

Water and Wastewater Department

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Water conservation and demand
management

Water Security Projects

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- Alternate intake at Drumsara
 - Detailed design complete
 - Permits for construction and extraction licence
- Bulk raw water storage 1 GI
 - Feasibility study underway
- Smart water meters
 - First phase Port Douglas to Mowbray valley

Water Security Projects

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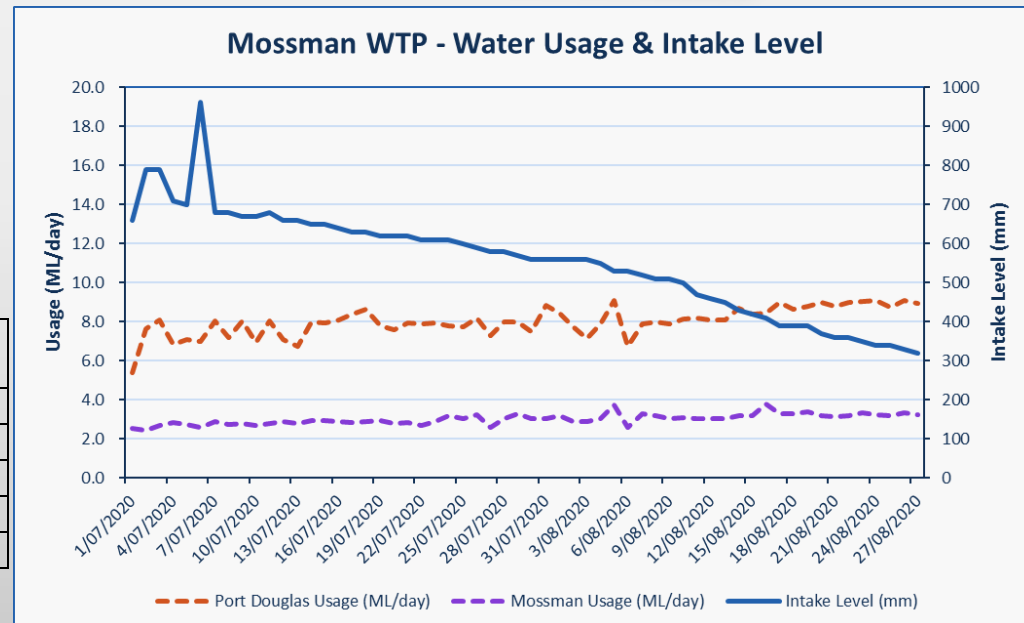
- Leak detection program
 - Utilising tools to locate and repair leaks in aging infrastructure
 - Progressively locating and removing illegal connections
- Mains renewal program
 - Replacing large sections of end of life mains
 - Mowbray valley main just completed
- Significant capital works expenditure on maintaining and improving water security > \$5 million in W&WW projects

Current Water Conservation Tools

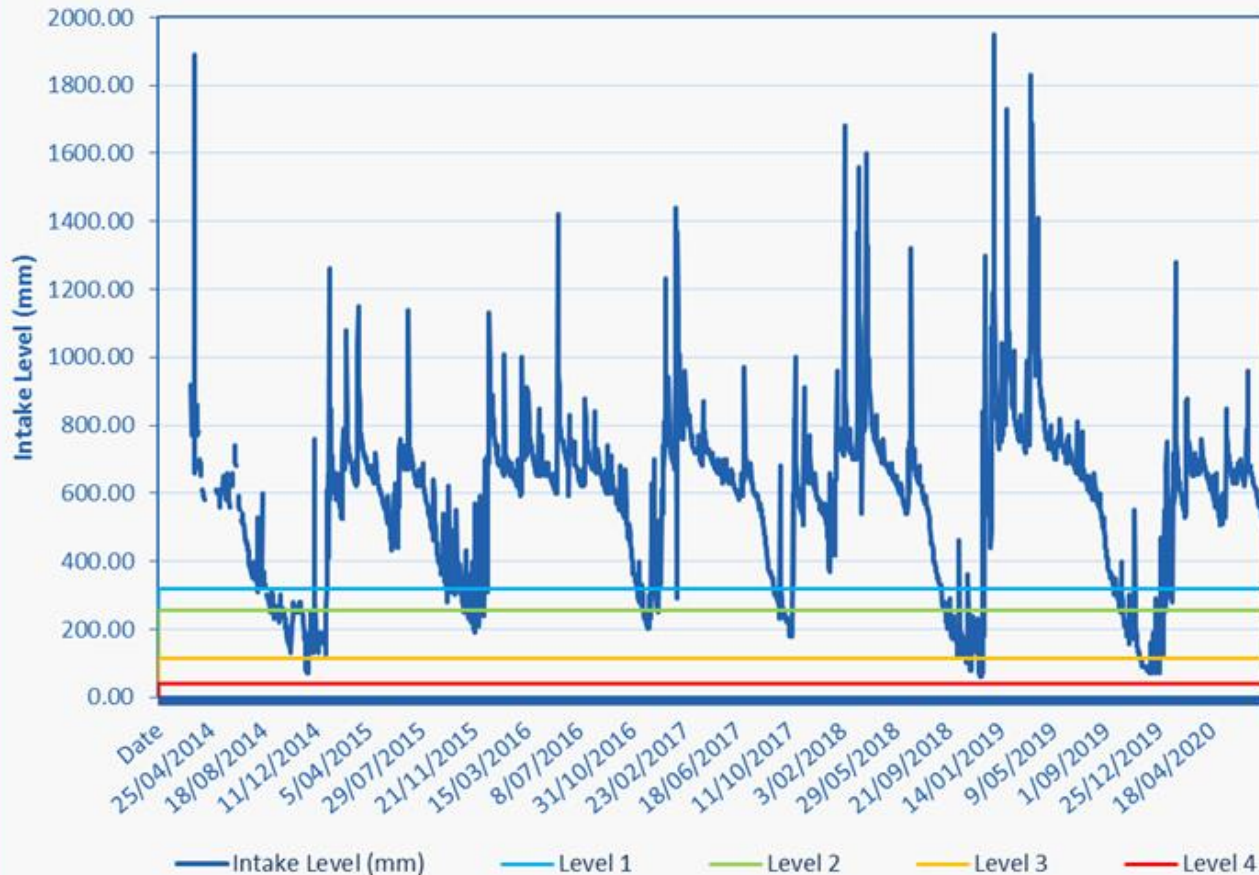
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- Water education
- Water restrictions

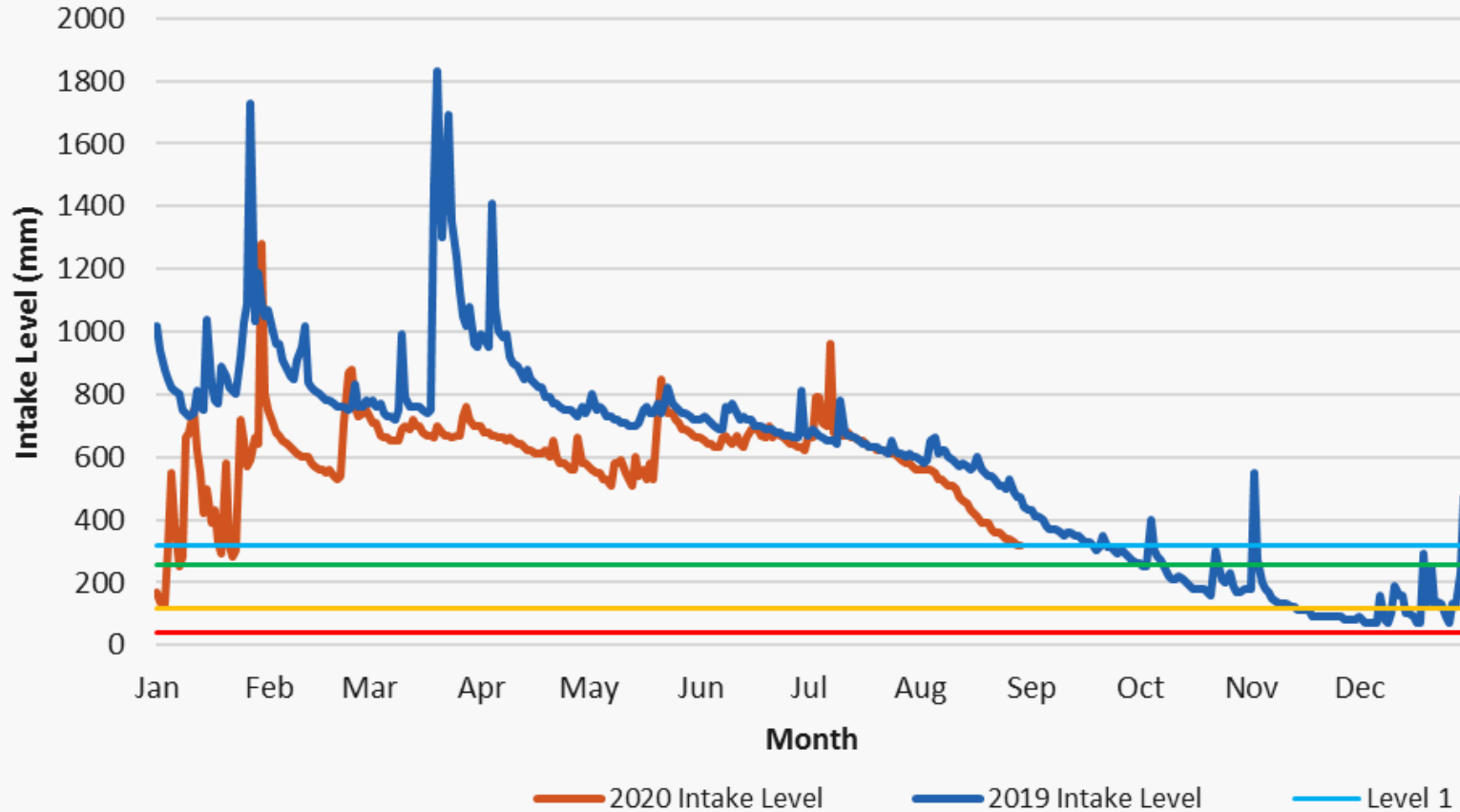
Restriction Level	Intake Level	Creek Flow Rate	Extraction Flow Rate	Max Daily Extraction
1	320	701-739	370	31.97
2	256	551-600	300	25.92
3	115	301-350	175	15.12
4	41	201-250	125	10.80
	mm	l/s	l/s	ML/d



Water Restriction Levels vs. Rex Creek Intake Level

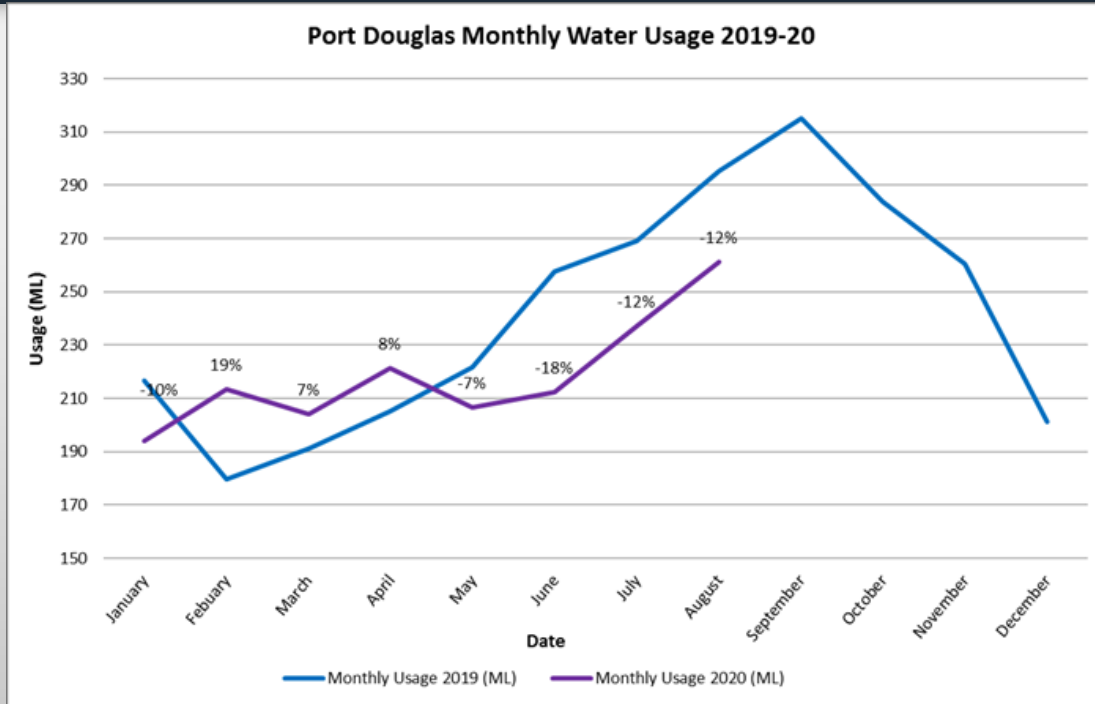


Rex Creek Intake Level 2019-2020



Port Douglas water use 19-20

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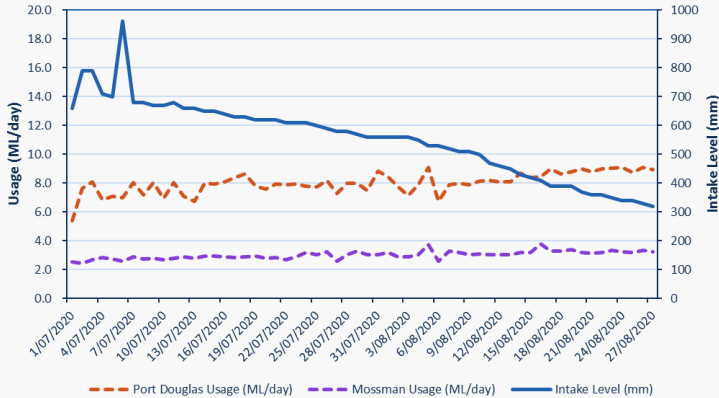
Water Restriction Exemptions

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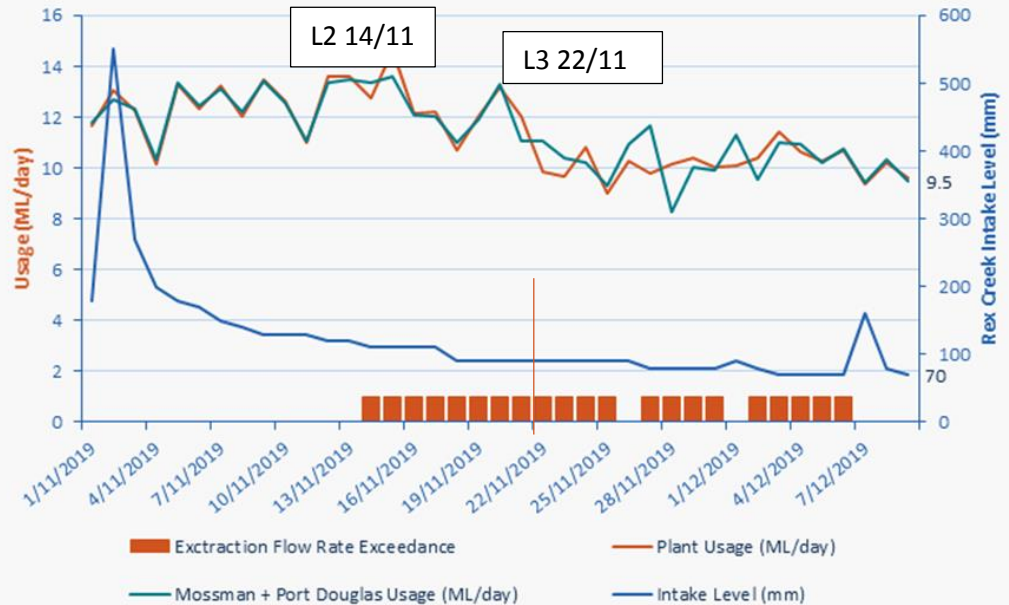
- To allow businesses who implement water conservation measures to keep operating.
- Landscape industry and residents use for timer controlled irrigation systems they manage.
- Application form and assessed on individual basis.

The Challenge

Mossman WTP - Water Usage & Intake Level



Mossman WTP - Usage vs. Intake Level



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Level 0 - Water Conservation Measures – For Discussion

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Concept for introduction in 2021 to assist with water conservation habits before water restrictions are required.

For example - Level 0 - Water conservation measures

Water conservation measures promote responsible and efficient use of town water. Watering in the cool of the day ensures low evaporation rates and by alternating watering times between odd and even numbered houses we are supporting the sustainable use of water.

Watering and sprinkler times

- Water conservation measures are in place for private gardens and commercial watering. Make sure you only irrigate your garden within the following times:
- Odd-numbered houses permitted to use sprinklers on Tuesday, Thursday and Saturday between the hours of 7pm and 7am.
- Even-numbered houses permitted to use sprinklers on Wednesday, Friday and Sunday between the hours of 7pm and 7am.
- No sprinkler use permitted on Monday.
- Hand-held hoses with a trigger nozzle, watering cans and buckets can be used at any time.

Water Education

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- Still in its infancy at DSC
- Australian Water Association and QLD Government resources available
- Updating and developing resources



Questions

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