



## Chichester Raw Water Quality Data - September 2022

### Chichester Raw Water is not suitable for drinking.

Chichester Raw Water is treated at Dungog Water Treatment Plant (WTP) before supplying treated drinking water to customers.

#### Turbidity and Chlorine Results for Chichester Raw Water at Dusodie#

| Analyte    | Unit | ADWG guideline value* | Sample Date |            |            |            |
|------------|------|-----------------------|-------------|------------|------------|------------|
|            |      |                       | 5/09/2022   | 12/09/2022 | 19/09/2022 | 26/09/2022 |
| Turbidity  | NTU  | 5                     | 21.7        | 18.3       | 14.2       | 12.6       |
| Chlorine** | mg/L | 5                     | 0           | 0.01       | 0          | 0          |

#### E. coli Results for Chichester Raw Water at Dam Offtake Screens^

| Analyte | Unit      | ADWG guideline value*           | Sample Date |           |            |            |            |            |            |            |
|---------|-----------|---------------------------------|-------------|-----------|------------|------------|------------|------------|------------|------------|
|         |           |                                 | 5/09/2022   | 6/09/2022 | 12/09/2022 | 16/09/2022 | 19/09/2022 | 23/09/2022 | 26/09/2022 | 30/09/2022 |
| E. coli | MPN/100mL | should not be detected in 100mL | 816         | 579       | 81         | 28         | 10         | 6          | 20         | 11         |

#### Potentially Toxic Blue Green Algae Results for Chichester Raw Water at Dam Offtake Screens^

| Potentially Toxic Blue Green Algae | Unit     | ADWG Alert Levels | Sample Date |            |            |            |
|------------------------------------|----------|-------------------|-------------|------------|------------|------------|
|                                    |          |                   | 5/09/2022   | 12/09/2022 | 19/09/2022 | 26/09/2022 |
| Dolichospermum                     | cells/mL | 20,000            | 0           | 0          | 0          | 0          |
| Microcystis                        | cells/mL | 6,500             | 0           | 0          | 0          | 0          |

#### Protozoa Results for Chichester Raw Water at Dam Offtake Screens^

| Protozoa        | Unit      | Sample Date |           |            |            |            |            |            |  |
|-----------------|-----------|-------------|-----------|------------|------------|------------|------------|------------|--|
|                 |           | 5/09/2022   | 6/09/2022 | 12/09/2022 | 16/09/2022 | 23/09/2022 | 26/09/2022 | 30/09/2022 |  |
| Cryptosporidium | Oocysts/L | <0.1        | 0.2       | 0.1        | 0.1        | <0.1       | <0.1       | <0.1       |  |
| Giardia         | Cysts/L   | <0.1        | <0.1      | 0.1        | <0.1       | <0.1       | 0.1        | <0.1       |  |

# Samples are collected from Chichester Trunk Gravity Main (CTGM) at Dusodie prior to treatment by Dungog WTP.

\* Australian Drinking Water Guidelines 2011 (ADWG) guideline values are applicable to drinking water samples.

\*\* The Chlorinator is only operated periodically to assist in removal of dissolved Manganese.

^ Samples are collected from Chichester Screens prior to treatment by Dungog WTP.