

STACK MONITORING DATA

Plant 1 – Horsley Park

License Number: 546 Licensee: The Austral Brick Company Pty Ltd Premises: Austral Brick, Plants 1 and 2 -738-780 Wallgrove Road, Horsley Park NSW 2175 Samples taken from EPA identification point 4.			12/12/2017	13/12/2017	15/03/2018	21/06/2018	28/08/2018
Pollutant	Units	Limit					
Total Solid Particles (TSP)	mg/m ³	100	34	19	14	18	13
Coarse Particulates	mg/m ³		11	2.3	2.4	3.6	1.8
Fine Particulates (PM10)	mg/m ³		23	16	12	14	11
Sulphur Oxides (SOX) SO2+SO3	mg/m ³		360.21	152	307	313	220.88
Nitrogen Oxides (NOX)	mg/m ³	2000	79	50	78	100	79
Hydrogen Fluoride (HF)	mg/m ³	50	65	46	45	44	75
Cadmium	mg/m ³		0.0005	0.00032	0.00036	<0.00005	<0.0003
Dry Gas Density	kg/m ³		1.31	1.304	1.303	1.304	1.31
Fluorine	mg/m ³		62	44	43	42	71
Hydrogen Chloride	mg/m ³		70	110	83	85	140
Hydrogen Sulfide	µg/m ³		0.008	6.1	4.3	8.2	0.42
Mercury	mg/m ³		0.012	0.0053	<0.001	0.0081	0.008
Moisture	%		7.7	7.41	7.59	7.3	4.65
Molecular weight of stack gases	g/g-mole		29.35	29.21	29.20	29.23	29.4
Oxygen	%		16	16.9	16.4	16.3	15.6
Sulfuric acid mist (SO3)	mg/m ³		0.21	12	47	13	0.88
Sulphur dioxide (SO2)	mg/m ³		360	140	260	300	220
temperature	degrees Celcius		198.5	187	191.00	173	174.5

Type 1 Substances	mg/m ³		0.022	0.017	0.0042	0.013	<0.02
Type 2 Substances	mg/m ³		0.028	0.085	0.081	0.038	<0.046
Velocity	m/sec		15	13	13.40	13.3	13
Volatile Organic Compounds as n-propane equivalent	mg/m ³		5.2	0.79	0.76	1.1	4.6
Volumetric Flow rates	m ³ /sec		16.00	14.4	14.6	15.20	15

Plant 2 – Horsley Park

License Number: 546 Licensee: The Austral Brick Company Pty Ltd Premises: Austral Brick, Plants 1, 2 & 3 738-780 Wallgrove Road, Horsley Park NSW 2175 Samples taken from EPA identification point 5.			13/12/2017	14/12/2017	16/03/2018	18/06/2018
Pollutant	Units	LIMITS				
Total Solid Particles (TSP)	mg/m ³	100	20	21	34	31
Coarse Particulates	mg/m ³		6.4	3.8	6.4	4.9
Fine Particulates (PM10)	mg/m ³		14	17	28	26
Sulphur Oxides (SOX) SO2+SO3	mg/m ³		157.4	68.5	89	82.7
Nitrogen Oxides (NOX)	mg/m ³	2000	23	23	55	83
Hydrogen Fluoride (HF)	mg/m ³	50	54	41	38	34
Sulfuric acid mist (SO3)	mg/m ³		7.4	4.5	13	6.7
Sulphur dioxide (SO2)	mg/m ³		150	64	76	76

Plant 3 – Horsley Park (Swindell)

License Number: 546 Licensee: The Austral Brick Company Pty Ltd Premises: Austral Brick, Plant 3 8-10 Old Wallgrove Road, Horsley Park NSW 2175 Samples taken from EPA identification point 6			14/03/2018	20/06/2018
Pollutant	Units	LIMITS		
Total Solid Particles (TSP)	mg/m³	100	12	8.8
Coarse Particulates	mg/m³		1.2	1.6
Fine Particulates (PM10)	mg/m³		11	7.2
Sulphur Oxides (SOX) SO₂+SO₃	mg/m³		73	73
Nitrogen Oxides (NOX)	mg/m³	2000	77	91
Hydrogen Fluoride (HF)	mg/m³	50	34	41
Sulfuric acid mist (SO₃)	mg/m³	100	28	51
Sulphur dioxide (SO₂)	mg/m³		45	22

Plant 3 – Horsley Park (Ceric)

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Pollutant	Units	LIMITS				
Total Solid Particles (TSP)	mg/m ³	100	22	25	25	26
Coarse Particulates	mg/m ³		4.1	3.7	2.2	8.2
Fine Particulates (PM10)	mg/m ³		18	21	23	18
Sulphur Oxides (SOX) SO ₂ +SO ₃	mg/m ³		84.3	147	84.1	82.1
Nitrogen Oxides (NOX)	mg/m ³	2000	110	110	110	100
Hydrogen Fluoride (HF)	mg/m ³	50	48	47	29	26
Cadmium	mg/m ³		0.00043	<0.00004	<0.0005	<0.0004
Dioxins and Furans	ng/m ³		1.829	1.624	0.89	1
Dry Gas Density	kg/m ³		1.311	1.31	1.31	1.31
Fluorine	mg/m ³		45	45	27	25
Hydrogen Chloride	mg/m ³		110	120	41	40
Hydrogen Sulfide	µg/m ³		2.1	1	0.089	2.7
Mercury	mg/m ³		0.0007	0.018	0.0065	0.0059
Moisture	%		6.74	9.03	8.83	7.57
Molecular weight of stack gases	g/g-mole		29.39	29.36	29.4	29.43
Oxygen	%		16.3	16.2	16	16.1
Sulfuric acid mist (SO ₃)	mg/m ³		6.3	47	1.1	2.1
Sulphur dioxide (SO ₂)	mg/m ³		78	100	83	80
temperature	degress Celcius		184	199	181.33	172
Type 1 Substances	mg/m ³		0.0029	0.019	<0.014	<0.013
Type 2 Substances	mg/m ³		0.12	0.083	<0.066	<0.056
Velocity	m/sec		18.8	19.9	18	18.33
Volatile Organic Compounds as n-propane equivalent	mg/m ³		0.86	1.6	0.86	1.3
Volumetric Flow rates	m ³ /sec		16.58	16.58	16	16.33