

Technical Ammonium Nitrate Plant

Yara Pilbara Nitrates Pty Ltd

Ambient Air Quality Monitoring Report 2025-2026

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We acknowledge the Traditional Custodians of Country throughout Australia and their connection to land, sea and community.

We pay our respect to Elders past, present and emerging and in the spirit of reconciliation we commit to working together for our shared future where every person is respected, valued and has strong sense of belonging.

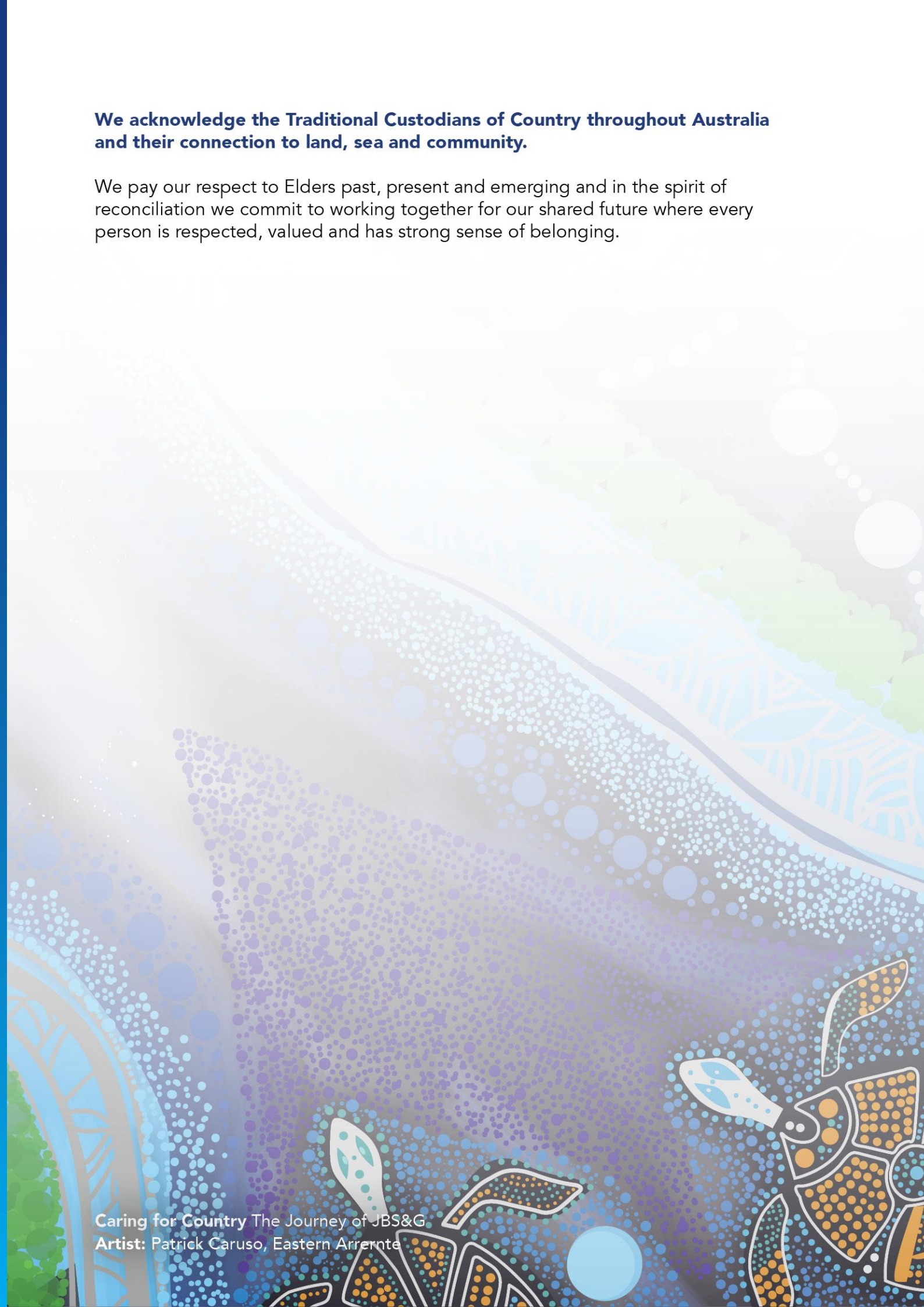


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Appendices

Appendix A	Results from Monitoring of Gases
Appendix B	Results from Monitoring of TSP

Abbreviations

Term	Definition	Description and context for this report
µm	Micrometre	One millionth (0.000001) of a metre
CSIRO	The Commonwealth Scientific and Industrial Research Organisation	The Commonwealth Scientific and Industrial Research Organisation is an independent Australian federal government agency responsible for scientific research.
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Refers to the Australian Government EPBC Act approval framework relevant to the TAN Plant approval.
HNO ₃	Nitric acid	Gaseous acidic pollutant monitored by YPN to allow comparison of current dry deposition rates with previous CSIRO and ongoing monitoring datasets.
Insoluble fraction	Component of deposited dust that is not soluble in water	Deposited dust can comprise aqueous soluble and insoluble materials depending on mechanisms and sources of dust emissions. The insoluble fraction is typically derived from crustal materials.
MAC	Murujuga Aboriginal Corporation	A non-profit organization based on the Burrup Peninsula in the Pilbara region of Western Australia, representing five traditional custodial groups: the Ngarluma, Yaburara, Mardudhunera, Yindjibarndi, and Wong-Goo-Tt-Oo peoples.
meq/m ² /year	Milliequivalents per square metre per year	Unit used express annual dry deposition rates normalised to area and time.
MicroVol	MicroVol 1100 low volume sampler	Low volume air sampling instrument for sampling of TSP, manufactured by Ecotech
NH ₃	Ammonia	Gaseous air pollutant from natural sources and industrial sources, including the TAN Plant.
NO ₂	Nitrogen dioxide	Gaseous air pollutant from combustion sources
OEMP	Operational Environmental Management Plan	Management plan prepared by YPN in accordance with Condition 7 of the EPBC Approval, as varied 24 March 2020.
Passive sampling	Ambient air sampling for gaseous substances involving passive samplers	Sampling technique whereby airborne gaseous pollutants are extracted from the air column onto an adsorbent material via a diffusive mechanism.
PM	Particulate matter	General term for solid or liquid particles suspended in air, used in this report in relation to particulate monitoring and PM ₁₀ .
PM ₁₀	Particulate matter with an aerodynamic diameter less than 10 micrometres	Dust particles present in ambient air with an equivalent aerodynamic diameter of less than 10 micrometres (µm).
Radiello® passive sampler	Sampler for gaseous substances in ambient air	Sampling devices manufactured by Sigma Aldrich under licence from Fondazione Salvatore Maugeri IRCCS for passively monitoring airborne concentrations of gases.
SO ₂	Sulfur dioxide	Gaseous air pollutant from oxidation or combustion of sulfur-containing substances.
Soluble fraction	Component of deposited dust that is soluble in water	Deposited dust can comprise aqueous soluble and insoluble materials depending on mechanisms and sources of dust emissions. The soluble fraction is typically derived from marine aerosols.
TAN Plant	Technical Ammonium Nitrate Plant	YPN plant on Murujuga for production of ammonium nitrate.
TSP	Total suspended particulates	Dust particles present in ambient air with an equivalent aerodynamic diameter of up to 50 micrometres (µm).
YPN	Yara Pilbara Nitrates Pty Ltd	The operator of the TAN Plant.

1. Introduction

Yara Pilbara Nitrates Pty Ltd (YPN) holds approval (no. 2008/4546) under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) for its Technical Ammonium Nitrate (TAN) Plant located on Murujuga (Burrup Peninsula), near Karratha in Western Australia.

Conditions 9 and 9A of the approval require monitoring of various air quality parameters. Condition 3 of the approval outlines reporting requirements, including an analysis of monitoring data from the monitoring program carried out under condition 9A. This report is provided in response to Condition 3(a) of the approval for the monitoring period 1 July 2025 to 30 June 2026.

2. Scope of Monitoring Program

To protect the values of the Murujuga Cultural Landscape, including petroglyphs on the Dampier Archipelago and Burrup Peninsula, Condition 9 of the EPBC Act approval required Baseline Air Quality Monitoring to be carried out for a period of not less than 24 months from the commencement of construction of the TAN Plant.

YPN issued a report to the then Commonwealth Department of the Environment and Energy on 16 June 2017 on completion of the Baseline Air Quality Monitoring (YPN 2017).

Condition 9A of the approval specifies the scope of the Ongoing Air Quality Monitoring for the TAN Plant and is reproduced below (Figure 1).

- 9A. *To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites, the person taking the action must ensure:*
- Ongoing air quality monitoring is undertaken within 30 days after this condition comes into effect (the date the relevant variation to conditions notice is signed) and until expiry of the approval.*
 - Air quality monitoring parameters are monitored at the rock art sites: Site 5 (Burrup Road), Site 6 (Water tanks site) and Site 7 (Hearson Cove Road site) as shown in Attachment 2.*
 - Monitoring of air quality at rock art sites is undertaken by a suitably qualified person (Air Quality).*
- The air quality monitoring parameters in the table below must be monitored at the frequencies indicated in the table below:*

<i>Element of air quality to be monitored</i>	<i>Specific air quality parameter to be sampled</i>	<i>Minimum frequency of monitoring</i>
<i>Ambient air concentration of gases</i>	<i>NH₃ (ammonia)</i>	<i>Continuous monitoring for at least 14 consecutive days, every month</i>
	<i>NO₂ (nitrogen oxide)</i>	
	<i>SO₂ (sulfur oxide)</i>	
<i>Airborne particulate concentration</i>	<i>Total suspended particulates up to 50 µm (TSP)</i>	<i>Every 6 days</i>
<i>Deposited dust</i>	<i>Total dust deposition per month (insoluble fraction)</i>	<i>Quarterly</i>
	<i>Total dust deposition per month (soluble Fraction)</i>	

Figure 1: Condition 9A of EPBC Act Approval 2008/4546 (as varied 24 March 2020)

Condition 3(a)i of the EPBC Act approval requires (in part) publication of a report that includes “...an analysis of monitoring data required under Condition 9A...”.

On 24 March 2020, approval was granted to relocate Site 7 (Deep Gorge) of the Ongoing Air Quality Monitoring program to accommodate the development of a boardwalk by Murujuga Aboriginal Corporation (MAC) at Nganjarli (formerly known as Deep Gorge). Consequently, Site 7 was relocated to Hearson Cove on 8 April 2020. This site was referenced as 'Deep Gorge' in reports prior to 2021. However, as the site is now closer to Hearson Cove, it is referred to as 'Hearson Cove' in reports post 2021, including in graphs where data prior to April 2020 is from monitoring undertaken at the Deep Gorge site.

Note that earlier studies carried out by the CSIRO included monitoring of gaseous nitric acid (HNO_3). The EPBC Act approval does not require monitoring of this substance. However, as described in the Operational Environmental Management Plan (OEMP) for the TAN Plant prepared by YPN under the EPBC Act approval, YPN has continued monitoring of HNO_3 after the CSIRO studies concluded. This allows for direct comparison of current deposition rates with the rates determined since 2003.

The following monitoring reports have been published as required by the EPBC Act approval:

- October 2018 for the period 2017-2018 (Strategen 2018);
- October 2019 for the period 2018-2019 (Strategen-JBS&G 2019);
- October 2020 for the period 2019-2020 (Strategen-JBS&G 2020);
- October 2021 for the period 2020-2021 (Strategen-JBS&G 2021);
- October 2022 for the period 2021-2022 (Strategen-JBS&G 2022);
- October 2023 for the period 2022-2023 (JBS&G 2023);
- October 2024 for the period 2023-2024 (JBS&G 2024); and
- October 2025 for the period 2024-2025 (JBS&G 2025).

This report presents an analysis of monitoring data obtained for the monitoring period 1 July 2025 to 30 June 2026 (referred to herein as the 2025-2026 monitoring period).

3. TAN Plant Operation

The TAN Plant (including the Nitric Acid Plant, Ammonium Nitrate Solution Plant and Prill Plant) was in operation for the following dates during the 2025-2026 monitoring period:

- 01/07/2025 – 19/07/2025;
- 29/07/2025 – 08/09/2025;
- 10/09/2025 – 21/11/2025;
- 22/11/2025 – 13/12/2025;
- 14/12/2025 – 10/03/2026;
- 13/03/2026 – 18/03/2026;
- 22/03/2026 – 31/03/2026;
- 03/04/2026 – 25/04/2026;
- 26/05/2026 – 01/06/2026;
- 03/06/2026 – 25/06/2026; and
- 27/06/2026 – 30/06/2026.

4. Air Quality Monitoring Program

4.1 Gases

4.1.1 Results of Monitoring

Monitoring of ammonia (NH_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2) and nitric acid (HNO_3) gases was carried out continuously using Radiello passive sampling throughout the 2025-2026 monitoring period at the three specified monitoring sites: Site 5 Burrup Road, Site 6 Water Tanks and Site 7 Hearson Cove.

A total of 24 fortnightly measurements were made of NH_3 , NO_2 , SO_2 and HNO_3 concentrations at each monitoring site during the 2025-2026 monitoring period. Sampling commenced on 1 July 2025, when samplers deployed for the previous fortnightly sampling period were replaced, and sampling concluded on 30 June 2026.

Tabulated results of the monitoring are shown in Appendix A. The concentrations for each parameter, with data points plotted at the end of the exposure period at the respective sites, are illustrated in Figure 2 for NH_3 , Figure 3 for NO_2 , Figure 4 for SO_2 and Figure 5 for HNO_3 .

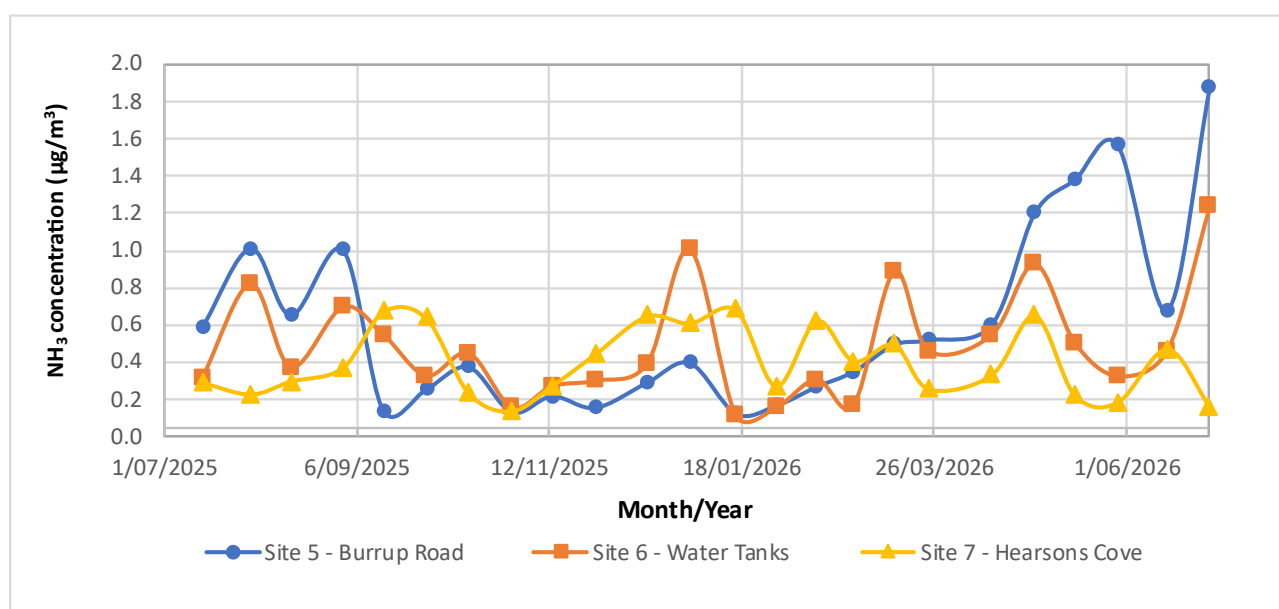
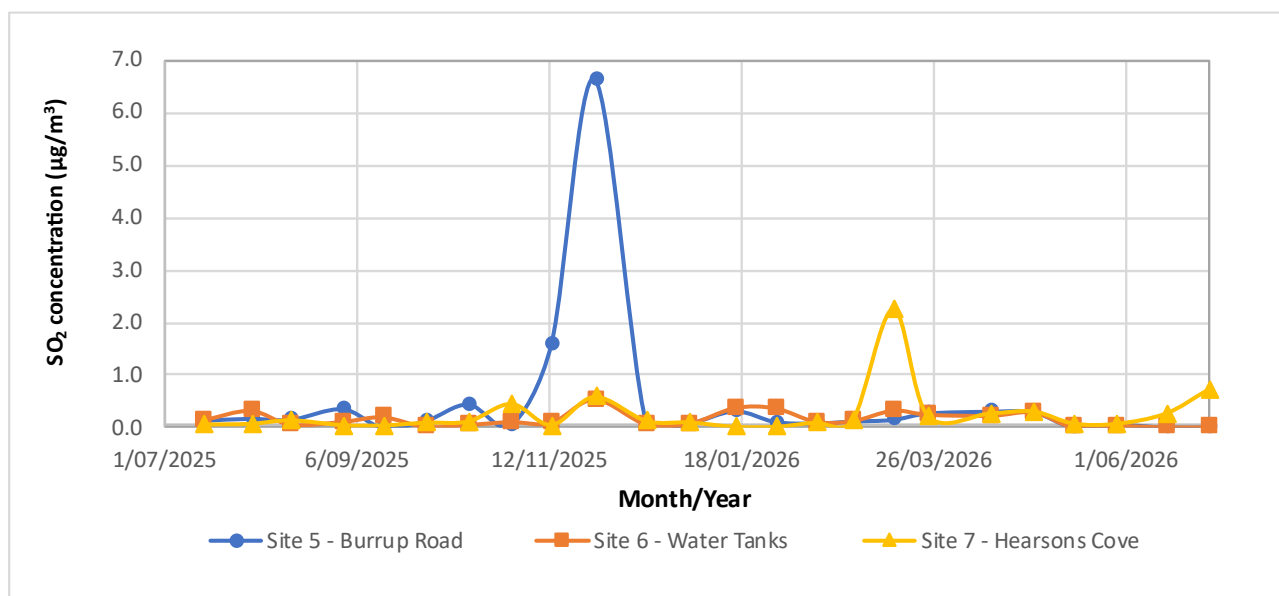
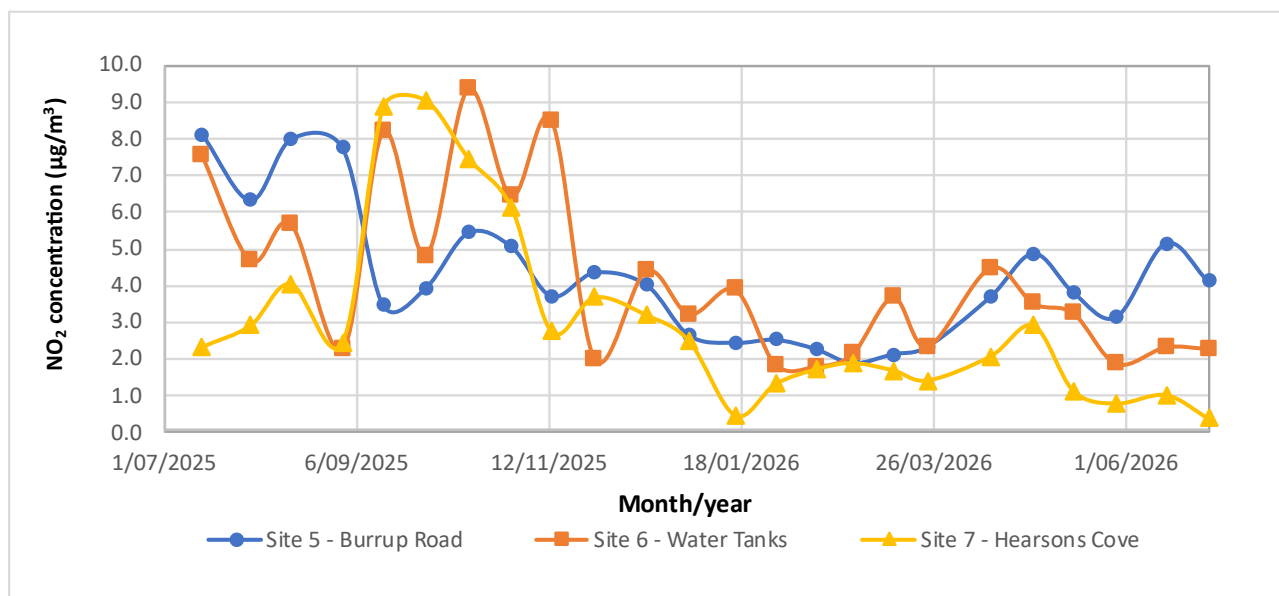


Figure 2: Measured NH_3 concentrations for 1 July 2025 to 30 June 2026



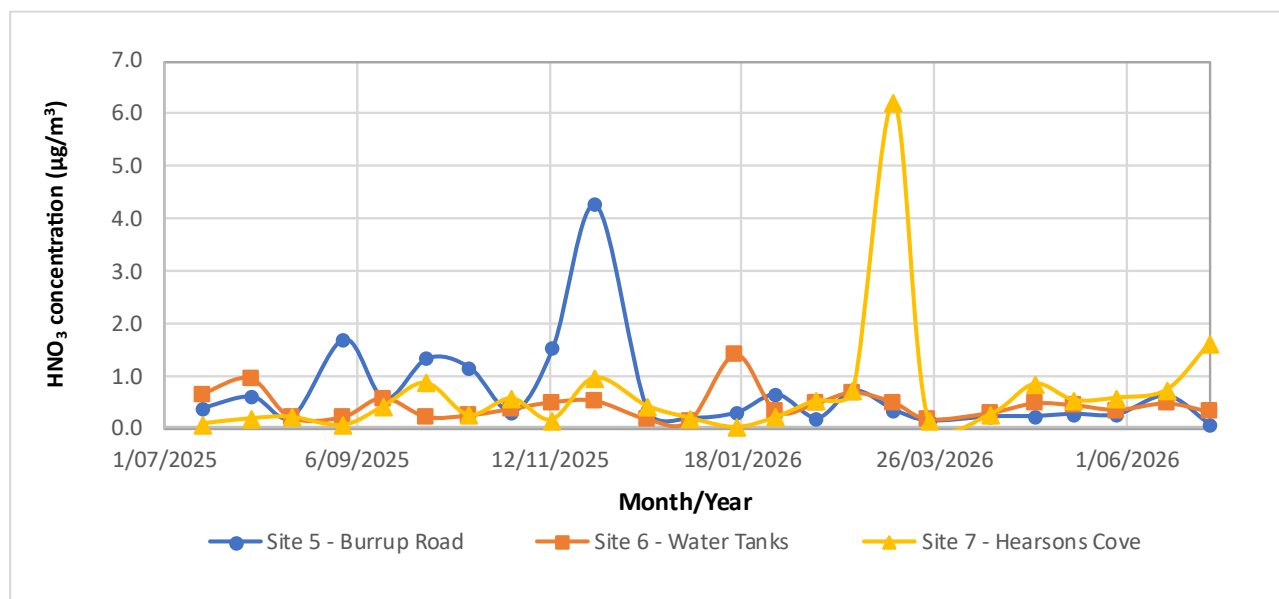


Figure 5: Measured HNO₃ concentrations for 1 July 2025 to 30 June 2026

4.1.2 Analysis of Data

Analysis of measured concentrations involves a comparison of descriptive statistics for the 2025-2026 monitoring period with those from monitoring carried out in the Baseline Air Quality Monitoring (YPN 2017). These statistics are shown in Table 1 for concentrations of NH₃, Table 2 for NO₂, Table 3 for SO₂ and Table 4 for HNO₃. Concentrations are calculated for the actual duration of exposure of the samplers, which were nominally 15-days but can vary a day on either side of that duration for logistical reasons.

Table 1: Descriptive statistics for NH₃ concentrations (2025-2026 and baseline)

Ammonia concentration µg/m ³						
Statistic	Site 5 Burrup Road		Site 6 Water Tanks		Site 7 Hearson Cove	
	2025-2026	Baseline	2025-2026	Baseline	2025-2026	Baseline
Minimum	0.12	0	0.11	0	0.13	0
Average	0.60	0.44	0.49	0.93	0.40	0.75
Maximum	1.87	1.2	1.23	3.97	0.68	4.35
Standard deviation	0.49	0.34	0.30	0.76	0.19	0.82

Table 2: Descriptive statistics for NO₂ monitoring (2025-2026 and baseline)

Nitrogen dioxide concentration µg/m ³						
Statistic	Site 5 Burrup Road		Site 6 Water Tanks		Site 7 Hearson Cove	
	2025-2026	Baseline	2025-2026	Baseline	2025-2026	Baseline
Minimum	1.89	0.38	1.80	0.31	0.38	0.4
Average	4.23	3.6	4.20	2.56	3.01	2.31
Maximum	8.15	6.53	9.39	5.27	9.07	4.12
Standard deviation	1.85	1.46	2.32	1.04	2.47	0.69

Table 3: Descriptive statistics for SO₂ monitoring (2025-2026 and baseline)

Sulfur dioxide concentration µg/m ³						
Statistic	Site 5 Burrup Road		Site 6 Water Tanks		Site 7 Hearson Cove	
	2025-2026	Baseline	2025-2026	Baseline	2025-2026	Baseline
Minimum	0.00	0.07	0.01	0	0.00	0.13
Average	0.48	1.38	0.16	0.95	0.25	0.82
Maximum	6.65	3.09	0.52	3.5	2.27	2.01
Standard deviation	1.35	0.83	0.14	0.84	0.47	0.53

Table 4: Descriptive statistics for HNO₃ monitoring (2025-2026 and baseline)

Nitric acid concentration µg/m ³						
Statistic	Site 5 Burrup Road		Site 6 Water Tanks		Site 7 Hearson Cove	
	2025-2026	Baseline	2025-2026	Baseline	2025-2026	Baseline
Minimum	0.09	0.00	0.15	0.00	0.03	0.00
Average	0.70	0.58	0.46	0.54	0.71	0.48
Maximum	4.26	1.55	1.41	1.81	6.20	1.42
Standard deviation	0.88	0.45	0.28	0.48	1.23	0.37

The concentrations for each monitoring site from the 2025-2026 monitoring period have been compared with the baseline data via statistical analysis (t-test) to determine if differences in the average concentrations are statistically significant (determined by t-test P values <0.05). The results are summarised in Table 5 and key findings from these data are summarised in Table 6.

Table 5: T-test results for comparison of 2025-2026 and baseline NH₃, NO₂, SO₂ and HNO₃ concentrations

Parameter	Monitoring period	Statistic	Site 5 Burrup Road	Site 6 Water Tanks	Site 7 Hearson Cove
NH ₃	2025-2026	Average	0.601	0.488	0.398
	Baseline	Average	0.438	0.929	0.748
	-	P value	0.150	0.001	0.011
NO ₂	2025-2026	Average	4.227	4.196	3.007
	Baseline	Average	3.601	2.555	2.308
	-	P value	0.171	0.003	0.189
SO ₂	2025-2026	Average	0.484	0.158	0.252
	Baseline	Average	1.380	0.952	0.824
	-	P value	0.007	1.92E-08	3.39E-05
HNO ₃	2025-2026	Average	0.698	0.457	0.705
	Baseline	Average	0.582	0.541	0.480
	-	P value	0.556	0.383	0.388

(1) The shaded cells indicate statistically significant different concentrations from the baseline

Table 6: Analysis of NH₃, NO₂, SO₂ and HNO₃ concentration data

Parameter	Site	Finding
NH ₃	Burrup Road	The (higher) average NH ₃ concentration from 2025-2026 monitoring period compared with baseline monitoring is not statistically significant.
	Water Tanks	The (lower) average NH ₃ concentration from 2025-2026 monitoring period compared with baseline monitoring is statistically significant.
	Hearson Cove	The (lower) average NH ₃ concentration from 2025-2026 monitoring period compared with baseline monitoring is statistically significant.
NO ₂	Burrup Road	The (higher) average NO ₂ concentration from 2025-2026 monitoring period compared with baseline monitoring at this site is not statistically significant.
	Water Tanks	The (higher) average NO ₂ concentration from 2025-2026 monitoring period compared with baseline monitoring at this site is statistically significant.
	Hearson Cove	The (higher) average NO ₂ concentration from 2025-2026 monitoring period compared with baseline monitoring at this site is not statistically significant.
SO ₂	Burrup Road	The (lower) average SO ₂ concentrations from 2025-2026 monitoring period compared with baseline monitoring are statistically significant at all three monitoring sites.
	Water Tanks	
	Hearson Cove	
HNO ₃	Burrup Road	The (higher) average HNO ₃ concentrations from 2025-2026 monitoring period compared with baseline monitoring is not statistically significant.
	Water Tanks	The (lower) average HNO ₃ concentrations from 2025-2026 monitoring period compared with baseline monitoring is not statistically significant.
	Hearson Cove	The (higher) average HNO ₃ concentrations from 2025-2026 monitoring period compared with baseline monitoring is not statistically significant.

The average concentration of NH₃ detected at the Burrup Road site during the 2025-2026 monitoring period was determined not to be statistically significantly different from the baseline dataset. The average NH₃ concentrations measured at the Water Tanks and Hearson Cove sites were determined to be statistically significantly lower than the baseline.

The higher average concentration of NO₂ at the Water Tanks site was determined to be statistically significantly higher than the baseline. The higher average NO₂ concentrations measured at the Burrup Road and Hearson Cove sites were determined not to be significantly different to the baseline.

Continuing from previous monitoring periods, statistically significant decreases in the SO₂ concentrations recorded during the 2025-2026 monitoring period compared with the baseline study were determined for all three monitoring sites.

The differences in the HNO₃ concentrations recorded at all monitoring sites during the 2025-2026 monitoring period relative to the baseline study were determined not to be statistically significant.

4.1.3 Dry Deposition Rates – Gases

Annual (total) dry deposition rates were calculated from the gas sampling at the three monitoring sites for the duration of the baseline and ongoing monitoring program. Total annual deposition rates were calculated from the combined rates for NH₃, NO₂, SO₂ and HNO₃. The results for total annual dry deposition are illustrated in Figure 6.

Note that the monitoring periods shown are from the start of July to the end of June in the following year, except for the 2013-2014 monitoring period, which is reported from September 2013 to August 2014 and, therefore, overlaps with the 2014-2015 period to represent an entire 12-month period.

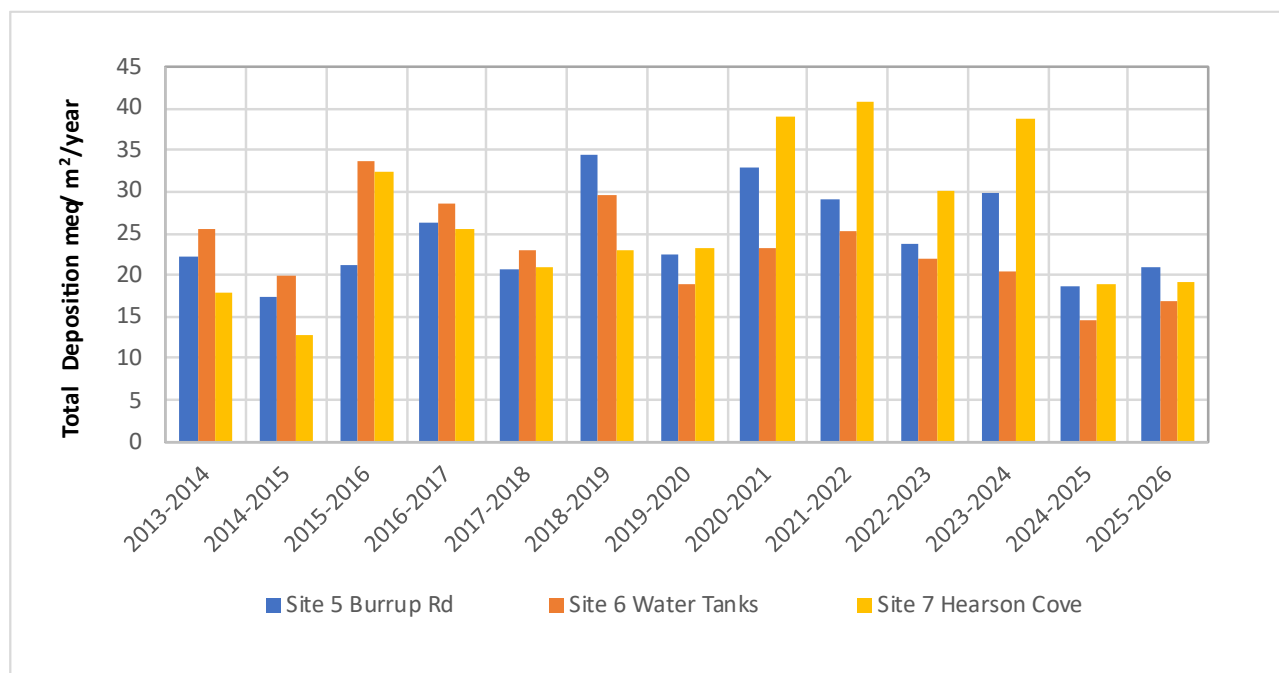


Figure 6: Annual deposition rates from measured gases

The results of the annual dry deposition monitoring are summarised in Table 7. Investigation levels were derived from the average of rolling monthly annual deposition rates from the baseline period plus three standard deviations (as described in the OEMP).

Table 7: Annual dry deposition rates

Monitoring period	Annual deposition rates (meq/m ² /year)		
	Site 5 Burrup Road	Site 6 Water Tanks	Site 7 Hearson Cove
2013-2014	22.1	25.6	17.9
2014-2015	17.3	19.8	12.9
2015-2016	21.3	33.6	32.4
2016-2017	26.3	28.5	25.6
2017-2018	20.7	23.0	21.0
2018-2019	34.5	29.7	23.0
2019-2020	22.4	19.0	23.2
2020-2021	32.9	23.3	39.1
2021-2022	29.1	25.4	40.9
2022-2023	23.8	22.0	30.1
2023-2024	30.0	20.3	38.7
2024-2025	18.5	14.5	18.8
2025-2026	21.0	16.9	19.1
Investigation level	25.5	42.2	51.8

During the 2025-2026 monitoring period, dry deposition rates of gas species remained within the levels observed in previous monitoring periods and below the respective investigation levels.

The composition of the total deposition at each monitoring site is illustrated in Figure 7 to Figure 9.

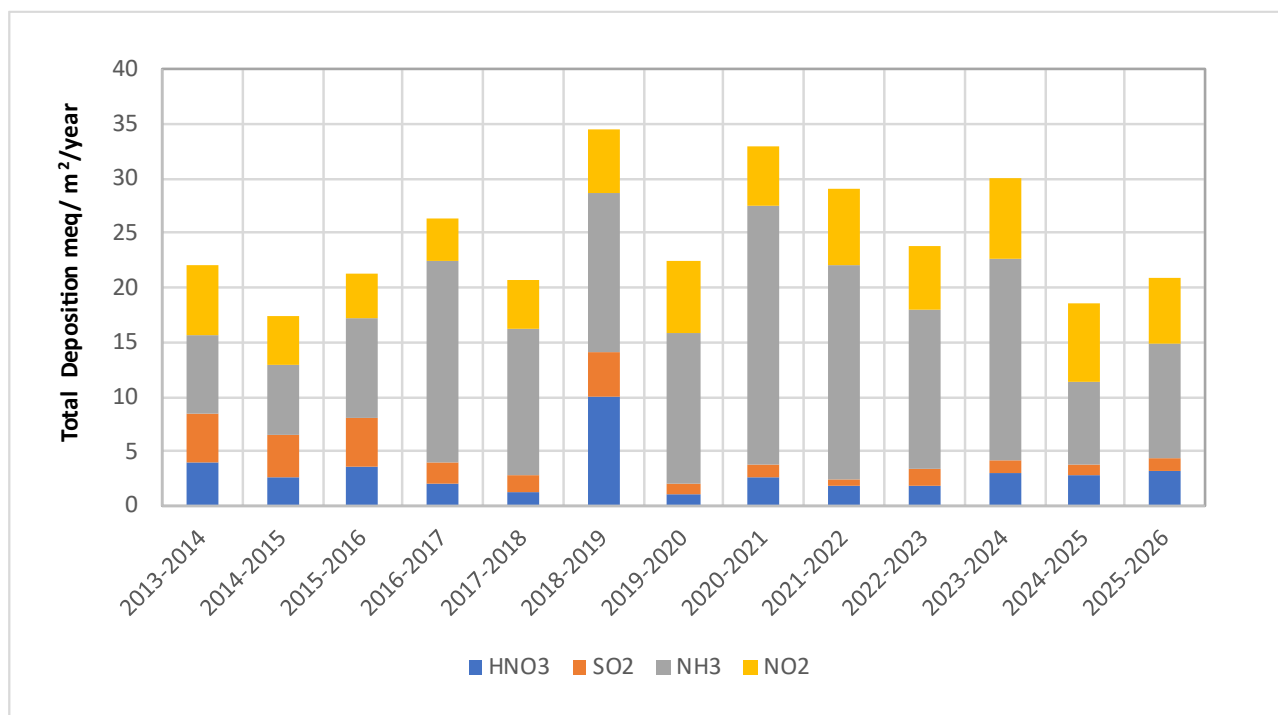


Figure 7: Burrup Road dry deposition composition

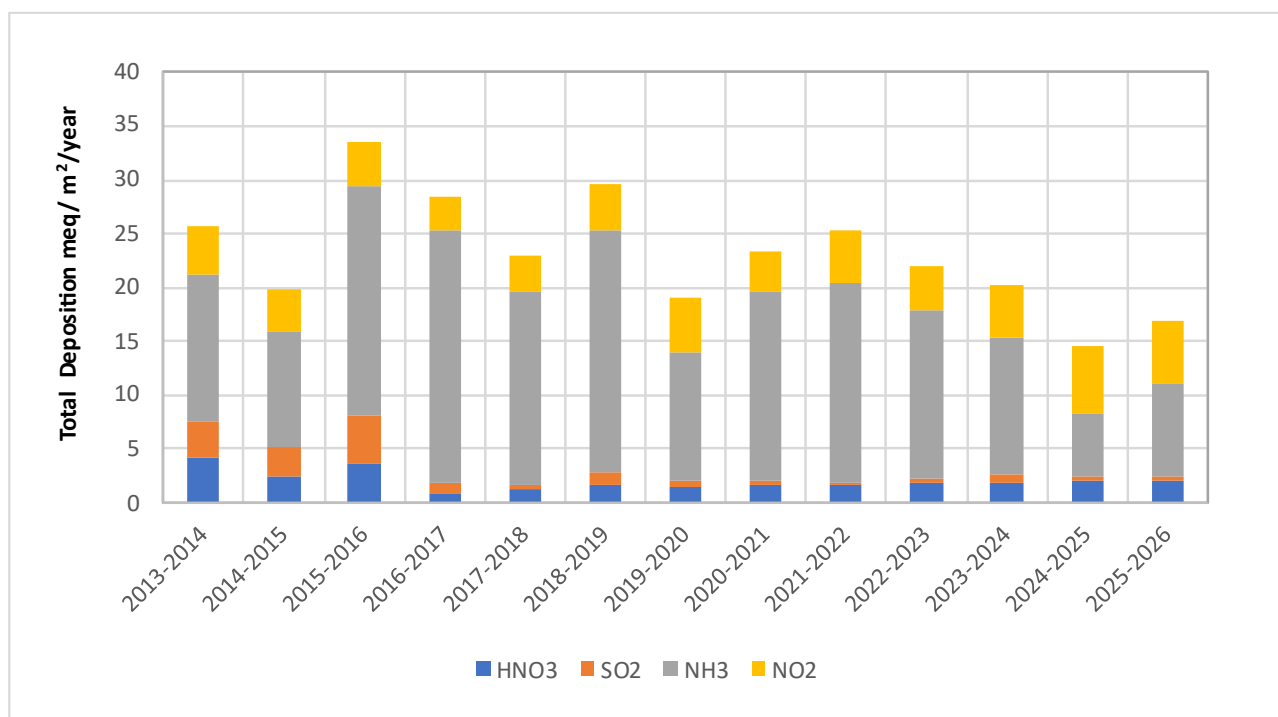


Figure 8: Water Tanks dry deposition rates

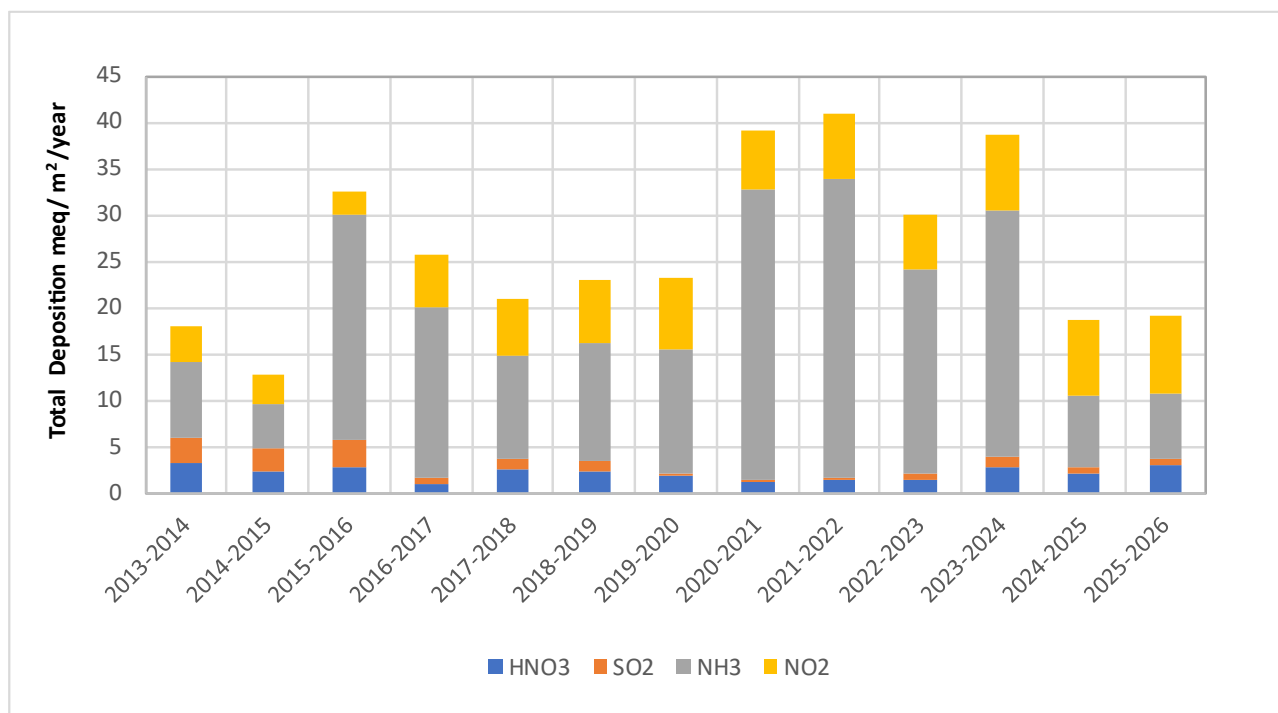


Figure 9: Hearson Cove dry deposition rates

Monitoring undertaken during the 2025-2026 period indicated that the monthly rolling annual deposition was below the investigation levels established from the Baseline Air Quality Monitoring at all three monitoring sites (Figure 10, Figure 11 and Figure 12). Peak concentrations were within the range of previous monitoring periods (not illustrated).

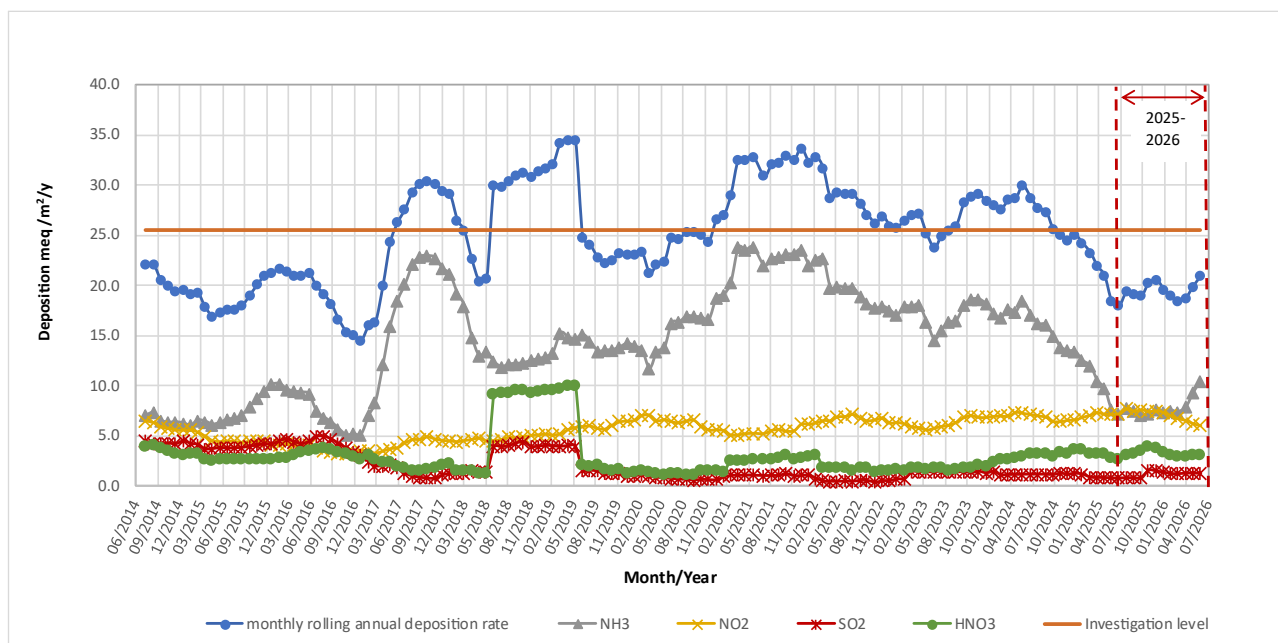


Figure 10: Monthly rolling annual total and individual gas dry deposition rates – Burrup Road

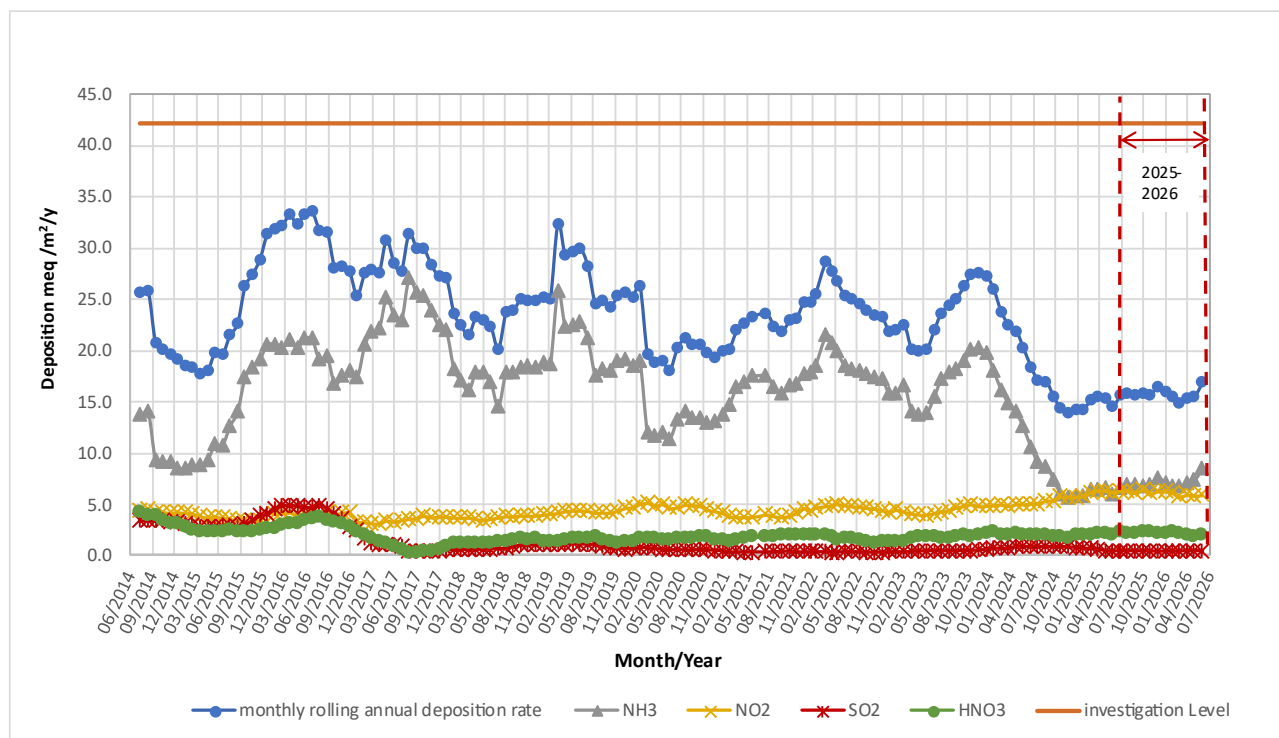


Figure 11: Monthly rolling annual total and individual gas dry deposition rates – Water Tanks

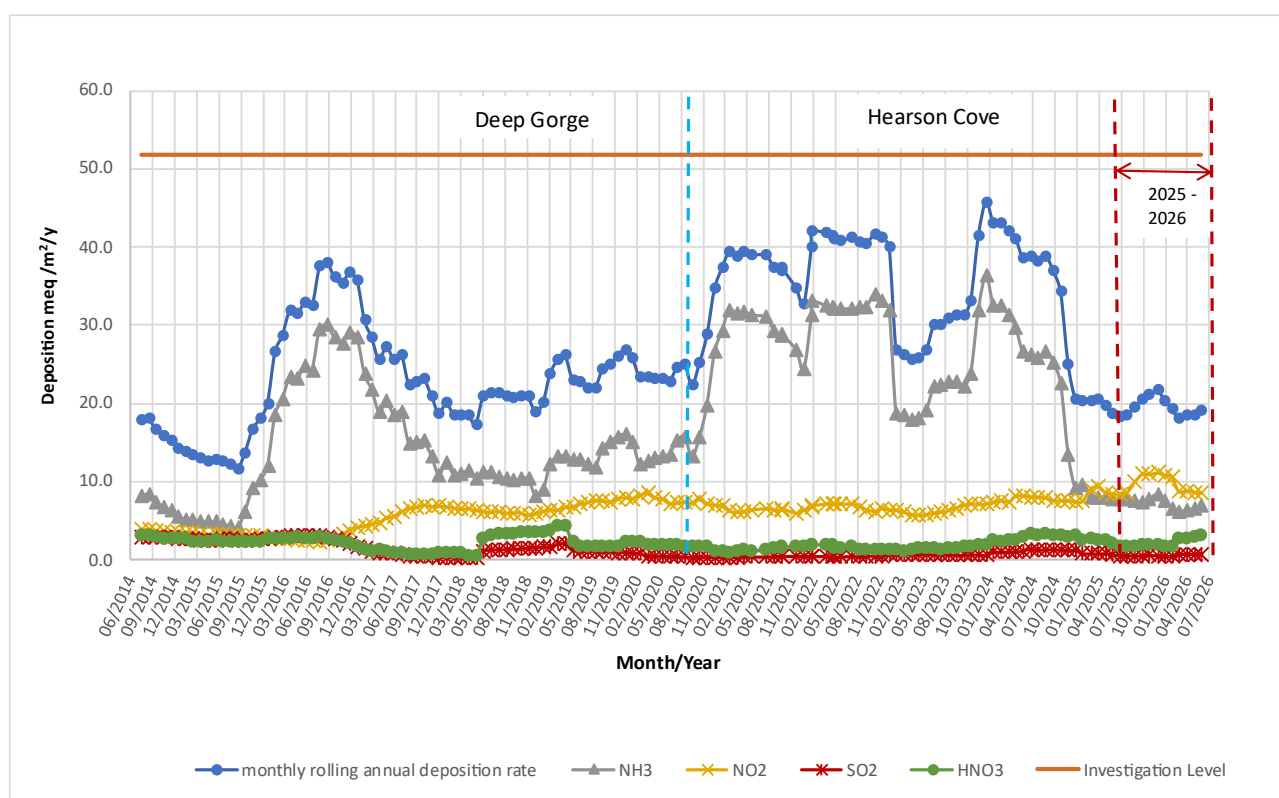


Figure 12: Monthly rolling annual total and individual gas dry deposition rates – Hearson Cove

4.2 Total Suspended Particulates

4.2.1 Results of TSP Monitoring

Monitoring for total suspended particulates (TSP) using MicroVol samplers was carried out at the three monitoring sites. Monitoring occurred for 24-hours every six days during the 2025-2026 monitoring period with the first sample collected on 6 July 2025 and the final sample on 25 June 2026.

Valid data was collected at all monitoring sites throughout the 2025-2026 monitoring period with the following exceptions:

- Run-time issues with the samplers were experienced across multiple monitoring periods and sites in 2025 with the following samples determined invalid:
 - Burrup Road – 27 July 2025, 30 July 2025, 5 August 2025 and 11 August 2025;
 - Water tanks – 6 July 2025, 12 July 2025, 18 July 2025, 27 July 2025, 30 July 2025, 5 August 2025 and 29 August 2025;
 - Hearson Cove – 28 September 2025;
- The samplers failed the volume check for all samples on 21 December 2025 and at Burrup Road and Hearson Cove on 27 December 2025; and
- No samples were collected from any of the sites for the periods 7 February 2026 and 27 March 2026 due to Severe Tropical Cyclones Mitchell and Narelle, respectively.

Tabulated results of the TSP monitoring are shown in Appendix B.

Similar trends in the TSP concentrations from the three monitoring sites are observable across the 2025/2026 monitoring period (Figure 13). This suggests the monitoring data reflects TSP trends in the local airshed rather than direct impacts from individual local sources.

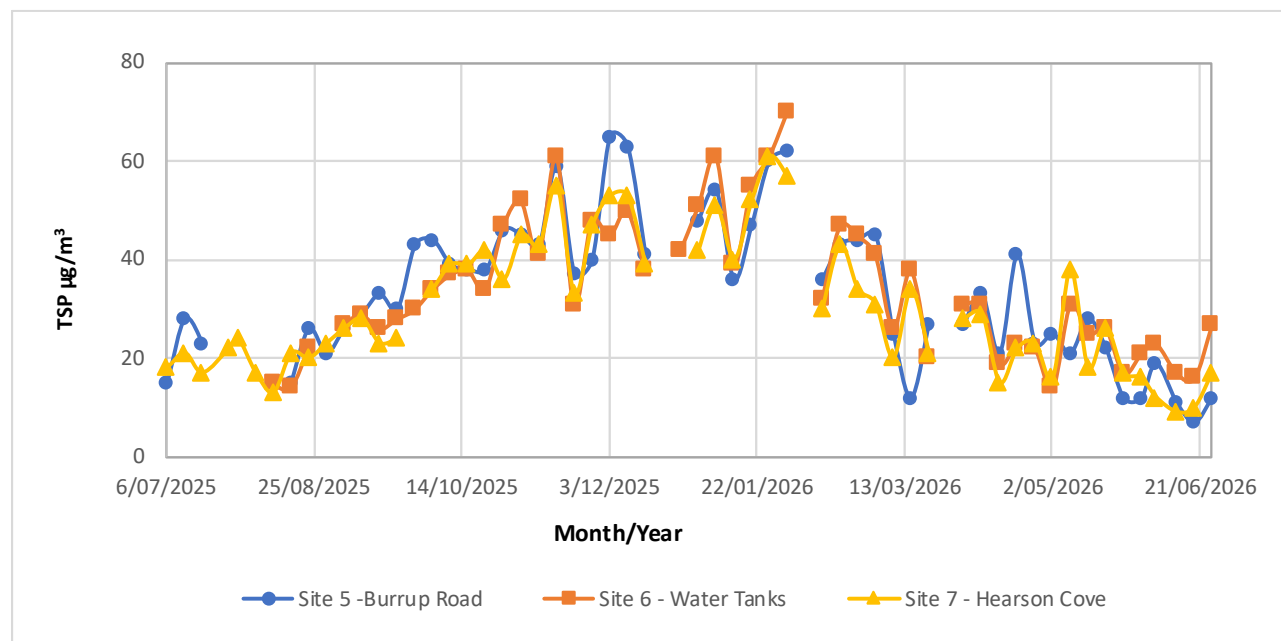


Figure 13: Measured TSP concentrations for 2025-2026

The baseline dataset was derived from direct TSP measurements as well as from estimates calculated from measured PM₁₀ concentrations described in the Baseline Air Quality Monitoring (YPN 2017). Note that during the Baseline Air Quality Monitoring, the measured baseline dataset for the Water Tanks site was impacted by local activities associated with the construction of the TAN Plant, resulting in an over-representation of

background levels at that site. The ongoing measured average concentration data are consequently compared to both the measured and calculated datasets for the baseline (Figure 14). The TSP measured for the 2025-2026 period exceeded the baseline at all sites (with the exception of the anomalous measured baseline dataset for the Water Tanks site).

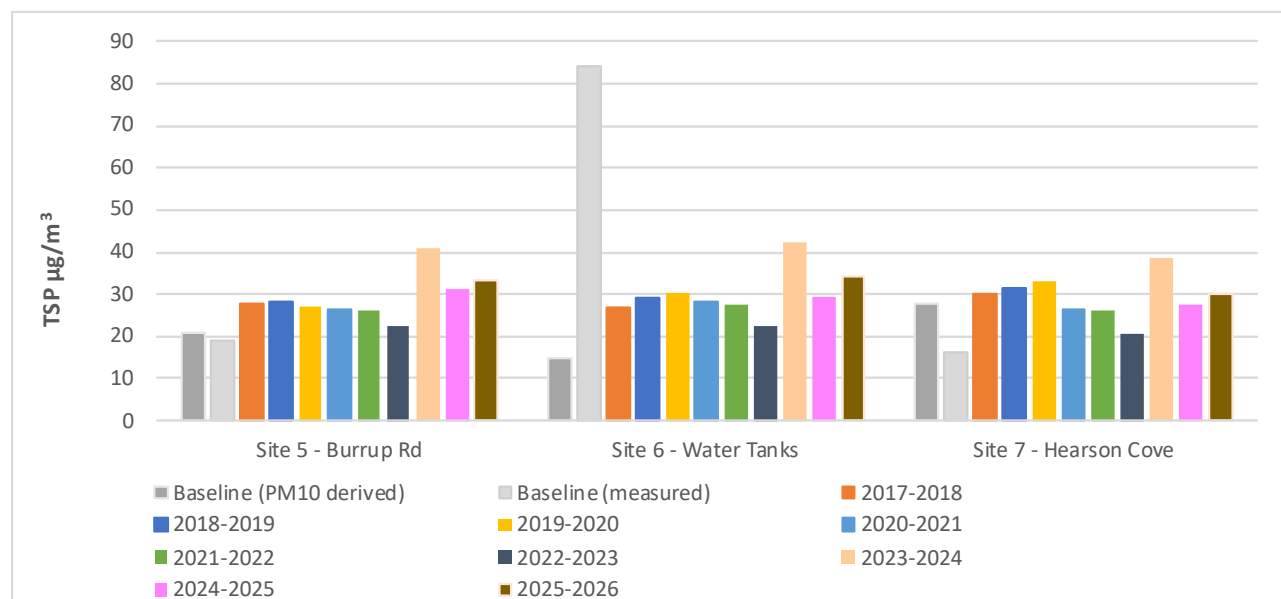


Figure 14: Comparison of average TSP concentrations for 2025-2026 with previous monitoring periods and baseline data

Descriptive statistics for TSP monitored during the 2025-2026 monitoring period at all three monitoring sites are shown in Table 8 to Table 10 alongside the data for previous monitoring periods.

Table 8: Descriptive statistics for TSP monitoring 2018 to 2026 – Burrup Road

Statistic	TSP concentration $\mu\text{g}/\text{m}^3$								
Site	Site 5 Burrup Road								
Monitoring period	2025-2026	2024-2025	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019	2017-2018
Minimum	7	10	6	5	8	5	8	2	6
Average	33	31	41	23	26	27	27	28	28
Maximum	65	81	168	50	76	78	77	66	76
Standard deviation	15	15	32	10	13	14	15	14	13

Table 9: Descriptive statistics for TSP monitoring 2018 to 2026 – Water Tanks

Statistic	TSP concentration $\mu\text{g}/\text{m}^3$								
Site	Site 6 Water Tanks								
Monitoring period	2025-2026	2024-2025	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019	2017-2018
Minimum	14	5	9	6	8	5	9	8	6
Average	34	29	42	22	28	28	31	29	27
Maximum	70	64	176	50	89	79	141	63	76
Standard deviation	14	14	34	10	14	15	22	13	12

Table 10: Descriptive statistics for TSP monitoring 2018 to 2026 – Hearson Cove

Statistic	TSP concentration $\mu\text{g}/\text{m}^3$								
Site	Site 7 Hearson Cove								
Monitoring period	2025-2026	2024-2025	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019	2017-2018
Minimum	9	4	9	6	7	7	8	8	11
Average	30	28	38	20	26	27	33	32	30
Maximum	61	60	143	50	89	67	148	67	79
Standard deviation	13	13	30	9	15	14	23	15	15

A comparison of the mean TSP concentrations measured during the monitoring periods after the Baseline Air Quality Monitoring shows that the average TSP concentration for the 2025-2026 monitoring period is below the previous peak monitoring period (Figure 14 and Table 8 to Table 10). The 2023-2024 monitoring period experienced the peak concentrations, which were above previous and subsequent monitoring periods for all monitoring sites. This was predominantly due to extensive earthworks associated with construction of the Project Ceres urea manufacturing plant to the west of the TAN Plant.

The concentrations monitored at the Water Tanks site since the Baseline Air Quality Monitoring have persisted below the baseline measured data and are comparable to levels recorded at the other sites. This continues to support the hypothesis that the baseline measurements at the Water Tanks site were affected by construction activities.

Data from the 2025-2026 monitoring period were compared to the previously measured concentrations to determine if there was a significant change in the recorded ambient TSP levels. The 2025-2026 data was determined to be statistically significantly different to the 2022-2023 and baseline monitoring periods during which lower TSP concentrations were recorded. The current monitoring period was also determined to be statistically significantly higher at Burrup Road and Water Tanks than the 2017-2018, 2019-2020 (Burrup Rd only), 2020-2021, 2021-2022 and 2022-2023 monitoring periods. The TSP data from the 2025-2026 monitoring period was not statistically different from other monitoring periods (2018-2019 and 2023-2024).

4.3 Dust Deposition

4.3.1 Results from Monitoring Deposited Dust

Results of dust deposition monitoring at the three monitoring sites are shown in Table 11. Values with a less than (<) prefix indicate the measured deposition rates were below the method detection limits, with the value indicating the limit.

Table 11: Results of dust deposition monitoring 2025-2026

Date deployed	Date collected	Site 5 – Burrup Road		Site 6 – Water Tanks		Site 7 – Hearson Cove	
		Soluble solids	Insoluble solids	Soluble solids	Insoluble solids	Soluble solids	Insoluble solids
		g/m ² /month	g/m ² /month	g/m ² /month	g/m ² /month	g/m ² /month	g/m ² /month
01/07/2025	31/07/2025	<0.7	1.4	1.1	<0.8	0.9	1
31/07/2025	01/09/2025	1	0.9	1.3	0.9	1	1.1
01/09/2025	30/09/2025	<0.7	0.8	0.9	1	0.8	0.9
30/09/2025	30/10/2025	<0.7	1.4	<0.7	1.2	1.1	2.1
30/10/2025	28/11/2025	<0.7	1.6	1.6	1.6	<0.7	1.5
28/11/2025	31/12/2025	1.3	1.5	<0.7	1.5	<0.7	1.4
31/12/2025	29/01/2026	<0.7	1.7	1.2	1.7	0.9	1.9
29/01/2026	26/02/2026	<0.7	1.7	1.3	1.9	<0.7	1.8
26/02/2026	24/03/2026	1.9	1.6	1.4	1	2.8	1.3
24/03/2026	30/04/2026	<0.7	1.3	0.9	1.2	<0.7	1.2
30/04/2026	29/05/2026	0.9	2	0.9	1.9	0.9	1.5
29/05/2026	30/06/2026	3.8	3.1	1.4	1.3	2.1	1.1

4.3.2 Analysis of Dust Deposition Data

A comparison of the dust deposition data from the 2025-2026 monitoring period with the baseline data (insoluble fraction only) is shown in Table 12.

Table 12: Descriptive statistics for dust deposition monitoring 2025-2026 and baseline study

Statistic ⁽¹⁾	Burrup Road (g/m ² /month)			Water Tanks (g/m ² /month)			Hearson Cove (g/m ² /month)		
	2025-2026		Baseline	2025-2026		Baseline	2025-2026		Baseline
	Soluble	Insoluble	Insoluble	Soluble	Insoluble	Insoluble	Soluble	Insoluble	Insoluble
Minimum	0.4	0.8	0.0	0.4	0.4	0.0	0.4	0.9	0.0
Average	0.9	1.6	0.9	1.1	1.3	0.8	1.0	1.4	1.1
95 th percentile	2.8	2.5	1.8	1.5	1.9	1.9	2.4	2.0	2.3
Maximum	3.8	3.1	2.0	1.6	1.9	2.1	2.8	2.1	5.0

(1) Half method detection limit deposition rates for non-detect results were used for calculations of statistics

Average dust deposition rates for the insoluble fraction were higher than baseline across all three monitoring sites (Figure 15). The differences between the baseline and 2025-2026 monitoring period datasets were statistically significant (higher) at the Burrup Road and Water Tanks sites (determined by t-test P values <0.05). The average measured insoluble fraction at the Water Tanks and Hearson Cove sites are within the range seen in other monitoring periods, while the average at the Burrup Road site was above that previously recorded.

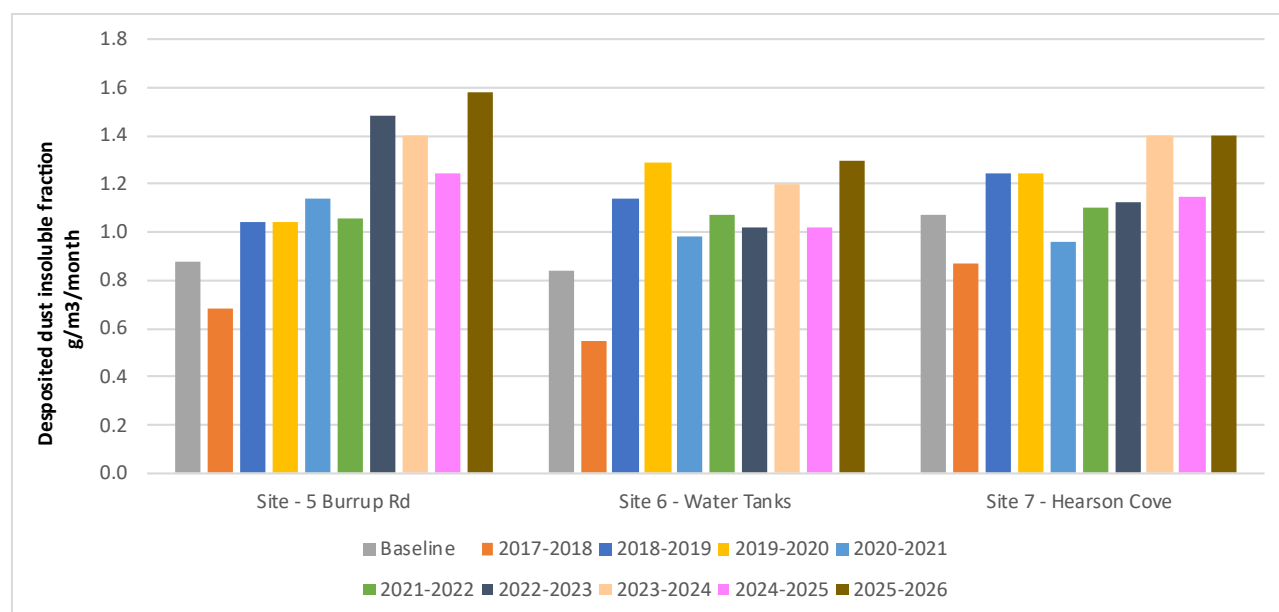


Figure 15: Deposited dust average insoluble fraction baseline to 2025-2026

The soluble fraction was not determined in samples collected for the Baseline Air Quality Monitoring as the EPBC Act approval at the time (dated 14 September 2011) only required measurements of TSP and “dust”. The latter requirement was interpreted to mean the insoluble fraction of deposited dust. An amended approval of 12 September 2017 required both insoluble and soluble fractions of deposited dust to be monitored. In the absence of baseline data, the soluble fraction data for the 2025-2026 monitoring period is compared to the data collected for the 2018 to 2023 monitoring periods.

The average soluble fraction measured from the deposited dust collected in the 2025-2026 monitoring period is within the range seen from monitoring carried out across previous monitoring periods at all sites (Figure 16).

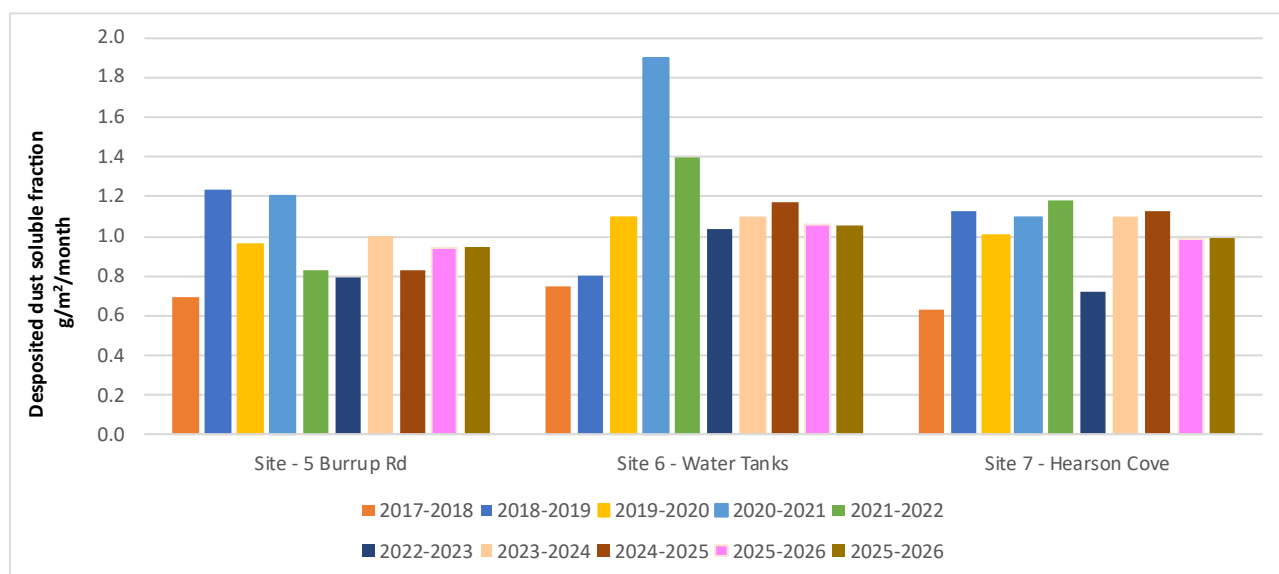


Figure 16: Deposited dust average soluble fraction baseline to 2025-2026

The trends in the soluble and insoluble deposition rates observed at the three monitoring sites across the 2025-2026 monitoring period are presented in Figure 17 and Figure 18. Note that these comparisons reflect the use of non-detect deposition rates of half the detection limits. The actual deposition rates may be lower or higher than the half detection rates.

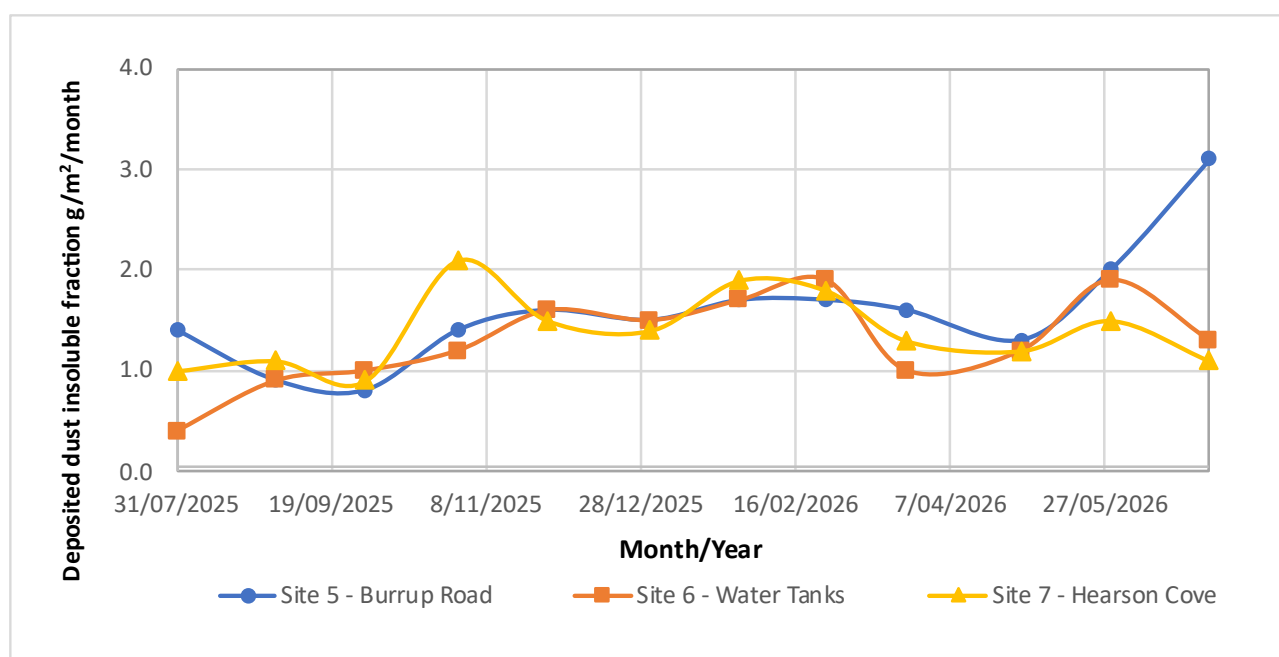


Figure 17: Deposited dust insoluble fraction 2025-2026

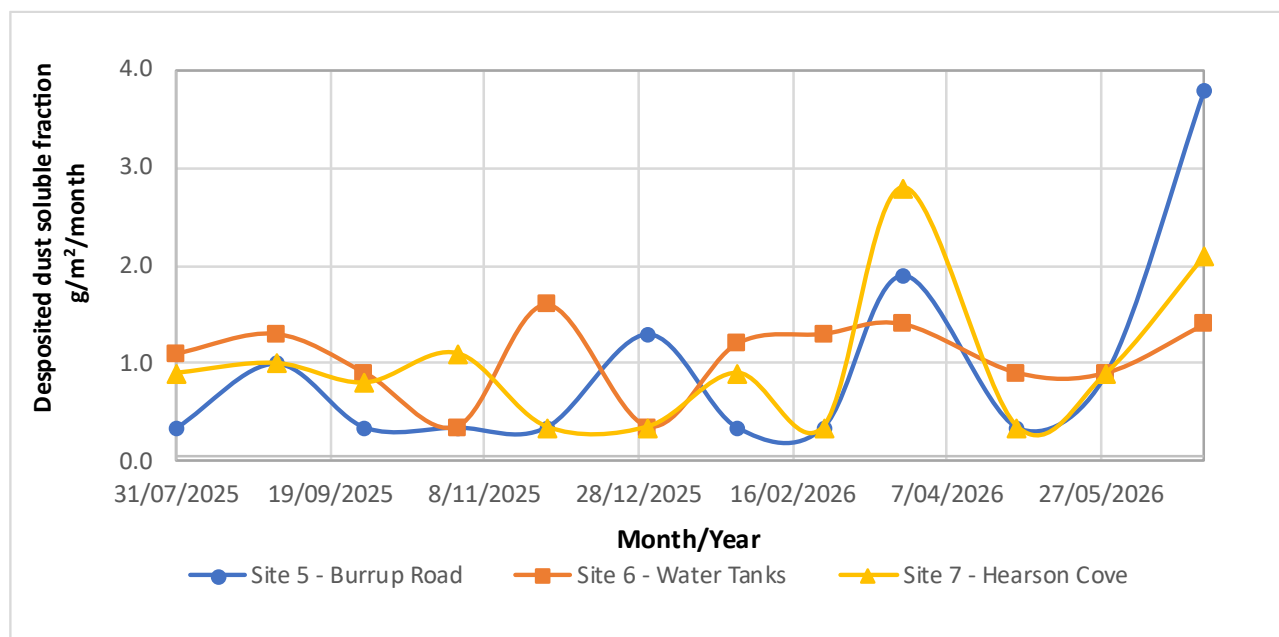


Figure 18: Deposited dust soluble fraction 2025-2026

Similar trends in the insoluble and soluble deposition rates were observed at the three monitoring sites across most of the 2025-2026 monitoring period. The exception was the deposition of both insoluble and soluble material at the Burrup Road site, which recorded levels above the other monitoring sites during June 2026. Furthermore, insoluble results were the highest recorded at any site throughout all monitoring periods while soluble results were equivalent to the highest recorded (equal to deposition recorded for the period ending 29 September 2017). The laboratory analysis noted “*opaque solids comprised of foreign material (bugs)*” across all sites for the June 2026 monitoring period. Therefore, it is unlikely that the operation of the TAN Plant caused the elevated deposition results, which may have been caused by localised insect activity.

Overall, the levels of dust deposited at the three monitoring sites in the 2025-2026 monitoring period remained largely consistent with those observed from the Baseline Air Quality Monitoring study and Ongoing Air Quality Monitoring carried out since 2017.

5. Dry Deposition Rate Investigation and Actions

As described in Section 4.1.3, the sampling carried out in the 2025-2026 monitoring period showed that the annual dry deposition rates did not exceed the investigation level at any of the three monitoring sites. Therefore, no investigation was required.

6. Concluding Remarks

Data for the 2025-2026 monitoring period are reported for all parameters specified in EPBC Act Approval 2008/4546.

Analysis of data for gases shows that:

- The average NH_3 concentrations at the Water Tanks and Hearson Cove sites were found to be statistically significantly different (lower) to the baseline;
- The average NH_3 concentrations at the Burrup Road site were higher than baseline but the difference was not statistically significant;

- The average NO₂ concentrations were not found to be statistically significant at the Hearson Cove and Burrup Road sites but were significantly higher at the Water Tanks site;
- The average SO₂ concentrations at all three monitoring sites were lower than the baseline concentrations, with differences in the averages being statistically significant.

The TAN Plant was operating at steady state for 84% of the 2025-2026 monitoring period. Ten plant startups occurred in the monitoring period during which potentially higher NH₃ emissions can occur. However, the startups did not correlate with elevated ambient concentrations.

Overall, there is no evidence from the data collected during the 2025-2026 monitoring period that operation of the TAN Plant has resulted in significant increases in ambient NO₂, NH₃ or SO₂ concentrations.

Analysis of annual dry deposition rates of gas species shows that:

- Dry deposition rates during the 2025-2026 monitoring period were within the range determined for previous monitoring periods;
- The annual dry deposition rate was below the investigation levels derived from baseline measurements for all three monitoring sites; and
- NH₃ is the dominant contributor to dry deposition at all monitoring sites.

Analysis of the TSP data shows that:

- Concentrations of TSP measured in the 2025-2026 monitoring period continue to be comparable across the three monitoring sites suggesting they are reflective of airshed background concentrations as seen in previous reporting periods;
- Average TSP concentrations at all three monitoring sites were lower compared to the results from the previous peak monitoring period (2023-2024) but were elevated at the Burrup Road and Water Tanks sites compared to all other monitoring periods since 2017, while concentrations at the Hearson Cove site were within the range of previous monitoring; and
- There is no evidence that the operation of the TAN Plant resulted in a significant increase in ambient TSP concentrations during the 2025-2026 monitoring period.

Analysis of dust deposition data shows that:

- Average insoluble deposition rates during the 2025-2026 monitoring period were above previous levels observed at the Burrup Road and Water Tanks sites;
- Average insoluble deposition rates at the Burrup Road site were elevated compared to historical monitoring results; however, this was influenced by one very high sample, apparently associated with insect residue, that did not align with results from other sites;
- Average insoluble deposition was statistically significantly different to the concentrations measured in the Baseline Air Quality Monitoring at the Burrup Road and Water Tanks sites;
- The soluble fraction of deposited dust was within the range of previous monitoring periods for all sites; and
- There is no evidence that the operation of the TAN Plant has resulted in significant increases in insoluble dust deposition rates.

7. Limitations

Scope of services

This report (“the report”) has been prepared by JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

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Appendix A Results from Monitoring of Gases

Site	Date on	Date off	NH ₃ μg/m ³	NO ₂ μg/m ³	SO ₂ μg/m ³	HNO ₃ μg/m ³
Site 5 - Burrup Road	1/07/2025	14/07/2025	0.59	8.15	0.13	0.40
Site 5 - Burrup Road	14/07/2025	31/07/2025	1.01	6.34	0.17	0.60
Site 5 - Burrup Road	31/07/2025	14/08/2025	0.65	8.01	0.15	0.22
Site 5 - Burrup Road	14/08/2025	1/09/2025	1.00	7.77	0.36	1.71
Site 5 - Burrup Road	1/09/2025	15/09/2025	0.14	3.47	0.00	0.56
Site 5 - Burrup Road	15/09/2025	30/09/2025	0.25	3.94	0.13	1.34
Site 5 - Burrup Road	30/09/2025	15/10/2025	0.37	5.45	0.45	1.16
Site 5 - Burrup Road	15/10/2025	30/10/2025	0.13	5.08	0.05	0.32
Site 5 - Burrup Road	30/10/2025	13/11/2025	0.22	3.72	1.61	1.54
Site 5 - Burrup Road	13/11/2025	28/11/2025	0.16	4.37	6.65	4.26
Site 5 - Burrup Road	28/11/2025	16/12/2025	0.29	4.03	0.09	0.35
Site 5 - Burrup Road	16/12/2025	31/12/2025	0.40	2.64	0.08	0.20
Site 5 - Burrup Road	31/12/2025	16/01/2026	0.12	2.44	0.32	0.30
Site 5 - Burrup Road	16/01/2026	30/01/2026	0.17	2.53	0.11	0.65
Site 5 - Burrup Road	30/01/2026	13/02/2026	0.27	2.27	0.08	0.20
Site 5 - Burrup Road	13/02/2026	26/02/2026	0.35	1.89	0.12	0.72
Site 5 - Burrup Road	26/02/2026	12/03/2026	0.49	2.13	0.15	0.35
Site 5 - Burrup Road	12/03/2026	24/03/2026	0.52	2.35	0.27	0.15
Site 5 - Burrup Road	30/03/2026	15/04/2026	0.60	3.70	0.31	0.23
Site 5 - Burrup Road	15/04/2026	30/04/2026	1.20	4.89	0.30	0.24
Site 5 - Burrup Road	30/04/2026	14/05/2026	1.38	3.82	0.01	0.28
Site 5 - Burrup Road	14/05/2026	29/05/2026	1.57	3.15	0.06	0.27
Site 5 - Burrup Road	29/05/2026	15/06/2026	0.68	5.17	0.01	0.63
Site 5 - Burrup Road	15/06/2026	30/06/2026	1.87	4.13	0.01	0.09
Site 6 - Water Tanks	1/07/2025	14/07/2025	0.31	7.55	0.13	0.67
Site 6 - Water Tanks	14/07/2025	31/07/2025	0.82	4.69	0.31	0.96
Site 6 - Water Tanks	31/07/2025	14/08/2025	0.37	5.69	0.06	0.22
Site 6 - Water Tanks	14/08/2025	1/09/2025	0.70	2.25	0.11	0.22
Site 6 - Water Tanks	1/09/2025	15/09/2025	0.55	8.22	0.19	0.59
Site 6 - Water Tanks	15/09/2025	30/09/2025	0.33	4.83	0.01	0.23
Site 6 - Water Tanks	30/09/2025	15/10/2025	0.45	9.39	0.05	0.26
Site 6 - Water Tanks	15/10/2025	30/10/2025	0.16	6.45	0.10	0.38
Site 6 - Water Tanks	30/10/2025	13/11/2025	0.27	8.53	0.09	0.51
Site 6 - Water Tanks	13/11/2025	28/11/2025	0.30	2.00	0.52	0.53
Site 6 - Water Tanks	28/11/2025	16/12/2025	0.39	4.41	0.06	0.19
Site 6 - Water Tanks	16/12/2025	31/12/2025	1.01	3.23	0.07	0.15
Site 6 - Water Tanks	31/12/2025	16/01/2026	0.11	3.90	0.36	1.41
Site 6 - Water Tanks	16/01/2026	30/01/2026	0.15	1.86	0.36	0.34

Site	Date on	Date off	NH ₃ µg/m ³	NO ₂ µg/m ³	SO ₂ µg/m ³	HNO ₃ µg/m ³
Site 6 - Water Tanks	30/01/2026	13/02/2026	0.31	1.80	0.11	0.48
Site 6 - Water Tanks	13/02/2026	26/02/2026	0.17	2.14	0.12	0.69
Site 6 - Water Tanks	26/02/2026	12/03/2026	0.89	3.68	0.32	0.50
Site 6 - Water Tanks	12/03/2026	24/03/2026	0.46	2.35	0.24	0.19
Site 6 - Water Tanks	30/03/2026	15/04/2026	0.54	4.49	0.22	0.31
Site 6 - Water Tanks	15/04/2026	30/04/2026	0.93	3.52	0.28	0.49
Site 6 - Water Tanks	30/04/2026	14/05/2026	0.50	3.26	0.01	0.45
Site 6 - Water Tanks	14/05/2026	29/05/2026	0.32	1.87	0.03	0.36
Site 6 - Water Tanks	29/05/2026	15/06/2026	0.46	2.32	0.01	0.49
Site 6 - Water Tanks	15/06/2026	30/06/2026	1.23	2.28	0.01	0.33
Site 7 - Hearson Cove	1/07/2025	14/07/2025	0.29	2.33	0.04	0.09
Site 7 - Hearson Cove	14/07/2025	31/07/2025	0.22	2.92	0.06	0.19
Site 7 - Hearson Cove	31/07/2025	14/08/2025	0.29	4.05	0.12	0.22
Site 7 - Hearson Cove	14/08/2025	1/09/2025	0.37	2.46	0.03	0.07
Site 7 - Hearson Cove	1/09/2025	15/09/2025	0.67	8.87	0.03	0.42
Site 7 - Hearson Cove	15/09/2025	30/09/2025	0.64	9.07	0.08	0.87
Site 7 - Hearson Cove	30/09/2025	15/10/2025	0.23	7.48	0.10	0.26
Site 7 - Hearson Cove	15/10/2025	30/10/2025	0.13	6.14	0.44	0.57
Site 7 - Hearson Cove	30/10/2025	13/11/2025	0.27	2.75	0.03	0.17
Site 7 - Hearson Cove	13/11/2025	28/11/2025	0.44	3.68	0.58	0.97
Site 7 - Hearson Cove	28/11/2025	16/12/2025	0.65	3.20	0.11	0.44
Site 7 - Hearson Cove	16/12/2025	31/12/2025	0.61	2.48	0.08	0.20
Site 7 - Hearson Cove	31/12/2025	16/01/2026	0.68	0.46	0.00	0.03
Site 7 - Hearson Cove	16/01/2026	30/01/2026	0.27	1.31	0.00	0.22
Site 7 - Hearson Cove	30/01/2026	13/02/2026	0.62	1.71	0.08	0.54
Site 7 - Hearson Cove	13/02/2026	26/02/2026	0.40	1.89	0.12	0.72
Site 7 - Hearson Cove	26/02/2026	12/03/2026	0.49	1.69	2.27	6.20
Site 7 - Hearson Cove	12/03/2026	24/03/2026	0.25	1.41	0.21	0.15
Site 7 - Hearson Cove	30/03/2026	15/04/2026	0.33	2.07	0.26	0.28
Site 7 - Hearson Cove	15/04/2026	30/04/2026	0.65	2.91	0.30	0.85
Site 7 - Hearson Cove	30/04/2026	14/05/2026	0.22	1.13	0.06	0.54
Site 7 - Hearson Cove	14/05/2026	29/05/2026	0.18	0.78	0.06	0.59
Site 7 - Hearson Cove	29/05/2026	15/06/2026	0.47	1.01	0.25	0.74
Site 7 - Hearson Cove	15/06/2026	30/06/2026	0.16	0.38	0.71	1.61

Appendix B Results from Monitoring of TSP

Period start date	Site 5 – Burrup Road TSP $\mu\text{g}/\text{m}^3$	Site 6 – Water Tanks TSP $\mu\text{g}/\text{m}^3$	Site 7 – Hearson Cove TSP $\mu\text{g}/\text{m}^3$
6/07/2025	15	-	18
12/07/2025	28	-	21
18/07/2025	23	-	17
27/07/2025	-	-	22
30/07/2025	-	-	24
5/08/2025	-	-	17
11/08/2025	-	15	13
17/08/2025	15	14	21
23/08/2025	26	22	20
29/08/2025	21	-	23
4/09/2025	26	27	26
10/09/2025	29	29	28
16/09/2025	33	26	23
22/09/2025	30	28	24
28/09/2025	43	30	-
4/10/2025	44	34	34
10/10/2025	39	37	39
16/10/2025	38	38	39
22/10/2025	38	34	42
28/10/2025	46	47	36
3/11/2025	45	52	45
9/11/2025	43	41	43
15/11/2025	59	61	55
21/11/2025	37	31	33
27/11/2025	40	48	47
3/12/2025	65	45	53
9/12/2025	63	50	53
15/12/2025	41	38	39
21/12/2025	-	-	-
27/12/2025	-	42	-
2/01/2026	48	51	42
8/01/2026	54	61	51
14/01/2026	36	39	40
20/01/2026	47	55	52
26/01/2026	60	61	61
1/02/2026	62	70	57
7/02/2026	Severe Tropical Cyclone Mitchell		
13/02/2026	36	32	30
19/02/2026	43	47	43

Period start date	Site 5 – Burrup Road TSP $\mu\text{g}/\text{m}^3$	Site 6 – Water Tanks TSP $\mu\text{g}/\text{m}^3$	Site 7 – Hearson Cove TSP $\mu\text{g}/\text{m}^3$
25/02/2026	44	45	34
3/03/2026	45	41	31
9/03/2026	25	26	20
15/03/2026	12	38	34
21/03/2026	27	20	21
27/03/2026	Sever Tropical Cyclone Narelle		
2/04/2026	27	31	28
8/04/2026	33	31	29
14/04/2026	21	19	15
20/04/2026	41	23	22
26/04/2026	23	22	23
2/05/2026	25	14	16
8/05/2026	21	31	38
14/05/2026	28	25	18
20/05/2026	22	26	26
26/05/2026	12	17	17
1/06/2026	12	21	16
6/06/2026	19	23	12
13/06/2026	11	17	9
19/06/2026	7	16	10
25/06/2026	12	27	17
6/07/2025	15	-	18

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