

## Subsurface Gas Monitoring

| EPL No:                                              |                 | 11584                              |                   |                         |                 |                 |
|------------------------------------------------------|-----------------|------------------------------------|-------------------|-------------------------|-----------------|-----------------|
| Date of Reported Results                             |                 | 5/4/2023 - 1/8/2023                |                   |                         |                 |                 |
|                                                      |                 | Pollutant                          |                   |                         |                 |                 |
| Date of Sampling rounds                              | Sampling Method | Monitoring Location Identification | Methane (% v/v)*  | Carbon Dioxide (% v/v)* | Oxygen (% v/v)* | Flow rate (l/h) |
| 5/4/2023<br>Follow up - Exceedance                   | Manual Purging  | HPGAS1R (10)                       | 0                 | 0.1                     | 20.8            | -0.2            |
|                                                      |                 | HPGAS2R (11)                       | 0                 | 0.1                     | 20.9            | -0.1            |
|                                                      |                 | HPGAS3R (12)                       | 0                 | 0.1                     | 20.7            | -0.1            |
|                                                      |                 | HPGAS4 (13)                        | 0                 | 3.6                     | 18.3            | -0.3            |
|                                                      |                 | HPGAS5 (14)                        | 0                 | 0.1                     | 21              | -0.2            |
|                                                      |                 | HPGAS6 (15)                        | 0                 | 10.7                    | 10.5            | -0.2            |
|                                                      |                 | HPGAS7 (16)                        | 0                 | 0.1                     | 20.9            | -0.2            |
|                                                      |                 | HPGAS8 (17)                        | 0                 | 0.1                     | 20.7            | -0.2            |
|                                                      |                 | HPGAS9S (18)                       | 0                 | 0.1                     | 20.6            | -0.2            |
|                                                      |                 | HPGAS9D (19)                       | 0                 | 0.1                     | 20.7            | -0.2            |
|                                                      |                 | HPGAS10 (20)                       | 21.9              | 2.2                     | 14.8            | -0.2            |
| 6/4/2023<br>Retest - exceedance                      | Manual Purging  | HPGAS9S (18)                       | 0                 | 0.1                     | 20.3            | 0               |
|                                                      |                 | HPGAS9D (19)                       | 0                 | 0.1                     | 20.3            | 0               |
|                                                      |                 | HPGAS10 (20)                       | 26.4              | 2.7                     | 12.4            | 0.3             |
| 12/4/2023<br>Follow up (Sampled by GHD) - Exceedance | No Purging      | HPGAS1R (10)                       | 0                 | 3.6                     | 13.1            | 0               |
|                                                      |                 | HPGAS2R (11)                       | 0                 | 0.5                     | 20.6            | 0.2             |
|                                                      |                 | HPGAS3R (12)                       | 0                 | 0.3                     | 20.5            | 0               |
|                                                      |                 | HPGAS4 (13)                        | 0                 | 6.1                     | 16.1            | 0.1             |
|                                                      |                 | HPGAS5 (14)                        | 0                 | 0.3                     | 20.5            | 0.7             |
|                                                      |                 | HPGAS6 (15)                        | 0                 | 12.6                    | 9.6             | 0               |
|                                                      |                 | HPGAS7 (16)                        | 0                 | 1.5                     | 19              | 0               |
|                                                      |                 | HPGAS8 (17)                        | 0                 | 15.1                    | 8.3             | 0.5             |
|                                                      |                 | HPGAS9S (18)                       | 0.6               | 1.8                     | 19.6            | 0               |
|                                                      |                 | HPGAS9D (19)                       | 1.6               | 7.2                     | 14.3            | -4.7            |
|                                                      |                 | HPGAS10 (20)                       | 37.5              | 4.7                     | 10.4            | 0               |
| 12/4/2023 Retest - Exceedance                        | Manual Purging  | HPGAS9D (19)                       | 0                 | 0.1                     | 20.7            | 0               |
|                                                      |                 | HPGAS10 (20)                       | 21                | 2.9                     | 14.9            | 0               |
| 19/4/2023<br>Follow up - Exceedance                  | No Purging      | HPGAS1R (10)                       | 0                 | 3.6                     | 13.1            | 0.1             |
|                                                      |                 | HPGAS2R (11)                       | 0                 | 0.3                     | 20.7            | -0.5            |
|                                                      |                 | HPGAS3R (12)                       | 0                 | 0.1                     | 20.6            | 0               |
|                                                      |                 | HPGAS4 (13)                        | 0                 | 10.4                    | 12.5            | 0               |
|                                                      |                 | HPGAS5 (14)                        | 0                 | 0.5                     | 20.5            | 0.6             |
|                                                      |                 | HPGAS6 (15)                        | 0                 | 13.2                    | 8.4             | 0               |
|                                                      |                 | HPGAS7 (16)                        | Inaccessible Well |                         |                 |                 |
|                                                      |                 | HPGAS8 (17)                        | 0                 | 14.4                    | 7.6             | 0               |
|                                                      |                 | HPGAS9S (18)                       | 42.1              | 16.7                    | 6.5             | 0               |
|                                                      |                 | HPGAS9D (19)                       | 0.9               | 6.7                     | 13.7            | 0               |
|                                                      |                 | HPGAS10 (20)                       | 50.5              | 8                       | 1.5             | 0.1             |
| 19/4/2023<br>Retest - Exceedance                     | Manual Purging  | HPGAS9S (18)                       | 16.7              | 7.7                     | 14.1            | 0               |
|                                                      |                 | HPGAS9D (19)                       | 0                 | 0.1                     | 20.1            | 0               |
|                                                      |                 | HPGAS10 (20)                       | 20.7              | 3.2                     | 13.9            | 0               |
| 21/4/2023<br>Sampled by GHD                          | No Purging      | HPGAS1R (10)                       | 0                 | 4                       | 12.5            | -0.2            |
|                                                      |                 | HPGAS2R (11)                       | 0                 | 0.4                     | 20.2            | -0.2            |
|                                                      |                 | HPGAS3R (12)                       | 0                 | 0.1                     | 20.4            | 0               |
|                                                      |                 | HPGAS4 (13)                        | 0                 | 8.6                     | 13.6            | 0               |
|                                                      |                 | HPGAS5 (14)                        | 0                 | 0.4                     | 20.5            | 0.3             |
|                                                      |                 | HPGAS6 (15)                        | 0                 | 12.2                    | 9.4             | 0               |
|                                                      |                 | HPGAS7 (16)                        | 0                 | 1.8                     | 18.6            | -0.1            |
|                                                      |                 | HPGAS8 (17)                        | 0                 | 13.6                    | 7.8             | -0.6            |
|                                                      |                 | HPGAS9S (18)                       | 39.2              | 13.9                    | 8.2             | 0               |
|                                                      |                 | HPGAS9D (19)                       | 0.6               | 3.8                     | 16.6            | 0.1             |
|                                                      |                 | HPGAS10 (20)                       | 36.4              | 9.2                     | 3.1             | -0.1            |
| 26/4/2023<br>Follow up - Exceedance                  | No Purging      | HPGAS1R (10)                       | 0                 | 4.7                     | 12.3            |                 |
|                                                      |                 | HPGAS2R (11)                       | 0                 | 0.4                     | 21.1            | -3.5            |
|                                                      |                 | HPGAS3R (12)                       | 0                 | 0.1                     | 20.9            | 1.2             |
|                                                      |                 | HPGAS4 (13)                        | 0                 | 9.5                     | 13.7            | 0.1             |
|                                                      |                 | HPGAS5 (14)                        | 0                 | 0.6                     | 20.8            | 1.3             |
|                                                      |                 | HPGAS6 (15)                        | 0                 | 11.2                    | 10.7            | 0               |
|                                                      |                 | HPGAS7 (16)                        | Inaccessible Well |                         |                 |                 |
|                                                      |                 | HPGAS8 (17)                        | 0                 | 14.5                    | 7.4             | -0.1            |

|                                                  |                |              |      |      |      |      |
|--------------------------------------------------|----------------|--------------|------|------|------|------|
|                                                  |                | HPGAS9S (18) | 45.5 | 16.8 | 6.3  | 0    |
|                                                  |                | HPGAS9D (19) | 0.4  | 5.8  | 14.4 | 0    |
|                                                  |                | HPGAS10 (20) | 69.7 | 8.3  | 1.7  | 0.1  |
| 26/4/2023 Retest - Exceedance                    | Manual Purging | HPGAS9S (18) | 17.8 | 7    | 14.5 | 0    |
|                                                  |                | HPGAS10 (20) | 18.9 | 3    | 14.7 | 0.1  |
| 28/4/2023 Retest - Exceedance                    | No Purging     | HPGAS9S (18) | 5.3  | 5.8  | 16.9 | 0    |
|                                                  |                | HPGAS9D (19) | 0.7  | 5.9  | 13.7 | 0    |
|                                                  |                | HPGAS10 (20) | 80.3 | 7.7  | 0.2  | 0.2  |
| 28/4/2023 Retest - Exceedance                    | Manual Purging | HPGAS9S (18) | 0    | 0.1  | 19.9 | 0    |
|                                                  |                | HPGAS10 (20) | 24.4 | 3.2  | 13.6 | 0.2  |
| 2/5/2023<br>Follow up - Exceedance               | No Purging     | HPGAS1R (10) | 0    | 0.5  | 19.9 | 0    |
|                                                  |                | HPGAS2R (11) | 0    | 0.5  | 20.6 | 0    |
|                                                  |                | HPGAS3R (12) | 0    | 0.2  | 20.5 | 0.1  |
|                                                  |                | HPGAS4 (13)  | 0    | 2.8  | 17.2 | 0.1  |
|                                                  |                | HPGAS5 (14)  | 0    | 0.6  | 20.6 | 0.1  |
|                                                  |                | HPGAS6 (15)  | 0    | 12.3 | 9.7  | 0    |
|                                                  |                | HPGAS7 (16)  | 0    | 4.9  | 13.5 | 0    |
|                                                  |                | HPGAS8 (17)  | 0    | 15.1 | 6.7  | 0.3  |
|                                                  |                | HPGAS9S (18) | 0.1  | 0.6  | 20.3 | 0    |
|                                                  |                | HPGAS9D (19) | 0.6  | 11.3 | 10.1 | 0    |
| 2/5/2023 Retest - Exceedance                     | Manual Purging | HPGAS10 (20) | 47.1 | 3.2  | 4.9  | 0.1  |
|                                                  |                | HPGAS10 (20) | 16   | 1.2  | 16.6 | 0.1  |
| 9/5/2023<br>Follow up - Exceedance               | No Purging     | HPGAS1R (10) | 0    | 5.9  | 10.1 | 0    |
|                                                  |                | HPGAS2R (11) | 0    | 0.5  | 20.9 | 0    |
|                                                  |                | HPGAS3R (12) | 0    | 0.2  | 20.9 | 0    |
|                                                  |                | HPGAS4 (13)  | 0    | 1.9  | 18.9 | 0    |
|                                                  |                | HPGAS5 (14)  | 0    | 0.6  | 20.8 | 0    |
|                                                  |                | HPGAS6 (15)  | 0    | 13   | 9.4  | 0    |
|                                                  |                | HPGAS7 (16)  | 0    | 7.4  | 9.7  | -0.1 |
|                                                  |                | HPGAS8 (17)  | 0    | 15   | 6.1  | 0    |
|                                                  |                | HPGAS9S (18) | 0    | 0.1  | 21   | 0    |
|                                                  |                | HPGAS9D (19) | 0    | 9.7  | 10.8 | 0    |
| 9/5/2023 Retest - Exceedance                     | Manual Purging | HPGAS10 (20) | 27.2 | 4    | 11.6 | -0.1 |
|                                                  |                | HPGAS10 (20) | 11   | 1.6  | 16.9 | -0.1 |
| 16/5/2023<br>Follow up - Exceedance              | No Purging     | HPGAS1R (10) | 0    | 5.3  | 9.8  | -0.1 |
|                                                  |                | HPGAS2R (11) | 0    | 0.5  | 20.8 | 0    |
|                                                  |                | HPGAS3R (12) | 0    | 0.2  | 20.7 | 0    |
|                                                  |                | HPGAS4 (13)  | 0    | 7.7  | 13.1 | 0    |
|                                                  |                | HPGAS5 (14)  | 0    | 0.6  | 20.6 | 2.3  |
|                                                  |                | HPGAS6 (15)  | 0    | 13.9 | 8.7  | 0    |
|                                                  |                | HPGAS7 (16)  | 0    | 7.7  | 8.8  | 3.6  |
|                                                  |                | HPGAS8 (17)  | 0    | 15.6 | 5.2  | 0.5  |
|                                                  |                | HPGAS9S (18) | 0.9  | 4.3  | 18.3 | 0    |
|                                                  |                | HPGAS9D (19) | 0    | 10   | 9.9  | 3.8  |
| 16/5/2023 Retest - Exceedance                    | Manual Purging | HPGAS10 (20) | 83.5 | 3.4  | 0.1  | 0.1  |
|                                                  |                | HPGAS10 (20) | 26.4 | 2    | 13.6 | 0.1  |
| 23/5/2023<br>Follow up                           | No Purging     | HPGAS1R (10) | 0    | 5.5  | 8.7  | 0.1  |
|                                                  |                | HPGAS2R (11) | 0    | 0.5  | 20.5 | -0.1 |
|                                                  |                | HPGAS3R (12) | 0    | 0.2  | 20.6 | 0.2  |
|                                                  |                | HPGAS4 (13)  | 0    | 4.5  | 16.7 | 0    |
|                                                  |                | HPGAS5 (14)  | 0    | 0.5  | 20.6 | 0.2  |
|                                                  |                | HPGAS6 (15)  | 0    | 13.6 | 9    | 0    |
|                                                  |                | HPGAS7 (16)  | 0    | 8    | 8.5  | -3.5 |
|                                                  |                | HPGAS8 (17)  | 0    | 15   | 5.4  | -3.8 |
|                                                  |                | HPGAS9S (18) | 0    | 0.1  | 20.5 | 0    |
|                                                  |                | HPGAS9D (19) | 0    | 4.6  | 16   | 0    |
| 6/7/2023<br>Quarterly Monitoring -<br>Exceedance | No Purging     | HPGAS10 (20) | 0    | 0.5  | 20   | 0.1  |
|                                                  |                | HPGAS1R (10) | 0    | 0.9  | 19.2 | 0.1  |
|                                                  |                | HPGAS2R (11) | 0    | 5.1  | 18.1 | 0    |
|                                                  |                | HPGAS3R (12) | 0    | 0.3  | 20.3 | 0    |
|                                                  |                | HPGAS4 (13)  | 0    | 7.8  | 13.9 | 0    |
|                                                  |                | HPGAS5 (14)  | 0    | 1    | 20.2 | 0.1  |
|                                                  |                | HPGAS6 (15)  | 0    | 14.7 | 8.4  | 0    |
|                                                  |                | HPGAS7 (16)  | 0    | 9.9  | 4.4  | 0.1  |
|                                                  |                | HPGAS8 (17)  | 0.1  | 13.6 | 0.5  | 0.2  |
|                                                  |                | HPGAS9S (18) | 1.1  | 1.9  | 18.8 | 0    |
| 6/7/2023 Retest - Exceedance                     | Manual Purging | HPGAS9D (19) | 0    | 7.4  | 12.6 | 0    |
|                                                  |                | HPGAS10 (20) | 31.7 | 4.5  | 9.8  | 0    |
| 11/7/2023                                        |                | HPGAS9S (18) | 0    | 0.1  | 20.3 | 0    |
|                                                  |                | HPGAS10 (20) | 11.5 | 1.7  | 16.5 | 0    |
|                                                  |                | HPGAS1R (10) | 0    | 0.2  | 19.8 | 0    |
|                                                  |                | HPGAS2R (11) | 0    | 4.9  | 16.7 | 0    |
|                                                  |                | HPGAS3R (12) | 0    | 0.4  | 20.1 | 0    |
|                                                  |                | HPGAS4 (13)  | 0    | 2.0  | 18.6 | 0    |
|                                                  |                | HPGAS5 (14)  | 0    | 1.1  | 20.1 | 0    |

|                                      |                |              |      |      |      |     |
|--------------------------------------|----------------|--------------|------|------|------|-----|
| 11/11/2023<br>Follow up - Exceedance | No Purging     | HPGAS6 (15)  | 0    | 14   | 8.8  | 0   |
|                                      |                | HPGAS7 (16)  | 0    | 8.9  | 5.3  | 0   |
|                                      |                | HPGAS8 (17)  | 0    | 12.5 | 1    | 0   |
|                                      |                | HPGAS9S (18) | 56.5 | 22.6 | 3    | 0   |
|                                      |                | HPGAS9D (19) | 0    | 6.6  | 13.2 | 0   |
|                                      |                | HPGAS10 (20) | 0    | 0.1  | 20.2 | 0   |
| 11/7/2023 Retest - Exceedance        | Manual Purging | HPGAS9S (18) | 21.1 | 9.5  | 13.3 | 0   |
| 18/7/2023<br>Follow up - Exceedance  | No Purging     | HPGAS1R (10) | 0    | 6.5  | 14.4 | 0.1 |
|                                      |                | HPGAS2R (11) | 0    | 4.7  | 16.9 | 0   |
|                                      |                | HPGAS3R (12) | 0    | 0.4  | 20.5 | 0   |
|                                      |                | HPGAS4 (13)  | 0    | 8.5  | 13   | 0   |
|                                      |                | HPGAS5 (14)  | 0    | 1.1  | 20.5 | 0.1 |
|                                      |                | HPGAS6 (15)  | 0    | 13.6 | 9.3  | 0   |
|                                      |                | HPGAS7 (16)  | 0    | 9.1  | 5    | 0   |
|                                      |                | HPGAS8 (17)  | 0    | 12.4 | 0.9  | 0.1 |
|                                      |                | HPGAS9S (18) | 57.5 | 22.9 | 2.9  | 0.1 |
|                                      |                | HPGAS9D (19) | 0    | 6.2  | 14.3 | 0   |
|                                      |                | HPGAS10 (20) | 28   | 7.5  | 2.4  | 0.1 |
| 18/7/2023 Retest - Exceedance        | Manual Purging | HPGAS9S (18) | 6.5  | 3.5  | 18.5 | 0.1 |
|                                      |                | HPGAS10 (20) | 16.7 | 3.3  | 14.3 | 0.1 |
| 25/7/2023<br>Follow up - Exceedance  | No Purging     | HPGAS1R (10) | 0    | 6    | 13.6 | 0   |
|                                      |                | HPGAS2R (11) | 0    | 4.5  | 16.7 | 0   |
|                                      |                | HPGAS3R (12) | 0    | 0.4  | 20.4 | 0   |
|                                      |                | HPGAS4 (13)  | 0    | 4.9  | 16.3 | 0   |
|                                      |                | HPGAS5 (14)  | 0    | 1.1  | 20.3 | 0   |
|                                      |                | HPGAS6 (15)  | 0    | 13   | 9.6  | 0   |
|                                      |                | HPGAS7 (16)  | 0    | 9.6  | 5.6  | 0   |
|                                      |                | HPGAS8 (17)  | 0    | 11.9 | 1    | 0   |
|                                      |                | HPGAS9S (18) | 37.3 | 15.4 | 9    | 0   |
|                                      |                | HPGAS9D (19) | 0    | 6    | 14.6 | 0   |
| 25/7/2023 Retest - Exceedance        | Manual Purging | HPGAS10 (20) | 0.3  | 2.6  | 17.4 | 0   |
|                                      |                | HPGAS9S (18) | 4.4  | 2.2  | 19.2 | 0   |
| 26/7/2023 Retest - Exceedance        | No Purging     | Austral Well | 0    | 0    | 20.9 | 0   |
| 26/7/2023 Retest - Exceedance        | No Purging     | HPGAS9S (18) | 68.1 | 26.9 | 0.1  | 0   |
| 26/7/2023 Retest - Exceedance        | Manual Purging | HPGAS9S (18) | 29   | 13.6 | 10.3 | 0   |
| 1/8/2023<br>Follow up - Exceedance   | No Purging     | HPGAS1R (10) | 0    | 5.9  | 13   | 0.1 |
|                                      |                | HPGAS2R (11) | 0    | 4.6  | 16.1 | 0   |
|                                      |                | HPGAS3R (12) | 0    | 0.4  | 19.9 | 0   |
|                                      |                | HPGAS4 (13)  | 0    | 4.4  | 16.7 | 0   |
|                                      |                | HPGAS5 (14)  | 0    | 1.1  | 19.9 | 0.1 |
|                                      |                | HPGAS6 (15)  | 0    | 12.9 | 9.3  | 0.1 |
|                                      |                | HPGAS7 (16)  | 0    | 10.2 | 6    | 0   |
|                                      |                | HPGAS8 (17)  | 0    | 12   | 0.9  | 0.1 |
|                                      |                | HPGAS9S (18) | 41.1 | 17.2 | 7.3  | 0   |
|                                      |                | HPGAS9D (19) | 0    | 6    | 14.3 | 0   |
| 1/8/2023 Retest - Exceedance         | Manual Purging | HPGAS10 (20) | 15.3 | 8.8  | 7.3  | 0   |
|                                      |                | HPGAS9S (18) | 6.2  | 2.8  | 17.8 | 0   |
|                                      |                | HPGAS10 (20) | 4.5  | 2.3  | 17   | 0   |
|                                      |                | Austral Wall | 0    | 0    | 20.2 | 0   |

| * Unit of Measure Abbreviations |       |
|---------------------------------|-------|
| Percent by volume               | % v/v |

<http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOlicence.aspx?DOCID=30721&SYSUID=1&LICID=11584>