

Permit Reference Number: BX9455IF

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: R1

Reporting of Waste Disposal and Recovery for the year .....2018.....

Waste Disposal & Recovery			
Waste Description	Disposal		Recovery Tonnes
	Route	Tonnes	
1) Hazardous Wastes			
Named haz. Waste			
Other hazardous wastes			
Total hazardous waste	See Over	191.54	
2) Non-Hazardous Wastes			
Named non-haz. Waste	Landfilled	101.63	
Other non-hazardous wastes	Recycled	248.763	
Total non-hazardous waste			
TOTAL WASTE	.		

Trends in Waste Disposal and Recovery			
Year	Parameter	Named Waste	Total Waste
2015			266.69
2016			486.5
2017			341.11
2018			541.933
2019			
2020			
2021			
2022			
2023			

Operator's comments :

Production levels steady throughout 2018, full year production.  
Building works taking place to site to improve site.

Signed Rajanna C. Sones  
(authorised to sign as representative of the Operator)

Date 30/01/2019

<u>Hazardous Waste</u>	<u>Tonnes</u>	<u>Disposal Route</u>
13 05 03	29.53	D13
15 02 02	2.6	D15
16 11 03	0.5	D15
16 03 05	18.774	D15
13 08 02	5.6	D15
06 02 04	47.98	D09
11 01 14	62.22	D09
16 01 06	21.94	D09
16 02 13	2.4	D15

Permit Reference Number: BX94551F

Operator: Hydro Extrusion UK Limited

Installation: Bedwas Plant

Form Number: E1

Reporting of Energy Usage for the year .....2018.....

Energy Source	Energy Usage		CO <sub>2</sub> Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	5320.3	1505.64
Natural Gas	tonnes	6236.8	1141.88
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 <sub>2</sub> produced
2015		7528	1285
2016		3009	365
2017		7222	1273
2018		11557.1	2647.52
2019			
2020			
2021			
2022			
2023			

Operator's comments :

Production levels steady throughout 2018, full year production.

Signed Rhian Cliss-Jones  
(authorised to sign as representative of the Operator)

Date 30/01/2019

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Installation: Bedwas Plant

Form Number: WU1

Reporting of Water Usage for the year .....2018.....

Water Usage		
Water Source	Usage (m <sup>3</sup> )	Specific Usage (m <sup>3</sup> /ft)
Mains water	2886	
Site borehole		
River abstraction		
TOTAL WATER USAGE	2886	

Trends in Water Usage		
Year	Parameter Named	Total Water usage
2015	Water source (Mains)	
2016	3975	
2017	5804	
2018	8201	
2019	2886	
2020		
2021		
2022		
2023		

Operator's comments :

Production levels steady throughout 2018, full year production.

Figure taken from water bills, current awaiting a rebate from the water company. (Water readings taken across 3 different meters.)

Signed Ramona Cuss-Sones  
(authorised to sign as representative of the Operator)

Date 30/01/2019

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Installation: Bedwas Plant

Form Number: S1

Reporting of Emissions to Sewer for the year .....2018.....

Emissions to Sewer						
Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/Certification <sup>[4]</sup>
S1	Aluminium	Not applicable	17.1mg/l	ISBN 0117532444	05/12/2018 11.14	UKAS 1314
S1	Cadmium and its compounds	0.01 mg/l <sup>[6]</sup>	<0.0006	ISBN 0117532444	23/05/2018 15.00	UKAS 1314
S1	Cadmium and its compounds	0.01 kg/year <sup>[7]</sup>	0.0069	ISBN 0117532444	23/05/2018 15.00	UKAS 1314
S1	Chromium (total)	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	26/11/2018 11.00	UKAS 1314
S1	Copper	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	19/03/2018 10.19	UKAS 1314
S1	Lead	1.0 mg/l <sup>[6]</sup>	0.2	ISBN 0117532444	13/02/2018 12.15	UKAS 1314
S1	Mercury and its compounds	0.005 mg/l <sup>[6]</sup>	<0.00001	ISBN 0117519073	23/05/2018 15.00	UKAS 1314
S1	Mercury and its compounds	0.02 kg/year <sup>[7]</sup>	0.0011	ISBN 0117519073	23/05/2018 15.00	UKAS 1314
S1	Nickel	1.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	26/01/2018 10.58	UKAS 1314
S1	Zinc	2.0 mg/l <sup>[6]</sup>	0.1	ISBN 0117532444	19/03/2018 10.30	UKAS 1314
S1	pH	Not less than 6 and not greater than 11	9.7	ISBN 0117514284	26/01/2018 10.5800	UKAS 1314
S1	Flow	Not applicable				

<sup>[1]</sup> 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.

<sup>[2]</sup> 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.

<sup>[3]</sup> 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.

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

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

<sup>[6]</sup> 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.

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

Signed Rhann Ciss-Sones  
(authorised to sign as representative of the Operator)

Date 30/01/2019

