

Permit Number: EPR/XP3830UR Operator: The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery Form Number: WaterUsage1 / 21/07/2020

Reporting of Water Usage for the year 01 January – 31 December 2020

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Potable water	289,896	10.5 m ³ /tonne
Non potable water	170,149	4.52m ³ /tone
TOTAL WATER USAGE	460,045	12.24m³/tonne

Operator's comments:

Non-potable water refers to water extracted from the cheese making process which is used within the production system

Cheese produced in 2020 = 37,362 Tonnes

Signed
(authorised to sign as representative of Operator)

Date..... 13 February 2021

Permit Number: EPR/XP3830UR

Operator: The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery

Form Number: Performance1 / 21/07/2020

Reporting of other performance indicators for the period 01 January to 31 December 2020

Parameter	Units
Total raw material used	341,875.29 tonnes of milk
Waste disposal and/or recovery	119.76 tonnes Gas reported by contractor and WT Sheets)
Mass of ammonia released to water	49.77 kg
Mass of refrigerants released	0 (zero) tonnes
Annual report with the amount of nitrates, suspended solids and phosphates reduced from the nutrient efficiency (offset) scheme	*see note below

Operator's comments:

Conversion of litres to tonnes – use specific gravity of 1.03

Figures based on data from ETP as listed in table (water information)

All R22 gas has been removed and from site and replaced with an alternative product

*Data with regards to the Nutrient offset scheme will be provided in their annual report which is sent direct to NRW by our membership team manager

Signed
(Authorised to sign as representative of Operator)

Date... 18 February 2021

Permit Number: EPR/XP3830UR Operator: The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery Form Number: Energy1 / 21/07/2020

Reporting of Energy Usage for the year 01 January – 31 December 2020

Energy Source	Energy Usage		Primary Energy (MWh)	Specific Usage (MWh/unit output)
		Quantity		
Electricity *		MWh	Delivered: 8445,654 MW Primary. 21,114.13 MW	1.22 MWh / per tonne of cheese
CHP Electricity**		MWh	Delivered 1,521.00 MW Primary 3,802.4 MW	This has only been operated intermittently over the past 3 months of 2020
Natural Gas		MWh	Delivered 36,358.5 MW Primary 44,357.3 MW	0.97MWh / per tonne of cheese
TOTAL		-	(Delivered) 46,325.15 (Primary) 69273.43	1.23MWh / per tonne of cheese* (*does not include CHP power as this has run intermittently over last 3 months)

Conversion factor for delivered electricity to primary energy = 2.5
Conversion factor delivered gas to primary energy = 1.2

Operator's comments:

** CHP came on line for commissioning and "bedding in" purposes in mid October 2020, we anticipate the first unbroken month of operation in January 2021
Have converted CHP generated electricity to primary energy but wasn't fully sure of the requirement.

Cheese produced in 2020 = 37,362 tonnes

Signed  Date: 18 February 2020

(Authorised to sign as representative of Operator)

Permit Number: EPR/XP3830UR
Facility: Haverfordwest Creamery

Operator:
Form Number:

The First Milk Cheese Company Limited
Water1 / 21/07/2020

Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2020 to 31/12/2020

Emission Point	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
	Substance / Parameter	Limit Value					
W2	Maximum daily discharge volume	2500 m ³ /day	Total daily volume	1985m3	Flow meter	2/9/20	Rated +/- 0.5% & Actual @ 100m3/h = + 0.06% / -0.07%
	Maximum rate of discharge	120 m ³ /hr	Instantaneous	116m3/h	Flow meter	2/9/20	Rated +/- 0.5% & Actual @ 100m3/h = + 0.06% / -0.07%
	Temperature	35 °C	Absolute maximum	29.7 Measured and uncertainty not applied	Standard thermocouple	13/8/20	0.08%
	Biochemical oxygen demand	40 mg/L 20 mg/L	Absolute maximum 95 th percentile ^[5]	4 mg/l & 3 mg/l Measured, and uncertainty not applied	BS EN 1899-1	2/12/20 & 23/10/20	23.6%
	Total suspended solids	60 mg/L 30 mg/L	Absolute maximum 95 th percentile ^[5]	8.66 mg/l & 5.51 mg/l Measured, and uncertainty not applied	BS EN 872	2/12/20 & 8/12/20	11.39%
	Ammonia	10 mg/L 3.5 mg/L	Absolute maximum 95 th percentile ^[5]	0.87 mg/l & 0.33 mg/l Measured, and uncertainty not applied	BS EN ISO 11732	28/12/20 & 24/10/20	10.1%
	Total phosphates	5 mg/L 3 mg/L	Absolute maximum 95 th percentile ^[5]	4.7 mg/l & 2.1 mg/l Measured, and uncertainty not applied	BS EN ISO 15681-1	13/1/20 & 20/1/20	14.1%
	Iron	10 mg/L 5 mg/L	Absolute maximum 95 th percentile ^[5]	1.1028 mg/l & 0.2124 mg/l Measured, and uncertainty not applied	BS EN ISO 11885	26/10/20 & 26/11/20	9.46%
	Aluminium	2 mg/L 1 mg/L	Absolute maximum 95 th percentile ^[5]	1.27 mg/l & 0.85 mg/l Measured, and uncertainty not applied	BS EN ISO 11885	19/12/20 & 6/12/20	12.91%
	pH	6 – 9	Absolute maximum	6.94 min / 8.2 max Measured and uncertainty not applied	BS ISO 10523	Min – 3/1/20 Max – 13/1/20	@6.87 pH & 25C = 1.3%

Notes:

[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.

[5] For 95 % of all measured values according to look up table

Signed Date *18 February 2021*
(Authorised to sign as representative of Operator)