

Black / Ross Water Quality Improvement Plan (WQIP)

Results from the Magnetic Island Workshop – Tuesday 22 July 2008 (Arcadia)

Human Uses and Values of Waterways

Explanation

The following table shows the results of a workshop to identify human uses/values i.e. Environmental Values (EVs), for specific waterways (freshwater and estuaries) on Magnetic Island and the adjacent coastal and marine waters. The different human uses/values are shown across the top of the table (e.g. irrigation, stock watering, etc) with the results for each waterway included in the associated row.

The workshop proceeded through each row in the table with workshop facilitators recording waterway uses/values for waters listed in the left hand column of the table as nominated and agreed by workshop attendees. As a minimum human uses/values were identified for all rows with grey shading. Where there were similarities between waterways the human use/values were identified for a grouping of waterways with any exceptions to the human use/values noted for particular waterways.

Where any known future uses/values were identified these were also recorded. The Magnetic Island workshop did not identify any future uses so the identified uses/values apply to both now and the future.












The level/importance of use was recorded as follows:

- H** – High importance/use;
- M** – Moderate importance/use;
- L** – Low importance/use;

Where the level of importance/use was undecided two values have been entered separated by a hyphen (-). Workshop attendees discussed the levels of importance of waterway uses/value before these were recorded.

A blank space was left where no waterway use/value was identified.












Columns that have been blacked out means the human uses are not applicable to that water type.

| Waterway | Irrigation  (eg cane irrigation) | Farm supply  (eg fruit packing, milking sheds) | Stock watering  (eg cattle) | Aquaculture  (eg barramundi, red claw farm) | Human consumer  (eg of wild or stocked fish, shellfish) | Primary recreation  (fully immersed in water eg swimming, snorkelling) | Secondary recreation  (possibly splashed with water, eg sailing, fishing) | Visual appreciation  (no contact with water, eg picnic, bush walking) | Drinking water  (raw water supplies taken from river for drinking) | Industrial use  (eg power generation, manufacturing) | Cultural and spiritual values  (Note: further consultation to occur with Traditional Owners) |
|----------|---|---|--|--|--|---|--|--|---|---|---|
|----------|---|---|--|--|--|---|--|--|---|---|---|

Freshwaters

Magnetic Island

| | | | | | | | | | | | |
|----------------------------|---|--|--|--|---|-------|-------|-------|---|--|---|
| Retreat Creek | H | | | | L | M | H | H | L | | H |
| Duck Creek | L | | | | | M | H | H | L | | |
| Chinamans Gully | | | | | | L | | | | | H |
| Ned Lee Creek | | | | | | H | H | H | L | | H |
| Butler Ck (Picnic Bay) | | | | | L | | L | M | | | H |
| Picnic Bay west creek | | | | | L | | L | M | | | H |
| Gustav Creek (undev.) | | | | | L | L | H | H | | | H |
| Gustav Creek (developed) | | | | | L | M | M - H | M - H | | | H |
| Hoyer Creek (Nelly Bay) | | | | | | L | L | H | | | H |
| North Nelly Bay creek | | | | | | | L | H | | | H |
| Petersen Creek (undev.) | | | | | L | M - H | H | H | | | H |
| Petersen Creek (developed) | | | | | | M - H | H | H | | | H |
| Gorge Creek (undev.) | | | | | L | M - H | H | H | | | H |
| Gorge Creek (developed) | | | | | L | L | L | H | | | H |
| Endeavour Creek (undev.) | | | | | L | M - H | H | H | | | H |
| Endeavour Ck (developed) | | | | | | M - H | H | H | | | H |
| East Horseshoe Bay creek | | | | | L | L | L - M | H | | | H |
| Five Beach Bay | | | | | | M - H | H | H | | | H |

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|---------------------------------------|---|---|--|--|--|---|--|--|---|---|---|
| Estuaries | | | | | | | | | | | |
| All | | | | | H | L | L | H | | | H |
| Butler Creek | | | | | L | M | M | H | | | H |
| Gustav Creek | | | | | L - M | H | H | H | | | H |
| East Horseshoe Bay creek | | | | | L | L | L | H | | | H |
| Near Coastal and Marine Waters | | | | | | | | | | | |
| All near coastal waters | | | | | H | M - H | H | H | | | H |
| Horseshoe Bay | | | | M | H | H | H | H | | | H |
| West Channel | | | | | H | H | H | H | | | H |
| Cleveland Bay | | | | | H | H | H | H | | | H |
| Halifax Bay | | | | | H | H | H | H | | | H |
| Outer Marine | | | | | H | H | H | H | | | H |

Additional comments

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|--------------------------------|--|
| General and West Coast | Map with creeks on MI provided to TCC by MINCA (Charlie McColl). Irrigation for pumpkins and watermelons etc used. Black yabbies in creeks up to the ranges. |
| West Coast (Estuary) | Stingers and crocodiles. Middens in the area |
| Duck Creek (Fresh) | Legality of irrigation? May be some people using for drinking water. Quarry, does it use water? |
| Butler Ck (Picnic Bay) (Fresh) | Visual upstream and near beach. Butlers Hut for cultural. Picnic Bay dump seeps into the creek and degrades values and use. Old gold mine at head of creek |
| Picnic Bay west creek | Through Granite Street on western end of Picnic Bay then through the park near beach. Starts near golf course. Polluted from septic seepage |
| Gustav Creek (undev.) | Undeveloped area is generally to the base of the hills. Also visual pollution. STP has historically impacted the creek but no longer discharges to irrigation near creek. Poly pipe used by Dr Watson. Hoyers Creek identified in south Nelly Bay. Northern creek is unnamed |
| Gustav Creek (Estuary) | Nelly Bay Harbour included in the estuary and visual appreciation higher/constant for NBH and seasonal for the creek itself. Tidal above Sooning Street for 100m |
| Endeavour Creek (dev) | Estuary behind Pacific Drive at eastern end of Horseshoe Bay. Low for human consumption |
| Horseshoe Bay | Horseshoe Bay oyster farm. Historical production and now run as a research facility by JCU. Giant clams somewhere in the vicinity. Higher on eastern side for primary rec. |