

### Certificate of Analysis

#### Laboratory Reference:190102-004

|                   |               |                    |             |
|-------------------|---------------|--------------------|-------------|
| Attention:        | News .        | Final Report:      | 299425-0    |
| Client:           | VEOLIA WATER  | Report Issue Date: | 05-Jan-2019 |
| Address:          |               | Received Date:     | 03-Jan-2019 |
| Client Reference: | Hahei Estuary |                    |             |
| Purchase Order:   | Not Available | Quote Reference :  | 5949        |

#### Sample Details

#### WATERS

|                   |              |
|-------------------|--------------|
| Lab Sample ID:    | 190102-004-1 |
| Client Sample ID: |              |
| Sample Date/Time: | 02/01/2019   |
| Description:      | Estuary      |

#### General Testing

|                            |      |      |
|----------------------------|------|------|
| Ammoniacal Nitrogen (as N) | mg/L | 0.89 |
|----------------------------|------|------|

#### Microbiology

##### Enterococci by Membrane Filtration

|             |            |     |
|-------------|------------|-----|
| Enterococci | cfu/100 mL | 300 |
|-------------|------------|-----|

##### Escherichia coli by Membrane Filtration

|                  |            |     |
|------------------|------------|-----|
| Escherichia coli | cfu/100 mL | 230 |
|------------------|------------|-----|

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 |
|-------------------------------------------------------------|------------------------------|--------------|---------|----------|
| General Testing                                             |                              |              |         |          |
| Ammoniacal Nitrogen (as N) by Colorimetry/Discrete Analyser | HMSO (1981) ISBN 0117516139  | 0.4 mg/L     | All     | Auckland |
| Microbiology                                                |                              |              |         |          |
| Enterococci by Membrane Filtration                          |                              |              |         |          |
| Enterococci                                                 | APHA (online edition) 9230 C | 2 cfu/100 mL | All     | Auckland |
| Escherichia coli by Membrane Filtration                     |                              |              |         |          |
| 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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Report Signatory 05/01/2019

A handwritten signature in blue ink, appearing to read 'Marina Fisher', is written over a light blue rectangular background.

Marina Fisher  
KTP Signatory