

Permit Number: EPR/BX72821S
Facility: Magor Brewery
Date of form 19/07/11

Operator: Inbev UK Ltd
Form Number: A2.

Reporting of emissions to air for the period from 1st January 2017 to 31st December 2017

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/certification ^[4]	Uncertainty ^[5]
		Limit Value						
A8	Oxides of nitrogen as NO2	500		431	BS EN 14792	23 rd March 2017 10.25-11.25	Moerts MC 050056/00	53
	Carbon monoxide	650		598	BS EN 15058	23 rd March 2017 10.25-11.25	Moerts MC 050056/00	65
	Sulphur Dioxide	80		6.2	BS EN 14791	23 rd March 2017 10.25-11.25	Moerts MC 050056/00	.75
	Oxides of nitrogen as NO2	500		427	BS EN 14792	14 th June 2017 9.55-10.55	Moerts MC 050056/00	53
	Carbon monoxide	650		618	BS EN 15058	14 th June 2017 9.55-10.55	Moerts MC 050056/00	66
	Sulphur Dioxide	80		2.2	BS EN 14791	14 th June 2017 9.55-10.55	Moerts MC 050056/00	.28
	Oxides of nitrogen as NO2	500		322	BS EN 14792	21 st Sept 2017 11.02-12.02	Moerts MC 050056/00	49
	Carbon monoxide	650		642	BS EN 15058	21 st Sept 2017 11.02-12.02	Moerts MC 050056/00	62
	Sulphur Dioxide	80		9.3	BS EN 14791	21 st Sept 2017 11.02-12.02	Moerts MC 050056/00	1.2
	Oxides of nitrogen as NO2	500		328	BS EN 14792	14 th Dec 2017 12.50-13.50	Moerts MC 050056/00	52
	Carbon monoxide	650		648	BS EN 15058	14 th Dec 2017 12.50-13.50	Moerts MC 050056/00	70
	Sulphur Dioxide	80		3.5	BS EN 14791	14 th Dec 2017 12.50-13.50	Moerts MC 050056/00	.48

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Carl Rogers.
(Authorised to sign as representative of Inbev UK Ltd)

Date.....30/01/18....

Permit Number: EPR/BX72821S
Facility: Magor Brewery

Operator: Inbev UK Ltd
Form Number: E2. Date of form

19/07/11

Reporting of Energy Generation for the year 1st January 2017 to 31st December 2017

Energy Source	Energy Usage		Energy generated/m ³ biogas (MWh/m ³)
	Quantity		
Electricity generation	2008 MWh		0.001
Heat generated	2639 MWh		0.002
TOTAL			

Operator's comments :

Signed Carl Rogers.....
(Authorised to sign as representative of Operator)

Date.....30/1/18.....

Form Number: R1

Reporting of Waste Disposal and Recovery for the year Jan 1st 2017 to December 31st 2017

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Named haz. Waste	Biffa Waste Management	9.88	9.38
Other hazardous wastes			
Total hazardous waste			
2) Non-Hazardous Wastes			
Named non-haz. Waste	Biffa Waste Management and N-virocycle	23984.02	23984.02
Other non-hazardous wastes			
Total non-hazardous waste			
TOTAL WASTE		23993.9	23993.4

Year	Named Waste	Total Waste	Waste per unit output
2005	33228	33562	Report on P11
2006	12961	12961	Report on P11
2007	16383	16383	Report on P11
2008	15801	15801	Report on P11
2009	16623	16623	Report on P11
2010	25378	25378	Report on P11
2011	32314	32314	Report on P11
2012	28122	28122	Report on P11
2013	19823	19823	Report on P11
2014	20327	20327	Report on P11
2015	19948	19448	Report on P11
2016	20367	20367	Report on P11
2017	23984	23993	

Operator's comments :

This waste is inclusive of sludge from our WWTP and onsite waste kiesulguhr tanks.
This waste figure is also inclusive of all site projects (including CDM which are governed through waste management plans). Initiatives for 2018 include de-watering of effluent sludge.

Signed Carl Rogers.....
(authorised to sign as representative of the Operator)

Date.....30/1/18.....

Form Number: WU1

Reporting of Water Usage for the year Jan 1st 2017 to December 31st 2017

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Spring water	1747454	3.66
Mains water	23466	0.05
TOTAL WATER USAGE	1770920	3.71

Trends in Water Usage Parameter			
Year	Spring Water Source	Mains Water Source	Total Water usage
2005	2197934	16813	2214747
2006	2324340	13139	2337479
2007	2303437	17217	2320654
2008	2063466	19462	2082928
2009	1934551	21173	1955724
2010	2487347	29020	2516367
2011	1929724	35197	1964921
2012	1598898	38003	1636901
2013	1704598	41397	1745995
2014	1721398	35496	1756894
2015	1696846	47770	1744616
2016	1774673	24840	1799513
2017	1747454	23466	1770920

Operator's comments :

Water usage is one of the global better world agendas.
Site water KPI's are reduced n an annual basis in line with global goals.

Carl Rogers..... Date..... 30/1/18
(authorised to sign as representative of the Operator)

Form Number: E1

Reporting of Energy Usage for the year Jan 1st 2017 to December 31st 2017

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	41085	98605	14444
Natural Gas	115300	115300	21233
Gas Oil	0	0	0
TOTAL	156386	213905	35677

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2005	229412	43030	Report on PI1
2006	227217	42470	Report on PI1
2007	234066	43253	Report on PI1
2008	218651	40094	Report on PI1
2009	206460	38506	Report on PI1
2010	222367	42261	Report on PI1
2011	214616	39697	Report on PI1
2012	198037	35880	Report on PI1
2013	185342	33131	Report on PI1
2014	190552	34119	Report on PI1
2015	194611	35095	Report on PI1
2016	205947	37036	Report on PI1
2017	222122	35677	Report on PI1

Operator's comments :

Production volumes increased in 2017, and the move to greater volumes of Budweiser (versus standard Stella products) requires a more energy intensive mix.

The site is heavily focussed on better world targets including electricity and heat. 2018 Capex initiatives have been highlighted in the EMS documentation.

Signed Carl Rogers.....
(authorised to sign as representative of the Operator)

Date.....30/1/18.....

Reporting of Performance Indicators for the year Jan 1st 2017 to December 31st 2017

	Annual Production/Treatment
Production of beers and lagers	481300 tonnes

Environmental Performance Indicators

[illegible]

Trends in Environmental Performance							
Year	Parameter		COD	Water Use	Energy Use	CO ₂	Waste
	BOD		kg/tonne	m ³ /tonne	kWh/tonne	tonne/tonne	tonne/tonne
2005	kg/tonne		0.450	4.86	504	0.020*	0.074
2006			0.256	5.31	516	0.021*	0.029
2007			0.306	5.90	600	0.024	0.042
2008			0.378	5.67	596	0.019	0.043
2009			0.27	4.63	489	0.020	0.039
2010			0.33	5.58	493	0.095	0.056
2011			0.27	4.57	499	0.092	0.069
2012			0.22	4.07	508	0.092	0.070
2013			0.162	4.31	457	0.08	0.050
2014			0.172	3.98	431	0.08	0.046
2015			0.27	3.81	425	0.076	0.043
2016			0.158	3.70	429	0.077	0.042
2017	048		0.098	3.71	429	0.0253	0.049

Operator's comments :

Signed Carl Rogers.....
(authorised to sign as representative of the Operator)

Date.....30/01/18.....

Form Number: MR1

Reporting of Mass Release for the year Jan 1st 2017 to December 31st 2017.

Mass Release Parameter	kg/annum
Ammonia (refrigerant)	0

Trends in Mass Release	
Year	Parameter
	Ammonia (kg/annum)
2005	1000
2006	4000
2007	1000
2008	1000
2009	1000
2010	1000
2011	0
2012	1060
2013	0
2014	0
2015	0
2016	0
2017	0

Operator's comments :

Signed Carl Rogers.....
(authorised to sign as representative of the Operator)

Date 30/01/18.....

