

Report Card for Mangrove Creek Water Source

| Water Source Context | River Flows |
|---|--|
| Area: 427 km ² Average Annual Rainfall 1013 mm Inflowing water source: Nil Receiving water source: Nil | Low flow Index: (80 th ile in December of days with flow) = 17 ML/day Flow records: 24/10/1970 to 30/09/1981 (11 yrs). This estimate is based on flow measured in Mangrove Creek at Mangrove Mountain (Fairview). 98 years of measured and modelled flows for Ourimbah Creek at Tuggerah was used to adjust for longer term climate as well as an area adjustment. |
| Licensed Water use | |
| <ul style="list-style-type: none"> • Total surface water entitlement: 52 249 ML/year (7.8% used for irrigation purposes, 0.2% used for industrial purposes, 92% used for town water supply) • 113 surface water licenses - Peak Daily Demand=96 ML/day • 71.9 % of total Gosford Extraction Management Unit entitlement | |

Proposed Management Rules for Mangrove Creek Water Source

| Draft Access Rules | |
|---|---|
| Cease to Pump (CtP) | Cease to pump is when there is either no visible inflow to, or outflow from, the pumping pool. |
| Reference Point | Riffles upstream and downstream of pump |
| Draft Trading Rules | |
| INTO water source | Not permitted |
| WITHIN water source | Permitted, except into the plateau management zone or onto the main creek between Mangrove Creek Weir and Mangrove Creek Dam. |
| Conversion to High Flow Access Licence | Not permitted |

Key Factors for Panel Decision

Background information

| Water Source attributes | Rating | Justification |
|--|---------------|--|
| Relative Instream Value (within catchment) | High | <ul style="list-style-type: none"> • 1 threatened aquatic invertebrate species • 7 threatened amphibian species • 4 threatened bird species • platypus have been identified in this water source |
| Hydrological Stress | High | <ul style="list-style-type: none"> • peak extraction demand exceeds available flows in December |
| Relative Economic Significance of Irrigation (within catchment) | High | <ul style="list-style-type: none"> • high economic dependence of the local community on water extracted for irrigation |
| Risk to Instream Value (from extraction) | Medium | <ul style="list-style-type: none"> • instream values are at moderate risk of being impacted by extractions within the water source |

Existing Access Arrangements During Dry Conditions

| | |
|-------------------------------------|--|
| Water User Association (WUA) | No |
| Licensed Cease to Pump (CtP) | A small number of licences have a cease to pump at visible flow. |

Regional Panel review of initial classification and draft rules

Classification

- Gaining stream type
- The regional panel revised the instream value from medium to high in recognition of the number of threatened species and other fauna species and in the intact nature of the catchment.

Rules

- Trading rules identified by the classification process (no trades into or upstream of the water source) were adopted by the Regional Panel.
- Access rules identified by the classification process (visible flow at the end of the water source) were not adopted by the Regional Panel due to difficulty in accessing the end of system and a lack of infrastructure. A visible inflow/outflow to pumping pool was proposed instead.

Matters raised during targeted consultation

No changes to the rules were proposed by water users or interest groups during the targeted consultation period. Note the targeted consultation period did primarily focus on the Wyong River water source.

Aboriginal Cultural Values

- The initial consultation with local Aboriginal communities indicate that they consider healthy rivers with natural flows and good biodiversity as being important. Further feedback is being sought from Aboriginal communities about values in their area.

Information on privacy and confidentiality

Submissions received will be used by the Department when it considers amending the Plan. The Department values your input into the water sharing plan process and appreciates that information that you provide may be of a private and personal nature.

If you wish your submission, any part of your submission, or your personal details to be treated as confidential for any reason then you can request this. Please indicate your preference at the time of making your submission. Please be aware that if you do not make a request for confidentiality, then the Department may make your submission, including any personal details contained in the submission, available to the public. Please see the "Community consultation" page on the Department's website for further information.

For more information about the macro planning process for the Central Coast Unregulated Water Sources refer to the "Central Coast Unregulated Water Sources - Background Document" on the Departments website:

www.dwe.nsw.gov.au

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