

Permit Number: EP3230BW

Operator: Envirowales Limited

Facility: Rassau Recycling Facility

Form Number: Air1 / 02/11/17

Reporting of emissions to air for the period from 01/01/2018 to 31/12/2018

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	Sulphuric acid mist	1 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.52	US EPA Method 8	28/9/2018 15:00-16:04	13%
A1	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	1.89	BS EN 13284-1	28/9/2018 13:18-14:22	5%
A1	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0026	BS EN 14385	27/9/2018 16:00-18:04	6%
A1	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.31	BS EN 14385	03/5/2018 11:20-13:34	11%
A2	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	2.61	BS EN 13284-1	12/9/2018 13:45-14:45	11%
A2	Dust	5 mg/m ³	Monthly average	3	BS EN 13284-1 and EN 14181		

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A2	Dust	10 mg/m ³	Daily average	4	BS EN 13284-1 and EN 14181		
A2	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	41.26	BS EN 14791	01/5/2018 17:15-18:45	4%
A2	Sulphur dioxide	500 mg/m ³	Monthly average	12	BS EN 14181		
A2	Sulphur dioxide	500 mg/m ³	Daily average	26	BS EN 14791		
A2	Hydrogen chloride	10 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.17	BS EN 1911	01/5/2018 16:30-17:30	1%
A2	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.016	BS EN 14385	12/9/2018 11:00+13:00	7%
A2	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.37	BS EN 14385	01/5/2018 13:17-15:17	9%
A2	Dioxins and furans (ITEQ)	0.1 ng/m ³	Periodic over minimum 6 hours, maximum 8 hour period	0.006	BS EN 1948 Parts 1, 2 and 3	11/9/2018 10:40-16:40	14%
A2	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period	18.49	BS EN 14792	12/9/2018 13:25-14:55	3%
A2	Oxides of nitrogen	100 mg/m ³	Monthly average	44	BS EN 14181		

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A2	Oxides of nitrogen	200 mg/m ³	Daily average	57	BS EN 14181		
A2	Carbon monoxide	1000 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period	980.18	BS EN 15058	01/5/2018 17:15-18:45	2%
A2	Carbon monoxide	1000 mg/m ³	Monthly average	639	BS EN 15267-3 and EN 14181		
A2	Volatile organic compounds (as Carbon)	50 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period	48.10	BS EN 12619	01/5/2018 17:15-18:14	4%
A2	Volatile organic compounds (as Carbon)	50 mg/m ³	Monthly average	21	BS EN 12619		
A2	Volatile organic compounds (as Carbon)	100 mg/m ³	Daily average	33	BS EN 12619		
A3	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	2.13	BS EN 13284-1	02/5/2018 14:17-15:17	15%
A3	Dust	5 mg/m ³	Monthly average	1	BS EN 13284-1 and EN 14181		
A3	Dust	10 mg/m ³	Daily average	2	BS EN 13284-1 and EN 14181		
A3	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	9.51	BS EN 14791	01/5/2018 13:15-14:44	4%
A3	Hydrogen chloride	10 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.85	BS EN 1911	13/9/2018 12:20-13:20	13%

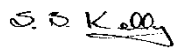
Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A3	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.078	BS EN 14385	13/9/2018 09:37-11:37	6%
A3	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.15	BS EN 14385	13/9/2018 09:37-11:37	8%
A3	Dioxins and furans (ITEQ)	0.1 ng/m ³	Periodic over minimum 6 hours, maximum 8 hour period	0.0031	BS EN 1948 Parts 1, 2 and 3	01/5/2018 10:48-16:48	20%
A3	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	2.08	BS EN 15267	11/09/2018 14:10-15:40	2%
A3	Carbon monoxide	150 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	14.57	BS EN 15058	11/09/2018 14:10-15:40	3%
A3	Volatile organic compounds (as Carbon)	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	11.60	BS EN 12619	01/5/2018 13:25-14:24	4%
A4	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	2.49	BS EN 13284-1	30/4/2018 15:15-13:20	15%
A4	Dust	5 mg/m ³	Monthly average	1	BS EN 13284-1 and EN 14181		
A4	Dust	10 mg/m ³	Daily average	1	BS EN 13284-1 and EN 14181		

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A4	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.005	BS EN 14385	30/4/2018 14:30-16:36	5%
A4	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.3	BS EN 14385	30/4/2018 14:30-16:36	9%
A5	Sulphur dioxide	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	31.67	BS EN 14791	30/4/2018 15:51-17:20	4%
A5	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	93.92	BS EN 15267	10/9/2018 15:43-17:12	4%
A5	Carbon monoxide	150 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	17.33	BS EN 15058	30/4/2018 15:51-17:20	4%
A5	Volatile organic compounds (as Carbon)	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	9.21	BS EN 12619	30/4/2018 16:01-17:00	3%
A6	Lead and its compounds expressed as Pb	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 14385		
A6	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 13284-1		
A6	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 14791		

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A6	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 15267		
A7	Dust	No visible emission	N/A	No visible emission	N/A		
A8	Dust	No visible emission	N/A	No visible emission	N/A		
Ambient air monitor located at Garnlydan School at 316600, 212400	Particulate matter	N/A	Continuous	249 µg/m ³	EN12341:2014		
Ambient air monitor located at Garnlydan School at 316600, 212400	Lead	N/A	Continuous	0.053µg/m ³	EN12341:2014		

- [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 Natural Resources Wales 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:



Date: 31/01/19

(Authorised to sign as representative of Operator)