



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
January 2020

03/02/2020 650-200-REP-YPN-0027 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	17/10/2019	1/11/2019	0.47	3.65	0.43
Site 6 - Water Tanks	17/10/2019	1/11/2019	0.93	3.58	0.14
Site 7 - Deep Gorge	17/10/2019	1/11/2019	1.83	2.91	0.17
Site 5 - Burrup Road	1/11/2019	15/11/2019	0.22	0.00	0.04
Site 6 - Water Tanks	1/11/2019	15/11/2019	0.56	4.26	0.24
Site 7 - Deep Gorge	1/11/2019	15/11/2019	0.73	¹ n/a	¹ n/a
Site 5 - Burrup Road	15/11/2019	29/11/2019	0.37	8.46	1.35
Site 6 - Water Tanks	15/11/2019	29/11/2019	0.58	2.71	0.07
Site 7 - Deep Gorge	15/11/2019	29/11/2019	1.37	2.68	0.15
Site 5 - Burrup Road	29/11/2019	13/12/2019	0.35	3.32	0.07
Site 6 - Water Tanks	29/11/2019	13/12/2019	0.84	2.49	0.15
Site 7 - Deep Gorge	29/11/2019	13/12/2019	0.50	2.60	0.18

Notes:

(1) Incorrect sample material was used, data not valid.



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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
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
17-Dec-19	33	31	48
23-Dec-19	43	49	75
29-Dec-19	50	63	61
04-Jan-20	3 ₋	3 ₋	3 ₋
10-Jan-20	3 ₋	141	148
16-Jan-20	42	32	32

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
- (3) No data available due to EcoTech 2020 bug (MicroVol 1100 did not operate).



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

Site 5 - Burrup Road		Date Deployed	01/11/2019
		Date Collected	29/11/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.9
Insoluble solids	g/m ² /month	0.8	<0.8

Site 6 - Water Tanks		Date Deployed	01/11/2019
		Date Collected	29/11/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.8
Insoluble solids	g/m ² /month	0.8	1.4

Site 7 - Deep Gorge		Date Deployed	01/11/2019
		Date Collected	29/11/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.2
Insoluble solids	g/m ² /month	0.8	1.1