.03 | 162 |

USG, Litres, m3 and Average Daily



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Summary of Maintenance

- Replacement of UV lamps
- Replacement of filters
- UV sensor verification

Information

N/A