

PATHWAYS TO WATER QUALITY IMPROVEMENTS IN THE MYRTLE CREEK SUB-CATCHMENT

MYRTLE CREEK CATCHMENT SAMPLES 2020/2021

Samples collected across 14 weeks from 29 October 2020 to 28 January 2021.

Samples collected from:

- Blair - Myrtle Creek crossing on Blair Road.
- Drain - Up River Road drain.
- Gunna Go - next to Gunna Go Caravan Park. At the first Myrtle Creek crossing on the Bruce Hwy heading North from Proserpine (after Up River Drain enters Myrtle Creek).
- Canta - Cantamessa's crossing.

All results are estimates. One grab sample taken weekly at each site. No flow at Blair site on week 8.

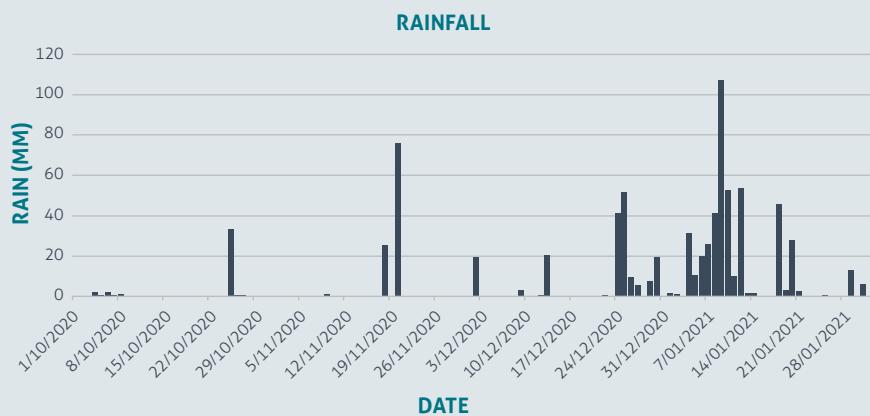


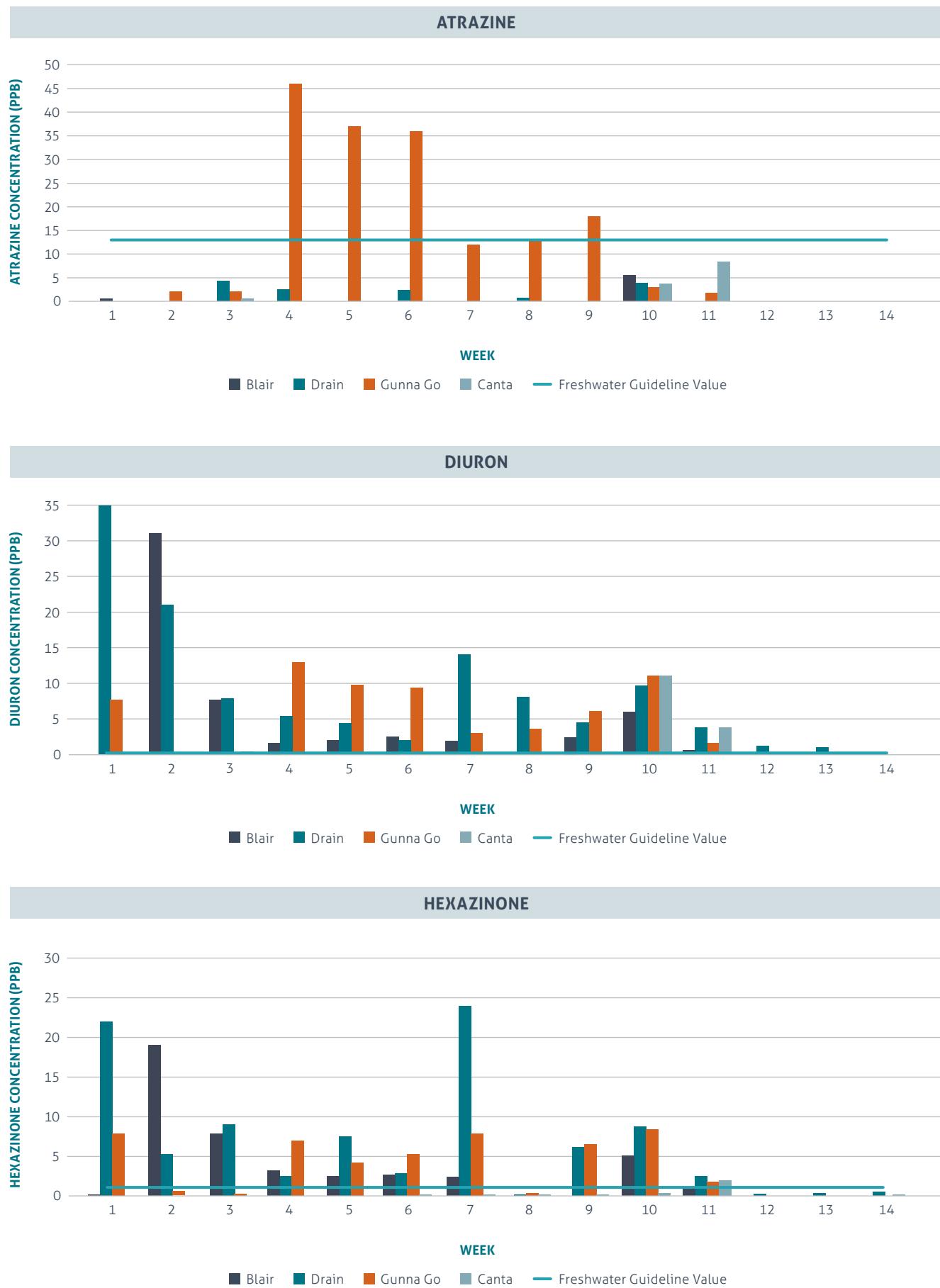
Figure 1 Total rainfall at Wandarra weather station from 1 October 2020 to 31 January 2021: 781.2 mm



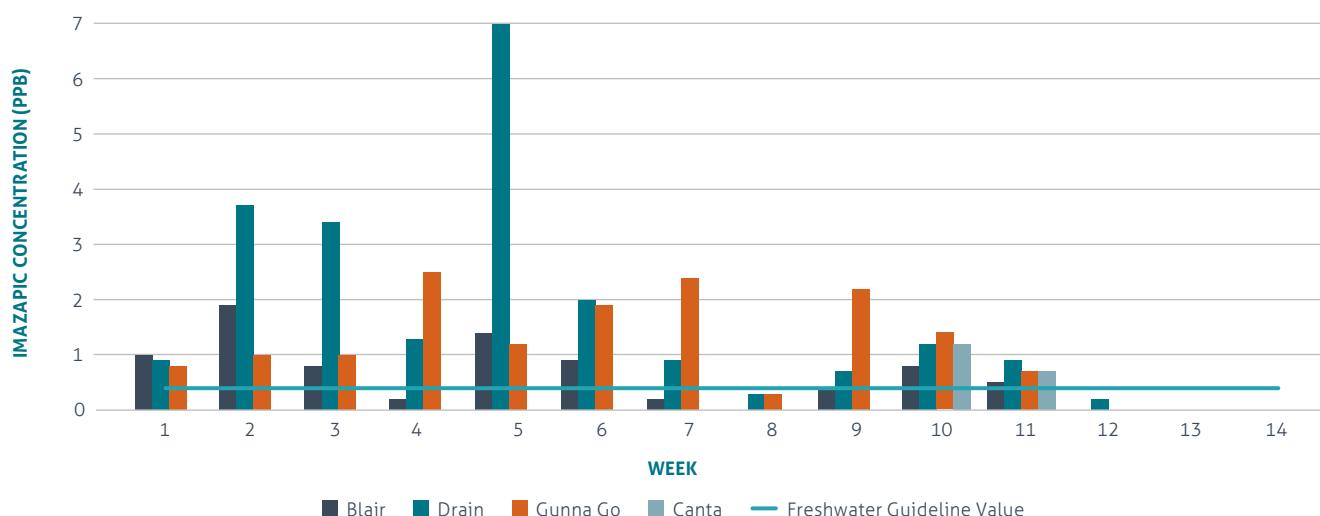
Figure 2 Google Earth image of sample locations.

The following graphs show the concentration of pesticide in grab samples collected from "Blair", "Drain", "Gunna Go" and "Canta" sampling locations across 14 weeks from 29 October 2020 to 28 January 2021. The freshwater guideline value is the aquatic ecosystem protection guideline value at the 95% species protection level.

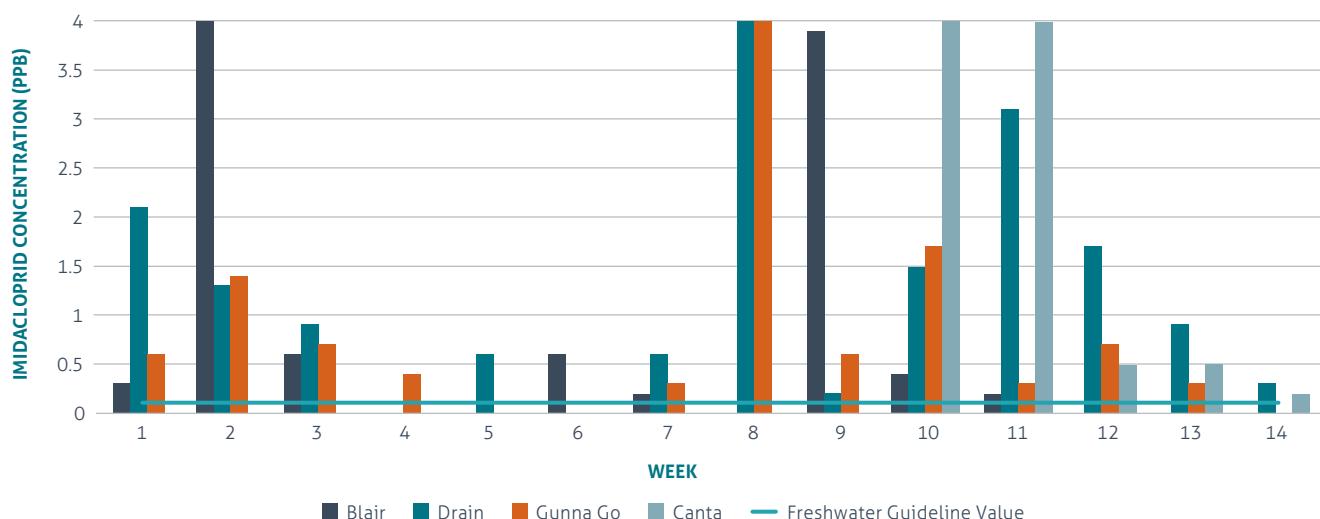
DIN and FRP concentrations at all three sampling locations are presented. The Mackay Whitsunday Water Quality Plan's DIN water quality in "event current conditions" (as at 2014) is 0.429 ppm and the 2021 event target is 0.300 ppm. FRP water quality in "event current conditions" (as at 2014) is 0.200 ppm and the 2021 event target is 0.193 ppm. These values are provided for reference only.



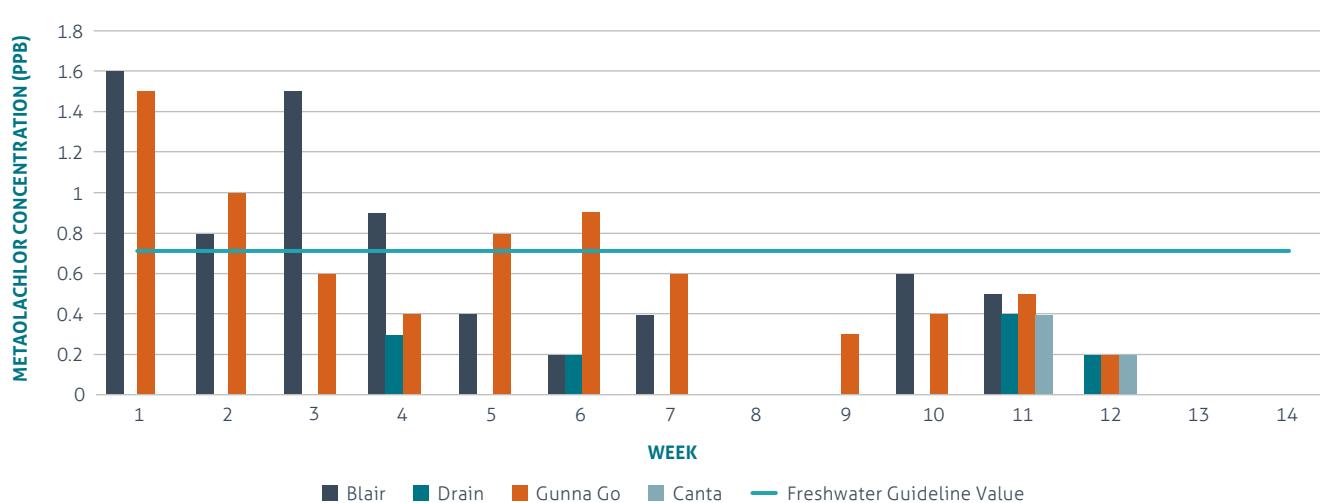
IMAZAPIC



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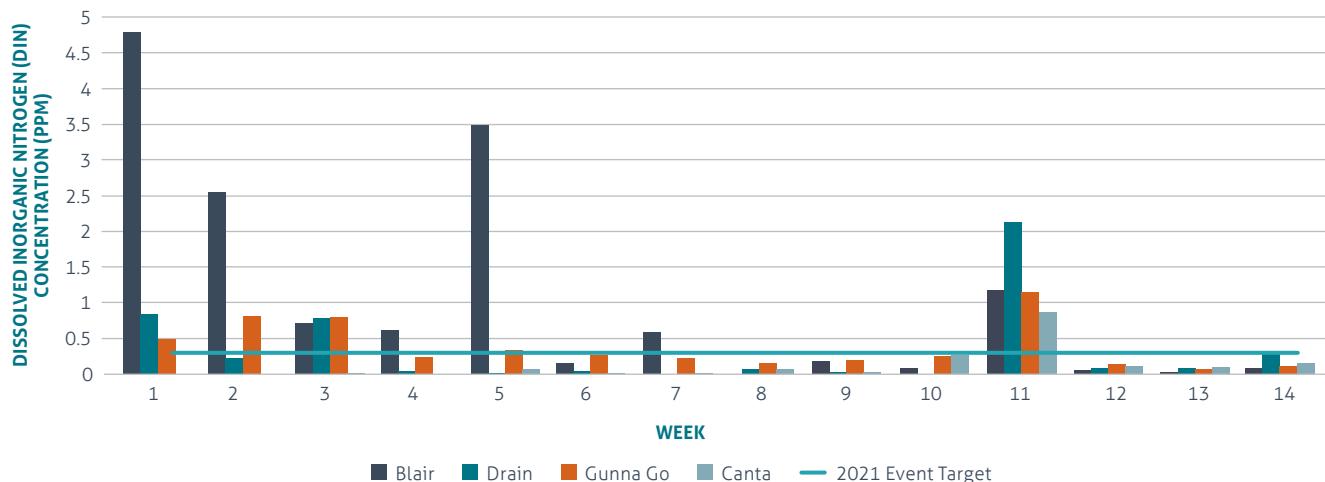


METOLACHLOR

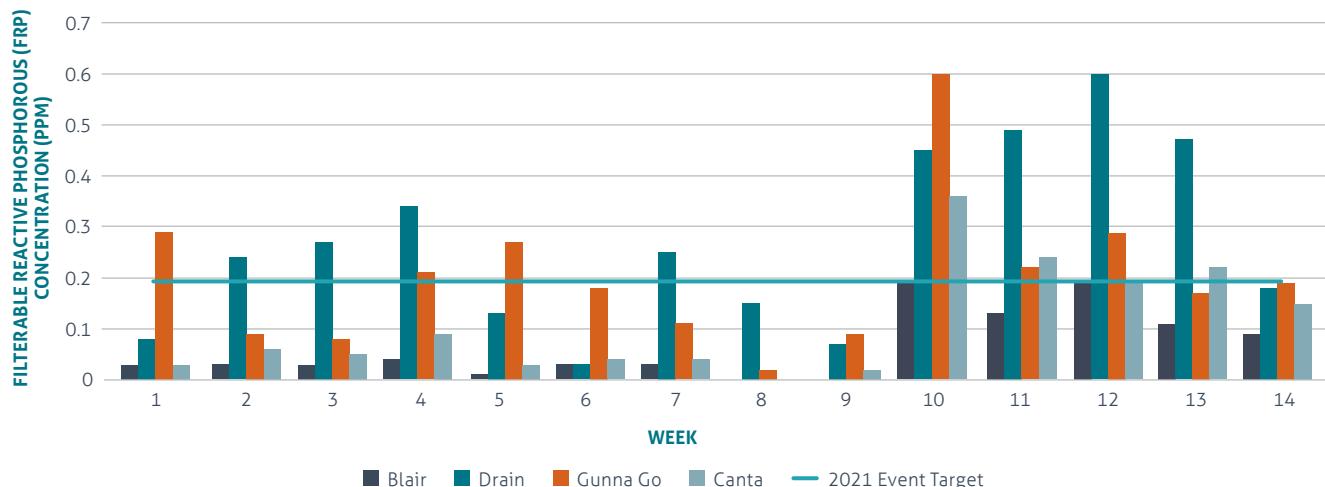


Some detections of Pendimethalin during weeks 12 - 14, all below freshwater guideline value. One detection of isoxaflutole at Blair (1.5 ppm week 9) and Canta sites (0.9 ppb week 10), freshwater guideline value = 0.46 ppb.

DIN



FRP



FOR FURTHER INFORMATION PLEASE CONTACT

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