

# Pollack Watering Event 2023/24 Notes #1 – August 25<sup>th</sup>

## Delivery

- No delivery
- Natural inflows via Pollack Creek commenced 15<sup>th</sup> July and ceased 19<sup>th</sup> August (36 days)
- Natural inflows were of sufficient magnitude to produce exit flows
- Residual water depth within the swamp prior to inflows was 0.695m, connectivity to Pollack Lagoon retained
- Maximum depth within the swamp during natural inflows was 1.510m
- Retained extent of inundation was 32ha prior to natural inflows and maximum extent of 220ha+ during natural inflows (Figures 3 & 4)
- Original watering plan and schedule postponed due to natural inflows. Any delivery will use strategic adaptive management to compliment ecological outcomes.

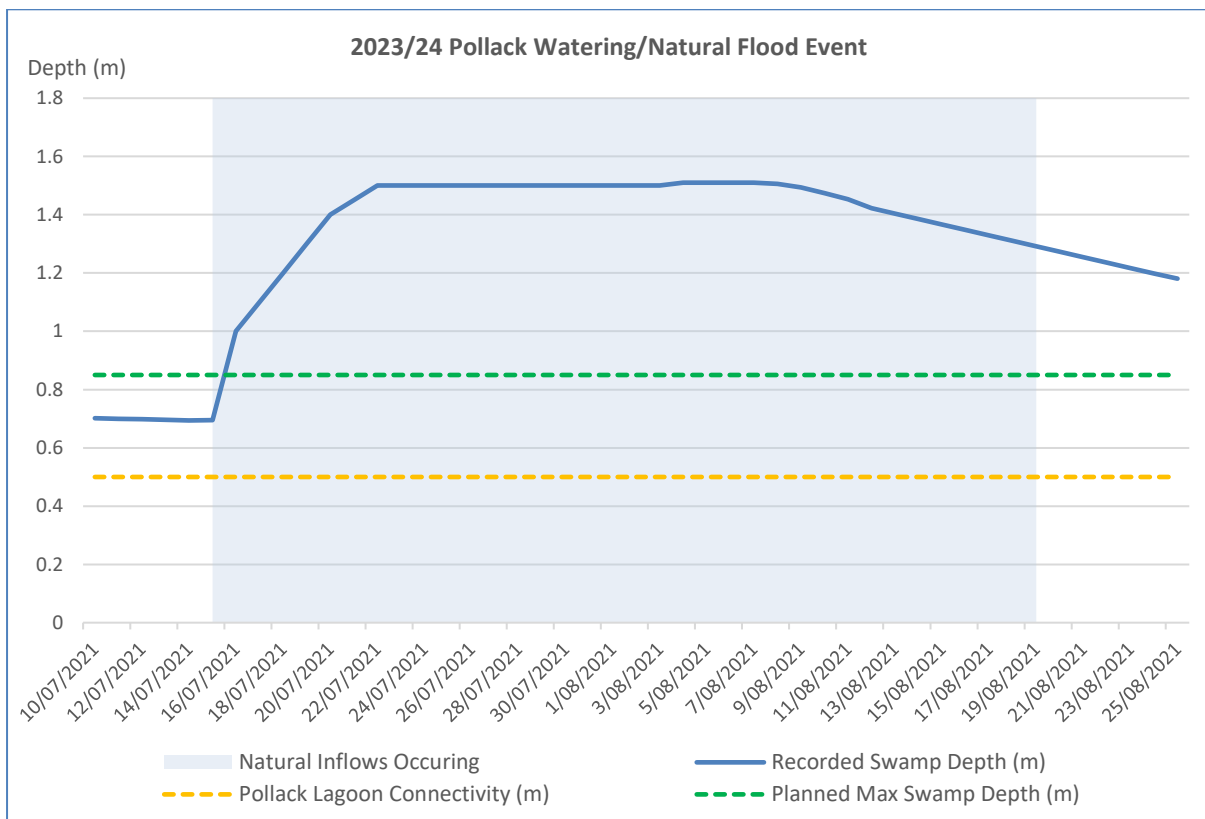


Figure 1: Graph indicating the planned and recorded depths (m) at the swamp centre and lagoon connectivity.

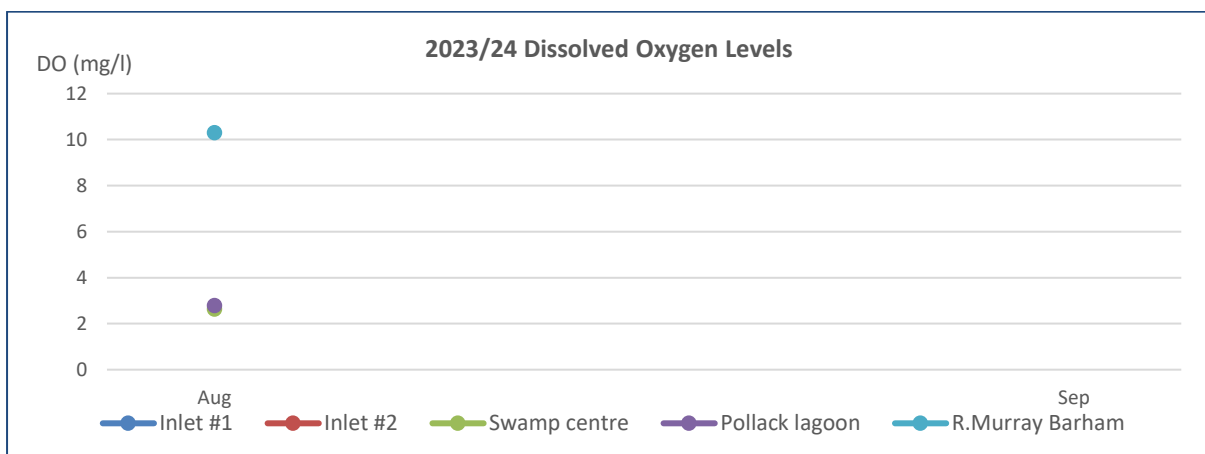


Figure 2: Dissolved oxygen levels (mg/L) recorded at four sites at the Pollack and the Murray River Barham.





Figure 3: Infrared satellite image 8/08/2023 during peak natural inflows showing inflows via Barbers Overflow and Pollack Creeks and exit flows to Barbers Creek to the north and Horseshoe Bend to the north west (SentinelHub 2023)





Figure 4: Infrared satellite image 23/08/2023 showing inflows having ceased and recession underway (SentinelHub 2023)

#### General observation summary

- Water temperature below 12°C
- Two frog species free-calling; Plains/Beeping Froglet *Crinia parinsignifera*, Common/Clicking Froglet *Crinia sigifera*
- Waterbirds present in low numbers.







Figure 5: Rakali *Hydromys chrysogaster* was observed halfway to the swamp centre

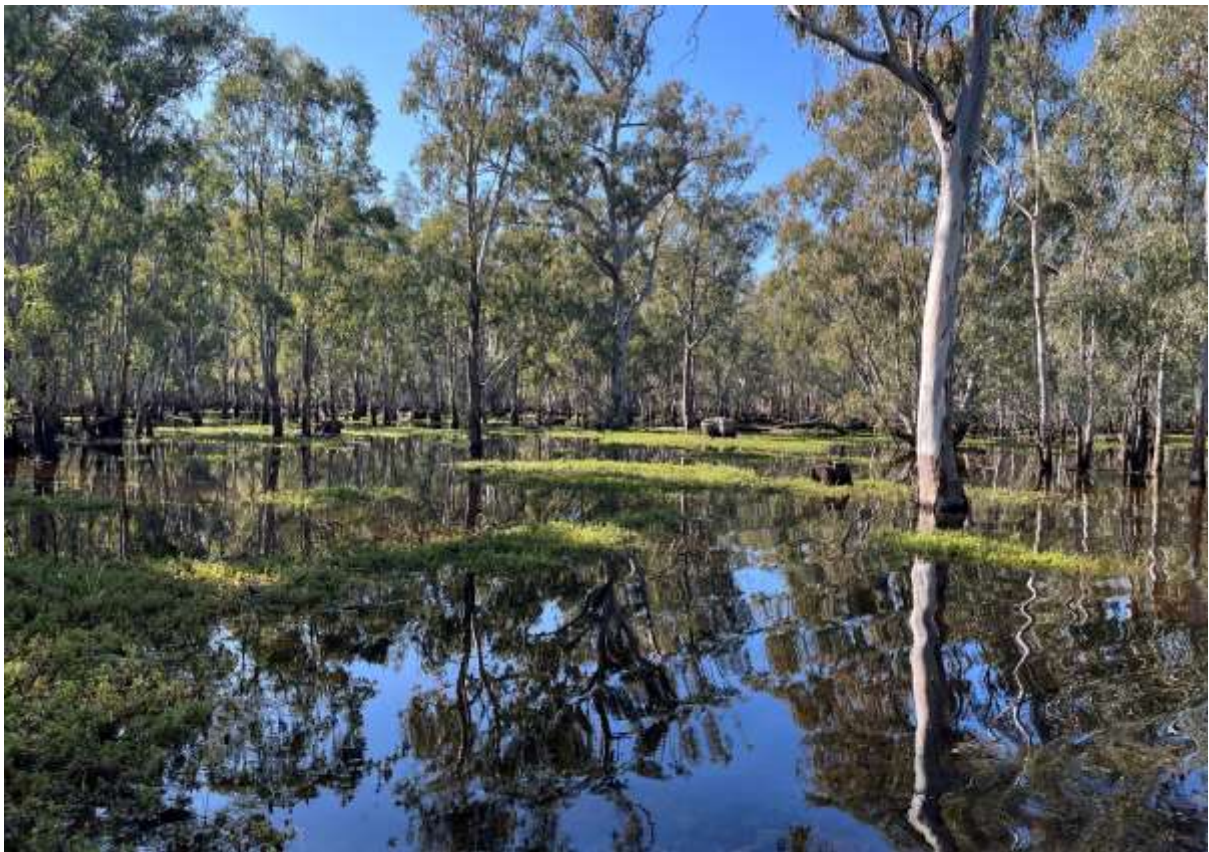


Figure 6: Early vegetation response at the swamp edge

