

Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

Monitoring site details

Site code: *YGR oob*
 Site description: *Pebblebank Pt.*

Name of monitoring group: *BLSAC*

Persons monitoring: *SD, EB, CC, LD, SF, #*
 Date and time of monitoring: *29-4-2023. 10:20am*

Please record your data below:

| Parameter | Reading | Comments |
|---|--------------------|------------------------------|
| Air Temperature | <i>12.4</i> °C | |
| Water Temperature | <i>14</i> °C | |
| Turbidity | <i>50</i> NTU | |
| pH | <i>6.6</i> Unit | <i>CPR - read over range</i> |
| Conductivity | <i>126</i> µS / cm | |
| Dissolved Oxygen | <i>5</i> mg / L | <i>50</i> % Saturation |
| Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small> | <i>0.10</i> mg / L | |
| Ammonium | <i>0.0</i> mg / L | |
| Nitrate | mg / L | |

Observations and Notes:

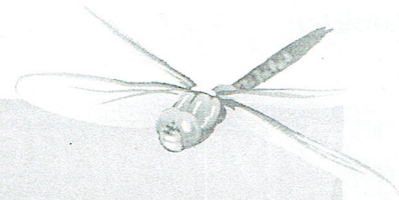
What has changed since last time you monitored? *Water colour is better after recent rain*

What stands out about the site today?

Lots of bird activity - in trees + on water

Other observations:

*9 Pac B. Ducks, 1 coot, 1 Wood Duck flock of Eastern Rosellas
 D. Moorhen (juv.)*



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Waterway Information

Rate of flow:

- Very fast Fast Normal base flow Slow Trickle
 None Permanent Temporary Other

If 'Other', please specify:

Type of flow:

- Rising Steady Falling Peak Dry Pools / Puddles Other

If 'Other', please specify:

Waterway Appearance:

- Clear Muddy Smelly Frothy Scummy
 Oily Discoloured Milky Stained brown Other

If 'Other', please specify:

Waterway depth: 110 cm (0 to 3000cm)

Waterway width: _____ m (0 to 100m)

Weather:

- Sunny Cloudy Overcast Showers Rain
 Hail Windy Foggy Other

If 'Other', please specify:

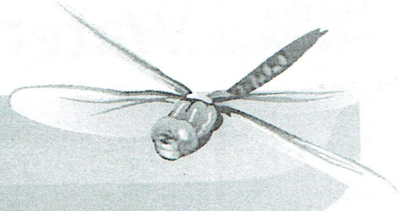
Last rainfall:

- Raining now Last 24hrs Last 3 days Last 7 days More than a week ago

6ml

Litter / Pollutants (record no.):

- | | | | |
|---------------------|------------------|-------------------------------------|---------------------------|
| ___ Cans | ___ Paper | ___ Clothing | ___ Oil (m ²) |
| ___ Food Packets | <u>1</u> Plastic | <u>3</u> Polystyrene | ___ Car bodies |
| ___ Waxed Cardboard | <u>8</u> Bottles | ___ Petrol/Diesel (m ²) | ___ Other (specify) |



Macro-invertebrates Data Form

Monitoring Group Information

Monitoring site details

Site code: YGR 006
 Site description: Pebblebank Pt

Name of monitoring group: BLSAC
 Persons monitoring: SD, EB, LD, SF, CC, JS, WY
 Date and time of monitoring: 29-4-2023 10-20am

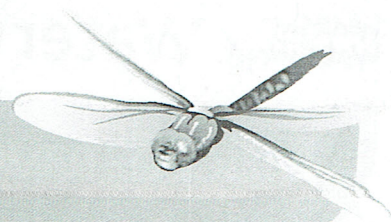
Macro-invertebrates

Sample Type

Edge Riffle

Please record your data below:

| Common Name | Order | Bug Score | Abundance |
|---|--|-----------|-----------|
| Very Sensitive Macro-invertebrates | | | |
| Stonefly Nymph | Plecoptera | 8 | |
| Mayfly Nymph | Ephemeroptera | 7 | |
| Caddisfly Nymph | Trichoptera <i>Leptocerids (Triplecta)</i> | 7 | 2 |
| Sensitive Macro-invertebrates | | | |
| Toebiters/Dobsonflies | Megaloptera | 6 | |
| Damselfly Nymph | Odonata | 6 | |
| Dragonfly Nymph | Odonata | 6 | |
| Freshwater Mussel | Class: Bivalvia | 5 | |
| Aquatic Caterpillars | Lepidoptera | 5 | |
| Freshwater Shrimp/Prawn | Decapoda | 5 | 4 |
| Freshwater Yabby/Crayfish | Decapoda | 5 | |
| Water Mite | Acarina | 5 | 1 |
| Freshwater Slater | Isopoda | 5 | |
| | | 17 | 7 |



Macro-invertebrates Data Form

| Common Name | Order | Bug Score | Abundance |
|--|---|-----------|-----------|
| Tolerant Macro-invertebrates | | | |
| | | cf 17 | cf 7 |
| Hydra | Hydrozoa | 4 | |
| Beetle Larvae | Coleoptera | 4 | |
| True Bugs (Backswimmers, Water Boatman, Water Strider) | Hemiptera <i>Corixids-micronecta</i> | 4 | 80 |
| Side Swimmer/Scud | Amphipoda | 4 | |
| Aquatic Beetles (Diving Beetles, Whirligig Beetles) | Coleoptera | 3 | |
| Round Worms | Nematoda | 3 | |
| Leech | Hirudinea | 3 | |
| Freshwater Snails | Gastropoda | 3 | |
| Flatworm | Turbellaria | 3 | |
| Very Tolerant Macro-invertebrates | | | |
| Mosquito Larvae | Diptera | 2 | |
| Biting Midge Larvae | Diptera | 2 | |
| Fly Larvae | Diptera | 2 | |
| Segmented Worm | Oligochaeta | 1 | |
| Non Biting Midge (Bloodworms) | Diptera | 1 | 11 |
| TOTALS | | 21 | 89 |

Overall Bug Rating

| Total abundance | Total bug score | |
|-----------------|-----------------|-----------|
| | | 0-35 |
| 0-200 | Poor | Good |
| 200+ | Fair | Very good |