



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
April 2018

30-04-2018 650-200-REP-YPN-0005 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	14/02/2018	28/02/2018	0.40	2.02	0.04
Site 6 - Water Tanks	14/02/2018	28/02/2018	0.60	1.45	0.03
Site 7 - Deep Gorge	14/02/2018	28/02/2018	0.70	1.45	0.03
Site 5 - Burrup Road	28/02/2018	15/03/2018	0.37	3.24	0.06
Site 6 - Water Tanks	28/02/2018	15/03/2018	0.53	1.55	0.12
Site 7 - Deep Gorge	28/02/2018	15/03/2018	0.39	1.09	0.01
Site 5 - Burrup Road	15/03/2018	29/03/2018	0.37	2.92	0.68
Site 6 - Water Tanks	15/03/2018	29/03/2018	0.40	1.89	0.20
Site 7 - Deep Gorge	15/03/2018	29/03/2018	0.43	2.38	0.22



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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
Units	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
03-Mar-18	NA ³	19	NA ³
09-Mar-18	24 ⁴	20	21
15-Mar-18	36	21	27
21-Mar-18	23	25	24

Notes:

1. The date is the date that sampling commenced.
2. The Low Volume Air Sampler unit runs for a nominal 24 hours.
3. NA = filter not analysed.
4. Final flow 10% more than initial flow.



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

Site 5 - Burrup Road		Date Deployed	02/01/2018
		Date Collected	31/01/2018
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

Site 6 - Water Tanks		Date Deployed	02/01/2018
		Date Collected	31/01/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.6
Insoluble solids	g/m ² /month	0.8	1.2

Site 7 - Deep Gorge		Date Deployed	02/01/2018
		Date Collected	31/01/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.0
Insoluble solids	g/m ² /month	0.8	1.2