



## April 2025 - Groundwater, Surface Water and Surface Gas Monitoring Analytical Results

|     | Field   |                                 |            |                                           |            |              | Inorganics   |                             |                |      |                 | Physical Parameters            |      |
|-----|---------|---------------------------------|------------|-------------------------------------------|------------|--------------|--------------|-----------------------------|----------------|------|-----------------|--------------------------------|------|
|     | Methane | Depth to groundwater (measured) | DO (Field) | Electrical Conductivity (Non Compensated) | pH (Field) | Temp (Field) | Ammonia as N | Alkalinity (total) as CaCO3 | Nitrate (as N) | TOC  | Iron (filtered) | Electrical conductivity *(lab) | TSS  |
|     | ppm     | m                               | mg/L       | µS/cm                                     | -          | oC           | mg/L         | mg/L                        | mg/L           | mg/L | mg/L            | µS/cm                          | mg/L |
| EQL | 5       | 0.01                            | 0.01       | 1                                         | 0.01       | 0.1          | 0.01         | 1                           | 0.01           | 1    | 0.05            | 1                              | 5    |

| Site ID     | EPL No. | Location Code       | Sampled Date |          |      |      |        |      |      |       |     |       |     |       |     |     |
|-------------|---------|---------------------|--------------|----------|------|------|--------|------|------|-------|-----|-------|-----|-------|-----|-----|
| Buttonderry | 1       | B_BTU               | 10 Apr 2025  | -        | -    | 1.23 | 866    | 6.79 | 18.9 | 0.12  | 44  | <0.01 | 60  | 2.22  | -   | 78  |
| Buttonderry | 2       | B_BTM               | 10 Apr 2025  | -        | -    | 0.6  | 573.9  | 6.62 | 17.8 | 0.16  | 56  | <0.01 | 37  | 1.43  | -   | 13  |
| Buttonderry | 3       | B_BTD               | 10 Apr 2025  | -        | -    | 1.19 | 996    | 7.05 | 18.2 | 0.39  | 119 | 1.01  | 12  | <0.05 | -   | <5  |
| Buttonderry | 4       | B_BT20              | 10 Apr 2025  | -        | 1.4  | 3.45 | 10,391 | 6.5  | 20.5 | 0.28  | 524 | 0.03  | 15  | 3.24  | -   | -   |
| Buttonderry | 5       | B_BT19              | 07 Apr 2025  | -        | 0.35 | 0.9  | 11,964 | 6.53 | 17.8 | 0.12  | 544 | <0.01 | 1   | <0.05 | -   | -   |
| Buttonderry | 6       | B_BT17              | 10 Apr 2025  | -        | 2.7  | 6.24 | 14,223 | 6.76 | 20.4 | <0.01 | 653 | <0.01 | 5   | <0.05 | -   | -   |
| Buttonderry | 7       | B_BT16              | 07 Apr 2025  | -        | 2.87 | 2.03 | 11,528 | 6.46 | 17.7 | 0.04  | 606 | <0.01 | 1   | <0.05 | -   | -   |
| Buttonderry | 9       | B_BT4               | 07 Apr 2025  | -        | 6.3  | 1.86 | 14,805 | 5.37 | 20.1 | 0.41  | 154 | <0.01 | 2   | 4.48  | -   | -   |
| Buttonderry | 11      | B_BT3               | 07 Apr 2025  | -        | 1.85 | 2.59 | 14,955 | 5.49 | 21.4 | 0.42  | 157 | <0.01 | 5   | 35.5  | -   | -   |
| Buttonderry | 12      | B_TB1               | 10 Apr 2025  | -        | 1.64 | 0.96 | 1,119  | 6.82 | 22.6 | 2.96  | 496 | <0.01 | 31  | 7.01  | -   | -   |
| Buttonderry | 13      | B_TB2               | 10 Apr 2025  | -        | 1.71 | 5.67 | 9,364  | 5.47 | 21.1 | 0.08  | 102 | <0.01 | 5   | <0.05 | -   | -   |
| Buttonderry | 14      | B_B                 | 07 Apr 2025  | -        | 3.86 | 3.97 | 14,139 | 6.22 | 23.1 | <0.01 | 192 | 0.02  | 4   | 0.06  | -   | -   |
| Buttonderry | 15      | Area 1              | 23 Apr 2025  | <5*      | -    | -    | -      | -    | -    | -     | -   | -     | -   | -     | -   | -   |
| Buttonderry | 16      | Area 2              | 23 Apr 2025  | 9,200*   | -    | -    | -      | -    | -    | -     | -   | -     | -   | -     | -   | -   |
| Buttonderry | 17      | Area 3              | 23 Apr 2025  | 230,000* | -    | -    | -      | -    | -    | -     | -   | -     | -   | -     | -   | -   |
| Buttonderry | 18      | Gatehouse           | 23 Apr 2025  | <5*      | -    | -    | -      | -    | -    | -     | -   | -     | -   | -     | -   | -   |
| Buttonderry | 19      | B_Discharge Point 1 | 10 Apr 2025  | -        | -    | 7.87 | 994    | 6.65 | 22.9 | 0.05  | -   | -     | 28  | -     | 850 | 262 |
| Buttonderry | 20      | B_Discharge Point 2 | 10 Apr 2025  | -        | -    | 5.54 | 990    | 7.27 | 21.8 | 1.27  | -   | -     | 22  | -     | 887 | 40  |
| Buttonderry | 22      | B_101S              | 10 Apr 2025  | -        | 3.95 | 3.16 | 15,497 | 6.02 | 21.5 | <0.01 | 257 | <0.01 | 7   | 1.83  | -   | -   |
| Buttonderry | 23      | B_102S              | 10 Apr 2025  | -        | 2.83 | 5.41 | 6,562  | 4.81 | 20.8 | 0.03  | 31  | 0.02  | 20  | 0.06  | -   | -   |
| Buttonderry | 24      | B_103D              | 10 Apr 2025  | -        | 2.79 | 5.37 | 7,106  | 5.38 | 23.1 | 0.16  | 59  | 0.02  | 50  | 0.07  | -   | -   |
| Buttonderry | 25      | B_104S              | 10 Apr 2025  | -        | 2.39 | 4.89 | 1,915  | 6.62 | 22.2 | 0.21  | 420 | 0.02  | 46  | 15.4  | -   | -   |
| Buttonderry | 26      | B_105S              | 10 Apr 2025  | -        | 3.52 | 2.09 | 3,083  | 6.33 | 23.2 | 0.59  | 510 | <0.01 | 120 | 13.1  | -   | -   |
| Buttonderry | 27      | B_617S              | 10 Apr 2025  | -        | 2.57 | 2.62 | 11,875 | 4.99 | 21.6 | 0.64  | 114 | <0.01 | 24  | 21.0  | -   | -   |
| Buttonderry | 28      | B_613s              | 10 Apr 2025  | -        | 3.59 | 1.16 | 9,276  | 5.14 | 20.8 | 0.53  | 133 | <0.01 | 16  | 48.0  | -   | -   |
| Buttonderry | 29      | B_902               | 10 Apr 2025  | -        | 3.11 | 6.13 | 13,531 | 6.5  | 23.7 | <0.01 | 631 | <0.01 | 6   | <0.05 | -   | -   |
| Buttonderry | 30      | B_901               | 07 Apr 2025  | -        | 5.38 | 0.89 | 10,542 | 6.4  | 18.6 | 0.10  | 558 | <0.01 | 2   | <0.05 | -   | -   |
| Buttonderry | 31      | B_110D              | 07 Apr 2025  | -        | 4.95 | 1.14 | 13,111 | 6.14 | 19.9 | 0.03  | 436 | <0.01 | 12  | <0.05 | -   | -   |
| Buttonderry | 32      | B_111S              | 10 Apr 2025  | -        | 3.39 | 2.79 | 14,061 | 3.94 | 21.8 | 0.14  | <1  | <0.01 | 28  | 22.7  | -   | -   |
| Buttonderry | 33      | B_112D              | 07 Apr 2025  | -        | 3.24 | 1.88 | 11,193 | 4.21 | 19.8 | 0.13  | 9   | <0.01 | 11  | 11.7  | -   | -   |
| Buttonderry | 34      | B_113s              | 10 Apr 2025  | -        | 1.94 | 2.83 | 2,581  | 6.42 | 22.1 | 0.72  | 322 | <0.01 | 30  | 13.3  | -   | -   |

Notes: \* denotes maximum concentration recorded within monitoring area.

^ denotes reading collected from sewer sump outside of office building

NT denotes 'not tested', Laboratory error, field pH was collected

A copy of the Environment Protection Licence (EPL) can be viewed at:

[5955.pdf \(nsw.gov.au\)](#)

Condition M2.2 - Air Monitoring Requirements - Monthly Surface Gas

Condition M2.3 - Water and/ or Land Monitoring Requirements - Quarterly/

Yearly Groundwater and Surface Water

Date pollution monitoring data was obtained by licensee: 02/05/2025

Buttonderry Waste Management Facility - EPL 5955

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