

Permit Number: EPR/XP3830UR

Operator:

The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery

Form Number:

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	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
W2	Maximum daily discharge volume	2500 m³/day	Total daily volume	1985m3	Flow meter		2/9/20	
	Maximum rate of discharge	120 m³/hr	Instantaneous	116m3/h	Flow meter		2/9/20	
	Temperature	35 °C	Absolute maximum	29.7	Standard thermocouple		13/8/20	
	Biochemical oxygen demand	40 mg/L	Absolute maximum	4 mg/l & 3 mg/l	BS EN 1899-1	2/12/20 & 23/10/20	23.6%	
		20 mg/L	95 th percentile ^[5]					
	Total suspended solids	60 mg/L	Absolute maximum	8.66 mg/l & 5.51 mg/l	BS EN 872	2/12/20 & 8/12/20	11.39%	
		30 mg/L	95 th percentile ^[5]					
	Ammonia	10 mg/L	Absolute maximum	0.87 mg/l & 0.33 mg/l	BS EN ISO 11732	28/12/20 & 24/10/20	10.1%	
		3.5 mg/L	95 th percentile ^[5]					
	Total phosphates	5 mg/L	Absolute maximum	4.7 mg/l & 2.1 mg/l	BS EN ISO 15681-1	13/1/20 & 20/1/20	14.1%	
		3 mg/L	95 th percentile ^[5]					
	Iron	10 mg/L	Absolute maximum	1.1028 mg/l & 0.2124 mg/l	BS EN ISO 11885	26/10/20 & 26/11/20	9.46%	
		5 mg/L	95 th percentile ^[5]					
	Aluminium	2 mg/L	Absolute maximum	1.27 mg/l & 0.85 mg/l	BS EN ISO 11885	19/12/20 & 6/12/20	12.91%	
		1 mg/L	95 th percentile ^[5]					
pH	6 – 9	Absolute maximum	8.2	BS ISO 10523	13/1/20	0.427%		

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 12 January 2021
(Authorised to sign as representative of Operator)

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

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	MWh	Delivered 8,445,654 MW Primary 21,114.13 MW	0.22 MWh / Per Tonne of Cheese
CHP Electricity**	MWh	Delivered 1,521.00 MW Primary 3,802.4MW	This has only operated intermittently over the last 3 months of 2020
Natural Gas	MWh	Delivered 36,358.5 MW (1.22) Primary 44,357.3 MW	0.97 MWh / Per Tonne of Cheese
TOTAL	-	46,325.15 MWh (Delivered) 69273.43 (Primary)	1.23 MWh/ Per Tonne of cheese*
(* does not include CHP power as this has run intermittently for the last 3 months only)			

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

Operator's comments:

** CHP came on line for commissioning and "bedding in" purposes in mid October 2020 we anticipate first unbroken month of operation in Jan 2021.
Have converted CHP generated electricity to primary energy but wasn't sure if it is a requirement?

Cheese produced in 2020 = 37,362Tonnes

Signed
(Authorised to sign as representative of Operator)

12 January 2021.
Date

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: Jan – Dec 2020

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Potable water	289,896	10.51M3/tonne
Non potable water	170,149	4.52m3/tonne
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 in the production system

Cheese produced in 2020 = 37,362Tonnes

Signed
(authorised to sign as representative of Operator)

Date: 12 January 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: 01/01/2020 to 31/12/2020

Parameter	Units
Total raw material used	341,875.29 tonnes of milk
Waste disposal and/or recovery	119.76 tonnes (as reported by contractor & 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 Ltrs Milk to tonnes – use specific gravity of 1.03

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

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

* Data with regards to the farm scheme will be provided by ADAS in their annual report sent direct to NRW.

Signed
(Authorised to sign as representative of Operator)

Date: 12 January 2012.