

**Boral Cement Marulan
POELA Act 2011 Monitoring Data
March 2024 Report**

BORAL CEMENT LIMITED

Marulan South Limestone Mine and Lime Plant

Hume Street,

Marulan South, NSW 2579

Environmental Protection Licence No. 944

https://www.boral.com.au/sites/default/files/media/field_document/230314%20EPL%20944.pdf

Explanation of units of measure:

mg/m³ = milligrams per cubic metre

g/m²/month = grams per square metre per month

µg/m³ = micrograms per cubic metre

mg/L = milligrams per litre

Record updated on 28/03/2024

Compliance Summary: The site is currently compliant with the Licence limits.

1. *Annual Stack Monitoring*

| Assessable Parameter (mg/m ³) | Licence Limit | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|--|--------------------|---------|---------|---------|---------|---------|
| Emission Source: Kiln Stack (EPA identification Number: 11) | | | | | | |
| Solid Particulates | 100 mg/m3 | 86 | 39 | 8.4 | 43 | 64 |
| Nitrogen Oxides | 2,000 mg/m3 | 470 | 240 | 370 | 300 | 300 |
| Emission Source: Hydrator Stack (EPA identification Number: 12) | | | | | | |
| Solid Particles | 100 mg/m3 | 9.7 | <2.0 | <2.0 | <2.0 | 1.5 |

Compliance summary: Marulan plant is compliant with the Licence stack emission limits. The latest Annual Stack Monitoring was undertaken in March 2023.

2. Ambient air monitoring

2.1 Dust Deposition Gauges: Total Insoluble Matter (g/m²-month)

This test measures the levels of the coarse dust (generated mostly from unsealed roads, raw material handling, open stockpiles, etc.). It is a measure of dust *nuisance* (dust on cars, washing, window panes) in the immediate vicinity of the source, as the heavy dust settles quickly and doesn't travel far. It is not an indication of potential health problems as it doesn't penetrate into the respiratory system due to a large size of dust particles.

Licence limit: Not specified.

The NSW State guideline of 4 g/m²/month (presented as 12-month rolling average) was adopted as an internal indicator of site performance.

| Month | Report received on | Dust Deposition Gauges (g/m ² /month 12-month rolling average) | | |
|-----------|--------------------|--|----------------------------------|--------------------------------|
| | | EPA ID No. 16 (Stores Paddock Hill) | EPA ID No. 18 (Freddy's Hill) | EPA ID No. 17 (Sub Station) |
| Jan 2019 | 20/02/19 | 13.81 | 5.45 | |
| Feb 2019 | 18/03/19 | 12.86 | 5.16 | |
| Mar 2019 | 02/05/19 | 13.37 | 4.94 | |
| Apr 2019 | 29/05/19 | 13.43 | 4.41 | |
| May 2019 | 29/06/19 | 14.40 | 4.38 | |
| Jun 2019 | 26/7/19 | 14.71 | 4.52 | |
| July 2019 | | 14.49 | 4.57 | |
| Aug 2019 | 20/9/19 | 14.56 | 4.61 | |
| Sep 2019 | 24/10/19 | 12.15 | 5.07 | |
| Oct 2019 | 28/11/19 | 13.02 | 4.83 | |
| Nov 2019 | 23/12/19 | 11.59 | 4.38 | |
| Dec 2019 | 29/1/20 | 11.66 | 4.61 | |
| Jan 2020 | 28/2/20 | 13.25 | 4.27 | |
| Feb 2020 | 31/3/20 | 13.29 | 5.85 | |
| Mar 2020 | 29/4/20 | 12.75 | 5.67 | |
| Apr 2020 | 27/5/20 | 12.78 | 5.87 | |
| May 2020 | 26/6/20 | 11.94 | 6.23 | |
| Jun 2020 | 26/6/20 | 11.56 | 7.23 | |
| Jul 2020 | 27/8/20 | 11.31 | 6.85 | |
| Aug 2020 | 27/9/20 | 10.93 | 6.55 | |
| Sep 2020 | 27/10/20 | 10.73 | 7.22 | |
| Oct 2020 | 30/11/20 | 9.53 | 7.56 | |
| Nov 2020 | 27/1/21 | 11.07 | 7.76 | |
| Dec 2020 | 10/2/21 | 10.34 | 7.32 | |
| Jan 2021 | 17/3/21 | 8.33 | 6.87 | |
| Feb 2021 | 21/4/21 | 7.47 | 6.54 | |

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| Month | Report received on | Dust Deposition Gauges (g/m2/month 12-month rolling average) | | |
|------------|--------------------|---|----------------------------------|--------------------------------|
| | | EPA ID No. 16 (Stores Paddock Hill) | EPA ID No. 18 (Freddy's Hill) | EPA ID No. 17 (Sub Station) |
| Mar 2021 | 28/4/21 | 7.34 | 6.57 | |
| April 2021 | 21/6/21 | 7.28 | 6.56 | |
| May 2021 | 30/6/21 | 6.91 | 6.43 | |
| June 2021 | 11/8/21 | 6.94 | 5.71 | |
| July 2021 | 7/9/21 | 6.88 | 5.59 | |
| Aug 21 | 22/9/21 | 6.88 | 5.53 | |
| Sep 21 | 12/11/21 | 6.93 | 5.16 | |
| Oct 21 | 26/11/21 | 6.97 | 5.06 | |
| Nov 21 | 22/12/21 | 4.40 | 6.75 | |
| Dec 21 | 25/1/22 | 4.09 | 6.61 | |
| Jan 22 | 1/3/22 | 3.72 | 6.72 | |
| Feb 22 | 4/4/22 | 3.74 | 5.90 | |
| Mar 22 | 19/5/22 | 3.67 | 5.57 | |
| April 22 | 11/6/22 | 3.42 | 6.05 | |
| May 22 | 7/7/22 | 3.39 | 5.92 | |
| June 22 | 29/7/22 | 3.27 | 5.59 | |
| July 22 | 2/9/22 | 3.17 | 5.54 | |
| Aug 22 | 28/9/22 | 2.88 | 5.40 | |
| Sep 2022 | 17/11/22 | 2.75 | 4.77 | |
| Oct 2022 | 15/12/22 | 2.63 | 4.52 | |
| Nov 2022 | 09/02/23 | 2.42 | 2.66 | |
| Dec 2022 | 10/02/23 | 2.29 | 2.56 | |
| Jan 2023 | 06/03/23 | 2.37 | 2.40 | 1.41 |
| Feb 2023 | 12/04/23 | 2.22 | 2.19 | 1.26 |
| Mar 2023 | 08/05/23 | 2.46 | 2.52 | 1.94 |
| April 2023 | 29/05/23 | 2.65 | 2.28 | 2.02 |
| May 2023 | 22/06/23 | 2.59 | 2.19 | 1.96 |
| June 2023 | 20/07/23 | 2.77 | 2.19 | 1.95 |
| July 2023 | 22/08/23 | 2.86 | 2.15 | 2.09 |
| Aug 2023 | 26/09/23 | 3.00 | 2.16 | 2.16 |
| Sep 2023 | 30/10/23 | 2.98 | 1.97 | 2.26 |
| Oct 2023 | 20/11/23 | 3.33 | 1.88 | 2.32 |
| Nov 2023 | 08/01/23 | 3.60 | 1.84 | 2.36 |
| Dec 2023 | 06/02/24 | 3.79 | 2.36 | 2.32 |



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|----------|----------|------|------|------|
| Jan 2024 | 27/02/24 | 3.85 | 2.56 | 2.32 |
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Compliance Summary: The site does not have a compliance limit for dust deposition. Elevated results at the two licenced points is generally reflective of their proximity to operations or activities in the surrounding paddocks. The nearest residence monitoring point is now company owned.

The stores paddock hill gauge is located on the limestone premises and is used as an indicator to manage dust from operations. Further analysis of the dust has revealed that the majority of material was organic and likely to have been from windblown paddock grasses and bird depositions.

Nearest Residence monitoring station damaged in extreme weather on the 15/2/2020. No sample was taken for that month. Reading given in any month is an average of the prior 12 months where data available.

2.2 High Volume Air Sampling: PM10 dust fraction (ug/m³ 24 hrs)

This test measures the levels of the fine dust suspended in the air (generated mostly from stack emissions). It is a measure of potential *health effects* (irritation of the respiratory tract) as the small particles can penetrate into the airways and the lungs. Fine dust can persist in the atmosphere for days or even months before it settles and can travel some distance.

Annual Criteria is 25 ug/m³ and twenty-four hour criteria is 50 ug/m³

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 13/12/18 | 19/12/18 | 25/12/18 | 31/12/18 | 12/01/19 | 15/01/19 | 30/01/19 | 5/02/19 |
| Report date | 14/01/18 | 14/01/18 | 14/01/18 | 14/01/18 | 12/02/19 | 12/02/19 | 12/02/19 | 12/02/19 |
| PM10 (µg/m3) | 15.32 | 22.41 | 19.62 | 46.78 | 18.21 | 40.30 | 39.31 | 27.77 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 11/02/19 | 13/02/19 | 17/02/19 | 23/02/19 | 1/03/19 | 7/03/19 | 13/03/19 | 19/03/19 |
| Report date | 11/03/19 | 11/03/19 | 11/03/19 | 11/03/19 | 11/03/19 | 30/04/19 | 30/04/19 | 30/04/19 |
| PM10 (µg/m3) | 9.60 | 20.23 | 32.06 | 76.20 | 18.30 | 56.73 | 53.22 | 6.86 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 25/03/19 | 31/03/19 | 06/04/19 | 12/04/19 | 18/04/19 | 24/04/19 | 30/04/19 | 06/05/19 |
| Report date | 30/04/19 | 30/04/19 | 30/04/19 | 20/05/19 | 20/05/19 | 20/05/19 | 20/05/19 | 20/05/19 |
| PM10 (µg/m3) | 4.58 | 0.34 | 12.81 | 33.58 | 21.05 | 24.74 | 49.05 | 6.74 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 12/04/19 | 18/04/19 | 24/04/19 | 30/04/19 | 05/06/19 | 11/06/19 | 17/06/19 | 23/06/19 |
| Report date | 19/06/19 | 19/06/19 | 19/06/19 | 19/06/19 | 19/06/19 | 19/06/19 | 19/07/19 | 19/07/19 |
| PM10 (µg/m3) | 1.18 | 19.92 | 11.27 | 1.42 | 3.36 | 16.75 | 70.1 | 8.87 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 29/06/19 | 05/07/19 | 11/07/19 | 17/07/19 | 23/07/19 | 29/07/19 | 04/08/19 | 10/08/19 |
| Report date | 19/07/19 | 19/07/19 | 29/09/19 | 29/09/19 | 29/09/19 | 29/09/19 | 29/09/19 | 29/09/19 |
| PM10 (µg/m3) | 14.68 | 10.20 | 21.49 | 21.42 | 21.45 | 21.26 | 20.69 | 20.50 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 16/08/19 | 22/08/19 | 28/08/19 | 03/09/19 | 09/09/19 | 15/09/19 | 21/09/19 | 27/09/19 |
| Report date | 29/09/19 | 30/10/19 | 30/10/19 | 30/10/19 | 30/10/19 | 30/10/19 | 30/10/19 | 30/10/19 |
| PM10 (µg/m3) | 22.03 | 22.04 | 21.72 | 21.51 | 21.43 | 21.36 | 21.80 | 21.84 |

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|---------------|----------|----------|----------|----------|----------|---------|---------|----------|
| Sampling date | 03/10/19 | 09/10/19 | 15/10/19 | 21/10/19 | 27/10/19 | 2/11/19 | 8/11/19 | 14/11/19 |
| Report date | 30/10/19 | 30/10/19 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 |
| PM10 (µg/m3) | 21.52 | 21.35 | 21.93 | 21.85 | 21.81 | 21.39 | 20.94 | 19.69 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|---------|
| Sampling date | 20/11/19 | 26/11/19 | 02/12/19 | 08/12/19 | 14/12/19 | 20/12/19 | 26/12/19 | 1/1/20 |
| Report date | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 | 14/1/20 |
| PM10 (µg/m3) | 19.61 | 20.80 | 20.75 | 20.56 | 21.35 | 23.04 | 24.64 | 29.38 |

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|---------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sampling date | 7/1/20 | 13/1/20 | 19/1/20 | 25/1/20 | 31/1/20 | 6/2/20 | 12/2/20 | 18/2/20 |
| Report date | 12/2/20 | 12/2/20 | 12/2/20 | 12/2/20 | 12/2/20 | 24/3/20 | 24/3/20 | 24/3/20 |
| PM10 (µg/m3) | 31.22 | 32.53 | 32.42 | 32.39 | 32.46 | 38.18 | 19.41 | 52.58 |

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|---------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sampling date | 24/2/20 | 1/3/20 | 7/3/20 | 13/3/20 | 19/3/20 | 24/3/20 | 31/3/20 | 6/4/20 |
| Report date | 24/3/20 | 24/3/20 | 24/3/20 | 24/3/20 | 30/4/20 | 30/4/20 | 30/4/20 | 30/4/20 |
| PM10 (µg/m3) | 47.42 | 54.44 | 48.15 | 104.76 | 15.18 | 34.91 | 8.22 | 7.86 |

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|---------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sampling date | 12/4/20 | 18/4/20 | 24/4/20 | 27/4/20 | 30/4/20 | 1/5/20 | 4/5/20 | 6/5/20 |
| Report date | 30/4/20 | 30/4/20 | 25/5/20 | 25/5/20 | 25/5/20 | 25/5/20 | 25/5/20 | 22/6/20 |
| PM10 (µg/m3) | 17.61 | 16.81 | 12.30 | 102.64 | 1.81 | 1.07 | 1.64 | 9.00 |

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|---------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sampling date | 12/5/20 | 18/5/20 | 24/5/20 | 30/5/20 | 5/6/20 | 11/6/20 | 17/6/20 | 23/6/20 |
| Report date | 22/6/20 | 22/6/20 | 22/6/20 | 22/6/20 | 22/6/20 | 22/6/20 | 16/7/20 | 16/7/20 |
| PM10 (µg/m3) | 13.33 | 15.51 | 0.13 | 3.45 | 4.68 | 3.72 | 8.11 | 0.50 |

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|---------------|---------|---------|---------|---------|---------|---------|---------|--------|
| Sampling date | 29/6/20 | 5/7/20 | 11/7/20 | 20/7/20 | 21/7/20 | 23/7/20 | 29/7/20 | 4/8/20 |
| Report date | 16/7/20 | 16/7/20 | 3/9/20 | 3/9/20 | 3/9/20 | 3/9/20 | 3/9/20 | 3/9/20 |
| PM10 (µg/m3) | 6.51 | 1.12 | 31.05 | 10.14 | 26.53 | 8.32 | 1.88 | 9.21 |

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|---------------|--------|---------|---------|---------|---------|---------|----------|----------|
| Sampling date | 5/8/20 | 10/8/20 | 16/8/20 | 22/8/20 | 28/8/20 | 3/9/20 | 9/9/20 | 15/9/20 |
| Report date | 3/9/20 | 17/9/20 | 17/9/20 | 17/9/20 | 17/9/20 | 17/9/20 | 21/10/20 | 21/10/20 |
| PM10 (µg/m3) | 2.56 | 4.31 | 2.50 | 2.20 | 7.19 | 22.77 | 9.64 | 10.82 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 12/9/20 | 27/9/20 | 3/10/20 | 7/10/20 | 9/10/20 | 15/10/20 | 21/10/20 | 27/10/20 |
| Report date | 21/10/20 | 21/10/20 | 21/10/20 | 21/10/20 | 27/11/20 | 27/11/20 | 27/11/20 | 27/11/20 |
| PM10 (µg/m3) | 13.71 | 4.22 | 11.59 | 4.25 | 1.88 | 32.18 | 39.59 | 3.92 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 2/11/20 | 8/11/20 | 14/11/20 | 20/11/20 | 26/11/20 | 2/12/20 | 4/12/20 | 8/12/20 |
| Report date | 27/11/20 | 27/11/20 | 27/11/20 | 27/11/20 | 23/12/20 | 23/12/20 | 23/12/20 | 23/12/20 |
| PM10 (µg/m3) | 8.22 | 7.18 | 8.97 | 15.71 | 26.56 | 20.13 | 5.79 | 3.69 |

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|---------------|----------|----------|----------|----------|---------|---------|---------|----------|
| Sampling date | 14/12/20 | 20/12/20 | 22/12/20 | 26/12/20 | 1/01/21 | 5/01/21 | 7/01/21 | 13/01/21 |
| Report date | 23/12/20 | 7/1/21 | 7/1/21 | 7/1/21 | 7/1/21 | 7/1/21 | 4/3/21 | 4/3/21 |
| PM10 (µg/m3) | 4.13 | 9.46 | 7.08 | 9.96 | 6.33 | 8.65 | 5.23 | 15.66 |

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|---------------|----------|--|--|--|--|--|--|--|
| Sampling date | 19/01/21 | 25/01/21 to 19/04/21 Results missing due to PM10 unit mechanical failure*. | | | | | | |
| Report date | 4/3/21 | | | | | | | |
| PM10 (µg/m3) | 47.14 | | | | | | | |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 25/04/21 | 1/05/21 | 7/05/21 | 13/05/21 | 19/05/21 | 25/05/21 | 31/05/21 | 6/6/21 |
| Report date | 21/05/21 | 21/05/21 | 21/05/21 | 23/06/21 | 23/06/21 | 23/06/21 | 23/06/21 | 23/06/21 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| PM10 (µg/m3) | 11.54 | 27.07 | 3.86 | 4.89 | 13.65 | 14.99 | Failed* | 4.78 |
| Sampling date | 12/06/21 | 18/06/21 | 24/06/21 | 30/06/21 | 2/07/21 | 6/07/21 | 12/07/21 | 18/07/21 |
| Report date | 3/08/21 | 3/08/21 | 3/08/21 | 3/08/21 | 3/08/21 | 3/08/21 | 3/08/21 | 17/08/21 |
| PM10 (µg/m3) | 1.32 | 2.26 | 3.33 | 7.46 | 2.14 | 1.19 | 4.72 | 1.48 |
| Sampling date | 24/07/21 | 30/07/21 | 5/08/21 | 11/08/21 | 17/08/21 | 23/08/21 | 29/08/21 | 4/09/21 |
| Report date | 17/08/21 | 17/08/21 | 17/08/21 | 21/09/21 | 21/09/21 | 21/09/21 | 21/09/21 | 21/09/21 |
| PM10 (µg/m3) | 2.78 | 3.54 | 1.28 | 0.34 | 1.73 | 0.76 | 4.33 | 2.12 |
| Sampling date | 10/09/21 | 16/09/21 | 22/09/21 | 2/10/21 | 4/10/21 | 10/10/21 | 16/10/21 | 22/10/21 |
| Report date | 26/10/21 | 26/10/21 | 26/10/21 | 26/10/21 | 26/10/21 | 12/11/21 | 12/11/21 | 12/11/21 |
| PM10 (µg/m3) | 3.63 | 3.20 | 1.14 | 0.21 | 3.09 | 20.16 | 12.92 | 27.57 |
| Sampling date | 28/10/21 | 3/11/21 | 9/11/21 | 15/11/21 | 21/11/21 | 27/11/21 | 3/12/21 | 9/12/21 |
| Report date | 12/11/21 | 12/11/21 | 15/12/21 | 15/12/21 | 15/12/21 | 15/12/21 | 15/12/21 | 5/1/22 |
| PM10 (µg/m3) | 30.36 | 51.97 | 9.22 | 5.75 | 4.00 | 2.65 | 17.81 | 8.64 |
| Sampling date | 15/12/21 | 21/12/21 | 8/1/22 | 14/1/22 | 18/1/22 | 20/1/22 | 24/1/22 | 26/1/22 |
| Report date | 5/1/22 | 5/1/22 | 17/2/22 | 17/2/22 | 17/2/22 | 17/2/22 | 17/2/22 | 17/2/22 |
| PM10 (µg/m3) | 24.04 | 23.42 | 9.14 | 25.65 | 14.05 | 6.73 | 17.31 | 23.68 |
| Sampling date | 1/2/22 | 4/2/22 | 13/2/22 | 19/2/22 | 25/2/22 | 3/3/22 | 9/3/22 | 15/3/22 |
| Report date | 17/2/22 | 17/2/22 | 15/3/22 | 15/3/22 | 15/3/22 | 15/3/22 | 28/4/22 | 28/4/22 |
| PM10 (µg/m3) | 26.39 | 6.01 | 14.15 | 13.56 | 5.85 | 4.40 | 4.25 | 16.07 |
| Sampling date | 21/3/22 | 27/3/22 | 2/4/22 | 8/4/22 | 14/4/22 | 20/4/22 | 26/4/22 | 2/5/22 |
| Report date | 28/4/22 | 28/4/22 | 28/4/22 | 11/5/22 | 11/5/22 | 11/5/22 | 11/5/22 | 21/6/22 |
| PM10 (µg/m3) | 20.12 | 9.11 | 5.66 | 3.96 | 7.89 | 2.07 | 9.73 | 11.00 |
| Sampling date | 8/5/22 | 14/5/22 | 20/5/22 | 26/5/22 | 1/6/22 | 7/6/22 | 13/06/22 | 19/6/22 |
| Report date | 21/6/22 | 21/6/22 | 21/6/22 | 21/6/22 | 21/6/22 | 21/6/22 | 13/7/22 | 13/7/22 |
| PM10 (µg/m3) | 1.72 | 6.59 | 2.92 | 11.49 | 0.72 | 0.51 | 0.19 | 4.93 |
| Sampling date | 25/6/22 | 1/7/22 | 7/7/22 | 13/7/22 | 19/7/22 | 25/7/22 | 6/08/22 | 8/08/22 |
| Report date | 13/7/22 | 13/7/22 | 10/8/22 | 10/8/22 | 10/8/22 | 10/8/22 | 20/9/22 | 20/9/22 |
| PM10 (µg/m3) | 0.26 | 0.26 | 0.80 | 0.59 | 0.45 | 0.13 | 0.13 | 0.13 |
| Sampling date | 12/08/22 | 18/08/22 | 24/08/22 | 30/08/22 | 5/09/22 | 11/09/22 | 17/09/22 | 23/09/22 |
| Report date | 20/9/22 | 20/9/22 | 20/9/22 | 20/9/22 | 20/9/22 | 10/10/22 | 10/10/22 | 10/10/22 |
| PM10 (µg/m3) | 0.86 | 0.20 | 0.32 | 2.69 | 2.83 | 5.46 | 6.21 | 19.55 |
| Sampling date | 29/09/22 | 05/10/22 | 11/10/22 | 17/10/22 | 23/10/22 | 29/10/22 | 04/11/22 | 14/11/22 |
| Report date | 10/10/22 | 10/10/22 | 09/11/22 | 09/11/22 | 09/11/22 | 09/11/22 | 14/12/22 | 14/12/22 |
| PM10 (µg/m3) | 6.97 | 21.02 | 10.69 | 12.56 | 2.06 | 0.48 | 9.69 | 12.94 |
| Sampling date | 16/11/22 | 22/11/22 | 28/11/22 | 04/12/22 | 10/12/22 | 16/12/22 | 22/12/22 | |
| Report date | 14/12/22 | 14/12/22 | 14/12/22 | 14/12/22 | 16/1/23 | 16/1/23 | 16/1/23 | |
| PM10 (µg/m3) | 1.15 | 0.47 | 0.41 | 8.48 | 21.08 | 12.15 | 16.75 | |
| Sampling date | 3/1/23 | 10/1/23 | 15/1/23 | 21/01/23 | 27/01/23 | 2/02/23 | 8/2/23 | 14/02/23 |

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|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Report date | 16/1/23 | 16/1/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 14/3/23 |
| PM10 (µg/m3) | 8.00 | 27.48 | 27.65 | 18.09 | 14.73 | 34.08 | 7.52 | 33.92 |

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|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 20/02/23 | 26/02/23 | 04/03/23 | 10/03/23 | 16/03/23 | 22/03/23 | 28/03/23 | 03/04/23 |
| Report date | 14/3/23 | 14/3/23 | 14/3/23 | 26/04/23 | 26/04/23 | 26/04/23 | 26/04/23 | 15/05/23 |
| PM10 (µg/m3) | 43.24 | 27.41 | 30.29 | 34.43 | 37.46 | 27.22 | 28.43 | 9.77 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 09/04/23 | 15/04/23 | 21/04/23 | 27/04/23 | 03/05/23 | 09/05/23 | 15/05/23 | 21/05/23 |
| Report date | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 16/06/23 | 16/06/23 | 16/06/23 |
| PM10 (µg/m3) | 5.51 | 17.05 | 15.70 | 16.82 | 9.28 | 1.09 | 14.96 | 2.26 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 27/05/23 | 02/06/23 | 08/06/23 | 14/06/23 | 20/06/23 | 26/06/23 | 02/07/23 | 08/07/23 |
| Report date | 16/06/23 | 16/06/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 16/07/23 |
| PM10 (µg/m3) | 6.22 | 15.98 | 10.57 | 3.91 | 0.67 | 0.96 | 3.21 | 4.11 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 14/07/23 | 20/07/23 | 26/07/23 | 01/08/23 | 07/08/23 | 13/08/23 | 19/08/23 | 25/09/23 |
| Report date | 16/07/23 | 16/07/23 | 16/07/23 | 16/07/23 | 27/08/23 | 27/08/23 | 27/08/23 | 27/08/23 |
| PM10 (µg/m3) | 4.72 | 9.51 | 3.55 | 1.36 | 6.82 | 6.68 | 0.14 | 6.67 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 31/08/23 | 06/09/23 | 12/09/23 | 18/09/23 | 24/09/23 | 30/09/23 | 06/10/23 | 12/10/23 |
| Report date | 27/08/23 | 27/08/23 | 28/10/23 | 28/10/23 | 28/10/23 | 28/10/23 | 20/11/23 | 20/11/23 |
| PM10 (µg/m3) | 2.20 | 4.06 | 9.47 | 41.67 | 13.69 | 9.23 | 9.84 | 31.98 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 18/10/23 | 24/10/23 | 30/10/23 | 5/11/23 | 11/11/23 | 17/11/23 | 23/11/23 | 29/11/23 |
| Report date | 20/11/23 | 20/11/23 | 20/11/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 |
| PM10 (µg/m3) | 9.60 | 32.06 | 45.49 | 19.42 | 23.01 | 24.34 | 14.20 | 12.37 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 05/12/23 | 11/12/23 | 17/12/23 | 23/12/23 | 29/12/23 | 04/01/24 | 10/01/24 | 16/01/24 |
| Report date | 15/12/23 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 21/02/24 | 21/02/24 |
| PM10 (µg/m3) | 26.28 | 27.04 | 26.26 | 16.08 | 10.91 | 12.60 | 20.92 | 3.67 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 22/01/24 | 28/01/24 | 03/02/24 | 09/02/24 | 15/02/24 | 21/02/24 | 27/02/24 | 04/03/24 |
| Report date | 21/02/24 | 21/02/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 |
| PM10 (µg/m3) | 22.33 | 21.63 | 30.84 | 21.05 | 12.50 | 8.99 | 14.54 | 30.23 |

Compliance Summary: The plant does not have a Licence limit for air-suspended particulate. Sampling is programmed to run every six days, however on occasion the sampler can fail to run which is beyond the control of the site. Where reasonably practicable additional sample runs are undertaken to make up any missed samples. Elevated levels against guidelines are typically the result of adverse events such as dust storms and bushfires.

February 17/02/19 till 23/02/19 a large dust storm coming from a south westerly direction during the sampling period.

March 2019 first half of the month was affected by dust storms and drier conditions.

January 2021 Breakdown of Hi Volume PM10 monitoring station. First sample with new unit 21/5/2021.

Samples for PM2.5 and TSP taken during this period.

31/5/21 Machine failed to operate. Frequency to be increased to make up average samples to in every 6 days.

2.3 High Volume Air Sampling: PM2.5 dust fraction (ug/m³ 24 hrs)

Annual criteria is 8 ug/m³ and twenty-four hour criteria is 25 ug/m³

| | | | | | | | | |
|---------------|---------|---------|---------|----------|----------|---------|---------|----------|
| Sampling date | 3/1/23 | 9/1/23 | 15/1/23 | 21/01/23 | 27/01/23 | 2/02/23 | 8/2/23 | 14/02/23 |
| Report date | 16/1/23 | 16/1/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 14/3/23 |
| PM2.5 (µg/m3) | 14.20 | 18.80 | 17.67 | 6.61 | 3.89 | 14.80 | 3.02 | 7.46 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 20/02/23 | 26/02/23 | 04/03/23 | 10/03/23 | 16/03/23 | 22/03/23 | 28/03/23 | 03/04/23 |
| Report date | 14/3/23 | 14/3/23 | 14/3/23 | 26/04/23 | 26/04/23 | 26/04/23 | 26/04/23 | 15/05/23 |
| PM2.5 (µg/m3) | 18.31 | 18.75 | 6.07 | 12.68 | 11.77 | 6.64 | 5.24 | 3.20 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 09/04/23 | 15/04/23 | 21/04/23 | 27/04/23 | 03/05/23 | 09/05/23 | 15/05/23 | 21/05/23 |
| Report date | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 16/06/23 | 16/06/23 | 16/06/23 |
| PM2.5 (µg/m3) | 2.09 | 7.31 | 4.37 | 6.59 | 3.74 | 2.65 | 12.58 | 3.36 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 27/05/23 | 02/06/23 | 08/06/23 | 14/06/23 | 20/06/23 | 26/06/23 | 02/07/23 | 08/07/23 |
| Report date | 16/06/23 | 16/06/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 16/07/23 |
| PM2.5 (µg/m3) | 4.13 | 4.38 | 6.72 | 4.53 | 1.21 | 0.27 | 1.94 | 0.55 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 14/07/23 | 20/07/23 | 26/07/23 | 01/08/23 | 07/08/23 | 13/08/23 | 19/08/23 | 25/09/23 |
| Report date | 16/07/23 | 16/07/23 | 16/07/23 | 16/07/23 | 27/08/23 | 27/08/23 | 27/08/23 | 27/08/23 |
| PM2.5 (µg/m3) | 1.44 | 1.62 | 8.00 | 1.16 | 0.40 | 0.96 | 0.21 | 1.64 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 31/08/23 | 06/09/23 | 12/09/23 | 18/09/23 | 24/09/23 | 30/09/23 | 06/10/23 | 12/10/23 |
| Report date | 27/08/23 | 27/08/23 | 28/10/23 | 28/10/23 | 28/10/23 | 28/10/23 | 20/11/23 | 20/11/23 |
| PM2.5 (µg/m3) | 0.76 | 3.03 | 5.77 | 19.87 | 9.40 | 5.68 | 5.82 | 17.25 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 18/10/23 | 24/10/23 | 30/10/23 | 5/11/23 | 11/11/23 | 17/11/23 | 23/11/23 | 29/11/23 |
| Report date | 20/11/23 | 20/11/23 | 20/11/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 |
| PM2.5 (µg/m3) | 6.33 | 18.69 | 34.43 | 6.89 | 15.36 | 11.77 | 6.72 | 6.27 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 05/12/23 | 11/12/23 | 17/12/23 | 23/12/23 | 29/12/23 | 04/01/24 | 10/01/24 | 16/01/24 |
| Report date | 15/12/23 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 21/02/24 | 21/02/24 |
| PM2.5 (µg/m3) | 14.98 | 14.26 | 10.95 | 7.86 | 4.56 | 5.95 | 22.56 | 10.13 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 22/01/24 | 28/01/24 | 03/02/24 | 09/02/24 | 15/02/24 | 21/02/24 | 27/02/24 | 04/03/24 |
| Report date | 21/02/24 | 21/02/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 |

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| | | | | | | | | |
|---------------|-------|-------|-------|-------|------|------|------|-------|
| PM2.5 (µg/m3) | 16.89 | 15.90 | 19.54 | 12.94 | 5.21 | 4.61 | 5.97 | 17.20 |
|---------------|-------|-------|-------|-------|------|------|------|-------|

2.4 High Volume Air Sampling: TSP dust fraction (ug/m³ 24 hrs)

Annual criteria is 90 ug/m³

| | | | | | | | | |
|---------------|---------|---------|---------|----------|----------|---------|---------|----------|
| Sampling date | 3/1/23 | 9/1/23 | 15/1/23 | 21/01/23 | 27/01/23 | 2/02/23 | 8/2/23 | 14/02/23 |
| Report date | 16/1/23 | 16/1/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 17/2/23 | 14/3/23 |
| TSP (µg/m3) | 27.91 | 24.06 | 43.04 | 34.98 | 31.98 | 34.49 | 13.79 | 68.27 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 20/02/23 | 26/02/23 | 04/03/23 | 10/03/23 | 16/03/23 | 22/03/23 | 28/03/23 | 12/04/23 |
| Report date | 14/3/23 | 14/3/23 | 14/3/23 | 26/04/23 | 26/04/23 | 26/04/23 | 26/04/23 | 15/05/23 |
| TSP0 (µg/m3) | 68.01 | 46.39 | 57.11 | 91.30 | 52.22 | 69.89 | 44.82 | 7.64 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 13/04/23 | 15/04/23 | 21/04/23 | 27/04/23 | 03/05/23 | 11/05/23 | 15/05/23 | 21/05/23 |
| Report date | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 15/05/23 | 16/06/23 | 16/06/23 | 16/06/23 |
| TSP (µg/m3) | 8.95 | 39.42 | 35.59 | 47.19 | 16.91 | 25.67 | 16.07 | 5.60 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 27/05/23 | 02/06/23 | 08/06/23 | 14/06/23 | 20/06/23 | 26/06/23 | 02/07/23 | 08/07/23 |
| Report date | 16/06/23 | 16/06/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 12/07/23 | 16/07/23 |
| TSP (µg/m3) | 3.94 | 38.75 | 49.76 | 0.69 | 1.69 | 7.18 | 31.83 | 6.62 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 14/07/23 | 20/07/23 | 26/07/23 | 01/08/23 | 07/08/23 | 13/08/23 | 19/08/23 | 25/09/23 |
| Report date | 16/07/23 | 16/07/23 | 16/07/23 | 16/07/23 | 27/08/23 | 27/08/23 | 27/08/23 | 27/08/23 |
| TSP (µg/m3) | 13.03 | 20.85 | 11.88 | 6.03 | 5.58 | 2.99 | 0.12 | 35.68 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 31/08/23 | 06/09/23 | 12/09/23 | 18/09/23 | 24/09/23 | 30/09/23 | 06/10/23 | 12/10/23 |
| Report date | 27/08/23 | 27/08/23 | 28/10/23 | 28/10/23 | 28/10/23 | 28/10/23 | 20/11/23 | 20/11/23 |
| TSP (µg/m3) | 6.27 | 11.03 | 18.94 | 23.19 | 19.28 | 13.79 | 13.79 | 78.47 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 18/10/23 | 24/10/23 | 30/10/23 | 5/11/23 | 11/11/23 | 17/11/23 | 23/11/23 | 29/11/23 |
| Report date | 20/11/23 | 20/11/23 | 20/11/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 | 15/12/23 |
| TSP (µg/m3) | 25.52 | 3.73 | 5.93 | 5.08 | 6.91 | 6.92 | 5.31 | 8.36 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 05/12/23 | 11/12/23 | 17/12/23 | 23/12/23 | 29/12/23 | 04/01/24 | 10/01/24 | 16/01/24 |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|

| | | | | | | | | |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Report date | 15/12/23 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 25/01/24 | 21/02/24 | 21/02/24 |
| TSP (µg/m3) | 4.13 | 1.86 | 3.02 | 3.61 | 23.23 | 18.40 | 19.97 | 28.51 |

| | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sampling date | 22/01/24 | 28/01/24 | 03/02/24 | 09/02/24 | 15/02/24 | 21/02/24 | 27/02/24 | 04/03/24 |
| Report date | 21/02/24 | 21/02/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 | 15/03/24 |
| TSP (µg/m3) | 11.62 | 7.82 | 64.73 | 48.89 | 21.92 | 20.32 | 46.27 | 86.49 |

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3. **Blast monitoring:**

Limits:

- * The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time
- * The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over each reporting period
- * Ground vibration peak particle vector from the blasting operations at the premises must not exceed 10mm/sec at any time
- * Ground vibration peak particle vector from the blasting operations at the premises must not exceed 5mm/sec for more than 5% of the total number of blasts over each reporting period
- * Blast monitoring overpressure and ground vibration is measured at the 2 locations. – 643 Marulan South Rd and the Substation.

| Date | Time | Airblast Overpressure Substation | Ground Vibration Substation | Airblast Overpressure 643 Marulan South Rd | Ground Vibration 643 Marulan South Rd | Compliant |
|-----------|---------|----------------------------------|-----------------------------|--|---------------------------------------|-----------|
| | | dB(Lin Peak) | (mm/s) | dB(Lin Peak) | (mm/s) | |
| 11-Jan-23 | 14:37 | No trigger | No trigger | 97.9 | 0.13 | Yes |
| 12-Jan-23 | 13:50 | No trigger | No trigger | 97.9 | 0.17 | Yes |
| 16-Jan-23 | 14:55 | No trigger | No trigger | 103.8 | 0.39 | Yes |
| 23-Jan-23 | 15:37 | 91.5 | 0.14 | 95.8 | 0.17 | Yes |
| 25-Jan-23 | 13:16 | 98.9 | 0.19 | 97.4 | 0.35 | Yes |
| 13-Feb-23 | 3.40PM | No trigger | No trigger | 98.8 | 0.16 | Yes |
| 17-Feb-23 | 9.54AM | 91.3 | 0.16 | No trigger | No trigger | Yes |
| 20-Feb-23 | 1.01PM | 94 | 0.19 | 92.1 | 0.28 | Yes |
| 22-Feb-23 | 3.35PM | 101.9 | 0.13 | 102.7 | 0.13 | Yes |
| 01-Mar-23 | 1.16PM | 102.8 | 0.14 | 96.4 | 0.21 | Yes |
| 02-Mar-23 | 3.43PM | 94 | 0.22 | 101.9 | 0.26 | Yes |
| 08-Mar-23 | 2.12PM | 104.9 | 0.21 | 107.4 | 0.12 | Yes |
| 13-Mar-23 | 12.59PM | 95.9 | 0.22 | 94.7 | 0.2 | Yes |

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| | | | | | | |
|-----------|---------|-------|------------|------------|------------|-----|
| 15-Mar-23 | 12.08PM | 88 | 0.22 | 101.9 | 0.2 | Yes |
| 20-Mar-23 | 1.57PM | 91.5 | 0.17 | 103.4 | 0.14 | Yes |
| 30-Mar-23 | 3.20PM | 103.5 | 0.24 | 94.9 | 0.34 | Yes |
| 03-Apr-23 | 2.05PM | 105.9 | 0.31 | 102.6 | 0.24 | Yes |
| 13-Apr-23 | 1.42PM | 105.2 | 0.26 | 102.5 | 0.2 | Yes |
| 17-Apr-23 | 1.01PM | 101.7 | No trigger | No trigger | No trigger | Yes |
| 19-Apr-23 | 1.36PM | 101.7 | 0.19 | 96.1 | 0.17 | Yes |
| 20-Apr-23 | 1.31PM | 100.7 | 0.21 | No trigger | No trigger | Yes |
| 26-Apr-23 | 12.41PM | 106.7 | No trigger | No trigger | No trigger | Yes |
| 01-May-23 | 3.39PM | 98.2 | 0.15 | No trigger | No trigger | Yes |
| 03-May-23 | 1.24PM | 104.2 | 0.19 | 104.6 | 0.16 | Yes |
| 08-May-23 | 2.53PM | 104.6 | 0.19 | 105.4 | 0.27 | Yes |
| 09-May-23 | 2.55PM | 97.4 | 0.13 | No trigger | No trigger | Yes |
| 11-May-23 | 11.49AM | 93.5 | 0.15 | No trigger | No trigger | Yes |
| 15-May-23 | 1.59PM | 94.7 | 0.13 | 99.5 | 0.17 | Yes |
| 17-May-23 | 12.34PM | 95.7 | 0.13 | No trigger | No trigger | Yes |
| 22-May-23 | 10.16AM | 96.6 | 0.13 | 96.9 | 0.13 | Yes |
| 25-May-23 | 2.04PM | 113.4 | 0.13 | 98.7 | 0.27 | Yes |
| 29-May-23 | 3.37PM | 106.4 | 0.22 | 101.8 | 0.18 | Yes |
| 01-Jun-23 | 1.18PM | 108.9 | 0.13 | 100.8 | 0.22 | Yes |
| 05-Jun-23 | 10.43AM | 104.6 | 0.24 | 100 | 0.22 | Yes |
| 08-Jun-23 | 12.28PM | 88.6 | 0.12 | NO TRIGGER | NO TRIGGER | Yes |
| 14-Jun-23 | 1.33PM | 108.6 | 0.14 | 92.6 | 0.19 | Yes |
| 15-Jun-23 | 4.06PM | 97.4 | 0.13 | 97 | 0.45 | Yes |
| 20-Jun-23 | 11.46AM | 96.6 | 0.14 | 99.6 | 0.17 | Yes |
| 22-Jun-23 | 4.40PM | 88.6 | 0.12 | 91.1 | 0.17 | Yes |
| 26-Jun-23 | 1.10PM | 118.5 | 0.24 | 119.1 | 0.28 | Yes |
| 29-Jun-23 | 2.00PM | 102.6 | 0.13 | 94.9 | 0.17 | Yes |
| 03-Jul-23 | 11.12AM | 99.5 | 0.21 | 98.1 | 0.19 | Yes |
| 06-Jul-23 | 3.32PM | 97.4 | 0.13 | No trigger | No trigger | Yes |
| 10-Jul-23 | 1.15PM | 108 | 0.13 | 104.9 | 0.28 | Yes |
| 12-Jul-23 | 11.13AM | 100.7 | 0.13 | No trigger | No trigger | Yes |
| 13-Jul-23 | 11.26AM | 102.2 | 0.13 | No trigger | No trigger | Yes |
| 19-Jul-23 | 2.35PM | 104.9 | 0.25 | 96.9 | 0.23 | Yes |
| 20-Jul-23 | 1.40PM | 105.2 | 0.19 | 96.2 | 0.17 | Yes |
| 24-Jul-23 | 2.33PM | 90.6 | 0.13 | 94.3 | 0.19 | Yes |
| 27-Jul-23 | 11.35AM | 103.5 | 0.24 | 95.9 | 0.29 | Yes |
| 28-Jul-23 | 11.35AM | 103.5 | 0.24 | 95.9 | 0.29 | Yes |
| 02-Aug-23 | 11.53AM | 102.2 | 0.27 | 99.2 | 0.19 | Yes |
| 03-Aug-23 | 12.04PM | 104.6 | 0.16 | 97.6 | 0.24 | Yes |
| 09-Aug-23 | 12.36PM | 97.4 | 0.13 | 93.2 | 0.2 | Yes |
| 10-Aug-23 | 4.12PM | 110.1 | 0.19 | 107 | 0.3 | Yes |
| 14-Aug-23 | 3.09PM | 101.2 | 0.22 | 94.8 | 0.15 | Yes |
| 16-Aug-23 | 12.40PM | 88.6 | 0.13 | 96.8 | 0.31 | Yes |
| 21-Aug-23 | 3.31PM | 98.2 | 0.16 | 92.3 | 0.13 | Yes |
| 23-Aug-23 | 12.48PM | 103.5 | 0.3 | 101.5 | 0.28 | Yes |
| 24-Aug-23 | 12.48PM | 103.5 | 0.3 | 101.5 | 0.28 | Yes |
| 28-Aug-23 | 1.44PM | 94.7 | 0.27 | 99.9 | 0.2 | Yes |
| 30-Aug-23 | 12.44PM | 103.5 | 0.24 | 103.1 | 0.21 | Yes |
| 31-Aug-23 | 12.35PM | 102.6 | 0.45 | 100.8 | 0.56 | Yes |

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| | | | | | | |
|-----------|---------|------------|------------|------------|------------|------------|
| 06-Sep-23 | 3.35PM | 100.7 | 0.14 | No trigger | No trigger | Yes |
| 11-Sep-23 | 12.31PM | 90.6 | 0.28 | 99.2 | 0.39 | Yes |
| 13-Sep-23 | 11.17AM | 90.6 | 0.14 | No trigger | No trigger | Yes |
| 18-Sep-23 | 12.10PM | 0.06 | 0.15 | No trigger | No trigger | Yes |
| 20-Sep-23 | 12.26PM | 0.05 | 0.14 | No trigger | No trigger | Yes |
| 25-Sep-23 | 1.01PM | 0.05 | 0.14 | 94.7 | 0.2 | Yes |
| 26-Sep-23 | 12.43PM | 0.05 | 0.14 | No trigger | No trigger | Yes |
| 27-Sep-23 | 12.43PM | 0.05 | 0.14 | No trigger | No trigger | Yes |
| 04-Oct-23 | 3.25PM | 0.01 | 0.06 | No trigger | No trigger | Yes |
| 05-Oct-23 | 12.36PM | 97.4 | 0.09 | No trigger | No trigger | Yes |
| 09-Oct-23 | 1.54PM | 90.6 | 0.12 | 92.1 | 0.16 | Yes |
| 11-Oct-23 | 12.53PM | 90.6 | 0.11 | No trigger | No trigger | Yes |
| 12-Oct-23 | 12.53PM | 90.6 | 0.11 | No trigger | No trigger | Yes |
| 16-Oct-23 | 2.26PM | 111.1 | 0.05 | 94.2 | 0.13 | Yes |
| 18-Oct-23 | 01.16PM | 92.2 | 0.12 | NO TRIGGER | NO TRIGGER | Yes |
| 23-Oct-23 | 2.41PM | 98.2 | 0.14 | 99.2 | 0.13 | Yes |
| 25-Oct-23 | 10.35AM | 113.9 | 0.16 | NO TRIGGER | NO TRIGGER | Yes |
| 30-Oct-23 | 1.31PM | 120.1 | 0.18 | 107.6 | 0.17 | Yes |
| 01-Nov-23 | 11.54AM | 90.6 | 0.15 | NO TRIGGER | NO TRIGGER | Yes |
| 02-Nov-23 | 11.55AM | 90.6 | 0.17 | 96.2 | 0.23 | Yes |
| 06-Nov-23 | 2:40PM | 90.6 | 0.06 | 93.5 | 0.14 | Yes |
| 08-Nov-23 | 1:59PM | 90.6 | 0.06 | NO TRIGGER | NO TRIGGER | Yes |
| 13-Nov-23 | 2:08pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 15-Nov-23 | 2:06pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 16-Nov-23 | 1:30pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 20-Nov-23 | 4.35PM | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 23-Nov-23 | 1.02PM | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 27-Nov-23 | 3.39pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 30-Nov-23 | 1.40PM | 101.1 | 0.2 | NO TRIGGER | NO TRIGGER | Yes |
| 04-Dec-23 | 3:03pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 06-Dec-23 | 2:35pm | 97.6 | 0.11 | NO TRIGGER | NO TRIGGER | Yes |
| 11-Dec-23 | 1:01pm | 105.3 | 0.15 | NO TRIGGER | NO TRIGGER | Yes |
| 14-Dec-23 | 1.02pm | 96 | 0.14 | NO TRIGGER | NO TRIGGER | Yes |
| 18-Dec-23 | 12:36pm | 91.6 | 0.1 | NO TRIGGER | NO TRIGGER | Yes |
| 20-Dec-23 | 3:38pm | NO TRIGGER | NO TRIGGER | NO TRIGGER | NO TRIGGER | Yes |
| 21-Dec-23 | 12.32pm | 98.3 | 0.08 | NO TRIGGER | NO TRIGGER | Yes |
| 10-Jan-24 | 3:40pm | 94.1 | 0.11 | 98.8 | 0.17 | Yes |
| 11-Jan-24 | 12:06pm | 101.1 | 0.14 | 97.7 | 0.14 | Yes |
| 15-Jan-24 | 12:12pm | 97.3 | 0.18 | 103.6 | 0.09 | Yes |
| 18-Jan-24 | 3.27pm | 88.1 | 0.18 | 106.4 | 0.17 | Yes |
| 22-Jan-24 | 1:28pm | NO TRIGGER | NO TRIGGER | 92.9 | 0.1 | Yes |
| 25-Jan-24 | 12:43pm | 88.1 | 0.9 | 90.1 | 0.15 | Yes |
| 01-Feb-24 | 1:00pm | 101.6 | 0.15 | NO TRIGGER | NO TRIGGER | Yes |
| 07-Feb-24 | 1:15pm | 108.9 | 0.19 | 103 | 0.2 | Yes |
| 08-Feb-24 | 11:20am | 100.6 | 0.17 | NO TRIGGER | NO TRIGGER | Yes |
| 09-Feb-24 | 11:20am | 3953 | 100.6 | 0.17 | NO TRIGGER | NO TRIGGER |
| 12-Feb-24 | 2:52pm | 3952 | 102.1 | 0.16 | 96.3 | 0.17 |
| 15-Feb-24 | 12:51pm | 3951 | 103.3 | 0.08 | NO TRIGGER | NO TRIGGER |
| 19-Feb-24 | 10.46am | 3954 | 95.1 | 0.19 | 99.9 | 0.3 |
| 21-Feb-24 | 1.33pm | 3955 | 94.1 | 0.19 | 98.1 | 0.16 |

Boral Cement Marulan POELA Act 2011 Monitoring Data



| | | | | | | |
|-----------|---------|------|-------|------|------------|------------|
| 26-Feb-24 | 3.50pm | 3956 | 98.3 | 0.16 | 104.9 | 0.17 |
| 29-Feb-24 | 3.36pm | 3958 | 97.6 | 0.2 | 94.8 | 0.17 |
| 04-Mar-24 | 3.37pm | 3959 | 94.1 | 0.11 | NO TRIGGER | NO TRIGGER |
| 07-Mar-24 | 12.30pm | 3957 | 102.1 | 0.12 | NO TRIGGER | NO TRIGGER |
| 13-Mar-24 | 10.41am | 3962 | 102.5 | 0.15 | NO TRIGGER | NO TRIGGER |
| 14-Mar-24 | 12.30pm | 3960 | 102.1 | 0.22 | 95.6 | 0.17 |
| 18-Mar-24 | 12.36pm | 3961 | 100.1 | 0.22 | 95.5 | 0.22 |
| 20-Mar-24 | 3.35pm | 3963 | 0 | 0 | 0 | 0 |
| 25-Mar-24 | 1.35pm | 3964 | 99.6 | 0.21 | 91.4 | 0.19 |

4. Water monitoring: North Pit Bore

Current Licence requirements cover quarterly monitoring of groundwater quality in the North Pit Bore until March 2020 and Then WM05 Bore, (both bores were/are now EPA Identification No. 13).

Licence limits: Not specified.

The NSW State guidelines: Typical discharge limits are as follows:

Oil and Grease: 10 milligrams per litre

Total Suspended Solids: 30-50 milligrams per litre.

| Sampling date | Report received on | Report published on | Oil and Grease (mg/L) | Total Suspended Solids (mg/L) |
|--|--------------------|---------------------|-----------------------|-------------------------------|
| 12/03/19 | 29/03/19 | | <1 | 4 |
| 26/06/19 | 04/09/19 | 04/09/19 | <5 | 21 |
| 23/10/19 | 12/11/19 | 04/11/19 | <5 | 54 |
| 17/12/19 | 7/2/20 | 14/1/20 | <5 | 28 |
| 24/3/20 | 7/4/20 | 7/4/20 | <5 | 5 |
| Note: North Pit Bore is no longer operational as of the 24/3/2020. Replaced in EPL by Ground Water Monitoring Point labelled "WM05" on map "EPL 944 Ground Water Monitoring Point Location Change – December 2020" (DOC20/1014984) | | | | |
| 29/9/20 | 8/10/20 | 8/10/20 | <5 | <5 |
| 9/12/20 | 18/12/20 | 18/12/20 | <5 | 11 |
| 31/3/21 | 22/6/21 | 9/04/21 | <5 | <5 |
| 15/6/21 | 5/7/21 | 5/7/21 | <5 | 14 |
| 30/9/21 | 11/10/21 | 11/10/21 | <5 | 11 |
| 13/12/21 | 10/1/22 | 23/12/21 | <5 | 15 |
| 24/3/22 | 1/6/22 | 31/3/22 | <5 | 11 |
| 8/6/22 | 26/7/22 | 20/6/22 | <5 | 14 |
| 13/09/22 | 26/09/22 | 26/09/22 | <5 | 18 |
| 21/12/22 | 06/01/23 | 11/1/23 | 5 | 48 |
| 29/03/23 | 29/3/23 | 09/04/23 | <5 | 10 |
| 21/06/23 | 22/6/23 | 07/07/23 | <5 | 10 |
| 6/09/23 | 15/09/23 | 04/09/23 | <5 | 23 |
| 4/12/23 | 18/12/23 | 18/12/23 | <5 | 26 |

Compliance Summary: The plant does not have Licence limits for water parameters. It is however compliant with the adopted NSW guideline values.

5. Noise monitoring

Quarterly noise monitoring is conducted as per condition L4 of EPL 944.

Date Sampled: 28/03/23

Date Received: 29/05/23

Meteorological Conditions: Wind speeds up to 6.5m/s at 10m above ground level representative of noise enhancing meteorological conditions

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Daytime | |
| R6 | 28/03/23 | <35 | 40 | yes |
| R8 | 28/03/23 | <35 | 40 | yes |
| R9 | 28/03/23 | <35 | 40 | yes |
| R12 | 28/03/23 | <35 | 40 | yes |
| R17 | 28/03/23 | <35 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Evening | |
| R6 | 28/03/23 | <35 | 35 | yes |
| R8 | 28/03/23 | <35 | 35 | yes |
| R9 | 28/03/23 | <35 | 36 | yes |
| R12 | 28/03/23 | 31 | 35 | yes |
| R17 | 28/03/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Night | |
| R6 | 28/03/23 | <35 | 35 | yes |
| R8 | 28/03/23 | <35 | 35 | yes |
| R9 | 28/03/23 | <35 | 36 | yes |
| R12 | 28/03/23 | 30 | 35 | yes |
| R17 | 28/03/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|--|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 1 minute (dB(A)) | Night | |
| R6 | 28/03/23 | <45 | 52 | yes |
| R8 | 28/03/23 | <52 | 52 | yes |
| R9 | 28/03/23 | <52 | 52 | yes |
| R12 | 28/03/23 | <45 | 52 | yes |
| R17 | 28/03/23 | <45 | 52 | yes |

Boral Cement Marulan POELA Act 2011 Monitoring Data



Date Sampled: 07/06/23

Date Received: 30/06/23

Meteorological Conditions: Wind speeds up to 6.2m/s at 10m above ground level representative of noise enhancing meteorological conditions

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Daytime | |
| R6 | 07/06/23 | <35 | 40 | yes |
| R8 | 07/06/23 | <35 | 40 | yes |
| R9 | 07/06/23 | <35 | 40 | yes |
| R12 | 07/06/23 | <35 | 40 | yes |
| R17 | 07/06/23 | <30 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Evening | |
| R6 | 07/06/23 | <35 | 35 | yes |
| R8 | 07/06/23 | <35 | 35 | yes |
| R9 | 07/06/23 | <35 | 36 | yes |
| R12 | 07/06/23 | <30 | 35 | yes |
| R17 | 07/06/23 | <30 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Night | |
| R6 | 07/06/23 | <35 | 35 | yes |
| R8 | 07/06/23 | <35 | 35 | yes |
| R9 | 07/06/23 | <35 | 36 | yes |
| R12 | 07/06/23 | <35 | 35 | yes |
| R17 | 07/06/23 | <30 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|--|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 1 minute (dB(A)) | Night | |
| R6 | 07/06/23 | <52 | 52 | yes |
| R8 | 07/06/23 | <52 | 52 | yes |
| R9 | 07/06/23 | <52 | 52 | yes |
| R12 | 07/06/23 | <52 | 52 | yes |
| R17 | 07/06/23 | <52 | 52 | yes |

Boral Cement Marulan POELA Act 2011 Monitoring Data



Date Sampled: 27/09/23-28/09/23

Date Received: 25/10/23

Meteorological Conditions: Wind speeds up to 3.2m/s at 10m above ground level representative of noise enhancing meteorological conditions

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Daytime | |
| R6 | 27/09/23 | <40 | 40 | yes |
| R8 | 27/09/23 | <40 | 40 | yes |
| R9 | 27/09/23 | <40 | 40 | yes |
| R12 | 27/09/23 | <40 | 40 | yes |
| R17 | 27/09/23 | <40 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Evening | |
| R6 | 27/09/23 | <35 | 35 | yes |
| R8 | 27/09/23 | <35 | 35 | yes |
| R9 | 27/09/23 | <36 | 36 | yes |
| R12 | 27/09/23 | <35 | 35 | yes |
| R17 | 27/09/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Night | |
| R6 | 28/09/23 | <35 | 35 | yes |
| R8 | 27/09/23 | <35 | 35 | yes |
| R9 | 27/09/23 | <36 | 36 | yes |
| R12 | 28/09/23 | <35 | 35 | yes |
| R17 | 27/09/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|--|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 1 minute (dB(A)) | Night | |
| R6 | 28/09/23 | <52 | 52 | yes |
| R8 | 27/09/23 | <52 | 52 | yes |
| R9 | 27/09/23 | <52 | 52 | yes |
| R12 | 28/09/23 | <52 | 52 | yes |
| R17 | 27/09/23 | <52 | 52 | yes |

Boral Cement Marulan POELA Act 2011 Monitoring Data



Date Sampled: 12/12/23-13/12/23

Date Received: 21/12/23

Meteorological Conditions: Wind speeds up to 4.3 m/s at 10m above ground level representative of noise enhancing meteorological conditions

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Daytime | |
| R6 | 12/12/23 | <40 | 40 | yes |
| R8 | 12/12/23 | <40 | 40 | yes |
| R9 | 12/12/23 | <40 | 40 | yes |
| R12 | 12/12/23 | <40 | 40 | yes |
| R17 | 12/12/23 | <40 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Evening | |
| R6 | 12/12/23 | <35 | 35 | yes |
| R8 | 12/12/23 | <35 | 35 | yes |
| R9 | 12/12/23 | <36 | 36 | yes |
| R12 | 12/12/23 | <35 | 35 | yes |
| R17 | 12/12/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Night | |
| R6 | 13/12/23 | <35 | 35 | yes |
| R8 | 13/12/23 | <35 | 35 | yes |
| R9 | 13/12/23 | <36 | 36 | yes |
| R12 | 13/12/23 | <35 | 35 | yes |
| R17 | 13/12/23 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|--|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 1 minute (dB(A)) | Night | |
| R6 | 13/12/23 | <52 | 52 | yes |
| R8 | 13/12/23 | <52 | 52 | yes |
| R9 | 13/12/23 | <52 | 52 | yes |
| R12 | 13/12/23 | <52 | 52 | yes |
| R17 | 13/12/23 | <52 | 52 | yes |

Boral Cement Marulan POELA Act 2011 Monitoring Data



Date Sampled: 06/03/24

Date Received: 28/03/24

Meteorological Conditions: Wind speeds up to 5.2 m/s at 10m above ground level representative of noise enhancing meteorological conditions

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Daytime | |
| R6 | 06/03/24 | <40 | 40 | yes |
| R8 | 06/03/24 | <40 | 45 | yes |
| R9 | 06/03/24 | <40 | 45 | yes |
| R12 | 06/03/24 | <40 | 40 | yes |
| R17 | 06/03/24 | <40 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Evening | |
| R6 | 06/03/24 | <35 | 35 | yes |
| R8 | 06/03/24 | <35 | 35 | yes |
| R9 | 06/03/24 | <36 | 36 | yes |
| R12 | 06/03/24 | <35 | 35 | yes |
| R17 | 06/03/24 | <35 | 35 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|---|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 15 minute (dB(A)) | Night | |
| R6 | 06/03/24 | <35 | 40 | yes |
| R8 | 06/03/24 | <35 | 40 | yes |
| R9 | 06/03/24 | <36 | 41 | yes |
| R12 | 06/03/24 | <35 | 40 | yes |
| R17 | 06/03/24 | <35 | 40 | yes |

| <i>Receiver</i> | <i>Date</i> | <i>Site Noise Level Contribution</i> | <i>Operational Criteria (dB(A))</i> | <i>Compliant</i> |
|-----------------|-------------|--|-------------------------------------|------------------|
| EPL ID | | L_{Aeq}, 1 minute (dB(A)) | Night | |
| R6 | 06/03/24 | <52 | 57 | yes |
| R8 | 06/03/24 | <52 | 57 | yes |
| R9 | 06/03/24 | <52 | 57 | yes |
| R12 | 06/03/24 | <52 | 57 | yes |
| R17 | 06/03/24 | <52 | 57 | yes |

REPORT ENDS