



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
May 2020

02/06/2020 650-200-REP-YPN-0031 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	13/02/2020	27/02/2020	0.27	3.74	0.41
Site 6 - Water Tanks	13/02/2020	27/02/2020	0.39	3.69	0.37
Site 7 - Deep Gorge	13/02/2020	27/02/2020	0.59	3.59	0.10
Site 5 - Burrup Road	27/02/2020	13/03/2020	0.32	¹ -	¹ -
Site 6 - Water Tanks	27/02/2020	13/03/2020	0.42	3.87	0.97
Site 7 - Deep Gorge	27/02/2020	13/03/2020	0.75	2.46	0.01
Site 5 - Burrup Road	13/03/2020	31/03/2020	0.43	6.30	0.14
Site 6 - Water Tanks	13/03/2020	31/03/2020	0.73	4.92	0.11
Site 7 - Deep Gorge	13/03/2020	31/03/2020	0.59	4.86	0.16
Site 5 - Burrup Road	31/03/2020	14/04/2020	0.47	5.73	0.18
Site 6 - Water Tanks	31/03/2020	14/04/2020	0.61	4.39	0.26
Site 7 - Deep Gorge	31/03/2020	14/04/2020 ²	0.74	3.61	0.08

¹ Primary and duplicate Radiello samples fallen to ground

² Deep Gorge site relocated on the 08/04/2020. Radiellos removed on the 07/04/2020 at 7:00 AM and redeployed on the 09/04/2020 and 9:15 AM.

Note: Radiellos not deployed between the 06/02/2020 to the 13/02/2020 due to Tropical Cyclone Damien.



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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
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
09/04/2020	14	18	³ _
15/04/2020	16	16	18
21/04/2020	23	20	26
27/04/2020	21	20	19

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
- (3) Result invalid as exposure was outside AS requirement of 24+/- 1 hour



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

Site 5 - Burrup Road		Date Deployed	27/02/2020
		Date Collected	31/03/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.2
Insoluble solids	g/m ² /month	0.8	1.4

Site 6 - Water Tanks		Date Deployed	27/02/2020
		Date Collected	31/03/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.1
Insoluble solids	g/m ² /month	0.8	1.2

Site 7 - Deep Gorge		Date Deployed	27/02/2020
		Date Collected	31/03/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	1.4
Insoluble solids	g/m ² /month	0.8	<0.8