

### Certificate of Analysis

#### Laboratory Reference: 191219-004

|                          |                      |                           |                    |
|--------------------------|----------------------|---------------------------|--------------------|
| <b>Attention:</b>        | News .               | <b>Final Report:</b>      | <b>346921-0</b>    |
| <b>Client:</b>           | <b>VEOLIA WATER</b>  | <b>Report Issue Date:</b> | <b>23-Dec-2019</b> |
| <b>Address:</b>          |                      | <b>Received Date:</b>     | <b>19-Dec-2019</b> |
| <b>Client Reference:</b> | <b>Hahei Estuary</b> | <b>Quote Reference :</b>  | <b>5949</b>        |
| <b>Purchase Order:</b>   | <b>Not Available</b> |                           |                    |

#### Sample Details

#### WATERS

|                          |                     |
|--------------------------|---------------------|
| <b>Lab Sample ID:</b>    | <b>191219-004-1</b> |
| <b>Client Sample ID:</b> |                     |
| <b>Sample Date/Time</b>  | 19/12/2019          |
| <b>Description:</b>      | Estuary             |

#### General Testing

|                            |      |       |
|----------------------------|------|-------|
| Ammoniacal Nitrogen (as N) | mg/L | 0.039 |
|----------------------------|------|-------|

#### Microbiology

##### Enterococci by Membrane Filtration

|             |            |     |
|-------------|------------|-----|
| Enterococci | cfu/100 mL | 570 |
|-------------|------------|-----|

##### Escherichia coli by Membrane Filtration

|                  |            |     |
|------------------|------------|-----|
| Escherichia coli | cfu/100 mL | 290 |
|------------------|------------|-----|

*Results marked with \* are not accredited to International Accreditation New Zealand*

*Where samples have been supplied by the client they are tested as received. A dash indicates no test performed.*

#### Reference Methods

The sample(s) referred to in this report were analysed by the following method(s)

| Analyte  | Method Reference                 | MDL          | Samples | Location |
|--|----------------------------------|--------------|---------|----------|
| <b>General Testing</b>                         |                                  |              |         |          |
| Ammoniacal Nitrogen (as N) by Flow Analysis    | APHA (online edition) 4500-NH3 H | 0.005 mg/L   | All     | Auckland |
| <b>Microbiology</b>                            |                                  |              |         |          |
| <b>Enterococci by Membrane Filtration</b>      |                                  |              |         |          |
| Enterococci                                    | APHA (online edition) 9230 C     | 2 cfu/100 mL | All     | Auckland |
| <b>Escherichia coli by Membrane Filtration</b> |                                  |              |         |          |
| Escherichia coli                               | USEPA Method 1603                | 2 cfu/100 mL | All     | Auckland |

*The method detection limit (MDL) listed is the limit attainable in a relatively clean matrix. If dilutions are required for analysis the detection limit may be higher.  
 For more information please contact the Operations Manager.*

Samples, with suitable preservation and stability of analytes, will be held by the laboratory for a period of two weeks after results have been reported, unless otherwise advised by the submitter.

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