

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.			19.12.18	15.4.19	13.5.19	4.6.19	15.7.19
Pollutant	Units	Limit					
Total Solid Particles (TSP)	mg/m ³	100	35	30	54	34	14
Coarse Particulates	mg/m ³		5.3	0.92	21	1.6	8.4
Fine Particulates (PM10)	mg/m ³		29	29	32	32	5.9
Sulphur Oxides (SOX) SO2+SO3	mg/m ³		291.7	192.3	232.1	301	129.8
Nitrogen Oxides (NOX)	mg/m ³	2000	74	60	99	68	110
Hydrogen Fluoride (HF)	mg/m ³	50	110	96	110	91	92
Hydrogen Fluoride (HF) 2	mg/m ³	50	98	73	94	85	94
Cadmium	mg/m ³		<0.0003	<0.0003	<0.0003	<0.0003	<0.0005
Dry Gas Density	kg/m ³		1.31	1.31	1.31	1.31	1.31
Fluorine	mg/m ³		100	92	100	86	87
Hydrogen Chloride	mg/m ³		160	97	180	73	91
Hydrogen Sulfide	µg/m ³		0.042	<0.005	0.34	0.43	<0.02
Mercury	mg/m ³		0.011	0.0047	0.0042	0.0027	0.027
Moisture	%		6.9	6.9	7	7.05	7.85
Molecular weight of stack gases	g/g-mole		29.4	29.3	29.40	29.40	29.4
Oxygen	%		15.8	16	15.8	15.6	15.3
Sulfuric acid mist (SO3)	mg/m ³		1.7	2.3	2.1	41	9.8
Sulphur dioxide (SO2)	mg/m ³		290	190	230	260	120
temperature	degress Celcius		192	191.67	193.33	187.00	218.5

Type 1 Substances	mg/m³		<0.021	<0.013	<0.013	<0.0015	<0.042
Type 2 Substances	mg/m³		<0.051	<0.037	0.029	<0.1	<0.09
Velocity	m/sec		12.5	12.33	14.00	13.00	13
Volatile Organic Compounds as n-propane equivalent	mg/m³		6.1	4.4	3.9	5.8	4.2
Volumetric Flow rates	m³/sec		14.00	13.33	15	14.33	13.00

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.			Site not in operation
Pollutant	Units	LIMITS	
Total Solid Particles (TSP)	mg/m ³	100	
Coarse Particulates	mg/m ³		
Fine Particulates (PM10)	mg/m ³		
Sulphur Oxides (SOX) SO2+SO3	mg/m ³		
Nitrogen Oxides (NOX)	mg/m ³	2000	
Hydrogen Fluoride (HF)	mg/m ³	50	
Sulfuric acid mist (SO3)	mg/m ³		
Sulphur dioxide (SO2)	mg/m ³		

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			15.2.19	17.4.19	15.5.19	6.6.19	9.7.19
Pollutant	Units	LIMITS					
Total Solid Particles (TSP)	mg/m³	100	10	2.5	10	12	10
Coarse Particulates	mg/m³		2.4	2.5	2.1	0.22	1.6
Fine Particulates (PM10)	mg/m³		8	<3	8.2	12	8.9
Sulphur Oxides (SOX) SO₂+SO₃	mg/m³		22.5	19.8	27.1	47.87	158.2
Nitrogen Oxides (NOX)	mg/m³	2000	71	64	80	70	54
Hydrogen Fluoride (HF)	mg/m³	50	26	33	31	36	44
Sulfuric acid mist (SO₃)	mg/m³	100	1.5	2.8	1.1	0.87	8.2
Sulphur dioxide (SO₂)	mg/m³		21	17	26	47	150

Plant 3 – Horsley Park (Ceric)

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 7.			14.2.19+15.2.19	16.4.19+17.4.19	14.5.19+15.5.19	5.6.19+6.6.19	9.7.19+10.7.19
Pollutant	Units	LIMITS					
Total Solid Particles (TSP)	mg/m ³	100	70	17	36	36	23
Coarse Particulates	mg/m ³		36	0.97	3.6	6.4	1.4
Fine Particulates (PM10)	mg/m ³		33	16	32	39	22
Sulphur Oxides (SOX) SO ₂ +SO ₃	mg/m ³		102	97.7	87.2	133.5	66.5
Nitrogen Oxides (NOX)	mg/m ³	2000	120	95	110	98	83
Hydrogen Fluoride (HF)	mg/m ³	50	31	35	74	48	25
Hydrogen Fluoride (HF) 2	mg/m ³	50			57		
Cadmium	mg/m ³		<0.0006	<0.0004	<0.0006	<0.0004	<0.0003
Dioxins and Furans	ng/m ³		3	1.5	1.7	4	6.5
Dry Gas Density	kg/m ³		1.31	1.31	1.31	1.31	1.30
Fluorine	mg/m ³		29	33	70	46	24
Hydrogen Chloride	mg/m ³		38	53	170	64	27
Hydrogen Sulfide	µg/m ³		0.8	0.43	1.6	0.088	0.036
Mercury	mg/m ³		0.004	0.0061	0.00031	<0.0007	0.0045
Moisture	%		7.35	7.88	7.05	6.9	5.73
Molecular weight of stack gases	g/g-mole		29.28	29.3	29.2	29.37	29.2
Oxygen	%		16.3	15.6	16.2	16.3	17.1
Sulfuric acid mist (SO ₃)	mg/m ³		4	8.7	1.2	3.5	1.5
Sulphur dioxide (SO ₂)	mg/m ³		98	89	86	130	65
temperature	degress Celcius		198.25	161.5	181.75	176.50	196.33
Type 1 Substances	mg/m ³		<0.015	<0.015	<0.007	<0.008	<0.01
Type 2 Substances	mg/m ³		<0.067	<0.12	<0.072	<0.15	<0.052
Velocity	m/sec		21	13.5	19.75	18.75	14
Volatile Organic Compounds as n-propane equivalent	mg/m ³		2	0.95	0.52	0.67	0.82
Volumetric Flow rates	m ³ /sec		18.25	12.75	17.75	17.50	12