

| Monitoring Event: Oct-2021           |         |                         | Field    | Mereenie   |            |            |            |            | Dingo/Surprise |            |            | Palm Valley |            |                        |                              |                              |                |
|--------------------------------------|---------|-------------------------|----------|------------|------------|------------|------------|------------|----------------|------------|------------|-------------|------------|------------------------|------------------------------|------------------------------|----------------|
| Field Parameters                     | Units   | ANZECC (2000) Livestock | Location | RN004620   | RN018955   | RN017898   | RN013861   | RN017657   | RN011831       | RN002943   | RN018851   | RN006503    | RN012024   | Palm Creek Lower Oasis | Palm Valley Area Saring No 8 | Palm Valley Area Saring No 9 | Pimella Spring |
|                                      |         |                         | Date     | 27/10/2021 | 27/10/2021 | 27/10/2021 | 27/10/2021 | 27/10/2021 | 24/10/2021     | 24/10/2021 | 26/10/2021 | 25/10/2021  | 25/10/2021 | 25/10/2021             | 25/10/2021                   | 25/10/2021                   | 25/10/2021     |
|                                      |         |                         | LOR      |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| Electrical conductivity              | µS/cm   | -                       | 1        | 125        | 366        | 442        | 3160       | 907        | 1433           | dry        | 1412       | 1546        | 1186       | 52.5                   | dry                          | 7740                         | dry            |
| pH                                   | pH Unit | -                       | 0.01     | 7.05       | 7.36       | 7.23       | 7.41       | 7.05       | 7.36           | dry        | 7.01       | 7.15        | 6.99       | 8.12                   | dry                          | 9.3                          | dry            |
| Temperature                          | °C      | -                       | 0.1      | 27.9       | 28.3       | 26.6       | 26.2       | 25.5       | 27.4           | dry        | 28.5       | 24.2        | 24.8       | 31.1                   | dry                          | 28.1                         | dry            |
| <b>General Parameters</b>            |         |                         |          |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| pH (laboratory)                      | pH Unit | -                       | 0.01     | 8.14       | 7.92       | 7.92       | 8.17       | 8.06       | 8.3            | -          | 8.25       | 8.3         | 8.31       | -                      | -                            | -                            | -              |
| Electrical conductivity (laboratory) | µS/cm   | -                       | 1        | 1280       | 378        | 457        | 3190       | 940        | 1420           | -          | 1430       | 1500        | 1130       | -                      | -                            | -                            | -              |
| Total dissolved solids <sup>1</sup>  | mg/L    | 4000                    | 1        | 832        | 246        | 297        | 2070       | 611        | 923            | -          | 930        | 975         | 734        | -                      | -                            | -                            | -              |
| Total suspended solids               | mg/L    | -                       | 5        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | 8           | <LOR       | -                      | -                            | -                            | -              |
| Gross alpha                          | #N/A    | 0.5                     | #N/A     | -          | -          | -          | -          | -          | -              | -          | -          | -           | -          | -                      | -                            | -                            | -              |
| Gross beta                           | #N/A    | -                       | #N/A     | -          | -          | -          | -          | -          | -              | -          | -          | -           | -          | -                      | -                            | -                            | -              |
| Gross beta activity - 40K            | #N/A    | -                       | #N/A     | -          | -          | -          | -          | -          | -              | -          | -          | -           | -          | -                      | -                            | -                            | -              |
| Gross beta (excluding k-40)          | #N/A    | 0.5                     | #N/A     | -          | -          | -          | -          | -          | -              | -          | -          | -           | -          | -                      | -                            | -                            | -              |
| <b>Major Anions and Cations</b>      |         |                         |          |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| Bicarbonate                          | mg/L    | -                       | 1        | 125        | 47         | 58         | 208        | 98         | 292            | -          | 203        | 258         | 321        | -                      | -                            | -                            | -              |
| Carbonate                            | mg/L    | -                       | 1        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | 3              | -          | <LOR       | 3           | 4          | -                      | -                            | -                            | -              |
| Chloride                             | mg/L    | -                       | 1        | 248        | 58         | 70         | 97         | 179        | 236            | -          | 198        | 198         | 139        | -                      | -                            | -                            | -              |
| Sulphate                             | mg/L    | 1000                    | 1        | 156        | 37         | 43         | 1680       | 93         | 105            | -          | 115        | 248         | 62         | -                      | -                            | -                            | -              |
| Nitrate                              | mg/L    | 400                     | 0.01     | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | 0.02       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Nitrite                              | mg/L    | 30                      | 0.01     | 1.36       | 0.52       | 1.54       | <LOR       | 1.42       | 0.82           | -          | 10.6       | 0.45        | 2.44       | -                      | -                            | -                            | -              |
| Fluoride                             | mg/L    | 2                       | 0.1      | 0.5        | 0.5        | 0.6        | 0.9        | 0.5        | 1.1            | -          | 0.9        | <LOR        | 0.5        | -                      | -                            | -                            | -              |
| Sodium                               | mg/L    | -                       | 1        | 132        | 46         | 56         | 148        | 98         | 134            | -          | 144        | 139         | 86         | -                      | -                            | -                            | -              |
| Potassium                            | mg/L    | -                       | 1        | 24         | 12         | 14         | 8          | 19         | 15             | -          | 34         | 11          | 6          | -                      | -                            | -                            | -              |
| Calcium                              | mg/L    | 1000                    | 1        | 59         | 11         | 12         | 565        | 38         | 75             | -          | 72         | 118         | 75         | -                      | -                            | -                            | -              |
| Magnesium                            | mg/L    | -                       | 1        | 39         | 9          | 12         | 111        | 29         | 58             | -          | 40         | 52          | 56         | -                      | -                            | -                            | -              |
| Iron                                 | mg/L    | -                       | 0.05     | 0.12       | <LOR       | <LOR       | 0.26       | <LOR       | <LOR           | -          | 0.18       | 2           | <LOR       | -                      | -                            | -                            | -              |
| <b>Hydrocarbons</b>                  |         |                         |          |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| TRH: C6-C10                          | µg/L    | -                       | 20       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| TRH: >C10-C40                        | µg/L    | -                       | 100      | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Benzene                              | µg/L    | -                       | 1        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Toluene                              | µg/L    | -                       | 2        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Ethylbenzene                         | µg/L    | -                       | 2        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Total Xylenes                        | µg/L    | -                       | 2        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Naphthalene                          | µg/L    | -                       | 5        | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| PAH Suite                            | µg/L    | -                       | 0.5      | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| <b>Dissolved Gases</b>               |         |                         |          |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| Methane                              | µg/L    | -                       | 10       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Ethane                               | µg/L    | -                       | 10       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Propane                              | µg/L    | -                       | 10       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| <b>Dissolved Metals/metalloids</b>   |         |                         |          |            |            |            |            |            |                |            |            |             |            |                        |                              |                              |                |
| Chromium                             | mg/L    | 1                       | 0.001    | 0.003      | 0.004      | <LOR       | <LOR       | 0.004      | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Copper <sup>2</sup>                  | mg/L    | 1                       | 0.001    | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | 0.002      | -                      | -                            | -                            | -              |
| Lead                                 | mg/L    | 0.1                     | 0.001    | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Manganese                            | mg/L    | -                       | 0.001    | 0.006      | 0.012      | 0.006      | 0.088      | 0.004      | 0.005          | -          | 0.03       | 0.054       | <LOR       | -                      | -                            | -                            | -              |
| Mercury                              | mg/L    | 0.002                   | 0.0001   | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Silver                               | mg/L    | -                       | 0.001    | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Arsenic                              | mg/L    | 0.5                     | 0.001    | <LOR       | <LOR       | <LOR       | 0.003      | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Barium                               | mg/L    | -                       | 0.001    | 0.045      | 0.039      | 0.092      | 0.031      | 0.049      | 0.072          | -          | 0.053      | 0.054       | 0.061      | -                      | -                            | -                            | -              |
| Boron                                | mg/L    | 5                       | 0.05     | 0.23       | 0.15       | 0.22       | 0.39       | 0.2        | 0.3            | -          | 0.42       | 0.09        | 0.2        | -                      | -                            | -                            | -              |
| Cadmium                              | mg/L    | 0.01                    | 0.0001   | 0.0002     | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Lithium                              | mg/L    | -                       | 0.001    | 0.009      | <LOR       | 0.004      | 0.058      | 0.003      | 0.015          | -          | 0.008      | 0.046       | 0.02       | -                      | -                            | -                            | -              |
| Selenium                             | mg/L    | 0.02                    | 0.01     | <LOR       | <LOR       | <LOR       | <LOR       | <LOR       | <LOR           | -          | <LOR       | <LOR        | <LOR       | -                      | -                            | -                            | -              |
| Silica                               | mg/L    | -                       | 0.05     | 16.4       | 14.6       | 14.5       | 23.5       | 15.9       | 16.7           | -          | 48.3       | 20.3        | 31.1       | -                      | -                            | -                            | -              |
| Strontium                            | mg/L    | -                       | 0.001    | 0.514      | 0.133      | 0.337      | 6.26       | 0.344      | 0.768          | -          | 0.859      | 0.977       | 0.338      | -                      | -                            | -                            | -              |
| Zinc                                 | mg/L    | 20                      | 0.005    | 0.019      | 0.014      | 0.038      | <LOR       | 0.014      | 0.095          | -          | 0.024      | <LOR        | <LOR       | -                      | -                            | -                            | -              |

1, 2 - guideline value for beef cattle

0.5

Guideline value exceeded

- Not analysed