



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
September 2021

14/10/2021 650-200-REP-YPN-0048 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	16/06/2021	30/06/2021	3.21	5.51	0.01
Site 6 - Water Tanks	16/06/2021	30/06/2021	1.14	3.03	0.05
Site 7 - Deep Gorge	16/06/2021	30/06/2021	0.19	1.74	0.01
Site 5 - Burrup Road	30/06/2021	16/07/2021	1.66	4.60	0.09
Site 6 - Water Tanks	30/06/2021	16/07/2021	0.74	3.82	0.06
Site 7 - Deep Gorge	30/06/2021	16/07/2021	0.28	1.52	0.01
Site 5 - Burrup Road	16/07/2021	30/07/2021	0.83	5.62	0.15
Site 6 - Water Tanks	16/07/2021	30/07/2021	0.56	3.98	0.08
Site 7 - Deep Gorge	16/07/2021	30/07/2021	0.24	3.15	0.04
Site 5 - Burrup Road	30/07/2021	16/08/2021	1.69	5.53	0.06
Site 6 - Water Tanks	30/07/2021	16/08/2021	1.21	2.22	0.08
Site 7 - Deep Gorge	30/07/2021	16/08/2021	0.14	2.02	0.46



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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 (Deep Gorge) TSP
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
14-Aug-21	14	17	7
20-Aug-21	32	19	26
26-Aug-21	29	34	18
01-Sep-21	23	28	23

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.



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

Site 5 - Burrup Road		Date Deployed	30/06/2021
		Date Collected	30/07/2021
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	<0.8

Site 6 - Water Tanks		Date Deployed	30/06/2021
		Date Collected	30/07/2021
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1
Insoluble solids	g/m ² /month	0.8	1

Site 7 - Deep Gorge		Date Deployed	30/06/2021
		Date Collected	30/07/2021
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	0.9