



Yara Pilbara Nitrates Pty Ltd  
Air Quality Monitoring Report  
September 2018

08-10-2018 650-200-REP-YPN-0011 Rev 0

**Ambient Air Concentration of Gases**  
**NH<sub>3</sub>, NO<sub>2</sub> and SO<sub>2</sub>**

Site	Date On	Date Off	NH <sub>3</sub>	NO <sub>2</sub>	SO <sub>2</sub>
			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Site 5 - Burrup Road	29/06/2018	16/07/2018	0.60	6.25	19.07
Site 6 - Water Tanks	29/06/2018	16/07/2018	1.12	4.18	0.38
Site 7 - Deep Gorge	29/06/2018	16/07/2018	0.24	1.51	0.68
Site 5 - Burrup Road	16/07/2018	31/07/2018	0.32	5.42	0.45
Site 6 - Water Tanks	16/07/2018	31/07/2018	0.34	5.01	0.30
Site 7 - Deep Gorge	16/07/2018	31/07/2018	0.23	3.05	0.48
Site 5 - Burrup Road	31/07/2018	15/08/2018	1.90	3.55	0.07
Site 6 - Water Tanks	31/07/2018	15/08/2018	2.00	3.42	0.09
Site 7 - Deep Gorge	31/07/2018	15/08/2018	0.64	2.03	0.09



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**Airborne Particulate Concentration**  
**Total Suspended Particulates (TSP)**

Period Start Date <sup>(1),(2)</sup>	Site 5 (Burrup Road) TSP	Site 6 (Water Tanks) TSP	Site 7 (Deep Gorge) TSP
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
12-Aug-18	21	35	37
18-Aug-18	17	13	15
24-Aug-18	21	18	15
30-Aug-18	20	23	22
05-Sep-18	20	21	18
11-Sep-18	20	19	28

**Notes:**

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.



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

Site 5 - Burrup Road		Date Deployed	27/04/2018	31/05/2018	28/06/2018
		Date Collected	31/05/2018	28/06/2018	31/07/2018
Parameter	Unit	Limit of Reporting			
Soluble solids	g/m <sup>2</sup> /month	0.7	<0.7	1.3	0.8
Insoluble solids	g/m <sup>2</sup> /month	0.8	<0.8	<0.8	<0.8

Site 6 - Water Tanks		Date Deployed	27/04/2018	31/05/2018	28/06/2018
		Date Collected	31/05/2018	28/06/2018	31/07/2018
Parameter	Unit	Limit of Reporting			
Soluble solids	g/m <sup>2</sup> /month	0.7	<0.7	1.6	<0.7
Insoluble solids	g/m <sup>2</sup> /month	0.8	<0.8	<0.8	<0.8

Site 7 - Deep Gorge		Date Deployed	27/04/2018	31/05/2018	28/06/2018
		Date Collected	31/05/2018	28/06/2018	31/07/2018
Parameter	Unit	Limit of Reporting			
Soluble solids	g/m <sup>2</sup> /month	0.7	<0.7	<2	<2
Insoluble solids	g/m <sup>2</sup> /month	0.8	<0.8	<0.8	<0.8