

#### **CERTIFICATE OF ANALYSIS** Page Work Order : EW2405441 : 1 of 10 Client : KIAMA COUNCIL Laboratory : Environmental Division NSW South Coast Contact : Guy Stearn Contact : Aneta Prosaroski Address Address : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia : 11 MANNING STREET **KIAMA NSW, AUSTRALIA 2533** Telephone Telephone : 02 42253125 : -----Project : Gerroa Landfill Quarterly **Date Samples Received** : 27-Nov-2024 14:40 Order number : PO32438 Date Analysis Commenced : 27-Nov-2024 C-O-C number Issue Date : -----: 18-Dec-2024 18:02 Sampler : Michael Santos, Robert DaLio Site : -----Quote number : EW23KIACOU0003 V2 "Julula Accreditation No. 825 No. of samples received : 20 Accredited for compliance with

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 20

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

#### Signatories

No. of samples analysed

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| Signatories  | Position                    | Accreditation Category             |
|--------------|-----------------------------|------------------------------------|
| Ankit Joshi  | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Robert DaLio | Sampler                     | Laboratory - Wollongong, NSW       |



#### **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

- Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
  - LOR = Limit of reporting
  - ^ = This result is computed from individual analyte detections at or above the level of reporting
  - ø = ALS is not NATA accredited for these tests.
  - ~ = Indicates an estimated value.
- It has been noted that Ammonia is greater than TKN, however this difference is within the limits of experimental variation.
- TDS by method EA-015 sample 2,3 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- pH performed by ALS Wollongong via in-house method EA005FD and EN67 PK.
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- ORP (Oxidation Reduction Potential) performed by ALS Wollongong via in-house method EA075FD and EN67 PK.
- Sampling and groundwater depth measurements completed by ALS Wollongong via inhouse sampling method EN/67.11 Groundwater Sampling High Flow & Bailer Method.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.6 Rivers and Streams.
- Temperature performed by ALS Wollongong via in-house method EA116 and EN67 PK.
- Dissolved oxygen (DO) performed by ALS Wollongong via in-house method EP025FD and EN67 PK.
- All field analysis performed by ALS Wollongong were completed at the time of sampling.
- Sample collection of Ground Waters by in-house EN67 where the "surface layer of the aquifer was sampled".



| Sub-Matrix: WATER<br>(Matrix: WATER)                           |   |        | Sample ID      | MW 1D             | MW 1S             | MW 3              | MW 4              | MW 5              |
|--|---|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  |   | Sampli | ng date / time | 27-Nov-2024 11:00 | 27-Nov-2024 11:12 | 27-Nov-2024 10:28 | 27-Nov-2024 12:27 | 27-Nov-2024 10:07 |
| Compound   | CAS Number  | LOR    | Unit           | EW2405441-001     | EW2405441-002     | EW2405441-003     | EW2405441-004     | EW2405441-005     |
|  |   |        |                | Result            | Result            | Result            | Result            | Result            |
| EA005FD: Field pH  |   |        |                |                   |                   |                   |                   |                   |
| рН   |   | 0.1    | pH Unit        | 7.5               | 5.9               | 7.4               | 6.9               | 7.8               |
| EA005P: pH by PC Titrator                                      |   |        |                |                   |                   |                   |                   |                   |
| pH Value   |   | 0.01   | pH Unit        | 7.27              | 6.13              | 7.02              | 7.02              | 7.41              |
| EA010FD: Field Conductivity                                    |   |        |                |                   |                   |                   |                   |                   |
| Conductivity @ 25oC  |   | 1      | µS/cm          | 415               | 135               | 533               | 516               | 309               |
| EA015: Total Dissolved Solids dried a                          | nt 180 ± 5 °C   |        |                |                   |                   |                   |                   |                   |
| Total Dissolved Solids @180°C                                  |   | 10     | mg/L           | 263               | 130               | 366               | 308               | 196               |
| EA116: Temperature   |   |        |                |                   |                   |                   |                   |                   |
| Temperature  |   | 0.5    | °C             | 18.3              | 18.5              | 17.4              | 18.2              | 17.2              |
| ED037P: Alkalinity by PC Titrator                              |   |        |                |                   |                   |                   |                   |                   |
| Hydroxide Alkalinity as CaCO3                                  | DMO-210-001   | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Carbonate Alkalinity as CaCO3                                  | 3812-32-6   | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Bicarbonate Alkalinity as CaCO3                                | 71-52-3   | 1      | mg/L           | 156               | 40                | 172               | 239               | 130               |
| Total Alkalinity as CaCO3                                      |   | 1      | mg/L           | 156               | 40                | 172               | 239               | 130               |
| EK055G: Ammonia as N by Discrete A                             | analyser  |        |                |                   |                   |                   |                   |                   |
| Ammonia as N   | 7664-41-7   | 0.01   | mg/L           | 0.40              | 0.08              | 0.32              | 0.18              | 0.02              |
| EK057G: Nitrite as N by Discrete Ana                           | lvser   |        |                |                   |                   |                   |                   |                   |
| Nitrite as N   | 14797-65-0  | 0.01   | mg/L           | <0.01             | <0.01             | <0.01             | <0.01             | <0.01             |
| EK058G: Nitrate as N by Discrete Ana                           | alvser  |        |                |                   |                   |                   |                   |                   |
| Nitrate as N   | 14797-55-8  | 0.01   | mg/L           | 0.01              | <0.01             | <0.01             | <0.01             | <0.01             |
| EK059G: Nitrite plus Nitrate as N (NO                          | ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>( | vsor   |                |                   |                   |                   |                   |                   |
| Nitrite + Nitrate as N   |   | 0.01   | mg/L           | 0.01              | <0.01             | <0.01             | <0.01             | <0.01             |
| EK061G: Total Kjeldahl Nitrogen By D                           | )iscroto Analyser   |        | -              |                   |                   |                   |                   | I                 |
| Total Kjeldahl Nitrogen as N                                   |   | 0.1    | mg/L           | 0.7               | 1.8               | 1.2               | 0.6               | 0.3               |
| EK062G: Total Nitrogen as N (TKN + N                           | NOx) by Discrete An   | olycor |                |                   |                   |                   |                   | <br>              |
| Total Nitrogen as N  |   | 0.1    | mg/L           | 0.7               | 1.8               | 1.2               | 0.6               | 0.3               |
| -  |   |        |                |                   |                   |                   |                   |                   |
| EK071G: Reactive Phosphorus as P b<br>Reactive Phosphorus as P | y discrete analyser<br>14265-44-2   | 0.01   | mg/L           | 0.01              | 0.08              | 0.12              | <0.01             | 0.04              |
| Neachve Filospilorus as F                                      | 14200-44-2  | 0.01   | iiig/L         | 0.01              | 0.00              | 0.12              | 10.01             | 0.04              |

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|------------|---|
| Work Order | : EW2405441                                   |
| Client     | : KIAMA COUNCIL                               |
| Project    | <ul> <li>Gerroa Landfill Quarterly</li> </ul> |



| Sub-Matrix: WATER<br>(Matrix: WATER)  | Sample ID  |        |                | MW 1D             | MW 1S             | MW 3              | MW 4              | MW 5              |
|---------------------------------------|------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       |            | Sampli | ng date / time | 27-Nov-2024 11:00 | 27-Nov-2024 11:12 | 27-Nov-2024 10:28 | 27-Nov-2024 12:27 | 27-Nov-2024 10:07 |
| Compound                              | CAS Number | LOR    | Unit           | EW2405441-001     | EW2405441-002     | EW2405441-003     | EW2405441-004     | EW2405441-005     |
|                                       |            |        |                | Result            | Result            | Result            | Result            | Result            |
| EP025FD: Field Dissolved Oxygen       |            |        |                |                   |                   |                   |                   |                   |
| Dissolved Oxygen                      |            | 0.01   | mg/L           | <0.01             | 1.07              | <0.01             | <0.01             | <0.01             |
| QWI-EN 67.11 Sampling of Groundwaters | ;          |        |                |                   |                   |                   |                   |                   |
| Depth                                 |            | 0.01   | m              | 3.44              | 3.50              | 3.79              | 4.27              | 4.13              |



| Sub-Matrix: WATER<br>(Matrix: WATER)  |                      |        | Sample ID      | MW 6D             | MW 6S             | MW 7D             | MW 7S             | MW 9              |
|---------------------------------------|----------------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       |                      | Sampli | ng date / time | 27-Nov-2024 09:18 | 27-Nov-2024 00:00 | 27-Nov-2024 09:48 | 27-Nov-2024 09:36 | 27-Nov-2024 09:00 |
| Compound                              | CAS Number           | LOR    | Unit           | EW2405441-006     | EW2405441-007     | EW2405441-008     | EW2405441-009     | EW2405441-010     |
|                                       |                      |        |                | Result            | Result            | Result            | Result            | Result            |
| EA005FD: Field pH                     |                      |        |                |                   |                   |                   |                   |                   |
| рН                                    |                      | 0.1    | pH Unit        | 7.0               |                   | 7.2               | 6.6               | 6.8               |
| EA005P: pH by PC Titrator             |                      |        |                |                   |                   |                   |                   |                   |
| pH Value                              |                      | 0.01   | pH Unit        | 7.30              |                   | 7.33              | 6.72              | 6.79              |
| EA010FD: Field Conductivity           |                      |        |                |                   |                   |                   |                   |                   |
| Conductivity @ 25oC                   |                      | 1      | µS/cm          | 1550              |                   | 62                | 335               | 2230              |
| EA015: Total Dissolved Solids dried a | at 180 ± 5 °C        |        |                |                   |                   |                   |                   |                   |
| Total Dissolved Solids @180°C         |                      | 10     | mg/L           | 844               |                   | 335               | 218               | 1330              |
| EA116: Temperature                    |                      |        |                |                   |                   |                   |                   | ·                 |
| Temperature                           |                      | 0.5    | °C             | 18.5              |                   | 17.8              | 17.6              | 19.3              |
| ED037P: Alkalinity by PC Titrator     |                      |        |                |                   |                   |                   |                   |                   |
| Hydroxide Alkalinity as CaCO3         | DMO-210-001          | 1      | mg/L           | <1                |                   | <1                | <1                | <1                |
| Carbonate Alkalinity as CaCO3         | 3812-32-6            | 1      | mg/L           | <1                |                   | <1                | <1                | <1                |
| Bicarbonate Alkalinity as CaCO3       | 71-52-3              | 1      | mg/L           | 615               |                   | 270               | 106               | 152               |
| Total Alkalinity as CaCO3             |                      | 1      | mg/L           | 615               |                   | 270               | 106               | 152               |
| EK055G: Ammonia as N by Discrete A    | Analvser             |        |                |                   |                   |                   |                   |                   |
| Ammonia as N                          | 7664-41-7            | 0.01   | mg/L           | 21.2              |                   | 4.19              | 0.06              | 0.27              |
| EK057G: Nitrite as N by Discrete Ana  | lvser                |        |                |                   |                   |                   |                   |                   |
| Nitrite as N                          | 14797-65-0           | 0.01   | mg/L           | <0.01             |                   | <0.01             | <0.01             | <0.01             |
| EK058G: Nitrate as N by Discrete Ana  | alvser               |        | I              |                   |                   |                   |                   |                   |
| Nitrate as N                          | 14797-55-8           | 0.01   | mg/L           | <0.01             |                   | <0.01             | <0.01             | <0.01             |
| EK059G: Nitrite plus Nitrate as N (NC | )x) by Discrete Ana  | lvser  |                |                   |                   |                   |                   |                   |
| Nitrite + Nitrate as N                |                      | 0.01   | mg/L           | <0.01             |                   | <0.01             | <0.01             | <0.01             |
| EK061G: Total Kjeldahl Nitrogen By D  | )iscrete Analyser    |        |                |                   |                   | I                 | I                 | I                 |
| Total Kjeldahl Nitrogen as N          |                      | 0.1    | mg/L           | 22.1              |                   | 5.4               | 0.5               | 1.7               |
| EK062G: Total Nitrogen as N (TKN + I  | NOx) by Discrete An  | alvser |                |                   |                   | I                 | I                 | I                 |
| Total Nitrogen as N                   |                      | 0.1    | mg/L           | 22.1              |                   | 5.4               | 0.5               | 1.7               |
| EK071G: Reactive Phosphorus as P b    | ov discrete analyser |        |                |                   |                   | I                 | l                 | l                 |
| Reactive Phosphorus as P              | 14265-44-2           | 0.01   | mg/L           | 0.01              |                   | <0.01             | 0.05              | 0.07              |

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| Work Order | : EW2405441                                   |
| Client     | : KIAMA COUNCIL                               |
| Project    | <ul> <li>Gerroa Landfill Quarterly</li> </ul> |



|                                     |            |        | o ( 10         |                   |                   |                   |                   |                   |
|-------------------------------------|------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sub-Matrix: WATER                   |            |        | Sample ID      | MW 6D             | MW 6S             | MW 7D             | MW 7S             | MW 9              |
| (Matrix: WATER)                     |            |        |                |                   |                   |                   |                   |                   |
|                                     |            | Sampli | ng date / time | 27-Nov-2024 09:18 | 27-Nov-2024 00:00 | 27-Nov-2024 09:48 | 27-Nov-2024 09:36 | 27-Nov-2024 09:00 |
| Compound                            | CAS Number | LOR    | Unit           | EW2405441-006     | EW2405441-007     | EW2405441-008     | EW2405441-009     | EW2405441-010     |
|                                     |            |        |                | Result            | Result            | Result            | Result            | Result            |
| EN67 PK: Field Tests                |            |        |                |                   |                   |                   |                   |                   |
| Field Observations                  |            | 0.01   |                |                   | DRY               |                   |                   |                   |
| EP025FD: Field Dissolved Oxygen     |            |        |                |                   |                   |                   |                   |                   |
| Dissolved Oxygen                    |            | 0.01   | mg/L           | 0.11              |                   | <0.01             | <0.01             | 1.53              |
| QWI-EN 67.11 Sampling of Groundwate | rs         |        |                |                   |                   |                   | ·                 | ·                 |
| Depth                               |            | 0.01   | m              | 4.99              |                   | 4.38              | 4.11              | 1.07              |
|                                     |            |        |                |                   |                   |                   |                   |                   |



| Sub-Matrix: WATER<br>(Matrix: WATER)  |                     |        | Sample ID      | MW 10             | MW 11             | MW 12             | MW 13             | MW 14             |
|---------------------------------------|---------------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       |                     | Sampli | ng date / time | 27-Nov-2024 09:25 | 27-Nov-2024 10:00 | 27-Nov-2024 12:00 | 27-Nov-2024 11:44 | 27-Nov-2024 10:47 |
| Compound                              | CAS Number          | LOR    | Unit           | EW2405441-011     | EW2405441-012     | EW2405441-013     | EW2405441-014     | EW2405441-015     |
|                                       |                     |        |                | Result            | Result            | Result            | Result            | Result            |
| EA005FD: Field pH                     |                     |        |                |                   |                   |                   |                   |                   |
| рН                                    |                     | 0.1    | pH Unit        | 5.7               | 6.0               | 7.4               | 7.6               | 7.3               |
| EA005P: pH by PC Titrator             |                     |        |                |                   |                   |                   |                   |                   |
| pH Value                              |                     | 0.01   | pH Unit        | 5.74              | 6.04              | 7.58              | 7.58              | 7.63              |
| EA010FD: Field Conductivity           |                     |        |                |                   |                   |                   |                   |                   |
| Conductivity @ 25oC                   |                     | 1      | µS/cm          | 10600             | 7420              | 927               | 501               | 1770              |
| EA015: Total Dissolved Solids dried   | at 180 ± 5 °C       |        |                |                   |                   |                   |                   |                   |
| Total Dissolved Solids @180°C         |                     | 10     | mg/L           | 7510              | 4870              | 499               | 260               | 846               |
| EA116: Temperature                    |                     |        |                |                   |                   |                   |                   |                   |
| Temperature                           |                     | 0.5    | °C             | 19.2              | 19.2              | 18.2              | 18.1              | 18.3              |
| ED037P: Alkalinity by PC Titrator     |                     |        |                |                   |                   |                   |                   |                   |
| Hydroxide Alkalinity as CaCO3         | DMO-210-001         | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Carbonate Alkalinity as CaCO3         | 3812-32-6           | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Bicarbonate Alkalinity as CaCO3       | 71-52-3             | 1      | mg/L           | 28                | 47                | 308               | 209               | 450               |
| Total Alkalinity as CaCO3             |                     | 1      | mg/L           | 28                | 47                | 308               | 209               | 450               |
| EK055G: Ammonia as N by Discrete      | Analyser            |        |                |                   |                   |                   |                   |                   |
| Ammonia as N                          | 7664-41-7           | 0.01   | mg/L           | 0.47              | 0.39              | 12.3              | 5.55              | 28.7              |
| EK057G: Nitrite as N by Discrete An   | alyser              |        |                |                   |                   |                   |                   | ·                 |
| Nitrite as N                          | 14797-65-0          | 0.01   | mg/L           | <0.01             | <0.01             | <0.01             | <0.01             | <0.01             |
| EK058G: Nitrate as N by Discrete An   | alyser              |        |                |                   |                   |                   |                   |                   |
| Nitrate as N                          | 14797-55-8          | 0.01   | mg/L           | <0.01             | <0.01             | 0.02              | <0.01             | <0.01             |
| EK059G: Nitrite plus Nitrate as N (NO | Ox) by Discrete Ana | lyser  |                |                   |                   |                   |                   |                   |
| Nitrite + Nitrate as N                |                     | 0.01   | mg/L           | <0.01             | <0.01             | 0.02              | <0.01             | <0.01             |
| EK061G: Total Kjeldahl Nitrogen By I  | Discrete Analyser   |        |                |                   |                   |                   |                   |                   |
| Total Kjeldahl Nitrogen as N          |                     | 0.1    | mg/L           | 3.6               | 2.6               | 13.5              | 5.4               | 31.7              |
| EK062G: Total Nitrogen as N (TKN +    | NOx) by Discrete An |        |                |                   |                   |                   |                   |                   |
| Total Nitrogen as N                   |                     | 0.1    | mg/L           | 3.6               | 2.6               | 13.5              | 5.4               | 31.7              |
| EK071G: Reactive Phosphorus as P      |                     |        |                |                   |                   |                   |                   |                   |
| Reactive Phosphorus as P              | 14265-44-2          | 0.01   | mg/L           | 0.01              | 0.02              | 0.01              | 0.01              | <0.01             |

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|------------|---|
| Work Order | : EW2405441                                   |
| Client     | : KIAMA COUNCIL                               |
| Project    | <ul> <li>Gerroa Landfill Quarterly</li> </ul> |



| Sub-Matrix: WATER<br>(Matrix: WATER)  |            |        | Sample ID      | MW 10             | MW 11             | MW 12             | MW 13             | MW 14             |
|---------------------------------------|------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       |            | Sampli | ng date / time | 27-Nov-2024 09:25 | 27-Nov-2024 10:00 | 27-Nov-2024 12:00 | 27-Nov-2024 11:44 | 27-Nov-2024 10:47 |
| Compound                              | CAS Number | LOR    | Unit           | EW2405441-011     | EW2405441-012     | EW2405441-013     | EW2405441-014     | EW2405441-015     |
|                                       |            |        |                | Result            | Result            | Result            | Result            | Result            |
| EP025FD: Field Dissolved Oxygen       |            |        |                |                   |                   |                   |                   |                   |
| Dissolved Oxygen                      |            | 0.01   | mg/L           | 2.02              | 2.07              | <0.01             | <0.01             | <0.01             |
| QWI-EN 67.11 Sampling of Groundwaters | ;          |        |                |                   |                   | ·                 |                   |                   |
| Depth                                 |            | 0.01   | m              | 1.47              | 1.50              | 3.15              | 3.39              | 2.89              |



| Sub-Matrix: WATER<br>(Matrix: WATER)  |                     |        | Sample ID      | ML-1              | ML-2              | ML-3              | ML-4              | ML-5              |
|---------------------------------------|---------------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       |                     | Sampli | ng date / time | 27-Nov-2024 10:55 | 27-Nov-2024 10:18 | 27-Nov-2024 11:21 | 27-Nov-2024 11:08 | 27-Nov-2024 09:09 |
| Compound                              | CAS Number          | LOR    | Unit           | EW2405441-016     | EW2405441-017     | EW2405441-018     | EW2405441-019     | EW2405441-020     |
|                                       |                     |        |                | Result            | Result            | Result            | Result            | Result            |
| EA005FD: Field pH                     |                     |        |                |                   |                   |                   |                   |                   |
| рН                                    |                     | 0.1    | pH Unit        | 7.2               | 7.2               | 7.4               | 7.5               | 7.0               |
| EA005P: pH by PC Titrator             |                     |        |                |                   |                   |                   |                   |                   |
| pH Value                              |                     | 0.01   | pH Unit        | 7.01              | 7.12              | 7.13              | 7.09              | 7.00              |
| A010FD: Field Conductivity            |                     |        |                |                   |                   |                   |                   |                   |
| Conductivity @ 25oC                   |                     | 1      | µS/cm          | 38600             | 39600             | 8460              | 8860              | 37800             |
| A075FD: Field Redox Potential         |                     |        |                |                   |                   |                   |                   |                   |
| Redox Potential                       |                     | 0.1    | mV             | 199               | 155               | 200               | 183               | 109               |
| EA116: Temperature                    |                     |        |                |                   |                   |                   |                   |                   |
| Temperature                           |                     | 0.5    | °C             | 26.1              | 25.8              | 24.2              | 24.2              | 23.8              |
| ED037P: Alkalinity by PC Titrator     |                     |        |                |                   |                   |                   |                   |                   |
| Hydroxide Alkalinity as CaCO3         | DMO-210-001         | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Carbonate Alkalinity as CaCO3         | 3812-32-6           | 1      | mg/L           | <1                | <1                | <1                | <1                | <1                |
| Bicarbonate Alkalinity as CaCO3       | 71-52-3             | 1      | mg/L           | 130               | 131               | 127               | 129               | 128               |
| Total Alkalinity as CaCO3             |                     | 1      | mg/L           | 130               | 131               | 127               | 129               | 128               |
| EK055G: Ammonia as N by Discrete      | Analyser            |        |                |                   |                   |                   |                   |                   |
| Ammonia as N                          | 7664-41-7           | 0.01   | mg/L           | 0.12              | 0.03              | 0.05              | 0.06              | 0.16              |
| EK057G: Nitrite as N by Discrete Ana  | alyser              |        |                |                   |                   |                   |                   |                   |
| Nitrite as N                          | 14797-65-0          | 0.01   | mg/L           | <0.01             | <0.01             | 0.01              | <0.01             | <0.01             |
| EK058G: Nitrate as N by Discrete An   | alyser              |        |                |                   |                   |                   |                   |                   |
| Nitrate as N                          | 14797-55-8          | 0.01   | mg/L           | <0.01             | <0.01             | 0.01              | <0.01             | <0.01             |
| EK059G: Nitrite plus Nitrate as N (NC | Dx) by Discrete Ana | lyser  |                |                   |                   |                   |                   |                   |
| Nitrite + Nitrate as N                |                     | 0.01   | mg/L           | <0.01             | <0.01             | 0.02              | <0.01             | <0.01             |
| EK061G: Total Kjeldahl Nitrogen By I  | Discrete Analyser   |        |                |                   |                   |                   |                   |                   |
| Total Kjeldahl Nitrogen as N          |                     | 0.1    | mg/L           | 1.0               | 1.3               | 1.4               | 3.0               | 1.5               |
| EK062G: Total Nitrogen as N (TKN +    | NOx) by Discrete An |        |                |                   |                   |                   |                   |                   |
| Total Nitrogen as N                   |                     | 0.1    | mg/L           | 1.0               | 1.3               | 1.4               | 3.0               | 1.5               |
| EK067G: Total Phosphorus as P by D    | Discrete Analyser   |        |                |                   |                   |                   |                   |                   |
| Total Phosphorus as P                 |                     | 0.01   | mg/L           | 0.06              | 0.20              | 0.06              | 0.21              | 0.11              |



| Sub-Matrix: WATER<br>(Matrix: WATER) |            |         | Sample ID      | ML-1              | ML-2              | ML-3              | ML-4              | ML-5              |
|--------------------------------------|------------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                      |            | Samplir | ng date / time | 27-Nov-2024 10:55 | 27-Nov-2024 10:18 | 27-Nov-2024 11:21 | 27-Nov-2024 11:08 | 27-Nov-2024 09:09 |
| Compound                             | CAS Number | LOR     | Unit           | EW2405441-016     | EW2405441-017     | EW2405441-018     | EW2405441-019     | EW2405441-020     |
|                                      |            |         |                | Result            | Result            | Result            | Result            | Result            |
| EP025FD: Field Dissolved Oxygen      |            |         |                |                   |                   |                   |                   |                   |
| Dissolved Oxygen                     |            | 0.01    | mg/L           | 5.01              | 4.77              | 3.58              | 5.03              | 2.91              |

#### Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) ED037P: Alkalinity by PC Titrator

(WATER) EA005P: pH by PC Titrator

(WATER) EK071G: Reactive Phosphorus as P by discrete analyser

(WATER) EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser

(WATER) EK061G: Total Kjeldahl Nitrogen By Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK058G: Nitrate as N by Discrete Analyser

(WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser

(WATER) EA015: Total Dissolved Solids dried at 180 ± 5 °C

(WATER) EK067G: Total Phosphorus as P by Discrete Analyser