



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
September 2018

13-11-2018 650-200-REP-YPN-0012 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	15/08/2018	31/08/2018	0.55	5.99	0.77
Site 6 - Water Tanks	15/08/2018	31/08/2018	1.00	4.61	0.45
Site 7 - Deep Gorge	15/08/2018	31/08/2018	0.77	3.54	0.40
Site 5 - Burrup Road	31/08/2018	14/09/2018	0.70	5.58	0.68
Site 6 - Water Tanks	31/08/2018	14/09/2018	5.54	4.42	0.26
Site 7 - Deep Gorge	31/08/2018	14/09/2018	0.70	3.18	0.35
Site 5 - Burrup Road	14/09/2018	28/09/2018	1.54	7.00	0.49
Site 6 - Water Tanks	14/09/2018	28/09/2018	1.10	5.38	0.38
Site 7 - Deep Gorge	14/09/2018	28/09/2018	0.71	0.71	0.04



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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-Sep-18	38	40	41
23-Sep-18	31	22	18
29-Sep-18	32	34	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	31/07/2018
		Date Collected	31/08/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.8
Insoluble solids	g/m ² /month	0.8	<0.8

Site 6 - Water Tanks		Date Deployed	31/07/2018
		Date Collected	31/08/2018
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 7 - Deep Gorge		Date Deployed	31/07/2018
		Date Collected	31/08/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.9
Insoluble solids	g/m ² /month	0.8	0.8