



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
September 2019

02/10/2019 650-200-REP-YPN-0023 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	13/06/2019	1/07/2019	1.53	3.85	0.10
Site 6- Water Tanks	13/06/2019	1/07/2019	0.55	1.95	0.32
Site 7- Deep Gorge	13/06/2019	1/07/2019	0.27	2.13	0.20
Site 5- Burrup Road	1/07/2019	15/07/2019	1.04	7.23	0.26
Site 6- Water Tanks	1/07/2019	15/07/2019	0.62	4.48	0.14
Site 7- Deep Gorge	1/07/2019	15/07/2019	0.40	3.91	0.10
Site 5- Burrup Road	15/07/2019	31/07/2019	0.65	6.96	0.77
Site 6- Water Tanks	15/07/2019	31/07/2019	1.38	5.49	0.28
Site 7- Deep Gorge	15/07/2019	31/07/2019	0.22	3.93	0.11
Site 5- Burrup Road	31/07/2019	15/08/2019	0.55	5.99	0.60
Site 6- Water Tanks	31/07/2019	15/08/2019	0.38	3.71	0.08
Site 7- Deep Gorge	31/07/2019	15/08/2019	0.06	3.80	0.14



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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
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
07-Aug-19	12	11	12
13-Aug-19	16	26	23
19-Aug-19	18	20	26
25-Aug-19	22	27	30
31-Aug-19	14	14	16
06-Sep-19	30	39	38

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	01/07/2019
		Date Collected	31/07/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.7
Insoluble solids	g/m ² /month	0.8	1.1

Site 6 - Water Tanks		Date Deployed	01/07/2019
		Date Collected	31/07/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1
Insoluble solids	g/m ² /month	0.8	0.9

Site 7 - Deep Gorge		Date Deployed	01/07/2019
		Date Collected	31/07/2019
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.8
Insoluble solids	g/m ² /month	0.8	1