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Bago Forest Quarry Air Quality Monitoring

Annual Report 2023

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Annual Report 2023

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Checked by **Rachel Condon, Martin Parsons**
Approved by **Belinda Sinclair**
Description **Annual Dust Deposition Monitoring Report for the Bago Forest Quarry located at Herons Creek NSW, presenting data collected from 18 October 2022 to 13 October 2023.**

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| Revision | Date | Prepared by | Reviewed by | Approved by | Description |
|----------|------------|-------------|-----------------------|-------------|-------------------------------|
| 1 | 31/10/2023 | J. Bourke | R. Condon/ M. Parsons | B. Sinclair | Initial |
| 2 | 2/11/2023 | J. Bourke | R. Condon/ M. Parsons | B. Sinclair | Revision following CTK Review |

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ACN 095 437 442
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1. Overview

Ramboll Australia Pty Ltd (Ramboll) has been commissioned by CTK Natural Resources Pty Ltd (CTK) to undertake air quality monitoring at the Bago Forest Quarry (BFQ), located at 31 Lookout Road, Herons Creek, NSW 2443.

Ambient air monitoring is required for BFQ by Environment Protection Licence (EPL) 20983 (NSW EPA 2018). EPL 20983 stipulates that dust deposition (as insoluble solids) is to be monitored in four locations reflecting close proximity to nearby sensitive receptors. Dust deposition refers to air particles that fall out of suspension from the air over a given area and time. This parameter is generally considered a nuisance concern rather than a concern for human health. Continuous PM₁₀ (particulate matter with an aerodynamic diameter of 10 microns or less) monitoring is to be implemented once extractive rates exceed 150,000 tonnes per annum (tpa). BFQ is not currently extracting at this rate, so PM₁₀ monitoring is not required.

This program was commissioned during October 2022, and this report presents annual results from the data collected since monitoring commenced (18 October 2022).

Previous memo reports delivered by Ramboll during this program are listed below:

- 318001562 Bago Forest Quarry DDG Report 2022-11, dated 1 December 2022, summarising data collected to 15 November 2022.
- 318001562 Bago Forest Quarry DDG Report 2022-12, dated 17 January 2023, summarising data collected to 19 December 2022.
- 318001562 Bago Forest Quarry DDG Report 2023-01, dated 23 February 2023, summarising data collected to 13 January 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-02, dated 2 March 2023, summarising data collected to 14 February 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-03, dated 27 April 2023, summarising data collected to 16 March 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-04, dated 27 April 2023, summarising data collected to 13 April 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-05, dated 28 July 2023, summarising data collected to 12 May 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-06, dated 9 August 2023, summarising data collected to 13 June 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-07, dated 9 August 2023, summarising data collected to 13 July 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-08, dated 19 September 2023, summarising data collected to 10 August 2023.
- 318001562 Bago Forest Quarry DDG Report 2023-09, dated 30 October 2023, summarising data collected to 12 September 2023.

2. Methodology

2.1 Deposited dust

Deposited dust is particulate matter that settles out of the air onto the ground or surfaces. It generally consists of larger, heavier particles from a local source and is considered a nuisance impact rather than a health concern. These particles contain a variety of components such as nitrates, sulphates, organic chemicals, metals, soil or dust particles and allergens. For this program, we are only concerned about insoluble solids to meet the requirements of BFQ's EPL.

2.2 Equipment siting

For this study, siting of all equipment was completed, as far as practicable, in accordance with the recommendations of *AS/NZS 3580.1.1:2016 Methods for sampling and analysis of ambient air Guide to siting air monitoring equipment* (Standards Australia and Standards New Zealand, 2016a). Four dust deposition gauges were installed on 18 October 2022 at the monitoring points D1, D2 – Temporary, D3 and D4. The D1 monitoring location was moved on 16 March 2023 from Little Bago Lane to Nelsons Road to minimise the influence of organic matter from nearby trees on the results. The new location is considered adjacent to and representative of the same property. The D2 monitoring location was moved on 13 April 2023 from its temporary location at the quarry weighbridge, located immediately adjacent to Milligans Road, to the Lyons property located on Lambs Road following access being granted by the residents. The D2 monitor was moved again on 12 May 2023 to a property at the end of Nelsons Road following issues with the Lambs Road residents.

From the beginning of the monitoring program the D2 monitoring location was moved from the EPA specified location to avoid the influence of organic matter from nearby trees and was temporarily placed at the Quarry Weighbridge which is approximately 40 metres to the south of the location.

Coordinates and locations of the dust deposition gauges are presented in **Table 2-1** and **Figure 2-1**.

Table 2-1: Bago Forest Quarry air quality monitoring location and coordinates

| ID | | Location | Easting (m) | Northing (m) |
|----|------------------|--|-------------|--------------|
| D1 | Oct 22 – Mar 23 | Matheson - Little Bago Lane, Herons Creek, NSW 2443 | 473518 | 6510827 |
| | Mar 23 – present | Matheson - Nelsons Road, Herons Creek, NSW 2443 | 473498 | 6510749 |
| D2 | Oct 22 – Apr 23 | Quarry weighbridge (temporary location only) | 472659 | 6510691 |
| | Apr – May 23 | Lyons - Lambs Road, Heron Creek, NSW 2443 | 471453 | 6510925 |
| | May 23 – present | Nelsons Road, Herons Creek, NSW 2443 | 472911 | 6510421 |
| D3 | | Winery Resident - Lambs Road, Herons Creek, NSW 2443 | 471120 | 6511189 |
| D4 | | Little Bago Lane, Herons Creek, NSW 2443 | 473690 | 6510381 |

2.3 Sampling and analysis

Sampling and analysis was conducted in accordance with the recommendations of *AS/NZS 3580.10.1:2016 Methods for sampling and analysis of ambient air Determination of particulate*

matter - Deposited matter - Gravimetric method (Standards Australia and Standards New Zealand, 2016b). Each gauge was installed to collect deposited matter in a glass bottle together with rainwater through a funnel over a period of 30 days +/- 2 days at a mounted height of approximately 2 m above ground surface. The samples were sent to a NATA accredited laboratory under chain of custody conditions to be analysed for insoluble solids (including ash and combustible matter).



Legend
 ● Dust deposition monitoring location

Figure 2-1 : Bago Forest Quarry - Air quality monitoring locations
 Bago Forest Quarry AQM

3. Assessment criteria

Air quality criteria relevant to the program are presented in **Table 3-1**.

Table 3-1: Air quality criteria relevant to Bago Forest Quarry air quality monitoring program

| Pollutant | Averaging period | Criteria | Source |
|--------------------------------------|-------------------------|---------------------------|-------------------------------|
| Deposited dust (as insoluble solids) | Annual | 4 g/m ² /month | NERDDC (1988), NSW EPA (2022) |

4. Results and Discussion

A summary of dust deposition (insoluble solid) results for the program are presented in **Table 4-1** and **Figure 4-1** with all results (including ash and combustible matter content for each sample) are presented in **Table 1, Appendix 1**. Annual averages at locations D1, D3 and D4 all fall below the annual average criterion of 4.0 g/m²/month. D2 exceeded the annual average criterion, reporting an annual average of 6.0 g/m²/month.

Table 4-1: Dust deposition as insoluble solids results for Bago Forest Quarry since monitoring commenced.

| Month | Start sampling period | End sampling period | Insoluble Solids (g/m ² /month) | | | |
|--------------------------|-----------------------|---------------------|--|------------------|------------|------------|
| | | | D1 | D2 | D3 | D4 |
| 1 | 18 Oct 2022 | 15 Nov 2022 | 2.1 | 3 | 0.7 | 0.6 |
| 2 | 15 Nov 2022 | 19 Dec 2022 | 8.8 | 12 | 1.5 | 1.4 |
| 3 | 19 Dec 2022 | 13 Jan 2023 | 6.2 | 5.1 | 0.4 | 0.9 |
| 4 | 13 Jan 2023 | 14 Feb 2023 | 14 | 4.8 | 0.9 | 1.2 |
| 5 | 14 Feb 2023 | 16 Mar 2023 | 4.5 | 1.1 | 1.3 | 0.5 |
| 6 | 16 Mar 2023 | 13 Apr 2023 | 0.4 | 10 | 0.4 | 0.4 |
| 7 | 13 Apr 2023 | 12 May 2023 | 0.4 | 3.1 | 0.8 | 0.4 |
| 8 | 12 May 2023 | 13 Jun 2023 | 2.2 | 0.9 | 1.8 | 0.4 |
| 9 | 13 Jun 2023 | 13 Jul 2023 | 1.4 | 23 ¹ | 0.6 | 0.7 |
| 10 | 13 Jul 2023 | 10 Aug 2023 | 1.5 | 4.6 ¹ | 0.8 | 0.4 |
| 11 | 10 Aug 2023 | 12 Sep 2023 | 1.6 | 0.7 | 0.6 | 0.3 |
| 12 | 12 Sep 2023 | 13 Oct 2023 | 2.2 | 3.1 | 1.6 | 0.6 |
| Annual average criterion | | | 4.0 | | | |
| Annual average | | | 3.8 | 6.0 | 1.0 | 0.7 |

Limit of reporting = 0.1 g/m²/month for insoluble solids

¹ Result influenced by a high ash content due to nearby hazard reduction burning by the Forestry Corporation of NSW

It was observed that insoluble solids exceeded the criterion at D1 for December 2022, January 2023, February 2023, and March 2023. Although since the annual average at this location fell below the annual average criterion there are no further comments for this location and previous comments can be found in the December 2022, January 2023, February 2023, and March 2023 summary reports (Ramboll 2023a, Ramboll 2023b, Ramboll 2023c and Ramboll 2023d).

It was noted in the July and August 2023 summary reports (Ramboll 2023h and Ramboll 2023i) that D2 results were influenced by a high ash content due to nearby hazard reduction burning by the Forestry Corporation of NSW. For monitoring period 13 June to 13 July 2023 (Ramboll 2023h), D2 reported insoluble solid levels at 23 g/m²/month, with the laboratory reporting the elevated insoluble solids levels to contain a high ash count (20 g/m²/month). For monitoring period 13 July to 10 August 2023 (Ramboll 2023i), the laboratory also reported a high ash content in D2, with the elevated insoluble solids level (4.6 g/m²/month) containing 3.8 g/m²/month of ash. The nearest Bureau of Meteorology weather station at Port Macquarie indicated wind direction during both monitoring periods was predominantly from the south, as shown in wind roses in **Figure 4-2**, indicating the elevated result was unlikely to have been a result of quarry operations which is located to the north of the D2 monitoring location. It was also observed that insoluble solids exceeded the criterion at D2 for monitoring periods 15 November to 19 December 2022, 19

December 2022 to 13 January 2023, 13 January to 14 February 2023, and 16 March to 13 April 2023, when D2 was temporarily located next to a busy unsealed road, and approximately 1 km from the nearest residence. As such, the monthly summary reports (Ramboll 2023a, Ramboll 2023b, Ramboll 2023c and Ramboll 2023e) considered that these data are influenced by heavy and light vehicle movements on the roadway into the quarry. Exceedances do not reflect the circumstances that exist at any of the nearest residential properties.

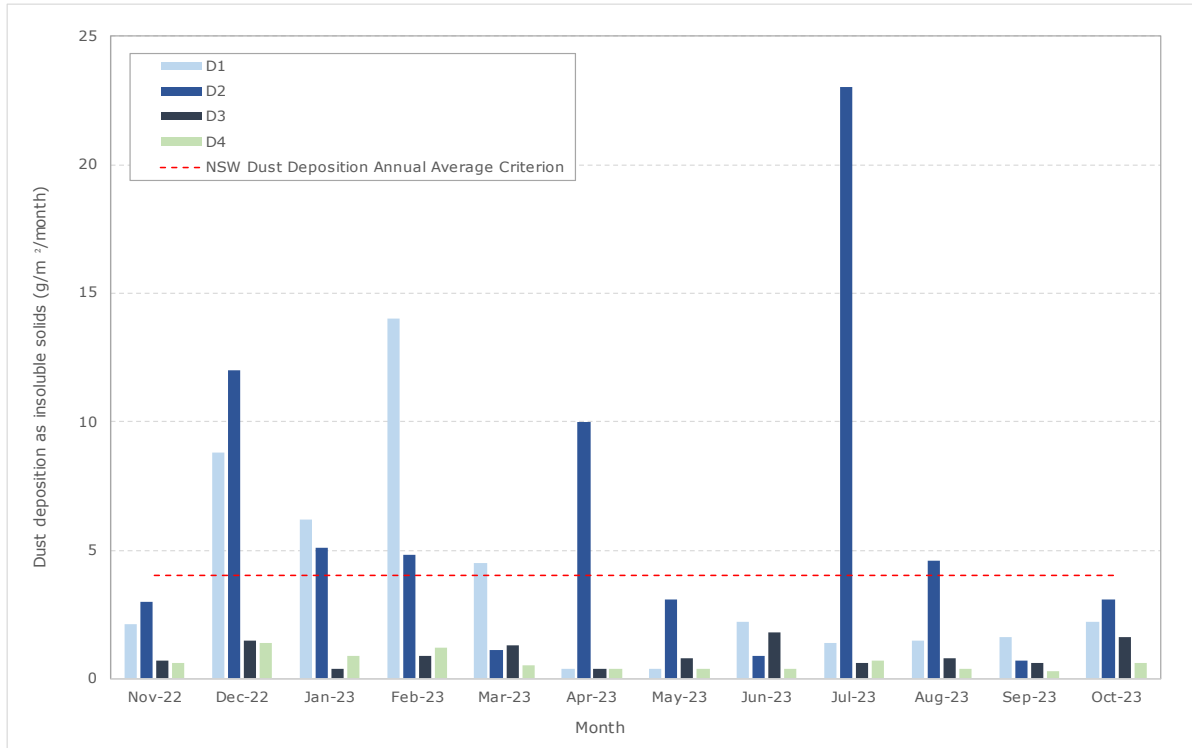


Figure 4-1: Dust deposition as insoluble solids results for the month compared to the annual criterion at Bago Forest Quarry since monitoring commenced.

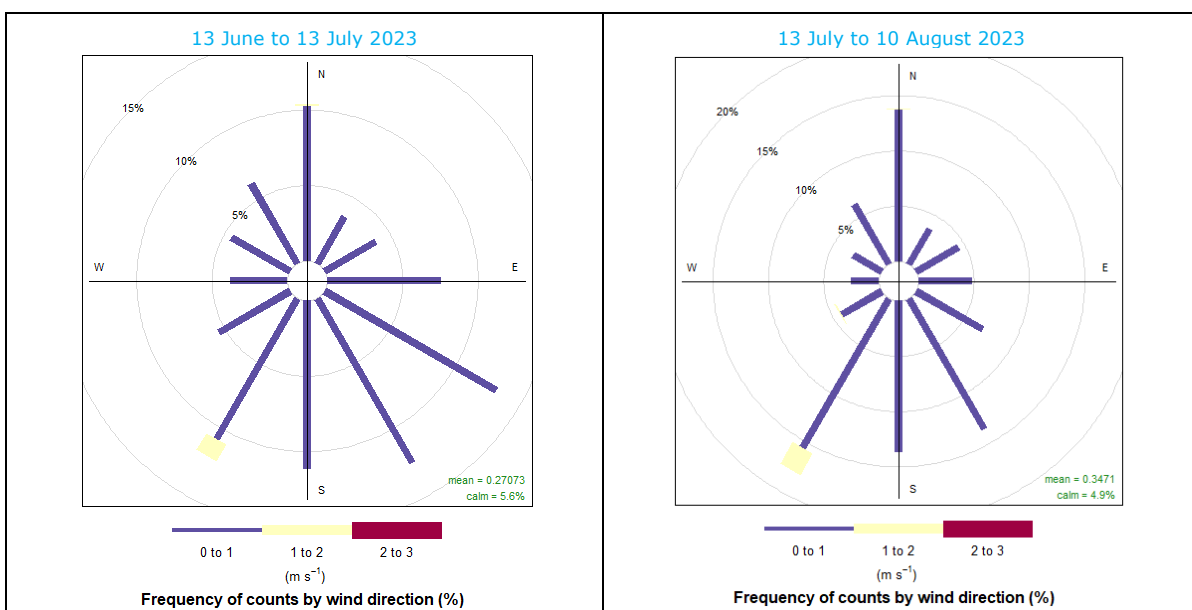


Figure 4-2: Wind roses for periods 13 June to 13 July 2023 (July) and 13 July to 10 August 2023 (August).

5. Summary

This report presents results of the air quality monitoring program at Bago Forest Quarry, Heron Creek, NSW since program commissioning on 18 October 2022. The program consists of dust deposition monitoring at four locations to meet the requirements of BFG's EPL.

The rolling annual average concentrations of deposited dust as insoluble solids remain below the annual average dust deposition criterion at all locations, except for D2, which reported an annual average of 6.0 g/m²/month against the annual average dust deposition criterion of 4.0 g/m²/month. It was noted that some elevated levels at this location were influenced by a high ash content due to nearby hazard reduction burning by the Forestry Corporation of NSW, and the location initially being situated adjacent a high traffic unsealed road for six months. It is difficult to isolate the quarry contribution using this method without applying additional monitoring techniques, and we are unable to say external influences are the only cause for the elevated levels.

6. Limitations

This document is issued in confidence to CTK Natural Resources Pty Ltd for the purposes of monitoring and assessing dust deposition (as insoluble solids) at Bago Forest Quarry in Herons Creek, NSW. It should not be used for any other purpose.

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7. References

NSW EPA (2018). Environment Protection Licence number 20983.

NSW EPA (2022). Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales. NSW Environment Protection Authority, Parramatta NSW.

Ramboll (2022a). 318001562 Bago Forest Quarry DDG Report 2022-11, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 1 December 2022.

Ramboll (2023a). 318001562 Bago Forest Quarry DDG Report 2022-12, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 17 January 2023.

Ramboll (2023b). 318001562 Bago Forest Quarry DDG Report 2023-01, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 23 February 2023.

Ramboll (2023c). 318001562 Bago Forest Quarry DDG Report 2023-02, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 2 March 2023.

Ramboll (2023d). 318001562 Bago Forest Quarry DDG Report 2023-03, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 27 April 2023.

Ramboll (2023e). 318001562 Bago Forest Quarry DDG Report 2023-04, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 27 April 2023.

Ramboll (2023f). 318001562 Bago Forest Quarry DDG Report 2023-05, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 28 July 2023.

Ramboll (2023g). 318001562 Bago Forest Quarry DDG Report 2023-06, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 9 August 2023.

Ramboll (2023h). 318001562 Bago Forest Quarry DDG Report 2023-07, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 9 August 2023.

Ramboll (2023i). 318001562 Bago Forest Quarry DDG Report 2023-08, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 19 September 2023.

Ramboll (2023j). 318001562 Bago Forest Quarry DDG Report 2023-09, Bago Forest Quarry Air Quality Monitoring, Ramboll Australia Pty Ltd, 30 October 2023.

Standards Australia, Standards New Zealand (2016a). *AS/NZS 3580.1.1:2016 Methods for sampling and analysis of ambient air Guide to siting air monitoring equipment*. Australian/New Zealand Standard.

Standards Australia, Standards New Zealand (2016b). *AS/NZS 3580.10.1:2016 Methods for sampling and analysis of ambient air Determination of particulate matter - Deposited matter - Gravimetric method*. Australian/New Zealand Standard.

Appendix 1 Results Table

Table 1
Dust Deposition Analytical Results



| | | | | Ash | Combustible Solids | Insoluble Solids | Soluble Solids | Total Solids Dried at 103 °C to 105 °C | Volume (total) |
|-----------------|---|-----------------------|---------|-------------------------|-------------------------|-------------------------|-------------------------|--|----------------|
| LOR | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Units | | | | g/m ² /month | g/m ² /month | g/m ² /month | g/m ² /month | g/m ² /month | mL |
| Sample Location | Sample Period | Laboratory Report No. | | | | | | | |
| D1 | Matheson - Little Bago Lane, Herons Creek | 18/10/23 to 15/11/23 | 942491 | 0.1 | 2 | 2.1 | 3.5 | 5.6 | 3200 |
| | | 15/11/23 to 19/12/23 | 952510 | 1 | 7.7 | 8.8 | 8.2 | 17 | 1200 |
| | | 19/12/23 to 13/01/23 | 956073 | 0.7 | 5.5 | 6.2 | 2.8 | 9 | 1200 |
| | | 13/01/23 to 14/02/23 | 964597 | 0.4 | 13 | 14 | 10 | 24 | 1400 |
| | | 14/02/23 to 16/03/23 | 972795 | 0.2 | 4.3 | 4.5 | 7.5 | 12 | 4200 |
| | Matheson - Nelsons Road, Herons Creek | 16/03/23 to 13/04/23 | 980665 | < 0.1 | 0.4 | 0.4 | 7.7 | 8.1 | 2800 |
| | | 13/04/23 to 12/05/23 | 989550 | 0.1 | 0.3 | 0.4 | 4.6 | 5 | 800 |
| | | 12/05/23 to 13/06/23 | 1000723 | 1.9 | 0.3 | 2.2 | 2.7 | 4.8 | 400 |
| | | 13/06/23 to 13/07/23 | 1007790 | 1.2 | 0.2 | 1.4 | < 0.1 | 1.4 | 300 |
| | | 13/07/23 to 10/08/23 | 1015939 | 1.2 | 0.3 | 1.5 | 1.8 | 3.3 | 250 |
| | | 10/08/23 to 12/09/23 | 1025598 | 1.4 | 0.3 | 1.6 | 1.1 | 2.7 | 200 |
| | | 12/09/23 to 13/10/23 | 1034788 | 2 | 0.3 | 2.2 | 2.1 | 4.3 | 200 |
| D2 | Quarry weighbridge | 18/10/23 to 15/11/23 | 942491 | < 0.1 | 2.9 | 3 | 4.6 | 7.6 | 2800 |
| | | 15/11/23 to 19/12/23 | 952510 | 0.3 | 11 | 12 | 4.9 | 16 | 1300 |
| | | 19/12/23 to 13/01/23 | 956073 | 0.2 | 5 | 5.1 | 4.4 | 9.5 | 1300 |
| | | 13/01/23 to 14/02/23 | 964597 | 0.2 | 4.6 | 4.8 | 4.8 | 9.5 | 1500 |
| | | 14/02/23 to 16/03/23 | 972795 | < 0.1 | 1 | 1.1 | 7.2 | 8.3 | 4300 |
| | Lyons - Lambs Road, Heron Creek | 16/03/23 to 13/04/23 | 980665 | 0.1 | 10 | 10 | 7.4 | 18 | 2700 |
| | | 13/04/23 to 12/05/23 | 989550 | 0.4 | 2.7 | 3.1 | 4.3 | 7.5 | 750 |
| | | 12/05/23 to 13/06/23 | 1000723 | 0.6 | 0.3 | 0.9 | 1.3 | 2.2 | 250 |
| | | 13/06/23 to 13/07/23 | 1007790 | 20 | 2.5 | 23 | 0.2 | 23 | 300 |
| | | 13/07/23 to 10/08/23 | 1015939 | 3.8 | 0.9 | 4.6 | 3.2 | 7.9 | 750 |
| | | 10/08/23 to 12/09/23 | 1025598 | 0.3 | 0.4 | 0.7 | 1.7 | 2.5 | 200 |
| | | 12/09/23 to 13/10/23 | 1034788 | 1.7 | 1.4 | 3.1 | 3.9 | 7 | 260 |
| D3 | Winery Resident - Lambs Road | 18/10/23 to 15/11/23 | 942491 | < 0.1 | 0.6 | 0.7 | 5.4 | 6.1 | 2800 |
| | | 15/11/23 to 19/12/23 | 952510 | 0.2 | 1.3 | 1.5 | 6.2 | 7.6 | 1400 |
| | | 19/12/23 to 13/01/23 | 956073 | < 0.1 | 0.3 | 0.4 | < 0.1 | 0.4 | 1700 |
| | | 13/01/23 to 14/02/23 | 964597 | 0.1 | 0.8 | 0.9 | 4.5 | 5.4 | 1500 |
| | | 14/02/23 to 16/03/23 | 972795 | < 0.1 | 1.2 | 1.3 | 11 | 13 | 3600 |
| | | 16/03/23 to 13/04/23 | 980665 | < 0.1 | 0.4 | 0.4 | 7.6 | 8 | 2700 |
| | | 13/04/23 to 12/05/23 | 989550 | 0.2 | 0.7 | 0.8 | 4.3 | 5.1 | 750 |
| | | 12/05/23 to 13/06/23 | 1000723 | 1.5 | 0.3 | 1.8 | 4.8 | 6.6 | 450 |
| | | 13/06/23 to 13/07/23 | 1007790 | 0.3 | 0.2 | 0.6 | < 0.1 | 0.6 | 250 |
| | | 13/07/23 to 10/08/23 | 1015939 | 0.6 | 0.2 | 0.8 | 2.8 | 3.6 | 300 |
| | | 10/08/23 to 12/09/23 | 1025598 | 0.5 | 0.2 | 0.6 | 2.9 | 3.6 | 250 |
| | | 12/09/23 to 13/10/23 | 1034788 | 1.2 | 0.4 | 1.6 | 2.5 | 4.1 | 280 |
| D4 | Little Bago Lane, Herons Creek | 18/10/23 to 15/11/23 | 942491 | < 0.1 | 0.6 | 0.6 | 4.2 | 4.8 | 2700 |
| | | 15/11/23 to 19/12/23 | 952510 | 0.2 | 1.2 | 1.4 | 6.1 | 7.5 | 1300 |
| | | 19/12/23 to 13/01/23 | 956073 | 0.2 | 0.7 | 0.9 | 1.5 | 2.4 | 1400 |
| | | 13/01/23 to 14/02/23 | 964597 | 0.2 | 1 | 1.2 | 4.6 | 5.9 | 1300 |
| | | 14/02/23 to 16/03/23 | 972795 | < 0.1 | 0.5 | 0.5 | 7.1 | 7.6 | 4000 |
| | | 16/03/23 to 13/04/23 | 980665 | < 0.1 | 0.4 | 0.4 | 9.3 | 9.7 | 2700 |
| | | 13/04/23 to 12/05/23 | 989550 | 0.1 | 0.3 | 0.4 | 4.2 | 4.6 | 730 |
| | | 12/05/23 to 13/06/23 | 1000723 | 0.3 | < 0.1 | 0.4 | 3.8 | 4.2 | 400 |
| | | 13/06/23 to 13/07/23 | 1007790 | 0.3 | 0.4 | 0.7 | < 0.1 | 0.7 | 250 |
| | | 13/07/23 to 10/08/23 | 1015939 | 0.3 | 0.2 | 0.4 | 3.7 | 4.2 | 300 |
| | | 10/08/23 to 12/09/23 | 1025598 | 0.1 | 0.2 | 0.3 | 2 | 2.3 | 200 |
| | | 12/09/23 to 13/10/23 | 1034788 | 0.1 | 0.4 | 0.6 | 3.2 | 3.8 | 200 |

Legend:
 LOR – Limit of Recording
 g = grams
 m = metres
 mL - millilitres

Appendix 2 Laboratory Reports



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 065 521

Sydney Laboratory
Unit F3 Bkl.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Muramba QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|------------------|---------------------------------------|--------|---|--|---|--|-----------------|--|------------------|--|----------------|--|-------------------|--|--|--|---|--|---------------------------------------|--|---------------|--|
| Company | | Ramboll | | Project No | | 318001562 | | Project Manager | | Greer Laing | | Sampler(s) | | Jake Bourke | | | | | | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | | Bago Forest Quarry | | EDD Format | | ESdel, EOutS etc | | Handed over by | | Jake Bourke | | | | | | | | | |
| Contact Name | | Jake Bourke | | Analyses Where include are requested, please specify Total or Filtered. SUITE code must be used to attract SUITE pricing. | | Dust Deposition | | | | | | | | Email for Invoice | | glaing@ramboll.com; jbourke@ramboll.com | | | | | | | |
| Phone No | | 0467 580 473 | | | | | | | | | | | | Email for Results | | glaing@ramboll.com; jbourke@ramboll.com | | | | | | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | Containers | | Change container type & size if necessary. | | Required Turnaround Time (TAT) | | Default will be 5 days if not ticked. | | | |
| Purchase Order | | | | | | | | | | | | | | 500mL Plastic | | 250mL Plastic | | 125mL Plastic | | 200mL Amber Glass | | 40mL VOA Vial | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | | | | | <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other () | | | | | |
| No | Client Sample ID | Sampled Date/Time | Matrix | | | | | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | | | |
| 1 | D1 | 18/10/2022 - 15/11/2022 | S | X | | | | | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 18/10/2022 - 15/11/2022 | S | X | | | | | | | | | | | | | | | | | | | |
| 3 | D3 | 18/10/2022 - 15/11/2022 | S | X | | | | | | | | | | | | | | | | | | | |
| 4 | D4 | 18/10/2022 - 15/11/2022 | S | X | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) | | <input checked="" type="checkbox"/> Hand Delivered | | <input type="checkbox"/> Postal | | Name | | Jake Bourke | | Signature | | Date | | Time | | | | | | | |
| Laboratory Use Only | | Received By | | Jaidyn Bourke | | SYD BNE MEL PER ADL NTL DRW | | Signature | | [Signature] | | Date | | 17/11/22 | | Time | | 12:00 | | Temperature | | N/A | |
| | | Received By | | | | SYD BNE MEL PER ADL NTL DRW | | Signature | | | | Date | | | | Time | | | | Report No | | 942401 | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| | | |
|---|---|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 |
|---|---|--|

| | | |
|--|--|---|
| Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 | Brisbane 1/21 Smallwood Place Murarie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 |
|--|--|---|

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| |
|---|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|---|

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| | |
|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
|---|---|

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Nov 17, 2022 12:00 PM |
| Eurofins reference | 942491 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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Sydney
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Girraween
NSW 2145
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NATA# 1261 Site# 18217

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Newcastle
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PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

Perth
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Welshpool
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Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
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IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 942491
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Nov 17, 2022 12:00 PM
Due: Nov 24, 2022
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Nov 15, 2022 | | Dust Deposition | N22-No0044982 | X |
| 2 | D2 TEMPORARY | Nov 15, 2022 | | Dust Deposition | N22-No0044983 | X |
| 3 | D3 | Nov 15, 2022 | | Dust Deposition | N22-No0044984 | X |
| 4 | D4 | Nov 15, 2022 | | Dust Deposition | N22-No0044985 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 942491-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Nov 17, 2022

| Client Sample ID | | | D1 Dust Deposition N22- No0044982 Nov 15, 2022 | D2 TEMPORARY Dust Deposition N22- No0044983 Nov 15, 2022 | D3 Dust Deposition N22- No0044984 Nov 15, 2022 | D4 Dust Deposition N22- No0044985 Nov 15, 2022 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 2.0 | 2.9 | 0.6 | 0.6 |
| Soluble Solids | 0.1 | g/m2/mth | 3.5 | 4.6 | 5.4 | 4.2 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 5.6 | 7.6 | 6.1 | 4.8 |
| Volume (total)* | 0.1 | mL | 3200 | 2800 | 2800 | 2700 |
| Ash* | 0.1 | g/m2/mth | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 2.1 | 3.0 | 0.7 | 0.6 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Nov 18, 2022

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
 North Sydney
 NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 942491
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Nov 17, 2022 12:00 PM
Due: Nov 24, 2022
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Nov 15, 2022 | | Dust Deposition | N22-No0044982 | X |
| 2 | D2 TEMPORARY | Nov 15, 2022 | | Dust Deposition | N22-No0044983 | X |
| 3 | D3 | Nov 15, 2022 | | Dust Deposition | N22-No0044984 | X |
| 4 | D4 | Nov 15, 2022 | | Dust Deposition | N22-No0044985 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Roopesh Rangarajan Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN OF CUSTODY RECORD

Sydney Laboratory
 Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
 02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
 Unit 1 21 Smallwood Place Murarrie QLD 4172
 07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
 Unit 2 91 Leach Highway Kewdale WA 6105
 08 9251 9800 EnviroSampleWA@eurofins.com

Melbourne Laboratory
 6 Monterey Road Dandenong South VIC 3175
 03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | |
|---------------------------|---|--|---------------------------|------------------------|--------------------|-----------------------|--------------------|--|--|
| Company | Ramboll | Project № | 318001562 | Project Manager | Greer Laing | Sampler(s) | Jake Bourke | | |
| Address | 50 Glebe Road, The Junction NSW 2291 | Project Name | Bago Forest Quarry | EDD Format | ES.dat, EQuIS etc | Handed over by | Jake Bourke | | |
| Contact Name | Jake Bourke | Analyses Where matrix are requested please specify "Total" or "Filtered" SUITE code must be used to attract SUITE pricing | Dust Deposition | | | | | Email for Invoice | glaing@ramboll.com; jbourke@ramboll.com |
| Phone № | 0467 580 473 | | | | | | | Email for Results | glaing@ramboll.com; jbourke@ramboll.com |
| Special Directions | Page 1 of 1 | | | | | | | Containers Change container type & size if necessary | |
| Purchase Order | | | | | | | | Required Turnaround Time (TAT) Default will be 5 days if not listed | |
| Quote ID № | 200316RAMN | | | | | | | ♦ Surcharge will apply <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |

| No | Client Sample ID | Sampled Date/Time dd/mm/yyyy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | |
|---------------------|------------------|---------------------------------------|----------------------------------|----------|--|--|--|--|--|--|--|--|--|---|--|
| 1 | D1 | 15/11/2022 - 19/12/2022 | S | ✘ | | | | | | | | | | | |
| 2 | D2 Temporary | 15/11/2022 - 19/12/2022 | S | ✘ | | | | | | | | | | | |
| 3 | D3 | 15/11/2022 - 19/12/2022 | S | ✘ | | | | | | | | | | | |
| 4 | D4 | 15/11/2022 - 19/12/2022 | S | ✘ | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | |

| | | | | | | | | | |
|----------------------------|---------------------------------------|--|--|-------------|--------------------|------------------|-------------|--------------|---------|
| Method of Shipment | <input type="checkbox"/> Courier (#) | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Postal | Name | Jake Bourke | Signature | Date | Time | |
| Laboratory Use Only | Received By: | <i>Judge St...</i> | SYD BNE MEL PER ADL NT DRW | Signature: | <i>Jake Bourke</i> | Date: | 11/2/22 | Time: | 2:20 PM |
| | Received By: | | SYD BNE MEL PER ADL NT DRW | Signature: | | Date: | | Temperature: | N/A |

Eurofins Environment Testing Australia Pty Ltd

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

Report №: 352510

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| | | |
|---|---|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 |
|---|---|--|

| | | |
|--|--|---|
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|--|--|---|

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|---|

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|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
|---|---|

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 10 Day |
| Date/Time received | Dec 19, 2022 2:10 PM |
| Eurofins reference | 952510 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



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NATA# 1261 Site# 1254

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NATA# 1261 Site# 1254

Sydney
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Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

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ACT 2911
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Brisbane
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Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

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PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

Perth
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Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
35 O'Rorke Road
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Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 952510
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Dec 19, 2022 2:10 PM
Due: Jan 5, 2023
Priority: 10 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Dec 19, 2022 | | Dust Deposition | S22-De0051044 | X |
| 2 | D2 TEMPORARY | Dec 19, 2022 | | Dust Deposition | S22-De0051045 | X |
| 3 | D3 | Dec 19, 2022 | | Dust Deposition | S22-De0051046 | X |
| 4 | D4 | Dec 19, 2022 | | Dust Deposition | S22-De0051047 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 952510-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Dec 19, 2022

| Client Sample ID | | | D1 Dust Deposition S22- De0051044 Dec 19, 2022 | D2 TEMPORARY Dust Deposition S22- De0051045 Dec 19, 2022 | D3 Dust Deposition S22- De0051046 Dec 19, 2022 | D4 Dust Deposition S22- De0051047 Dec 19, 2022 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 7.7 | 11 | 1.3 | 1.2 |
| Soluble Solids | 0.1 | g/m2/mth | 8.2 | 4.9 | 6.2 | 6.1 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 17 | 16 | 7.6 | 7.5 |
| Volume (total)* | 0.1 | mL | 1200 | 1300 | 1400 | 1300 |
| Ash* | 0.1 | g/m2/mth | 1.0 | 0.3 | 0.2 | 0.2 |
| Insoluble Solids | 0.1 | g/m2/mth | 8.8 | 12 | 1.5 | 1.4 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Dec 21, 2022

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
 North Sydney
 NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 952510
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Dec 19, 2022 2:10 PM
Due: Jan 5, 2023
Priority: 10 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Dec 19, 2022 | | Dust Deposition | S22-De0051044 | X |
| 2 | D2 TEMPORARY | Dec 19, 2022 | | Dust Deposition | S22-De0051045 | X |
| 3 | D3 | Dec 19, 2022 | | Dust Deposition | S22-De0051046 | X |
| 4 | D4 | Dec 19, 2022 | | Dust Deposition | S22-De0051047 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Roopesh Rangarajan Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| Company Ramboll | | Project No 318001562 | | Project Manager Greer Laing | | Sampler(s) Jake Bourke | | | | | |
|--|------------------|---|----------------------------------|---|--|---|--|---|--|------------------|--|
| Address 50 Glebe Road, The Junction NSW 2291 | | Project Name Bago Forest Quarry | | EDD Format ESdat, EQUIS etc | | Handed over by Jake Bourke | | | | | |
| Contact Name Jake Bourke | | Analyses Where matrices are requested, please specify "Soil" or "Fillament". SUITE code must be used to attach SUITE pricing. | | Dust Deposition | | Email for Invoice glaing@ramboll.com; jbourke@ramboll.com | | | | | |
| Phone No 0467 580 473 | | | | | | Email for Results glaing@ramboll.com; jbourke@ramboll.com | | | | | |
| Special Directions Page 1 of 1 | | | | | | Containers Change container type & size if necessary | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | | | |
| Purchase Order | | | | | | 500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4994, WA Guidelines) | | ♦ Surcharge will apply <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | | | |
| Quote ID No 200316RAMN | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | |
| 1 | D1 | 19/12/2022 - 13/01/2023 | S | X | | | | | | | |
| 2 | D2 Temporary | 19/12/2022 - 13/01/2023 | S | X | | | | | | | |
| 3 | D3 | 19/12/2022 - 13/01/2023 | S | X | | | | | | | |
| 4 | D4 | 19/12/2022 - 13/01/2023 | S | X | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name Jake Bourke | | Signature | | Date | | Time | |
| Laboratory Use Only | | Received By <i>Jaidyn Stanger</i> | | SYD BNE MEL PER ADL NTL DRW | | Signature <i>[Signature]</i> | | Date 16/1/23 | | Time 16/1/23 | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | | Signature | | Date | | Time 9:00 AM | |
| | | | | | | | | | | Temperature N/A | |
| | | | | | | | | | | Report No 956073 | |

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| | | |
|---|---|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 |
|---|---|--|

| | | |
|--|--|---|
| Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 | Brisbane 1/21 Smallwood Place Murarie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 |
|--|--|---|

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| |
|---|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|---|

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| | |
|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
|---|---|

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Jan 16, 2023 9:00 AM |
| Eurofins reference | 956073 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

Perth
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
35 O'Rorke Road
Penrose
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 956073
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Jan 16, 2023 9:00 AM
Due: Jan 23, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017550 | X |
| 2 | D2 TEMPORARY | Jan 13, 2023 | | Dust Deposition | N23-Ja0017551 | X |
| 3 | D3 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017552 | X |
| 4 | D4 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017553 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 956073-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Jan 16, 2023

| Client Sample ID | | | D1 Dust Deposition | D2 TEMPORARY Dust Deposition | D3 Dust Deposition | D4 Dust Deposition |
|--|-----|----------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| Sample Matrix | | | N23-Ja0017550 | N23-Ja0017551 | N23-Ja0017552 | N23-Ja0017553 |
| Eurofins Sample No. | | | Jan 13, 2023 | Jan 13, 2023 | Jan 13, 2023 | Jan 13, 2023 |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 5.5 | 5.0 | 0.3 | 0.7 |
| Soluble Solids | 0.1 | g/m2/mth | 2.8 | 4.4 | < 0.1 | 1.5 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 9.0 | 9.5 | 0.4 | 2.4 |
| Volume (total)* | 0.1 | mL | 1200 | 1300 | 1700 | 1400 |
| Ash* | 0.1 | g/m2/mth | 0.7 | 0.2 | < 0.1 | 0.2 |
| Insoluble Solids | 0.1 | g/m2/mth | 6.2 | 5.1 | 0.4 | 0.9 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Jan 17, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

| | | | | | |
|--|---|-------------------|--------------|----------------------|----------------------|
| Company Name: | Ramboll Australia Pty Ltd | Order No.: | | Received: | Jan 16, 2023 9:00 AM |
| Address: | Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: | 956073 | Due: | Jan 23, 2023 |
| Project Name: | BAGO FOREST QUARRY | Phone: | 02 9954 8118 | Priority: | 5 Day |
| Project ID: | 318001562 | Fax: | 02 9954 8150 | Contact Name: | Greer Laing |
| Eurofins Analytical Services Manager : Andrew Black | | | | | |

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017550 | X |
| 2 | D2 TEMPORARY | Jan 13, 2023 | | Dust Deposition | N23-Ja0017551 | X |
| 3 | D3 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017552 | X |
| 4 | D4 | Jan 13, 2023 | | Dust Deposition | N23-Ja0017553 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

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For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

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ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Bonnie Pu Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

Sydney Laboratory
 Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
 02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
 Unit 1 21 Smallwood Place Murarie QLD 4172
 07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
 Unit 2 91 Leach Highway Kewdale WA 6105
 08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
 6 Monterey Road Dandenong South VIC 3175
 03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|--------------------|------------------|--------------------------------------|----------------------------------|--|--------------------|--|--|--|-----------------|--|--|--|--|----------------|-------------|--|---|---|--|
| Company | | Ramboll | | Project No | 318001562 | | | | Project Manager | Greer Laing | | | | Sampler(s) | Jake Bourke | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | Bago Forest Quarry | | | | EDD Format | ESdat, EQulS etc | | | | Handed over by | Jake Bourke | | | | |
| Contact Name | | Jake Bourke | | Analyses Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing. | Dust Deposition | | | | | | | | | | | Email for Invoice | glaing@ramboll.com; jbourke@ramboll.com | | |
| Phone No | | 0467 580 473 | | | | | | | | | | | | | | Email for Results | glaing@ramboll.com; jbourke@ramboll.com | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | | | 500mL Plastic | | <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | 250mL Plastic | | | | | |
| | | | | | | | | | | 125mL Plastic | | | | | | | | | |
| | | | | | | | | | | 200mL Amber Glass | | | | | | | | | |
| | | | | | | | | | | 40mL VOA vial | | | | | | | | | |
| | | | | | | | | | | 500mL PFAS Bottle | | | | | | | | | |
| | | | | | | | | | | Jar (Glass or HDPE) | | | | | | | | | |
| | | | | | | | | | | Other (Asbestos AS4984, WA Guidelines) | | | | | | | | | |
| | | | | | | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | | | | | | |
| 1 | D1 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 3 | D3 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 4 | D4 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---------------------|---------------------------------------|--|--|-----------|--------------------|-----------|---------|------|------|-------------|--------|
| Method of Shipment | <input type="checkbox"/> Courier (#) | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Postal | Name | Jake Bourke | Signature | | Date | | Time | |
| Laboratory Use Only | Received By | <i>Jackson Sloman</i> | SYD BNE MEL PER ADL NTL DRW | Signature | <i>[Signature]</i> | Date | 16/2/23 | Time | 8:30 | Temperature | N/A |
| | Received By | | SYD BNE MEL PER ADL NTL DRW | Signature | | Date | | Time | | Report No | 964567 |

Eurofins Environment Testing Australia Pty Ltd Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| | | | | | |
|---|--|--|--|---|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |
|---|--|--|--|---|--|

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| |
|---|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|---|

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| | |
|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
|---|---|

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Feb 16, 2023 8:30 AM |
| Eurofins reference | 964567 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
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Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

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NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
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NATA# 1261 Site# 18217

Canberra
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NATA# 1261 Site# 25466

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IANZ# 1327

Christchurch
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Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 964567
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Feb 16, 2023 8:30 AM
Due: Feb 23, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039572 | X |
| 2 | D2 TEMPORARY | Feb 14, 2023 | | Dust Deposition | N23-Fe0039573 | X |
| 3 | D3 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039574 | X |
| 4 | D4 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039575 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 964567-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Feb 16, 2023

| Client Sample ID | | | D1 Dust Deposition N23-Fe0039572 Feb 14, 2023 | D2 TEMPORARY Dust Deposition N23-Fe0039573 Feb 14, 2023 | D3 Dust Deposition N23-Fe0039574 Feb 14, 2023 | D4 Dust Deposition N23-Fe0039575 Feb 14, 2023 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 13 | 4.6 | 0.8 | 1.0 |
| Soluble Solids | 0.1 | g/m2/mth | 10 | 4.8 | 4.5 | 4.6 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 24 | 9.5 | 5.4 | 5.9 |
| Volume (total)* | 0.1 | mL | 1400 | 1500 | 1500 | 1300 |
| Ash* | 0.1 | g/m2/mth | 0.4 | 0.2 | 0.1 | 0.2 |
| Insoluble Solids | 0.1 | g/m2/mth | 14 | 4.8 | 0.9 | 1.2 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Feb 17, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
 North Sydney
 NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 964567
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Feb 16, 2023 8:30 AM
Due: Feb 23, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039572 | X |
| 2 | D2 TEMPORARY | Feb 14, 2023 | | Dust Deposition | N23-Fe0039573 | X |
| 3 | D3 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039574 | X |
| 4 | D4 | Feb 14, 2023 | | Dust Deposition | N23-Fe0039575 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Bonnie Pu Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2056
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Montrey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| Company | | Ramboll | | Project No | | 318001562 | | Project Manager | | Greer Laing | | Sampler(s) | | Matilda Englert | | | | | |
|---------------------|------------------|---------------------------------------|----------------------------------|---|--|---------------------------------|--|-----------------|--|------------------|--|----------------|--|--|--|---|--|--|--|
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | | Bago Forest Quarry | | EDD Format | | ESdat, EOU/S etc | | Handed over by | | Matilda Englert | | | | | |
| Contact Name | | Matilda Englert | | Analyses Where metals are requested, please specify "Total" or "Filtered" SUITE code must be used to attract SUITE pricing. | | Dust Deposition | | | | | | | | Email for Invoice | | glaing@ramboll.com; jbourke@ramboll.com | | | |
| Phone No | | 473014006 | | | | | | | | | | | | Email for Results | | glaing@ramboll.com; jbourke@ramboll.com | | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | Containers | | Required Turnaround Time (TAT) | | | |
| Purchase Order | | | | | | | | | | | | | | Change container type & size if necessary. | | Default will be 5 days if not ticked. | | | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | | | | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yyyy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | |
| 1 | D1 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 3 | D3 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 4 | D4 | 13/01/2023 - 14/02/2023 | S | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) | | <input checked="" type="checkbox"/> Hand Delivered | | <input type="checkbox"/> Postal | | Name | | Matilda Englert | | Signature | | Date | | Time | | | |
| Laboratory Use Only | | Received By | | SYD BNE MEL PER ADL NTL DRW | | Signature | | Date | | 16/3/23 | | Time | | 2:41 PM | | Temperature | | | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | | Signature | | Date | | | | Time | | | | Report No | | | |
| | | | | | | | | | | | | | | | | 972795 | | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|--|---|---|--|--|
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| Perth |
|---|
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NZBN: 9429046024954

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|--|--|
| 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Mar 16, 2023 2:41 PM |
| Eurofins reference | 972795 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
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- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

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Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



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Brisbane
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NATA# 1261 Site# 20794

Newcastle
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NATA# 1261
Site# 25079 & 25289

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WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
35 O'Rorke Road
Penrose
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 972795
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Mar 16, 2023 2:41 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Mar 14, 2023 | | Dust Deposition | N23-Ma0041020 | X |
| 2 | D2 TEMPORARY | Mar 14, 2023 | | Dust Deposition | N23-Ma0041021 | X |
| 3 | D3 | Mar 15, 2023 | | Dust Deposition | N23-Ma0041022 | X |
| 4 | D4 | Mar 14, 2023 | | Dust Deposition | N23-Ma0041023 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 972795-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Mar 16, 2023

| Client Sample ID | | | D1 Dust Deposition N23- Ma0041020 Mar 14, 2023 | D2 TEMPORARY Dust Deposition N23- Ma0041021 Mar 14, 2023 | D3 Dust Deposition N23- Ma0041022 Mar 15, 2023 | D4 Dust Deposition N23- Ma0041023 Mar 14, 2023 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 4.3 | 1.0 | 1.2 | 0.5 |
| Soluble Solids | 0.1 | g/m2/mth | 7.5 | 7.2 | 11 | 7.1 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 12 | 8.3 | 13 | 7.6 |
| Volume (total)* | 0.1 | mL | 4200 | 4300 | 3600 | 4000 |
| Ash* | 0.1 | g/m2/mth | 0.2 | < 0.1 | < 0.1 | < 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 4.5 | 1.1 | 1.3 | 0.5 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Mar 17, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
 North Sydney
 NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 972795
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Mar 16, 2023 2:41 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Mar 14, 2023 | | Dust Deposition | N23-Ma0041020 | X |
| 2 | D2 TEMPORARY | Mar 14, 2023 | | Dust Deposition | N23-Ma0041021 | X |
| 3 | D3 | Mar 15, 2023 | | Dust Deposition | N23-Ma0041022 | X |
| 4 | D4 | Mar 14, 2023 | | Dust Deposition | N23-Ma0041023 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | N/A |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 035 521

Sydney Laboratory
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Montarey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------------------|---|----------------------------------|--|--------------------|--|--|------------------|-------------|---------|--|----------------|-----------------|---|-------------|---|---|---|--|
| Company | | Ramboll | | Project No | 318001562 | | | Project Manager | Greer Laing | | | Sampler(s) | Matilda Englert | | | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | Bago Forest Quarry | | | ESdel, EQU/S etc | | | | Handed over by | Matilda Englert | | | | | | |
| Contact Name | | Matilda Englert | | Analyses Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing. | Dust Deposition | | | | | | | | | | | Email for Invoice | glaing@ramboll.com; jbourke@ramboll.com | | |
| Phone No | | 0473 014 006 | | | | | | | | | | | | | | Email for Results | glaing@ramboll.com; jbourke@ramboll.com | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | | | 500mL Plastic | | <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | 250mL Plastic | | ♦ Surcharge will apply <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 3 days ♦ | | | |
| | | | | | | | | | | | | | | 125mL Plastic | | | | | |
| | | | | | | | | | | | | | | 200mL Amber Glass | | | | | |
| | | | | | | | | | | | | | | 40mL VOA vial | | | | | |
| | | | | | | | | | | | | | | 500mL PFAS Bottle | | | | | |
| | | | | | | | | | | | | | | Jar (Glass or HDPE) | | | | | |
| | | | | | | | | | | | | | | Other (Asbestos AS4984, WA Guidelines) | | | | | |
| | | | | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | | | | | | |
| 1 | D1 | 16/03/2023 - 13/04/2023 | S | X | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 16/03/2023 - 13/04/2023 | S | X | | | | | | | | | | | | | | | |
| 3 | D3 | 16/03/2023 - 13/04/2023 | S | X | | | | | | | | | | | | | | | |
| 4 | D4 | 16/03/2023 - 13/04/2023 | S | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name | Matilda Englert | | | Signature | | | | Date | 13/04/2023 | | Time | | | | |
| Laboratory Use Only | | Received By | Jaidyn Slougoner | SYD BNE MEL PER ADL NTL DRW | Signature | | | | Date | 13/4/23 | | Time | 1:46 PM | | Temperature | N/A | | | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | Date | | | Time | | | Report No | 980665 | | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|--|---|---|--|--|
| 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| Perth |
|---|
| 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland | Christchurch |
|--|--|
| 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |

Sample Receipt Advice

| | |
|---------------------------|------------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY (MONTHLY) |
| Project ID: | 3180001562 |
| Turnaround time: | 7 Day |
| Date/Time received | Apr 14, 2023 1:46 PM |
| Eurofins reference | 980665 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Perth
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
35 O'Rorke Road
Penrose
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY (MONTHLY)
Project ID: 3180001562

Order No.:
Report #: 980665
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Apr 14, 2023 1:46 PM
Due: Apr 26, 2023
Priority: 7 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027258 | X |
| 2 | D2 TEMPORARY | Apr 13, 2023 | | Dust Deposition | N23-Ap0027259 | X |
| 3 | D3 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027260 | X |
| 4 | D4 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027261 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 980665-A
 Project name BAGO FOREST QUARRY (MONTHLY)
 Project ID 3180001562
 Received Date Apr 14, 2023

| Client Sample ID | | | D1 Dust Deposition N23- Ap0027258 Apr 13, 2023 | D2 TEMPORARY Dust Deposition N23- Ap0027259 Apr 13, 2023 | D3 Dust Deposition N23- Ap0027260 Apr 13, 2023 | D4 Dust Deposition N23- Ap0027261 Apr 13, 2023 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.4 | 10 | 0.4 | 0.4 |
| Soluble Solids | 0.1 | g/m2/mth | 7.7 | 7.4 | 7.6 | 9.3 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 8.1 | 18 | 8.0 | 9.7 |
| Volume (total)* | 0.1 | mL | 2800 | 2700 | 2700 | 2700 |
| Ash* | 0.1 | g/m2/mth | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 0.4 | 10 | 0.4 | 0.4 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Apr 14, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY (MONTHLY)
Project ID: 3180001562

Order No.:
Report #: 980665
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Apr 14, 2023 1:46 PM
Due: Apr 26, 2023
Priority: 7 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027258 | X |
| 2 | D2 TEMPORARY | Apr 13, 2023 | | Dust Deposition | N23-Ap0027259 | X |
| 3 | D3 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027260 | X |
| 4 | D4 | Apr 13, 2023 | | Dust Deposition | N23-Ap0027261 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins Environment Testing, ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bldg F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
5 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------------------|--|----------------------------------|--|---|-----------|--|-----------------|-----------------|------|---------|----------------|-----------------|---|------|--|---|--|--|
| Company | | Ramboll | | Project No | 318001562 | | | Project Manager | Greer Laing | | | Sampler(s) | Matilda Englert | | | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | Bago Forest Quarry | | | EDD Format | ESdcl, EQUS etc | | | Handed over by | Matilda Englert | | | | | | |
| Contact Name | | Matilda Englert | | Analyses Where metals are requested, please specify 'Total' or 'Filtered'. SUITE code must be used to attract SUITE pricing. | Dust Deposition | | | | | | | | | | | Email for Invoice | glaing@ramboll.com; jbourke@ramboll.com | | |
| Phone No | | 0473 014 006 | | | | | | | | | | | | | | Email for Results | glaing@ramboll.com; jbourke@ramboll.com | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | | | 500mL Plastic | | <input type="checkbox"/> Overnight (reporting by 9am)* <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other () | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | 250mL Plastic | | <input type="checkbox"/> Other () | | | |
| | | | | | | | | | | | | | | 125mL Plastic | | | | | |
| | | | | | | | | | | | | | | 200mL Amber Glass | | | | | |
| | | | | | | | | | | | | | | 40mL VOA vial | | | | | |
| | | | | | | | | | | | | | | 500mL PFAS Bottle | | | | | |
| | | | | | | | | | | | | | | Jar (Glass or HDPE) | | | | | |
| | | | | | | | | | | | | | | Other (Asbestos AS4984, WA Guidelines) | | | | | |
| | | | | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | | | | | | |
| 1 | D1 | 13/04/2023 - 12/05/2023 | S | X | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 13/04/2023 - 12/05/2023 | S | X | | | | | | | | | | | | | | | |
| 3 | D3 | 13/04/2023 - 12/05/2023 | S | X | | | | | | | | | | | | | | | |
| 4 | D4 | 13/04/2023 - 12/05/2023 | S | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name | Matilda Englert | | | Signature | | | | Date | 5/12/2023 | | Time | | | | |
| Laboratory Use Only | | Received By | <i>Deidja Stangone</i> | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | Date | 15/5/23 | | Time | 8:30AM | | Temperature | N/A | | |
| | | Received By | | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | Date | | | Time | | | Report No | 989550 | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|--|---|---|--|--|
| 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| Perth |
|---|
| 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland | Christchurch |
|---|--|
| 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 |

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Greer Laing |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 7 Day |
| Date/Time received | May 15, 2023 8:30 AM |
| Eurofins reference | 989550 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Greer Laing - glaing@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Perth
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Auckland
35 O'Rorke Road
Penrose
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 989550
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: May 15, 2023 8:30 AM
Due: May 24, 2023
Priority: 7 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | May 12, 2023 | | Dust Deposition | N23-My0035631 | X |
| 2 | D2 TEMPORARY | May 12, 2023 | | Dust Deposition | N23-My0035632 | X |
| 3 | D3 | May 12, 2023 | | Dust Deposition | N23-My0035633 | X |
| 4 | D4 | May 12, 2023 | | Dust Deposition | N23-My0035634 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Greer Laing

Report 989550-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date May 15, 2023

| Client Sample ID | | | D1 Dust Deposition N23- My0035631 May 12, 2023 | D2 TEMPORARY Dust Deposition N23- My0035632 May 12, 2023 | D3 Dust Deposition N23- My0035633 May 12, 2023 | D4 Dust Deposition N23- My0035634 May 12, 2023 |
|--|-----|----------|---|--|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.3 | 2.7 | 0.7 | 0.3 |
| Soluble Solids | 0.1 | g/m2/mth | 4.6 | 4.3 | 4.3 | 4.2 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 5.0 | 7.5 | 5.1 | 4.6 |
| Volume (total)* | 0.1 | mL | 800 | 750 | 750 | 730 |
| Ash* | 0.1 | g/m2/mth | 0.1 | 0.4 | 0.2 | 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 0.4 | 3.1 | 0.8 | 0.4 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

May 15, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
 North Sydney
 NSW 2060
Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 989550
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: May 15, 2023 8:30 AM
Due: May 22, 2023
Priority: 5 Day
Contact Name: Greer Laing

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | May 12, 2023 | | Dust Deposition | N23-My0035631 | X |
| 2 | D2 TEMPORARY | May 12, 2023 | | Dust Deposition | N23-My0035632 | X |
| 3 | D3 | May 12, 2023 | | Dust Deposition | N23-My0035633 | X |
| 4 | D4 | May 12, 2023 | | Dust Deposition | N23-My0035634 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Adam Bateup Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Musgrave QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------------------|--|----------------------------------|--|--------------------|-----------------|--|--------------------|-----------------|------------------|--|---------|--|---|-----------------|--|--|--|--|
| Company | | Ramboll | | Project No | 318001562 | | | | Project Manager | Rachel Condon | | | | Sampler(s) | Matilda Englert | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | Bago Forest Quarry | | | | EDD Format | ESdal, EQulS etc | | | | Handed over by | Matilda Englert | | | | |
| Contact Name | | Matilda Englert | | Analysis Where metals are requested, please specify "Total" or "Filterable". SUTTE code must be used to attract SUTTE pricing. | Dust Deposition | | | | | | | | | | | Email for Invoice | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | |
| Phone No | | 0473 014 006 | | | | | | | | | | | | | | Email for Results | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | | | 500mL Plastic | | <input type="checkbox"/> Overnight (reporting by 9am) *Surcharge will apply <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | 250mL Plastic | | <input type="checkbox"/> Other() | | | |
| | | | | | | | | | | | | | | 125mL Plastic | | | | | |
| | | | | | | | | | | | | | | 200mL Amber Glass | | | | | |
| | | | | | | | | | | | | | | 40mL VOA vial | | | | | |
| | | | | | | | | | | | | | | 500mL PFAS Bottle | | | | | |
| | | | | | | | | | | | | | | Jar (Glass or HDPE) | | | | | |
| | | | | | | | | | | | | | | Other (Asbestos AS4684, WA Guidelines) | | | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | Sample Comments / Dangerous Goods Hazard Warning | | | | | |
| 1 | D1 | 12/05/2023 - 13/06/2023 | S | X | | | | | | | | | | | | | | | |
| 2 | D2 Temporary | 12/05/2023 - 13/06/2023 | S | X | | | | | | | | | | | | | | | |
| 3 | D3 | 12/05/2023 - 13/06/2023 | S | X | | | | | | | | | | | | | | | |
| 4 | D4 | 12/05/2023 - 13/06/2023 | S | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name | | Matilda Englert | | Signature | | Date | | Time | | | | | | | |
| Laboratory Use Only | | Received By <i>Leah Stanger</i> | | SYD BNE MEL PER ADL NTL DRW | | Signature | | <i>[Signature]</i> | | Date | | 20/6/23 | | Temperature | | | | | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | | Signature | | | | Date | | Time | | Report No | | | | | |
| | | | | | | | | | | | | | | 1000723 | | | | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|--|---|---|--|--|
| 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| Perth |
|---|
| 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland | Christchurch |
|---|--|
| 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 |

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Rachel Condon |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 7 Day |
| Date/Time received | Jun 20, 2023 2:18 PM |
| Eurofins reference | 1000723 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rachel Condon - rcondon@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



Melbourne
6 Monterey Road
Dandenong South
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NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
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Sydney
179 Magowar Road
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Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 1000723
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Jun 20, 2023 2:18 PM
Due: Jun 29, 2023
Priority: 7 Day
Contact Name: Rachel Condon

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045940 | X |
| 2 | D2 TEMPORARY | Jun 13, 2023 | | Dust Deposition | N23-Jn0045941 | X |
| 3 | D3 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045942 | X |
| 4 | D4 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045943 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Rachel Condon

Report 1000723-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Jun 20, 2023

| Client Sample ID | | | D1 Dust Deposition | D2 TEMPORARY Dust Deposition | D3 Dust Deposition | D4 Dust Deposition |
|--|-----|----------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| Sample Matrix | | | N23-Jn0045940 | N23-Jn0045941 | N23-Jn0045942 | N23-Jn0045943 |
| Eurofins Sample No. | | | Jun 13, 2023 | Jun 13, 2023 | Jun 13, 2023 | Jun 13, 2023 |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.3 | 0.3 | 0.3 | < 0.1 |
| Soluble Solids | 0.1 | g/m2/mth | 2.7 | 1.3 | 4.8 | 3.8 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 4.8 | 2.2 | 6.6 | 4.2 |
| Volume (total)* | 0.1 | mL | 400 | 250 | 450 | 400 |
| Ash* | 0.1 | g/m2/mth | 1.9 | 0.6 | 1.5 | 0.3 |
| Insoluble Solids | 0.1 | g/m2/mth | 2.2 | 0.9 | 1.8 | 0.4 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Jun 21, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
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Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
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1/21 Smallwood Place
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Tel: +61 7 3902 4600
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Site# 25079 & 25289

Perth
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

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Tel: +64 3 343 5201
IANZ# 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 1000723
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Jun 20, 2023 2:18 PM
Due: Jun 29, 2023
Priority: 7 Day
Contact Name: Rachel Condon

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045940 | X |
| 2 | D2 TEMPORARY | Jun 13, 2023 | | Dust Deposition | N23-Jn0045941 | X |
| 3 | D3 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045942 | X |
| 4 | D4 | Jun 13, 2023 | | Dust Deposition | N23-Jn0045943 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPa, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Adam Bateup Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ASN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Montlerey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------------------|--|---|---|------------------------|--------------------|--|------------------------|------------------|---------|--|-----------------------|-----------------|--|--------------------|---|--|--|--|
| Company | | Ramboll | | Project No | 318001562 | | | Project Manager | Rachel Condon | | | Sampler(s) | Matilda Englert | | | | | | |
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | Bago Forest Quarry | | | EDD Format | ESdat, EQUIS etc | | | Handed over by | Matilda Englert | | | | | | |
| Contact Name | | Matilda Englert | | Analyses Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing. | Dust Deposition | | | | | | | | | | | Email for Invoice | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | |
| Phone No | | 0473 014 006 | | | | | | | | | | | | | | Email for Results | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | | | 500mL Plastic | | <input type="checkbox"/> Overnight (reporting by 9am) <small>↕ Surcharge will apply</small> <input type="checkbox"/> Same day <small>↕</small> <input type="checkbox"/> 1 day <small>↕</small> <input type="checkbox"/> 2 days <small>↕</small> <input type="checkbox"/> 3 days <small>↕</small> <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |
| Quote ID No | | 200316RAMN | | | | | | | | | | | | | | 250mL Plastic | | | |
| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | 125mL Plastic | | Sample Comments / Dangerous Goods Hazard Warning | | | |
| | | | | | | | | | | | | | | 200mL Amber Glass | | | | | |
| 1 | D1 | 13/06/23-13/07/23 | S | X | | | | | | | | | | 40mL VOA vial | | | | | |
| 2 | D2 Temporary | 13/06/23-13/07/23 | S | X | | | | | | | | | | 500mL PFAS Bottle | | | | | |
| 3 | D3 | 13/06/23-13/07/23 | S | X | | | | | | | | | | Jar (Glass or HDPE) | | | | | |
| 4 | D4 | 13/06/23-13/07/23 | S | X | | | | | | | | | | Other (Asbestos AS4864, WA Guidelines) | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | 4 | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name | Matilda Englert | | | Signature | | | | Date | 13/07/23 | | Time | | | | |
| Laboratory Use Only | | Received By | <i>Leidyn Stinson</i> | SYD BNE MEL PER ADL NTL DRW | Signature | <i>[Signature]</i> | | | Date | 13/7/23 | | Time | 3:00 | | Temperature | N/A | | | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | Date | 13/7/23 | | Time | | | Report No | 1007740 | | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| | | | | | |
|---|--|--|--|---|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |
|---|--|--|--|---|--|

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| |
|---|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|---|

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| | |
|--|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 |
|--|---|

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Rachel Condon |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Jul 13, 2023 3:00 PM |
| Eurofins reference | 1007790 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rachel Condon - rcondon@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 1007790
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Jul 13, 2023 3:00 PM
Due: Jul 20, 2023
Priority: 5 Day
Contact Name: Rachel Condon

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jul 13, 2023 | | Dust Deposition | N23-JI0027973 | X |
| 2 | D2 TEMPORARY | Jul 13, 2023 | | Dust Deposition | N23-JI0027974 | X |
| 3 | D3 | Jul 13, 2023 | | Dust Deposition | N23-JI0027975 | X |
| 4 | D4 | Jul 13, 2023 | | Dust Deposition | N23-JI0027976 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Rachel Condon

Report 1007790-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Jul 13, 2023

| Client Sample ID | | | D1 Dust Deposition | D2 TEMPORARY Dust Deposition | D3 Dust Deposition | D4 Dust Deposition |
|--|-----|----------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| Sample Matrix | | | N23-JI0027973 | N23-JI0027974 | N23-JI0027975 | N23-JI0027976 |
| Eurofins Sample No. | | | Jul 13, 2023 | Jul 13, 2023 | Jul 13, 2023 | Jul 13, 2023 |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.2 | 2.5 | 0.2 | 0.4 |
| Soluble Solids | 0.1 | g/m2/mth | < 0.1 | 0.2 | < 0.1 | < 0.1 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 1.4 | 23 | 0.6 | 0.7 |
| Volume (total)* | 0.1 | mL | 300 | 300 | 250 | 250 |
| Ash* | 0.1 | g/m2/mth | 1.2 | 20 | 0.3 | 0.3 |
| Insoluble Solids | 0.1 | g/m2/mth | 1.4 | 23 | 0.6 | 0.7 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Jul 14, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

Company Name: Ramboll Australia Pty Ltd
Address: Level 3/100 Pacific Highway
North Sydney
NSW 2060

Project Name: BAGO FOREST QUARRY
Project ID: 318001562

Order No.:
Report #: 1007790
Phone: 02 9954 8118
Fax: 02 9954 8150

Received: Jul 13, 2023 3:00 PM
Due: Jul 20, 2023
Priority: 5 Day
Contact Name: Rachel Condon

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|--|--------------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Jul 13, 2023 | | Dust Deposition | N23-JI0027973 | X |
| 2 | D2 TEMPORARY | Jul 13, 2023 | | Dust Deposition | N23-JI0027974 | X |
| 3 | D3 | Jul 13, 2023 | | Dust Deposition | N23-JI0027975 | X |
| 4 | D4 | Jul 13, 2023 | | Dust Deposition | N23-JI0027976 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Dilani Samarakoon Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Muramba QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

| Company | | Ramboll | | Project No | | 318001562 | | Project Manager | | Rachel Condon | | Sampler(s) | | Matilda Englert | | | | | | | |
|---------------------|------------------|---|----------------|--|---|--------------------|--|-----------------|--|-----------------|--|----------------|--|-------------------|--|---|--|--------------------------------|--|---|--|
| Address | | 50 Glebe Road, The Junction NSW 2291 | | Project Name | | Bago Forest Quarry | | EDD Format | | ESdat, EQuS etc | | Handed over by | | Matilda Englert | | | | | | | |
| Contact Name | | Matilda Englert | | Analyses Where initials are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing. | | Dust Deposition | | | | | | | | Email for Invoice | | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | | | | |
| Phone No | | 0473 014 006 | | | | | | | | | | | | Email for Results | | rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com | | | | | |
| Special Directions | | Page 1 of 1 | | | | | | | | | | | | Containers | | Change container type & size if necessary. | | Required Turnaround Time (TAT) | | Default will be 5 days if not ticked. | |
| Purchase Order | | | | | | | | | | | | | | 500mL Plastic | | | | *Surcharge will apply | | <input type="checkbox"/> Overnight (reporting by 9am) ♦ <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other() | |
| Quote ID No | | 200316RAMN | | Matrix | | | | | | | | | | Sample Comments | | / Dangerous Goods Hazard Warning | | | | | |
| No | Client Sample ID | Sampled Date/Time | dd/mm/yy hh:mm | Solid (S) Water (W) | | | | | | | | | | | | | | | | | |
| 1 | D1 | 13/07/23-10/08/23 | | S | X | | | | | | | | | | | | | | | | |
| 2 | D2 | 13/07/23-10/08/23 | | S | X | | | | | | | | | | | | | | | | |
| 3 | D3 | 13/07/23-10/08/23 | | S | X | | | | | | | | | | | | | | | | |
| 4 | D4 | 13/07/23-10/08/23 | | S | X | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| Total Counts | | | | | 4 | | | | | | | | | | | | | | | | |
| Method of Shipment | | <input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | Name | | Matilda Englert | | Signature | | | | Date | | 10/08/23 | | Time | | | | | |
| Laboratory Use Only | | Received By | | Jessika SYD BNE MEL PER ADL NTL DRW | | Signature | | Date 11/8 | | Date | | Time | | Temperature | | NA | | | | | |
| | | Received By | | SYD BNE MEL PER ADL NTL DRW | | Signature | | Date | | Time | | Report No | | | | | | | | | |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|--|---|--|--|---|--|
| 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| Perth |
|--|
| 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland | Christchurch | Tauranga |
|---|--|--|
| 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 | 1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402 |

Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Rachel Condon |
| Project name: | BAGO FOREST QUARRY |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Aug 11, 2023 8:30 AM |
| Eurofins reference | 1015939 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rachel Condon - rcondon@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



| | | | | | |
|--|---|---|---|--|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |
|--|---|---|---|--|--|

| |
|--|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|--|

| | | |
|--|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 | Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402 |
|--|---|---|

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

| | | |
|---|----------------------------|---------------------------------------|
| Company Name: Ramboll Australia Pty Ltd | Order No.: | Received: Aug 11, 2023 8:30 AM |
| Address: Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: 1015939 | Due: Aug 18, 2023 |
| | Phone: 02 9954 8118 | Priority: 5 Day |
| | Fax: 02 9954 8150 | Contact Name: Rachel Condon |
| Project Name: BAGO FOREST QUARRY | | |
| Project ID: 318001562 | | |

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | Dust Deposition |
|---|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Aug 10, 2023 | | Dust Deposition | N23-Au0028612 | X |
| 2 | D2 | Aug 10, 2023 | | Dust Deposition | N23-Au0028613 | X |
| 3 | D3 | Aug 10, 2023 | | Dust Deposition | N23-Au0028614 | X |
| 4 | D4 | Aug 10, 2023 | | Dust Deposition | N23-Au0028615 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Rachel Condon

Report 1015939-A
 Project name BAGO FOREST QUARRY
 Project ID 318001562
 Received Date Aug 11, 2023

| Client Sample ID | | | D1 Dust Deposition N23- Au0028612 Aug 10, 2023 | D2 Dust Deposition N23- Au0028613 Aug 10, 2023 | D3 Dust Deposition N23- Au0028614 Aug 10, 2023 | D4 Dust Deposition N23- Au0028615 Aug 10, 2023 |
|--|-----|----------|---|---|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.3 | 0.9 | 0.2 | 0.2 |
| Soluble Solids | 0.1 | g/m2/mth | 1.8 | 3.2 | 2.8 | 3.7 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 3.3 | 7.9 | 3.6 | 4.2 |
| Volume (total)* | 0.1 | mL | 250 | 750 | 300 | 300 |
| Ash* | 0.1 | g/m2/mth | 1.2 | 3.8 | 0.6 | 0.3 |
| Insoluble Solids | 0.1 | g/m2/mth | 1.5 | 4.6 | 0.8 | 0.4 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Aug 11, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

| | | | | | |
|--|---|---|---|--|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |
|--|---|---|---|--|--|

| |
|--|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|--|

| | | |
|--|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 | Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402 |
|--|---|---|

| | | |
|---|--|---------------------------------------|
| Company Name: Ramboll Australia Pty Ltd | Order No.: | Received: Aug 11, 2023 8:30 AM |
| Address: Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: 1015939 | Due: Aug 18, 2023 |
| | Phone: 02 9954 8118 | Priority: 5 Day |
| | Fax: 02 9954 8150 | Contact Name: Rachel Condon |
| Project Name: BAGO FOREST QUARRY | Eurofins Analytical Services Manager : Andrew Black | |
| Project ID: 318001562 | | |

| Sample Detail | | | | | | Dust Deposition |
|---|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Aug 10, 2023 | | Dust Deposition | N23-Au0028612 | X |
| 2 | D2 | Aug 10, 2023 | | Dust Deposition | N23-Au0028613 | X |
| 3 | D3 | Aug 10, 2023 | | Dust Deposition | N23-Au0028614 | X |
| 4 | D4 | Aug 10, 2023 | | Dust Deposition | N23-Au0028615 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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ABN: 50 005 085 521

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|--|---|--|--|---|--|
| 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |

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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Rachel Condon |
| Project name: | Bago Forest Quarry |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Sep 13, 2023 1:30 PM |
| Eurofins reference | 1025598 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rachel Condon - rcondon@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



web: www.eurofins.com.au
email: EnviroSales@eurofins.com

| | | | | | |
|--|---|---|---|--|--|
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|--|---|---|---|--|--|

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|--|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|--|

| | | |
|--|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 | Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402 |
|--|---|---|

| | | |
|---|--|---------------------------------------|
| Company Name: Ramboll Australia Pty Ltd | Order No.: | Received: Sep 13, 2023 1:30 PM |
| Address: Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: 1025598 | Due: Sep 20, 2023 |
| | Phone: 02 9954 8118 | Priority: 5 Day |
| | Fax: 02 9954 8150 | Contact Name: Rachel Condon |
| Project Name: Bago Forest Quarry | Eurofins Analytical Services Manager : Andrew Black | |
| Project ID: 318001562 | | |

| Sample Detail | | | | | | Dust Deposition |
|--|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Sep 12, 2023 | | Dust Deposition | N23-Se0028611 | X |
| 2 | D2 | Sep 12, 2023 | | Dust Deposition | N23-Se0028612 | X |
| 3 | D3 | Sep 12, 2023 | | Dust Deposition | N23-Se0028613 | X |
| 4 | D4 | Sep 12, 2023 | | Dust Deposition | N23-Se0028614 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Rachel Condon

Report 1025598-A
 Project name Bago Forest Quarry
 Project ID 318001562
 Received Date Sep 13, 2023

| Client Sample ID | | | D1 Dust Deposition N23- Se0028611 Sep 12, 2023 | D2 Dust Deposition N23- Se0028612 Sep 12, 2023 | D3 Dust Deposition N23- Se0028613 Sep 12, 2023 | D4 Dust Deposition N23- Se0028614 Sep 12, 2023 |
|--|-----|----------|---|---|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.3 | 0.4 | 0.2 | 0.2 |
| Soluble Solids | 0.1 | g/m2/mth | 1.1 | 1.7 | 2.9 | 2.0 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 2.7 | 2.5 | 3.6 | 2.3 |
| Volume (total)* | 0.1 | mL | 200 | 200 | 250 | 200 |
| Ash* | 0.1 | g/m2/mth | 1.4 | 0.3 | 0.5 | 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 1.6 | 0.7 | 0.6 | 0.3 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Sep 13, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

| | | | | | |
|--|---|---|---|--|--|
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| | | |
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|--|---|---|

| | | | | | |
|--|---|-------------------|--------------|----------------------|----------------------|
| Company Name: | Ramboll Australia Pty Ltd | Order No.: | | Received: | Sep 13, 2023 1:30 PM |
| Address: | Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: | 1025598 | Due: | Sep 20, 2023 |
| Project Name: | Bago Forest Quarry | Phone: | 02 9954 8118 | Priority: | 5 Day |
| Project ID: | 318001562 | Fax: | 02 9954 8150 | Contact Name: | Rachel Condon |
| Eurofins Analytical Services Manager : Andrew Black | | | | | |

| Sample Detail | | | | | | Dust Deposition |
|---|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Sep 12, 2023 | | Dust Deposition | N23-Se0028611 | X |
| 2 | D2 | Sep 12, 2023 | | Dust Deposition | N23-Se0028612 | X |
| 3 | D3 | Sep 12, 2023 | | Dust Deposition | N23-Se0028613 | X |
| 4 | D4 | Sep 12, 2023 | | Dust Deposition | N23-Se0028614 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPa, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Dilani Samarakoon Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sydney Laboratory
Unit F3 Bid.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company: Ramboll
Address: 50 Glebe Road, The Junction NSW 2291
Contact Name: Matilda Englert
Phone No: 0473 014 006
Special Directions: Page 1 of 1
Purchase Order:
Quote ID No: 200316RAMN

Project No: 318001562
Project Name: Bago Forest Quarry
Project Manager: Rachel Condon
EDD Format: ESDM, EQUIS etc

Sampler(s): Matilda Englert
Handed over by: Matilda Englert
Email for Invoice: rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com
Email for Results: rcondon@ramboll.com; jbourke@ramboll.com; menglert@ramboll.com

Analyses
Where metals are requested, please specify "Total" or "Filtered"
SUTTE code must be used to attract SUTTE pricing.

| No | Client Sample ID | Sampled Date/Time dd/mm/yy hh:mm | Matrix Solid (S) Water (W) | Dust Deposition |
|---------------------|------------------|-------------------------------------|----------------------------------|-----------------|
| 1 | D1 | 12/09/23-13/10/23 | S | X |
| 2 | D2 | 12/09/23-13/10/23 | S | X |
| 3 | D3 | 12/09/23-13/10/23 | S | X |
| 4 | D4 | 12/09/23-13/10/23 | S | X |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| Total Counts | | | | 4 |

Containers
Change container type & size if necessary.

| | | | | | | | |
|---------------|---------------|---------------|-------------------|---------------|-------------------|---------------------|--|
| 500mL Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | 40mL VOA vial | 500mL PFAS Bottle | Jar (Glass or HDPE) | Other (Asbestos AS4694, WA Guidelines) |
|---------------|---------------|---------------|-------------------|---------------|-------------------|---------------------|--|

Required Turnaround Time (TAT)
Default will be 5 days if not ticked.

◆ Surcharge will apply

Overnight (reporting by 9am)◆
 Same day ◆ 1 day ◆
 2 days ◆ 3
 5 days (Standard)
 Other()

Sample Comments
/ Dangerous Goods Hazard Warning

Method of Shipment: Courier (#) Hand Delivered Postal

Name: Matilda Englert **Signature:** [Signature] **Date:** 13/10/23 **Time:** 12:30

Laboratory Use Only

| | | | | | |
|-------------|---|-----------|-------|-------|-------------|
| Received By | SYD BNE MEL PER ADL NTL DRW | Signature | Date | Time | Temperature |
| [Signature] | | | 13-10 | 12:30 | N/A |
| Received By | SYD BNE MEL PER ADL NTL DRW | Signature | Date | Time | Report No |
| | | | | | 1034783 |

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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| Perth |
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NZBN: 9429046024954

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|---|--|--|
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Sample Receipt Advice

| | |
|---------------------------|---------------------------|
| Company name: | Ramboll Australia Pty Ltd |
| Contact name: | Rachel Condon |
| Project name: | Bago Forest Quarry |
| Project ID: | 318001562 |
| Turnaround time: | 5 Day |
| Date/Time received | Oct 13, 2023 12:30 PM |
| Eurofins reference | 1034788 |

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rachel Condon - rcondon@ramboll.com.

Note: A copy of these results will also be delivered to the general Ramboll Australia Pty Ltd email address.



web: www.eurofins.com.au
email: EnviroSales@eurofins.com

| | | | | | |
|--|---|---|---|--|--|
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|--|---|---|---|--|--|

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|--|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|--|

| | | |
|---|---|---|
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|---|---|---|

| | | |
|---|--|--|
| Company Name: Ramboll Australia Pty Ltd | Order No.: | Received: Oct 13, 2023 12:30 PM |
| Address: Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: 1034788 | Due: Oct 20, 2023 |
| | Phone: 02 9954 8118 | Priority: 5 Day |
| | Fax: 02 9954 8150 | Contact Name: Rachel Condon |
| Project Name: Bago Forest Quarry | Eurofins Analytical Services Manager : Andrew Black | |
| Project ID: 318001562 | | |

| Sample Detail | | | | | | Dust Deposition |
|---|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031671 | X |
| 2 | D2 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031672 | X |
| 3 | D3 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031673 | X |
| 4 | D4 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031674 | X |
| Test Counts | | | | | | 4 |

Ramboll Australia Pty Ltd
 Level 3/100 Pacific Highway
 North Sydney
 NSW 2060



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Rachel Condon

Report 1034788-A
 Project name Bago Forest Quarry
 Project ID 318001562
 Received Date Oct 13, 2023

| Client Sample ID | | | D1 Dust Deposition N23- Oc0031671 Oct 13, 2023 | D2 Dust Deposition N23- Oc0031672 Oct 13, 2023 | D3 Dust Deposition N23- Oc0031673 Oct 13, 2023 | D4 Dust Deposition N23- Oc0031674 Oct 13, 2023 |
|--|-----|----------|---|---|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Dust Deposition | | | | | | |
| Combustible Solids | 0.1 | g/m2/mth | 0.3 | 1.4 | 0.4 | 0.4 |
| Soluble Solids | 0.1 | g/m2/mth | 2.1 | 3.9 | 2.5 | 3.2 |
| Total Solids Dried at 103 °C to 105 °C | 0.1 | g/m2/mth | 4.3 | 7.0 | 4.1 | 3.8 |
| Volume (total)* | 0.1 | mL | 200 | 260 | 280 | 200 |
| Ash* | 0.1 | g/m2/mth | 2.0 | 1.7 | 1.2 | 0.1 |
| Insoluble Solids | 0.1 | g/m2/mth | 2.2 | 3.1 | 1.6 | 0.6 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Dust Deposition

Testing Site

Sydney

Extracted

Oct 16, 2023

Holding Time

5 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air

| | | | | | |
|--|---|---|---|--|--|
| Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403 | Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289 |
|--|---|---|---|--|--|

| |
|--|
| Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 |
|--|

| | | |
|--|---|---|
| Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290 | Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402 |
|--|---|---|

| | | |
|---|--|--|
| Company Name: Ramboll Australia Pty Ltd | Order No.: | Received: Oct 13, 2023 12:30 PM |
| Address: Level 3/100 Pacific Highway North Sydney NSW 2060 | Report #: 1034788 | Due: Oct 20, 2023 |
| | Phone: 02 9954 8118 | Priority: 5 Day |
| | Fax: 02 9954 8150 | Contact Name: Rachel Condon |
| Project Name: Bago Forest Quarry | Eurofins Analytical Services Manager : Andrew Black | |
| Project ID: 318001562 | | |

| Sample Detail | | | | | | Dust Deposition |
|---|-----------|--------------|---------------|-----------------|---------------|-----------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | D1 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031671 | X |
| 2 | D2 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031672 | X |
| 3 | D3 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031673 | X |
| 4 | D4 | Oct 13, 2023 | | Dust Deposition | N23-Oc0031674 | X |
| Test Counts | | | | | | 4 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

| | | |
|--|---|--|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| CFU: Colony forming unit | | |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPa, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments**Sample Integrity**

| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Authorised by:

Andrew Black Analytical Services Manager
Ryan Phillips Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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