



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
September 2023

02/11/2023 650-200-REP-YPN-0072 Rev 0

Ambient Air Concentration of Gases
NH₃, NO₂ and SO₂

Site	Date On	Date Off	NH ₃	NO ₂	SO ₂
			µg/m ³	µg/m ³	µg/m ³
Site 5 - Burrup Road	16/06/2023	30/06/2023	1.38	9.85	0.28
Site 6 - Water Tanks	16/06/2023	30/06/2023	2.02	2.75	0.43
Site 7 - Hearson Cove	16/06/2023	30/06/2023	4.51	1.69	0.06
Site 5 - Burrup Road	30/06/2023	14/07/2023	1.77	9.22	0.45
Site 6 - Water Tanks	30/06/2023	14/07/2023	1.19	4.11	0.04
Site 7 - Hearson Cove	30/06/2023	14/07/2023	0.06	2.61	0.06
Site 5 - Burrup Road	14/07/2023	1/08/2023	1.95	6.30	0.04
Site 6 - Water Tanks	14/07/2023	1/08/2023	1.71	3.58	0.07
Site 7 - Hearson Cove	14/07/2023	1/08/2023	0.61	2.65	0.04
Site 5 - Burrup Road	1/08/2023	15/08/2023	1.15	4.60	0.00
Site 6 - Water Tanks	1/08/2023	15/08/2023	0.40	3.00	0.11
Site 7 - Hearson Cove	1/08/2023	15/08/2023	0.39	2.22	0.25

Notes:

(1) Site 7 renamed from Deep Gorge to Hearson Cove due to site relocation in April 2020.



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Airborne Particulate Concentration
Total Suspended Particulates (TSP)

Period Start Date ^{(1),(2)}	Site 5 (Burrup Road) TSP	Site 6 (Water Tanks) TSP	Site 7 (Hearson Cove) TSP
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
04-Aug-23	6	15	11
10-Aug-23	14	18	9
16-Aug-23	15	17	14
22-Aug-23	20	16	15

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
- (3) Site 7 renamed from Deep Gorge to Hearson Cove due to site relocation in April 2020.
- (4) Green cell indicates sample was outside the run time



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**Deposited Dust - Total Dust Deposition per Month
Insoluble and Soluble Fraction**

Site 5 - Burrup Road		Date Deployed	31/05/2023	30/06/2023
		Date Collected	30/06/2023	01/08/2023
Parameter	Unit	Limit of reporting		
Soluble solids	g/m ² /month	0.7	0.7	0.8
Insoluble solids	g/m ² /month	0.8	0.9	1.1

Site 6 - Water Tanks		Date Deployed	31/05/2023	30/06/2023
		Date Collected	30/06/2023	01/08/2023
Parameter	Unit	Limit of reporting		
Soluble solids	g/m ² /month	0.7	<0.7	<0.7
Insoluble solids	g/m ² /month	0.8	<0.8	<0.8

Site 7 – Hearson Cove		Date Deployed	31/05/2023	30/06/2023
		Date Collected	30/06/2023	01/08/2023
Parameter	Unit	Limit of reporting		
Soluble solids	g/m ² /month	0.7	<0.7	<0.7
Insoluble solids	g/m ² /month	0.8	<0.8	<0.8

Notes:

(1) Site 7 renamed from Deep Gorge to Hearson Cove due to site relocation in April 2020.