



Wyee Roof Tiles

Environmental Monitoring

1 November 2015- 31 October 2016
Reporting Period



Wye Roof Tiles Environmental Monitoring Report

This monitoring report is to satisfy the requirements of Section 66 (6) of the Protection of the Environment and Operations Act 1997, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 2702 (EPL 2702 – Boral Wye Roof Tiles).

This report provides environmental monitoring data for Wye Roof Tiles for the 1 November 2015 – 31 October 2016 reporting period. This report is reviewed monthly during the reporting period and updated if required.

Wye Roof Tiles Information	
Premise Details	Boral – Wye Roof Tiles
Address	288 Tooheys Road East, Bushells Road, Wye NSW, 2259
Licensee	Boral Montoro Pty Ltd
EPL N ^o	2702
EPL Location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=109773&SYSUID=1&LICID=2702

Monitoring data in this report relates to the monitoring undertaken during the annual reporting period for the following environmental pollutants:

- Water Quality
- Water Volume
- Air Quality

Wyee Roof Tiles Environmental Monitoring Report

EPL 2702 Monitoring Locations

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Kiln scrubber stack	Kiln scrubber stack	Kiln scrubber stack as shown on site drawing dated 23 August 1999 attached to LIF
6		Drier stacks	Drier exhaust stacks as shown on site drawing dated 23 August 1999 attached to LIF

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1		Discharge to land	Triangular bushland area in the north east corner of the premises bounded by the premises boundary to the north and east and by the loop road, tile storage area and envirocycle dam to the west and south west
2	Effluent quality monitoring		Envirocycle dam
3	Total volume monitoring		Outlet of envirocycle dam
7	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Outlet of pipe from flocculation basin, as shown on Figure 3.1 of the "Wyee Tile Plant Water Management Plan", prepared by ERM, dated January 2004.

Water Monitoring

- 1) Water Quality Monitoring is conducted as per condition M2.3 and M2.4 of EPL 2702. The water quality results for the reporting period are tabled below.

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

Wyee Roof Tiles Environmental Monitoring Report

Point 2

Results				
Location	Report date	BOD (mg/L)	pH	TSS (mg/L)
2	2/02/16	<2	7.35	13
2	27/04/16	<2	6.97	<5
2	29/07/16	<2	6	<5
2	20/10/16	17	6.77	17

Point 7*

Results					
Location	Sampling Date	Results Received	pH (limit 6-8)	TSS (mg/L) Limit 50	Oil & Grease (mg/L) Limit 5

*Nil discharge via outlet pipe of flocculation basin as defined in EPL.

L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- liquids discharged to water; or;
 - solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
1	litres per day	7500

This point relates to the irrigation (discharge to land) of envirocycle water within the approved area which currently is logged daily. The current capacity of the irrigation pumps cannot exceed the daily volume with the typical maximum when irrigating 4000L per day. Should day by day volumes be required please contact the site directly on (02) 4399 8668.

Wyee Roof Tiles Environmental Monitoring Report

Air Quality

- 1) Air Quality Monitoring is conducted as per condition M2.2 of EPL 2702. The air quality results for the reporting period are tabled below.

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Fluoride	milligrams per cubic metre	Yearly	TM-9
Nitrogen Oxides	grams per cubic metre	Yearly	TM-11
Sulphur dioxide	milligrams per cubic metre	Yearly	TM-4
Sulphur trioxide	milligrams per cubic metre	Yearly	TM-3
Total Solid Particles	milligrams per cubic metre	Yearly	TM-15

Test date: 19 July 2016

Assured Monitoring Group (AMG) conducted source emissions monitoring at the Boral Roofing facility located at Wyee, NSW on the 19th & 20th July 2016.

A summary of results is presented below, for further details please refer to the body of this report. **No licence limit breaches were recorded.**

Table 3: Summary of results – Kiln stack (EPA Point 4)

Release Point Parameter	Unit of Measure	Kiln stack - EPA Point 4	Licence Limit
Date of testing	dd-mm-yy	19/07/2016	-
Average exhaust Velocity	m/sec	17	-
Average stack temperature	°C	151	-
Moisture	%	5.2	-
Dry standard stack flow rate	Nm ³ /sec	7.8	-
Total solid particulates	mg/Nm ³	24	250
emission rate	g/sec	0.19	-
PM ₁₀	mg/Nm ³	6.8	-
emission rate	g/sec	0.053	-
Sulphur dioxide	mg/Nm ³	29	-
emission rate	g/sec	0.23	-
Sulphur trioxide (as H ₂ SO ₄)	mg/Nm ³	6.7	-
emission rate	g/sec	0.053	-
Carbon monoxide	mg/Nm ³	33	-
emission rate	g/sec	0.25	-
Oxides of nitrogen (NO ₂)	g/Nm ³	0.055	2.5
emission rate	g/sec	0.43	-
Total Fluorides	mg/Nm ³	10	50
emission rate	g/sec	0.079	-

NOTE: To access a full copy of this when available and previous reports please refer to the *Boral NSW Operations - Environmental Reporting* webpage at:

<https://www.boral.com.au/our-commitment/environmental-reporting>