

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

Facility: Haverfordwest Creamery Form Number: Air1

Reporting of emissions to air for the period from 01/01/2022 to 31/12/2022

Emission Point	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
	Substance / Parameter	Limit Value					
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Periodic	Emissions testing completed – awaiting results report from contractor	MCERTS BS EN 14792	To follow	To follow
A2	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Periodic	Emissions testing completed – awaiting results report from contractor	MCERTS BS EN 14792	To follow	To follow
A3	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Periodic	Emissions testing completed – awaiting results report from contractor	MCERTS BS EN 14792	To follow	To follow
A4	Carbon monoxide	No limit set	Periodic	Emissions testing completed – awaiting results report from contractor	MCERTS BS EN 15058	To follow	To follow
	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	95 mg/Nm ³ ^[5]	Periodic	Emissions testing completed – awaiting results report from contractor	MCERTS BS EN 14792	To follow	To follow

Notes:

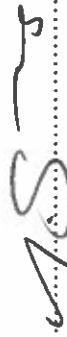
[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – 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] At reference conditions of a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6 % for solid fuels, 15 % for engines and gas turbines and 3 % for all other MCPs

Signed  Date..... 30/01/23
(Authorised to sign as representative of Operator)

*** Note ***:

- Air emission testing has taken place, however we are currently awaiting the report from our contractor. As soon as we have the results we will forward on accordingly.
- Please note that on the day of testing, the CHP unit unfortunately developed a fault which meant that the contractor was unable to carry out testing. We are currently in discussions with the contractor re a return visit to the site to complete this works.
- As a learning from this experience, please note that we plan to move the annual testing forward from the usual January to the back end of 2023. This should give us

Permit Number: EPR/XP3830UR

Operator:

The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery

Form Number:

Water1

Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2022 to 31/12/2022

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 m ³ /day	Total daily volume	2193m3	Flow meter		08/07/2022	+/- 0.5%
	Maximum rate of discharge	120 m ³ /hr	Instantaneous	92 m3/hr	Flow meter		08/07/2022	+/- 0.5%
	Temperature	35 °C	Absolute maximum	28.0	Standard thermocouple		18/08/2022	n/a
	Biochemical oxygen demand	40 mg/L	Absolute maximum	502 mg/L 179.75 mg/L	BS EN 1899-1		23/11/2022	23.6%
		20 mg/L	95 th percentile ^[5]					
	Total suspended solids	60 mg/L	Absolute maximum	1400 mg / L 237.10 mg/L	BS EN 872		23/11/2022	33.3%
		30 mg/L	95 th percentile ^[5]					
	Ammonia	10 mg/L	Absolute maximum	27.5 mg/L 8.13 mg/L	BS EN ISO 11732		23/11/2022	18%
		3.5 mg/L	95 th percentile ^[5]					
	Total phosphates	5 mg/L	Absolute maximum	10.9 mg/L 3.42 mg/L	BS EN ISO 15681-1		23/11/2022	3.4%
		3 mg/L	95 th percentile ^[5]					
	Iron	10 mg/L	Absolute maximum	1.048mg/L 0.66mg/L	BS EN ISO 11885		12/08/2022	29%
		5 mg/L	95 th percentile ^[5]					
	Aluminium	2 mg/L	Absolute maximum	1.4mg/L 0.5mg/L	BS EN ISO 11885		25/03/2022	16.4%
		1 mg/L	95 th percentile ^[5]					
	pH	6 – 9	Absolute maximum	8.7	BS ISO 10523		02/05/2022	6.6%

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.....30/01/23.....
(Authorised to sign as representative of Operator)

Permit Number: EPR/XP3830UR

Operator:

The First Milk Cheese Company Limited

Facility: Haverfordwest Creamery

Form Number:

WaterUsage1

Reporting of Water Usage for the year 01/01/2022 to 31/12/2022

Water Source		Usage (m ³ /year	Specific Usage (m ³ /unit output)
Potable water		293,887	7.80 m3/tonne
Non potable water		215,713	5.73 m3/tonne
TOTAL WATER USAGE		509,600	13.53 m3/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 2022 = 37,639 tonnes

Signed
(authorised to sign as representative of Operator)

Date.....31/12/22.....

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

Facility: Haverfordwest Creamery Form Number: Energy1

Reporting of Energy Usage for the year 01/01/2022 to 31/12/2022

Energy Source	Energy Usage		Primary Energy (MWh)	Specific Usage (MWh/unit output)
	Quantity			
Mains Electricity *	2,145 MWh		5.148 MWh	0.057 (delivered) 0.137 (primary)
Natural Gas	55,185 MWh		67,326 MWh	1.466 (delivered) 1.789 (primary)
TOTAL	57,330 MWh		72,474 MWh	1.523 (delivered) 1.926 (primary)

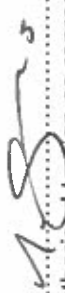
* Conversion factor for delivered electricity to primary energy = 2.4

** Conversion factor for delivered gas to primary energy = 1.22

Operator's comments:

Cheese produced in 2022 = 37,639 tonnes

Natural gas fired CHP output (electricity) included on sheet "Performance 1" below

Signed  Date: 30/01/23

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

Facility: Haverfordwest Creamery Form Number: Performance1

Reporting of other performance indicators for the period 01/01/2022 to 31/12/2022

Parameter	Units
Total raw material used	337,233 tonnes of milk
Natural gas fired CHP output (electricity)	8,236 MWh
Waste disposal and/or recovery	160.74 tonnes (as reported by contractor and WT Notes)
Mass of ammonia released to water	867 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

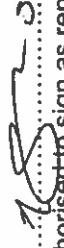
Operator's comments:

Conversion of litres milk to tonnes – used specific gravity of 1.035

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

All R22 gas has been historically removed 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  Date..... 30/01/2023.....
(Authorised to sign as representative of Operator)