

**EPA Licence Number:** L2014  
**Licensee Name:** Boral CSR Bricks Pty Limited  
**Licensee Address:** 75 Townson Road, Schofields, NSW, 2762  
**Link to Licence:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50086&SYSUID=1&LICID=2014>

CORRECTION LOG

Exceedance / Non-ComplianceTable

Sampling Point	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	Measurement	100 percentile limit	Exceedance (yes/no)	Date Sampled	Date Obtained	Date Published	Corrected Data	Date Corrected	Reason	Extent of Exceedance	Reason / Context
Point 1	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	N/A	50	N/A	28/03/12	25/06/12	30/06/12					Data excluded as known to be incorrect from mass balance - Retested on the 16th May, 2012
Exhaust stack of the dry scrubber serving the brick kiln	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	93	2000	no	28/03/12	25/06/12	30/06/12					
	Total Solid Particles	mg/m <sup>3</sup>	Yearly	36	100	no	28/03/12	25/06/12	30/06/12					
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	11	50	no	16/05/12	25/06/12	30/06/12					
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	0.91	50	no	8/04/13	3/05/13	1/08/13					
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	101	2000	no	8/04/13	3/05/13	1/08/13					
	Total Solid Particles	mg/m <sup>3</sup>	Yearly	94	100	no	8/04/13	3/05/13	1/08/13					
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly		50									Not tested
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	260	200	yes	18/06/13	2/07/13	29/07/13				130%	Recent Licence variation (30/04/12) introduced a new reference condition of 3% O2 for all stack measurements. Discussions underway with EPA to change this through a licence variation as the site was incorrectly allocated to Group 6 from Group 4.
	Total Solid Particles	mg/m <sup>3</sup>	Yearly		100									Not tested
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	49	50	no	11/06/14	7/07/14	28/08/14					
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	90	200	no	11/06/14	7/07/14	28/08/14					
	Total Solid Particles	mg/m <sup>3</sup>	Yearly	190	100	yes	11/06/14	7/07/14	28/08/14				190%	Recent delivery prior to the last stack test had excessive levels of fine materials which had been carried through with the kiln exhaust gases.
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	23	50	no	18/07/14	31/07/14	28/08/14					
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	100	200	no	18/07/14	31/07/14	28/08/14					
	Total Solid Particles	mg/m <sup>3</sup>	Yearly	25	100	no	18/07/14	31/07/14	28/08/14					
	Hydrogen Flouride	mg/m <sup>3</sup>	Yearly	17	50	no	3/03/15	1/04/15	11/05/15					
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	110	200	no	3/03/15	1/04/15	11/05/15					
	Total Solid Particles	mg/m <sup>3</sup>	Yearly	23	100	no	3/03/15	1/04/15	11/05/15					
	Nitrogen Oxides	mg/m <sup>3</sup>	Yearly	60	200	no	24/04/15	29/04/15	11/05/15					

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From April 2013, all test results need to be corrected to 3% Oxygen

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Point 3	BOD	mg/L	Annual	13	20	no	22/05/12	30/05/12	30/06/12					
Irrigation line from Envirocycle system	Chlorine (free residual)	mg/L	Annual	0.1	2	no	22/05/12	30/05/12	30/06/12					
	TSS	mg/L	Annual	14	30	no	22/05/12	30/05/12	30/06/12					
	pH	pH	Annual	7.26	6.5-8.5	no	22/05/12	30/05/12	30/06/12					
	Faecal Coliforms	colony forming units per 100 ml	Annual	2,600	200	yes	22/05/12	30/05/12	30/06/12				1200% above limit	effluent system servicing inadequate for increased load on system. Servicing frequency increased from 3 to 2 months
	BOD	mg/L	Annual	<2	20	no	20/06/12	29/06/12	6/07/12			retest following system service		
	Chlorine (free residual)	mg/L	Annual	0.3	2	no	20/06/12	29/06/12	6/07/12			retest following system service		
	TSS	mg/L	Annual	160	30	no	20/06/12	29/06/12	6/07/12	<5	11/07/12	Re-analysis of sample due to questionable lab result		
	pH	pH	Annual	7.60	6.5-8.5	no	20/06/12	29/06/12	6/07/12			retest following system service		
	Faecal Coliforms	colony forming units per 100 ml	Annual	<2	200	no	20/06/12	29/06/12	6/07/12			retest following system service. Chlorine system has been doubled in size to account for the extra people visiting the site.		
	BOD	mg/L	Quarterly	4	20	no	6/06/13	13/06/13	29/07/13					
	Chlorine (free residual)	mg/L	Quarterly	0.9	2	no	6/06/13	13/06/13	29/07/13					
	TSS	mg/L	Quarterly	21	30	no	6/06/13	13/06/13	29/07/13					
	pH	pH	Quarterly	7.45	6.5-8.5	no	6/06/13	13/06/13	29/07/13					
	Faecal Coliforms	per 100 ml	Quarterly	20	200	no	6/06/13	13/06/13	29/07/13					
	BOD	mg/L	Quarterly	<2	20	no	9/09/13	23/09/13	25/09/13					
	Chlorine (free residual)	mg/L	Quarterly	0.3	2	no	9/09/13	23/09/13	25/09/13					
	TSS	mg/L	Quarterly	42	30	yes	9/09/13	23/09/13	25/09/13				40% above limit	Solids content in effluent system too high. Solid removal frequency to be increased.
	pH	pH	Quarterly	7.77	6.5-8.5	no	9/09/13	23/09/13	25/09/13					
	Faecal Coliforms	colony forming units per 100 ml	Quarterly	~5	200	no	9/09/13	23/09/13	25/09/13					Microbiological Comment: Membrane filtration results are reported as estimate (~) due to the growth of bacteria on the filter membrane being counted <10cfu and/or >100cfu.
	BOD	mg/L	Quarterly	<2	20	no	17/12/13	30/12/13	22/01/14					
	Chlorine (free residual)	mg/L	Quarterly	1.2	2	no	17/12/13	30/12/13	22/01/14					
	TSS	mg/L	Quarterly	9	30	no	17/12/13	30/12/13	22/01/14					
	pH	pH	Quarterly	7.64	6.5-8.5	no	17/12/13	30/12/13	22/01/14					
	Faecal Coliforms	per 100 ml	Quarterly	<1	200	no	17/12/13	30/12/13	22/01/14					
	BOD	mg/L	Quarterly	<2	20	no	12/03/14	19/03/14	14/04/14					



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Point 4	pH	pH	Daily during any discharge	7.9	6-8	no	19/02/14	21/02/14	11/03/14					
Schofields Clay Quarry Location of Discharge Point	TSS	mg/L	Daily during any discharge	23	50	no	19/02/14	21/02/14	11/03/14					
	pH	pH	Daily during any discharge	8	6-8	no	20/02/14	21/02/14	11/03/14					
	TSS	mg/L	Daily during any discharge	29	50	no	20/02/14	21/02/14	11/03/14					
	pH	pH	Daily during any discharge	7.9	6-8	no	21/02/14	26/02/14	11/03/14					
	TSS	mg/L	Daily during any discharge	7	50	no	21/02/14	26/02/14	11/03/14					
	pH	pH	Daily during any discharge	7.7	6-8	no	22/02/14	26/02/14	11/03/14					
	TSS	mg/L	Daily during any discharge	5	50	no	22/02/14	26/02/14	11/03/14					
	pH	pH	Daily during any discharge	7.9	6-8	no	24/02/14	26/02/14	11/03/14					
	TSS	mg/L	Daily during any discharge	6	50	no	24/02/14	26/02/14	11/03/14					
	pH	pH	Daily during any discharge	8	6-8	no	25/02/14	26/02/14	11/03/14					
	TSS	mg/L	Daily during any discharge	5	50	no	25/02/14	26/02/14	11/03/14					
	pH	pH	Daily during any discharge	8.1	6-8	yes	25/03/14	7/04/14	14/04/14				1.25%	Dam water measurement were within limits - surface water measurement was not because heavy rain contributed to it being out of tolerance with water travelling over alkaline clay surface
	TSS	mg/L	Daily during any discharge	91	50	yes	25/03/14	7/04/14	14/04/14				82.00%	Dam water measurement were within limits - surface water measurement was not because heavy rain contributed to it being out of tolerance
	pH	pH	Daily during any discharge	7.8	6-8	no	26/03/14	7/04/14	14/04/14					

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	TSS	mg/L	Daily during any discharge	57	50	yes	26/03/14	7/04/14	14/04/14				14.00%	Dam water measurement were within limits - surface water measurement was not because heavy rain contributed to it being out of tolerance
	pH	pH	Daily during any discharge	7.8	6-8	no	28/03/14	7/04/14	14/04/14					
	TSS	mg/L	Daily during any discharge	3	50	no	28/03/14	7/04/14	14/04/14					
	pH	pH	Daily during any discharge	7.7	6-8	no	31/03/14	7/04/14	14/04/14					
	TSS	mg/L	Daily during any discharge	6	50	no	31/03/14	7/04/14	14/04/14					
	pH	pH	Daily during any discharge	7.8	6-8	no	1/04/14	7/04/14	14/04/14					
	TSS	mg/L	Daily during any discharge	12	50	no	1/04/14	7/04/14	14/04/14					
	pH	pH	Daily during any discharge	7.3	6-8	no	2/05/14	8/05/14	22/05/14					
	TSS	mg/L	Daily during any discharge	3	50	no	2/05/14	8/05/14	22/05/14					
	pH	pH	Daily during any discharge	7.5	6-8	no	5/05/14	8/05/14	22/05/14					
	TSS	mg/L	Daily during any discharge	14	50	no	5/05/14	8/05/14	22/05/14					
	pH	pH	Daily during any discharge	7.1	6-8	no	6/05/14	8/05/14	22/05/14					
	TSS	mg/L	Daily during any discharge	4	50	no	6/05/14	8/05/14	22/05/14					
	pH	pH	Daily during any discharge	6.2	6-8	no	7/05/14	14/05/14	22/05/14					
	TSS	mg/L	Daily during any discharge	2	50	no	7/05/14	14/05/14	22/05/14					
	pH	pH	Daily during any discharge	6.2	6-8	no	8/05/14	14/05/14	22/05/14					
	TSS	mg/L	Daily during any discharge	4	50	no	8/05/14	14/05/14	22/05/14					

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	pH	pH	Daily during any discharge	5.5	6-8	yes	13/05/14	14/05/14	22/05/14				8.30%	When contractors were releasing water from schofields' quarry dam, the pH measured was 5.5 which is below the site's EPA licence limit. Trained operators trained a new operator who was not given the full information regarding pH lower limit. All operators are to be trained fully in the "releasing dam water " procedure.
	TSS	mg/L	Daily during any discharge	2	50	no	13/05/14	14/05/14	22/05/14					
	pH	pH	Daily during any discharge	6.6	6-8	no	16/07/14	18/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	2	50	no	16/07/14	18/07/14	31/07/14					
	pH	pH	Daily during any discharge	6.5	6-8	no	17/07/14	18/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	1	50	no	17/07/14	18/07/14	31/07/14					
	pH	pH	Daily during any discharge	6.8	6-8	no	17/07/14	18/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	2	50	no	17/07/14	18/07/14	31/07/14					
	pH	pH	Daily during any discharge	6.7	6-8	no	18/07/14	21/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	2	50	no	18/07/14	21/07/14	31/07/14					
	pH	pH	Daily during any discharge	7.0	6-8	no	18/07/14	21/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	3	50	no	18/07/14	21/07/14	31/07/14					
	pH	pH	Daily during any discharge	6.7	6-8	no	23/07/14	24/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	24	50	no	23/07/14	24/07/14	31/07/14					
	pH	pH	Daily during any discharge	7.2	6-8	no	24/07/14	25/07/14	31/07/14					
	TSS	mg/L	Daily during any discharge	5	50	no	24/07/14	25/07/14	31/07/14					

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	pH	pH	Daily during any discharge	7.2	6-8	no	25/07/14	28/07/14	28/08/14					
	TSS	mg/L	Daily during any discharge	3	50	no	25/07/14	28/07/14	28/08/14					
	pH	pH	Daily during any discharge	7.4	6-8	no	24/09/14	21/10/14	17/11/14					
	TSS	mg/L	Daily during any discharge	<5	50	no	24/09/14	21/10/14	17/11/14					
	pH	pH	Daily during any discharge	7.8	6-8	no	20/10/14	21/10/14	17/11/14					
	TSS	mg/L	Daily during any discharge	24	50	no	20/10/14	21/10/14	17/11/14					
	pH	pH	Daily during any discharge	6.8	6-8	no	22/10/14	23/10/14	17/11/14					
	TSS	mg/L	Daily during any discharge	28	50	no	22/10/14	23/10/14	17/11/14					
	pH	pH	Daily during any discharge	7.7	6-8	no	9/12/14	9/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	35	50	no	9/12/14	9/12/14	12/01/15					
	pH	pH	Daily during any discharge	7.3	6-8	no	10/12/14	16/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	42	50	no	10/12/14	16/12/14	12/01/15					
	pH	pH	Daily during any discharge	7.3	6-8	no	11/12/14	16/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	38	50	no	11/12/14	16/12/14	12/01/15					
	pH	pH	Daily during any discharge	7.3	6-8	no	19/12/14	19/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	28	50	no	19/12/14	19/12/14	12/01/15					
	pH	pH	Daily during any discharge	7.2	6-8	no	22/12/14	23/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	8	50	no	22/12/14	23/12/14	12/01/15					
	pH	pH	Daily during any discharge	7.4	6-8	no	23/12/14	23/12/14	12/01/15					
	TSS	mg/L	Daily during any discharge	41	50	no	23/12/14	23/12/14	12/01/15					



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	pH	pH	Daily during any discharge	7.2	6-8	no	14/01/15	16/01/15	30/01/15					
	TSS	mg/L	Daily during any discharge	29	50	no	14/01/15	16/01/15	30/01/15					
	pH	pH	Daily during any discharge	7.1	6-8	no	15/01/15	16/01/15	30/01/15					
	TSS	mg/L	Daily during any discharge	3	50	no	15/01/15	16/01/15	30/01/15					
	pH	pH	Daily during any discharge	7.7	6-8	no	29/01/15	29/01/15	9/02/15					
	TSS	mg/L	Daily during any discharge	42	50	no	29/01/15	29/01/15	9/02/15					
	pH	pH	Daily during any discharge	7.5	6-8	no	5/02/15	9/02/15	10/03/15					
	TSS	mg/L	Daily during any discharge	10	50	no	5/02/15	9/02/15	10/03/15					
	pH	pH	Daily during any discharge	7.0	6-8	no	18/02/15	18/02/15	10/03/15					
	TSS	mg/L	Daily during any discharge	<1	50	no	18/02/15	18/02/15	10/03/15					
	pH	pH	Daily during any discharge	7.4	6-8	no	20/02/15	20/02/15	10/03/15					
	TSS	mg/L	Daily during any discharge	14	50	no	20/02/15	20/02/15	10/03/15					
	pH	pH	Daily during any discharge	7.7	6-8	no	23/02/15	23/02/15	10/03/15					
	TSS	mg/L	Daily during any discharge	9	50	no	23/02/15	23/02/15	10/03/15					
	pH	pH	Daily during any discharge	7.7	6-8	no	23/02/15	24/02/15	10/03/15					
	TSS	mg/L	Daily during any discharge	38	50	no	23/02/15	24/02/15	10/03/15					
	pH	pH	Daily during any discharge	7.4	6-8	no	26/02/15	26/02/15	10/03/15					



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**Boral CSR Bricks Pty Limited- Schofields EPA Monitoring Points**