Permit Reference Number : BX9455IF

Operator : Hydro Aluminium Extrusion Limited

Installation ; Hydro Aluminium Extrusion, Bedwas Plant

Form Number : E1

Reporting of Energy Usage for the year 2017

Energy Usage			
Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	CO_2 Produced (tonnes)
Electricity *	MWh	4120	684
Natural Gas	tonnes	3102	589
Gas Oil	tonnes		
Heavy Fuel Oil	tonnes		
TOTAL	-		

*** Conversion factor for delivered electricity to primary energy =** 2·4

Trends in Energy Usage		
Year	Parameter	
	Primary Energy usage	CO_2 produced
2010		
2011	32077	5512
2012	29515	5032
2013	27689	4735
2014	1242	131
2015	7528	1285
2016	3009	365
2017	7222	1273

Operator's comments :

Production started mid 2017. Production levels / throughput have increased slowly during 2017.

Signed Ruth Creaming

(authorised to sign as representative of the Operator)

Date 12/01/18

Permit Reference Number : BX9455IF

Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : WU1

Reporting of Water Usage for the year ...2017.....

Water Usage		
Water Source	**Usage (m^3)**	**Specific Usage (m^3/t)**
Mains water	8201	
Site borehole	—	
River abstraction	—	
TOTAL WATER USAGE	8201.	

Trends in Water Usage		
Year	**Parameter**	
	Named Water source (Mains)	**Total Water usage**
2013.	36379	
2014.	3270	
2015	3975	
2016	5804	
2017.	8201.	

Operator's comments :

Production started mid 2017. Production levels / throughput have increased slowly during 2017.

Signed Ruth Greaving.....

(authorised to sign as representative of the Operator)

Date 12/01/18.....

Permit Reference Number : BX9455IF

Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : R1

Reporting of Waste Disposal and Recovery for the year 2017

Waste Disposal & Recovery			
Waste Description	**Disposal Route**	**Disposal Tonnes**	**Recovery Tonnes**
1) Hazardous Wastes			
Named haz. Waste			
Other hazardous wastes			
Total hazardous waste	See Over	14.62.	
2) Non-Hazardous Wastes			
Named non-haz. Waste	Landfilled	47.11.	
Other non-hazardous wastes	Recycled	279.38	
Total non-hazardous waste			
TOTAL WASTE	-		

Trends in Waste Disposal and Recovery		
Year	**Parameter**	
	Named Waste	**Total Waste**
2010		
2011		366
2012		379.6
2013		370.81
2014		223.14
2015		266.69
2016		486.5
2017		341.11

Operator's comments :

Still some decommissioning activities on site. Anodising process restarted during 2017.

Signed Ruth Greening **Date** 10/01/18

(authorised to sign as representative of the Operator)

Hazardous waste	Tonnes	Disposal route
20 01 21	0·083	R05
17 06 05	2·780	D05
12 01 14	1·4	D15
15 02 02	1·2	D15
17 04 09	0·3	D15
16 11 03	0·7	D15
12 01 20	3·2	D15
13 03 09	0·2	D15
13 05 03	4·760	D13

Permit Reference Number : BX9455IF

Operator : Hydro Aluminium Extrusion Limited

Installation : Hydro Aluminium Extrusion, Bedwas Plant

Form Number : S1

Reporting of Emissions to Sewer for the period from 01/01/17 **to** 31/12/17

Emissions to Sewer

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty [5]
S1	Aluminium mg/l	Not applicable	26.4	MENTAM ISBN 0117532444	25/05/17 11:00	UKAS 1314	10.0%
S1	Cadmium and its compounds	0.01 mg/l [6]	<0.0006	ISBN 0117532444	25/05/17 11:00	UKAS 1314	6.6%
S1	Cadmium and its compounds	0.01 kg/year [7]	0.0047	ISBN 0117532444	25/05/17 11:00	UKAS 1314	6.6%
S1	Chromium (total)	1.0 mg/l [6]	0.1	ISBN 0117532444	16/10/17 10:30	UKAS 1314	7.6%
S1	Copper	1.0 mg/l [6]	0.1	ISBN 0117532444	14/08/17 10:10	UKAS 1314	7.2%
S1	Lead	1.0 mg/l [6]	0.2	ISBN 0117532444	20/07/17 10:30	UKAS 1314	7.0%
S1	Mercury and its compounds	0.005 mg/l [6]	<0.00001	ISBN 0117519073	08/11/17 12:00	UKAS 1314	7.7%
S1	Mercury and its compounds	0.02 kg/year [7]	0.00007	ISBN 0117519073	08/11/17 12:00	UKAS 1314	7.7%
S1	Nickel	1.0 mg/l [6]	0.1	ISBN 0117532444	07/06/17 10:00	UKAS 1314	7.1%
S1	Zinc	2.0 mg/l [6]	0.1	ISBN 0117532444	24/02/17 10:00	UKAS 1314	6.3%
S1	pH	Not less than 6 and not greater than 11	10.35	ISBN 0117514284	06/12/17 11:00	UKAS 1314	0.1 pH
S1	Flow	Not applicable					

[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 Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[6] The emission limit values for cadmium and its compounds, chromium, copper, lead, mercury and its compounds, nickel and zinc are expressed as a maximum individual value.

[7] The emission limit values for cadmium and its compounds and mercury and its compounds are expressed as a maximum annual value.

Signed Ruth Greening **Date** 12/01/18

(authorised to sign as representative of the Operator)