Permit Number: BV8024IW **Operator:** Glanbia Cheese Limited

Facility: Llangefni Dairy **Form Number:** Water1

Reporting of emissions to water (other than to sewer) and land for the period from 1/10/19 **to** 31/12/19

Emission Point	Substance / Parameter	Emission/ Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
W2	Biochemical oxygen demand (BOD)	6mg/l	Quarterly Spot sample	5·7	ISO5815-1:2003 Water Quality – Determination of BOD after 5 days dilution and seeding method	21/11/19 1000	± 0·2 mg/L
W2	Suspended Solids	30mg/l	Quarterly Spot sample	< 6	ISO 11929:1997 EN872, Determination of suspended solids	"	± 0·7 mg/L
W2	Oil and grease	10mg/l	Quarterly Spot sample	< 7·44	SCA, The determination of hydrocarbon oils in waters by solvent extraction IR absorption and gravimetry	"	± 1·7 mg/L
W2	pH	6-9	Quarterly Spot sample	6	SCA, The measurement of electric conductivity and the determination of pH	"	± 0·2 UNITS
W2	Bromine	Not detectable	Quarterly Spot sample	< 0·05	SCA Blue Book 218	"	4%

[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.

Signed ..... Date 23/1/20

(Authorised to sign as representative of Operator)

Permit Number: BV8024IW **Operator:** Glanbia Cheese Limited

Facility: Llangefni Dairy **Form Number:** Performance1 23/02/2017

Reporting of other performance indicators for the period 1/1/19 **to** 31/12/19

Parameter		Units
Total quantity of milk used	307,194-36	tonnes
Mozzarella cheese produced	45,458	tonnes
Chemical Oxygen Demand [1]	347.389	COD/t
Waste disposal	22,741	tonnes

[1] COD (kg) to be determined from quarterly COD (mg/l) x quarterly effluent flow (m^3)

Operator's comments:

Signed ..... Date 23/1/20

(Authorised to sign as representative of Operator)

Permit Number: BV8024IW **Operator:** Glanbia Cheese Limited

Facility: Llangefni Dairy **Form Number:** Energy1

Reporting of Energy Usage for the year : 2019

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	MWh	35,705.579	
Natural Gas	MWh	41,809.687	
Light Fuel Oil	tonnes	—	—
TOTAL	-	77,515.266	

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments: INCREASE IN ENERGY DUE TO INCREASED PRODUCTION

Signed ..... Date 23/1/20

(Authorised to sign as representative of Operator)

Permit Number: BV8024IW **Operator:** Glanbia Cheese Limited

Facility: Llangefni Dairy **Form Number:** WaterUsage1

Reporting of Water Usage for the year 2019

Water Source	Usage (m^3/year)	Specific Usage (m^3/unit output)
		PRODUCTION = 72,620
Mains water	294,277	PACKING = 18,276
		WATER = 64,122
		UTILITIES = 36,123
TOTAL WATER USAGE		

Operator's comments: WATER USAGE REDUCED FROM 2018 TOTAL, REDUCTION IN UTILITIES USAGE PRE RINSE TIMES REDUCED ON CIP SYSTEMS

Signed ..... Date 23/1/20

(authorised to sign as representative of Operator)

Permit Number: BV8024IW **Operator:** Glanbia Cheese Limited

Facility: Llangefni Dairy **Form Number:** Sewer1

Reporting of emissions to sewer for the period from 1/7/19 **to** 31/12/19

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
S1	Chemical Oxygen Demand (mg/l)	None specified	Monthly spot sample comprising a minimum of 4 composite samples taken in any 24-hour period.	1,106	Oxidation with dichromate (ISO6060:1989) UKAS accredited lab testing	19/11/19 24 HR Comp	± 0-20TS mth
S1	Total Effluent flow (m^3)	None specified	24-hour flow proportional sample.	246.613	Continuous flow meter	SIX MONTHS	± ½%

[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.

Signed .....

(Authorised to sign as representative of Operator)

Date 23/1/20