

## QUALITY CONTROL REPORT

|                                |   |                                |   |
|--------------------------------|---|--------------------------------|---|
| <b>Work Order</b>              | <b>: EM2210355</b>                                    | <b>Page</b>                    | <b>: 1 of 7</b>                                     |
| <b>Client</b>                  | <b>: Dept for Environment &amp; Water</b>             | <b>Laboratory</b>              | <b>: Environmental Division Melbourne</b>           |
| <b>Contact</b>                 | <b>: DARCY MORRIS</b>                                 | <b>Contact</b>                 | <b>: Kieren Burns</b>                               |
| <b>Address</b>                 | <b>: GPO BOX 2834<br/>ADELAIDE SA, AUSTRALIA 5001</b> | <b>Address</b>                 | <b>: 4 Westall Rd Springvale VIC Australia 3171</b> |
| <b>Telephone</b>               | <b>: ----</b>   | <b>Telephone</b>               | <b>: +61881625130</b>                               |
| <b>Project</b>                 | <b>: HCHB Monitoring Program</b>                      | <b>Date Samples Received</b>   | <b>: 03-Jun-2022</b>                                |
| <b>Order number</b>            | <b>: -</b>  | <b>Date Analysis Commenced</b> | <b>: 03-Jun-2022</b>                                |
| <b>C-O-C number</b>            | <b>: 38367</b>  | <b>Issue Date</b>              | <b>: 16-Jun-2022</b>                                |
| <b>Sampler</b>                 | <b>: DARCY MORRIS, ROWLAND BOXALL</b>                 |                                |   |
| <b>Site</b>                    | <b>: HCHB Boat 01062022</b>                           |                                |   |
| <b>Quote number</b>            | <b>: AD/052/20 V2</b>                                 |                                |   |
| <b>No. of samples received</b> | <b>: 10</b>   |                                |   |
| <b>No. of samples analysed</b> | <b>: 10</b>   |                                |   |



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.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

### Signatories

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.

| <i>Signatories</i> | <i>Position</i>             | <i>Accreditation Category</i>         |
|--------------------|-----------------------------|---------------------------------------|
| Ankit Joshi        | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW    |
| Dilani Fernando    | Laboratory Coordinator      | Melbourne Inorganics, Springvale, VIC |
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## 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.

Key :  
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot  
 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  
 RPD = Relative Percentage Difference  
 # = Indicates failed QC

## Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

|   |  |  |             | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|---|--|--|-------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID  | Sample ID                                      | Method: Compound                                     | CAS Number  | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 4380956)</b> |  |  |             |                                   |      |                 |                  |         |                    |
| EM2210354-001   | Anonymous                                      | EK055G-SW: Ammonia as N                              | 7664-41-7   | 0.02                              | mg/L | 0.19            | 0.19             | 0.0     | No Limit           |
| EM2210354-010   | Anonymous                                      | EK055G-SW: Ammonia as N                              | 7664-41-7   | 0.02                              | mg/L | 0.03            | 0.06             | 76.9    | No Limit           |
| <b>EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 4380959)</b> |  |  |             |                                   |      |                 |                  |         |                    |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast        | EK055G-SW: Ammonia as N                              | 7664-41-7   | 0.02                              | mg/L | 0.04            | 0.04             | 0.0     | No Limit           |
| <b>EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4381020)</b>            |  |  |             |                                   |      |                 |                  |         |                    |
| EM2210354-001   | Anonymous                                      | EA015H: Total Dissolved Solids @180°C                | ----        | 10                                | mg/L | 34400           | 33200            | 3.4     | 0% - 20%           |
| EM2210354-011   | Anonymous                                      | EA015H: Total Dissolved Solids @180°C                | ----        | 10                                | mg/L | 4540            | 4170             | 8.5     | 0% - 20%           |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast        | EA015H: Total Dissolved Solids @180°C                | ----        | 10                                | mg/L | 82400           | 83200            | 1.0     | 0% - 20%           |
| EM2210468-012   | Anonymous                                      | EA015H: Total Dissolved Solids @180°C                | ----        | 10                                | mg/L | 1020            | 989              | 2.8     | 0% - 20%           |
| <b>EA045: Turbidity (QC Lot: 4380774)</b>   |  |  |             |                                   |      |                 |                  |         |                    |
| EM2210355-001   | Murray Mouth land                              | EA045: Turbidity                                     | ----        | 0.1                               | NTU  | 14.3            | 14.1             | 1.4     | 0% - 20%           |
| EM2210355-010   | 1.8km west of Salt Creek Cold, still, overcast | EA045: Turbidity                                     | ----        | 0.1                               | NTU  | 7.5             | 7.5              | 0.0     | 0% - 20%           |
| <b>ED037P: Alkalinity by PC Titrator (QC Lot: 4382898)</b>                            |  |  |             |                                   |      |                 |                  |         |                    |
| EM2210355-002   | Mark Point land                                | ED037-P: Hydroxide Alkalinity as CaCO <sub>3</sub>   | DMO-210-001 | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |
|   |  | ED037-P: Carbonate Alkalinity as CaCO <sub>3</sub>   | 3812-32-6   | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |
|   |  | ED037-P: Bicarbonate Alkalinity as CaCO <sub>3</sub> | 71-52-3     | 1                                 | mg/L | 103             | 103              | 0.0     | 0% - 20%           |
|   |  | ED037-P: Total Alkalinity as CaCO <sub>3</sub>       | ----        | 1                                 | mg/L | 103             | 103              | 0.0     | 0% - 20%           |
| EM2210476-001   | Anonymous                                      | ED037-P: Hydroxide Alkalinity as CaCO <sub>3</sub>   | DMO-210-001 | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |
|   |  | ED037-P: Carbonate Alkalinity as CaCO <sub>3</sub>   | 3812-32-6   | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |
|   |  | ED037-P: Bicarbonate Alkalinity as CaCO <sub>3</sub> | 71-52-3     | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |

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 Client : Dept for Environment & Water  
 Project : HCHB Monitoring Program



| Sub-Matrix: <b>WATER</b>  |   |                                      |            | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|---|---|--------------------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID  | Sample ID                               | Method: Compound                     | CAS Number | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>ED037P: Alkalinity by PC Titrator (QC Lot: 4382898) - continued</b>                |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210476-001   | Anonymous                               | ED037-P: Total Alkalinity as CaCO3   | ----       | 1                                 | mg/L | <1              | <1               | 0.0     | No Limit           |
| <b>ED045G: Chloride by Discrete Analyser (QC Lot: 4380136)</b>                        |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210354-009   | Anonymous                               | ED045G: Chloride                     | 16887-00-6 | 1                                 | mg/L | 6280            | 6220             | 1.0     | 0% - 20%           |
| EM2210354-001   | Anonymous                               | ED045G: Chloride                     | 16887-00-6 | 1                                 | mg/L | 18900           | 18900            | 0.1     | 0% - 20%           |
| <b>ED045G: Chloride by Discrete Analyser (QC Lot: 4380139)</b>                        |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210508-002   | Anonymous                               | ED045G: Chloride                     | 16887-00-6 | 1                                 | mg/L | 892             | 889              | 0.4     | 0% - 20%           |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast | ED045G: Chloride                     | 16887-00-6 | 1                                 | mg/L | 53900           | 53900            | 0.1     | 0% - 20%           |
| <b>EG052G: Silica by Discrete Analyser (QC Lot: 4380135)</b>                          |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210354-011   | Anonymous                               | EG052G: Reactive Silica              | ----       | 0.05                              | mg/L | 10.7            | 10.7             | 0.2     | 0% - 20%           |
| EM2210354-001   | Anonymous                               | EG052G: Reactive Silica              | ----       | 0.05                              | mg/L | 0.50            | 0.48             | 3.4     | 0% - 50%           |
| <b>EG052G: Silica by Discrete Analyser (QC Lot: 4380138)</b>                          |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast | EG052G: Reactive Silica              | ----       | 0.05                              | mg/L | 5.56            | 5.51             | 0.9     | 0% - 20%           |
| <b>EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4380134)</b>                    |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210354-005   | Anonymous                               | EK057G: Nitrite as N                 | 14797-65-0 | 0.01                              | mg/L | 0.04            | 0.04             | 0.0     | No Limit           |
| EM2210338-001   | Anonymous                               | EK057G: Nitrite as N                 | 14797-65-0 | 0.01                              | mg/L | <0.01           | <0.01            | 0.0     | No Limit           |
| <b>EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4380137)</b>                    |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210355-004   | Villa De Yumpa Cold, overcast, still    | EK057G: Nitrite as N                 | 14797-65-0 | 0.01                              | mg/L | <0.01           | <0.01            | 0.0     | No Limit           |
| EM2210492-003   | Anonymous                               | EK057G: Nitrite as N                 | 14797-65-0 | 0.01                              | mg/L | 0.22            | 0.22             | 0.0     | 0% - 20%           |
| <b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4380957)</b> |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210354-001   | Anonymous                               | EK059G: Nitrite + Nitrate as N       | ----       | 0.01                              | mg/L | 0.08            | 0.08             | 0.0     | No Limit           |
| EM2210354-010   | Anonymous                               | EK059G: Nitrite + Nitrate as N       | ----       | 0.01                              | mg/L | 0.02            | 0.03             | 0.0     | No Limit           |
| <b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4380960)</b> |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast | EK059G: Nitrite + Nitrate as N       | ----       | 0.01                              | mg/L | 0.04            | 0.03             | 0.0     | No Limit           |
| <b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4380940)</b>         |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210191-001   | Anonymous                               | EK061G: Total Kjeldahl Nitrogen as N | ----       | 0.1                               | mg/L | 9.7             | 10.0             | 3.1     | 0% - 20%           |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast | EK061G: Total Kjeldahl Nitrogen as N | ----       | 0.1                               | mg/L | 8.6             | 8.5              | 0.0     | No Limit           |
| <b>EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4380941)</b>           |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210191-001   | Anonymous                               | EK067G: Total Phosphorus as P        | ----       | 0.01                              | mg/L | 4.70            | 4.91             | 4.4     | 0% - 20%           |
| EM2210355-009   | Salt Creek Outlet Cold, still, overcast | EK067G: Total Phosphorus as P        | ----       | 0.01                              | mg/L | 0.20            | 0.58             | 98.1    | No Limit           |
| <b>EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4391795)</b>                        |   |                                      |            |                                   |      |                 |                  |         |                    |
| EM2210355-001   | Murray Mouth land                       | EP002: Dissolved Organic Carbon      | ----       | 1                                 | mg/L | 4               | 4                | 0.0     | No Limit           |

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 Client : Dept for Environment & Water  
 Project : HCHB Monitoring Program



Sub-Matrix: **WATER**

|  |   |                                 |            | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|--|---|---------------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID   | Sample ID   | Method: Compound                | CAS Number | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4391795) - continued</b> |   |                                 |            |                                   |      |                 |                  |         |                    |
| EM2210355-010  | 1.8km west of Salt Creek<br>Cold, still, overcast | EP002: Dissolved Organic Carbon | ----       | 1                                 | mg/L | 34              | 35               | 0.0     | 0% - 20%           |
| <b>EP005: Total Organic Carbon (TOC) (QC Lot: 4391794)</b>                 |   |                                 |            |                                   |      |                 |                  |         |                    |
| EM2210355-001  | Murray Mouth land                                 | EP005: Total Organic Carbon     | ----       | 1                                 | mg/L | 4               | 5                | 0.0     | No Limit           |
| EM2210355-010  | 1.8km west of Salt Creek<br>Cold, still, overcast | EP005: Total Organic Carbon     | ----       | 1                                 | mg/L | 39              | 39               | 0.0     | 0% - 20%           |

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

| Sub-Matrix: WATER   |            |      |      | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                           |                                   |     |
|---|------------|------|------|-----------------------------|---------------------------------------|---------------------------|-----------------------------------|-----|
|   |            |      |      |                             | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%)<br>Low High |     |
| Method: Compound  | CAS Number | LOR  | Unit | Result                      |                                       |                           |                                   |     |
| EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4380956) |            |      |      |                             |                                       |                           |                                   |     |
| EK055G-SW: Ammonia as N   | 7664-41-7  | 0.02 | mg/L | <0.02                       | 0.5 mg/L                              | 105                       | 81.1                              | 124 |
| EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4380959) |            |      |      |                             |                                       |                           |                                   |     |
| EK055G-SW: Ammonia as N   | 7664-41-7  | 0.02 | mg/L | <0.02                       | 0.5 mg/L                              | 106                       | 81.1                              | 124 |
| EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4381020)            |            |      |      |                             |                                       |                           |                                   |     |
| EA015H: Total Dissolved Solids @180°C   | ----       | 10   | mg/L | <10                         | 2000 mg/L                             | 99.0                      | 91.0                              | 110 |
|   |            |      |      | <10                         | 2460 mg/L                             | 99.9                      | 81.7                              | 118 |
|   |            |      |      | <10                         | 293 mg/L                              | 103                       | 91.0                              | 110 |
| EA045: Turbidity (QCLot: 4380774)   |            |      |      |                             |                                       |                           |                                   |     |
| EA045: Turbidity  | ----       | 0.1  | NTU  | <0.1                        | 40 NTU                                | 101                       | 88.1                              | 110 |
| ED037P: Alkalinity by PC Titrator (QCLot: 4382898)                            |            |      |      |                             |                                       |                           |                                   |     |
| ED037-P: Total Alkalinity as CaCO3  | ----       | ---- | mg/L | ----                        | 200 mg/L                              | 99.1                      | 85.0                              | 116 |
| ED045G: Chloride by Discrete Analyser (QCLot: 4380136)                        |            |      |      |                             |                                       |                           |                                   |     |
| ED045G: Chloride  | 16887-00-6 | 1    | mg/L | <1                          | 10 mg/L                               | 109                       | 85.0                              | 115 |
|   |            |      |      | <1                          | 1000 mg/L                             | 104                       | 85.0                              | 122 |
| ED045G: Chloride by Discrete Analyser (QCLot: 4380139)                        |            |      |      |                             |                                       |                           |                                   |     |
| ED045G: Chloride  | 16887-00-6 | 1    | mg/L | <1                          | 10 mg/L                               | 106                       | 85.0                              | 115 |
|   |            |      |      | <1                          | 1000 mg/L                             | 102                       | 85.0                              | 122 |
| EG052G: Silica by Discrete Analyser (QCLot: 4380135)                          |            |      |      |                             |                                       |                           |                                   |     |
| EG052G: Reactive Silica   | ----       | 0.05 | mg/L | <0.05                       | 5 mg/L                                | 109                       | 78.9                              | 118 |
| EG052G: Silica by Discrete Analyser (QCLot: 4380138)                          |            |      |      |                             |                                       |                           |                                   |     |
| EG052G: Reactive Silica   | ----       | 0.05 | mg/L | <0.05                       | 5 mg/L                                | 111                       | 78.9                              | 118 |
| EK057G: Nitrite as N by Discrete Analyser (QCLot: 4380134)                    |            |      |      |                             |                                       |                           |                                   |     |
| EK057G: Nitrite as N  | 14797-65-0 | 0.01 | mg/L | <0.01                       | 0.5 mg/L                              | 109                       | 90.9                              | 112 |
| EK057G: Nitrite as N by Discrete Analyser (QCLot: 4380137)                    |            |      |      |                             |                                       |                           |                                   |     |
| EK057G: Nitrite as N  | 14797-65-0 | 0.01 | mg/L | <0.01                       | 0.5 mg/L                              | 109                       | 90.9                              | 112 |
| EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4380957) |            |      |      |                             |                                       |                           |                                   |     |
| EK059G: Nitrite + Nitrate as N  | ----       | 0.01 | mg/L | <0.01                       | 0.5 mg/L                              | 111                       | 90.0                              | 117 |
| EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4380960) |            |      |      |                             |                                       |                           |                                   |     |
| EK059G: Nitrite + Nitrate as N  | ----       | 0.01 | mg/L | <0.01                       | 0.5 mg/L                              | 102                       | 90.0                              | 117 |
| EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4380940)         |            |      |      |                             |                                       |                           |                                   |     |
| EK061G: Total Kjeldahl Nitrogen as N  | ----       | 0.1  | mg/L | <0.1                        | 5 mg/L                                | 85.0                      | 70.0                              | 117 |
| EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4380941)           |            |      |      |                             |                                       |                           |                                   |     |



| Sub-Matrix: WATER   |  |                         |            | Matrix Spike (MS) Report |                  |                       |      |
|---|--|-------------------------|------------|--------------------------|------------------|-----------------------|------|
|   |  |                         |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID  | Sample ID                                      | Method: Compound        | CAS Number | Concentration            | MS               | Low                   | High |
| EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4380956) |  |                         |            |                          |                  |                       |      |
| EM2210354-002   | Anonymous                                      | EK055G-SW: Ammonia as N | 7664-41-7  | 0.5 mg/L                 | 123              | 70.0                  | 130  |
| EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4380959) |  |                         |            |                          |                  |                       |      |
| EM2210355-010   | 1.8km west of Salt Creek Cold, still, overcast | EK055G-SW: Ammonia as N | 7664-41-7  | 0.5 mg/L                 | 81.3             | 70.0                  | 130  |
| ED045G: Chloride by Discrete Analyser (QCLot: 4380136)                        |  |                         |            |                          |                  |                       |      |
| EM2210354-002   | Anonymous                                      | ED045G: Chloride        | 16887-00-6 | 400 mg/L                 | # Not Determined | 70.0                  | 142  |
| ED045G: Chloride by Discrete Analyser (QCLot: 4380139)                        |  |                         |            |                          |                  |                       |      |
| EM2210355-010   | 1.8km west of Salt Creek Cold, still, overcast | ED045G: Chloride        | 16887-00-6 | 400 mg/L                 | # Not Determined | 70.0                  | 142  |
| EG052G: Silica by Discrete Analyser (QCLot: 4380135)                          |  |                         |            |                          |                  |                       |      |
| EM2210354-002   | Anonymous                                      | EG052G: Reactive Silica | ----       | 5 mg/L                   | 102              | 80.0                  | 120  |
| EG052G: Silica by Discrete Analyser (QCLot: 4380138)                          |  |                         |            |                          |                  |                       |      |
| EM2210355-010   | 1.8km west of Salt Creek Cold, still, overcast | EG052G: Reactive Silica | ----       | 5 mg/L                   | # 73.7           | 80.0                  | 120  |
| EK057G: Nitrite as N by Discrete Analyser (QCLot: 4380134)                    |  |                         |            |                          |                  |                       |      |

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 Client : Dept for Environment & Water  
 Project : HCHB Monitoring Program



Sub-Matrix: **WATER**

|  |  |                                      |            | Matrix Spike (MS) Report |                  |                       |      |
|--|--|--------------------------------------|------------|--------------------------|------------------|-----------------------|------|
|  |  |                                      |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID   | Sample ID                                      | Method: Compound                     | CAS Number | Concentration            | MS               | Low                   | High |
| <b>EK057G: Nitrite as N by Discrete Analyser (QCLot: 4380134) - continued</b>        |  |                                      |            |                          |                  |                       |      |
| EM2210338-002  | Anonymous                                      | EK057G: Nitrite as N                 | 14797-65-0 | 0.5 mg/L                 | 96.6             | 80.0                  | 114  |
| <b>EK057G: Nitrite as N by Discrete Analyser (QCLot: 4380137)</b>                    |  |                                      |            |                          |                  |                       |      |
| EM2210355-005  | Stoney Well Cold, still, overcast              | EK057G: Nitrite as N                 | 14797-65-0 | 0.5 mg/L                 | 102              | 80.0                  | 114  |
| <b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4380957)</b> |  |                                      |            |                          |                  |                       |      |
| EM2210354-002  | Anonymous                                      | EK059G: Nitrite + Nitrate as N       | ----       | 0.5 mg/L                 | # 60.8           | 70.0                  | 130  |
| <b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4380960)</b> |  |                                      |            |                          |                  |                       |      |
| EM2210355-010  | 1.8km west of Salt Creek Cold, still, overcast | EK059G: Nitrite + Nitrate as N       | ----       | 0.5 mg/L                 | 78.8             | 70.0                  | 130  |
| <b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4380940)</b>         |  |                                      |            |                          |                  |                       |      |
| EM2210355-001  | Murray Mouth land                              | EK061G: Total Kjeldahl Nitrogen as N | ----       | 5 mg/L                   | 96.6             | 70.0                  | 130  |
| <b>EP002: Dissolved Organic Carbon (DOC) (QCLot: 4391795)</b>                        |  |                                      |            |                          |                  |                       |      |
| EM2210355-002  | Mark Point land                                | EP002: Dissolved Organic Carbon      | ----       | 100 mg/L                 | # 141            | 75.0                  | 117  |
| <b>EP005: Total Organic Carbon (TOC) (QCLot: 4391794)</b>                            |  |                                      |            |                          |                  |                       |      |
| EM2210355-002  | Mark Point land                                | EP005: Total Organic Carbon          | ----       | 100 mg/L                 | 102              | 76.6                  | 125  |