

Permit Number: EA/EPR/BK3638IF/V002

Operator:

Hydro Aluminium Deeside

Facility: Wrexham Aluminium Works

Form Number: Air1b

Reporting of emissions to air for the period from 01/07/19 to 31/12/19

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
A1	Particulates	-	4 hour average	0.4 mg/m ³	BS EN 13284-1	26/11/19, 11:03 – 16:36	1.3 mg/m ³
A1	Sulphur Dioxide	25 mg/m ³	2 hour average	0.16 mg/m ³	BS EN 14791	27/11/19, 12:10 – 14:10	0.12 mg/m ³
A1	Volatile Organic Compounds	20 mg/m ³	Hourly average	4.5 mg/m ³	BS EN 13526	26/11/19, 17:00 – 21:00	1.4 mg/m ³
A1	Gaseous Fluorides (as HF)	1 mg/m ³	Hourly average	0.02 mg/m ³	BS ISO 15713	26/11/19, 13:55 – 15:55	0.02 mg/m ³
A1	Hydrogen Chloride	10 mg/m ³	Hourly average	1.6 mg/m ³	BS EN 1911	26/11/19, 11:45 – 13:45	0.2 mg/m ³
A1	Dioxins	0.1 ng/m ³	4 hour average	0.001 ng/m ³	BS EN 1948	27/11/19, 09:56 – 13:56	0.002 ng/m ³
A1	Carbon Monoxide	100 mg/m ³	Hourly average	5.8 mg/m ³	BS EN 15058	26/11/19, 17:00 – 21:00	5.2 mg/m ³
A1	Oxides of Nitrogen	60 mg/m ³	Hourly average	3.5 mg/m ³	BS EN 14792	26/11/19, 17:00 – 21:00	2.9 mg/m ³

Signed ...Joel Priest
(Authorised to sign as representative of Operator)

Date.....30/01/2020.....

Results have been corrected as per condition 3.1.4

Permit Number: EA/EPR/BK3638IF/V002

Operator:

Hydro Aluminium Deeside

Facility: Wrexham Aluminium Works

Form Number: Air1c

Reporting of emissions to air for the period from 01/07/19 to 31/12/19

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
A12	Particulates	-	4 hour average	0.17 mg/m ³	BS EN 13284-1	26/11/19, 11:03 – 16:36	0.73 mg/m ³
A12	Sulphur Dioxide	25 mg/m ³	2 hour average	0.37 mg/m ³	BS EN 14791	27/11/19, 12:15 – 14:15	0.14 mg/m ³
A12	Volatile Organic Compounds	20 mg/m ³	Hourly average	8.3 mg/m ³	BS EN 13526	26/11/19, 12:30 – 16:30	1.7 mg/m ³
A12	Gaseous Fluorides (as HF)	1 mg/m ³	Hourly average	0.2 mg/m ³	BS ISO 15713	26/11/19, 11:50 – 13:50	0.04 mg/m ³
A12	Hydrogen Chloride	10 mg/m ³	Hourly average	0.18 mg/m ³	BS EN 1911	26/11/19, 14:00 – 16:00	0.17 mg/m ³
A12	Dioxins	0.1 ng/m ³	4 hour average	0.0016 ng/m ³	BS EN 1948	27/11/19, 09:58 – 14:00	0.0004 ng/m ³
A12	Carbon Monoxide	100 mg/m ³	Hourly average	44.8 mg/m ³	BS EN 15058	26/11/19, 12:30 – 16:30	5.2 mg/m ³
A12	Oxides of Nitrogen	60 mg/m ³	Hourly average	10.1 mg/m ³	BS EN 14792	26/11/19, 12:30 – 16:30	2.9 mg/m ³

Signed ...Joel Priest.....
(Authorised to sign as representative of Operator)

Date.....30/01/2020.....

Results have been corrected as per condition 3.1.4

Permit Number: EA/EPR/BK3638IF/V002

Operator:

Hydro Aluminium Deeside

Facility: Wrexham Aluminium Works

Form Number: Air1d

Reporting of emissions to air for the year2019.....

Emission							
Emission Point	Substance / Parameter	Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
A13	Particulates	-	4 hour average	3.78 mg/m ³	BS EN 13284-1	28/11/19, 10:05 – 14:44	0.42 mg/m ³
A13	Carbon monoxide	150mg/m ³	Hourly average	0.7 mg/m ³ (Actual result: result minus uncertainty = -4.4 mg/m ³)	BS EN 15058	28/11/19, 10:05 – 14:05	5.1 mg/m ³
A13	Oxides of nitrogen	60mg/m ³	Hourly average	10.0 mg/m ³	BS EN 14792	28/11/19, 10:05 – 14:05	2.0 mg/m ³

Signed ...Joel Priest.....
(Authorised to sign as representative of Operator)

Date.....30/01/2020.....