

Permit Reference Number: BV8024IW

Operator: Glanbia Cheese Limited

Installation: Llangefni Dairy

Form Number: W1

Reporting of Emissions to Surface Water for the period from 1-10-15 to 31-12-15

Emission Point	Substance / Parameter	Discharge Limits	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W2	BOD	6 mg/l	0.8	Q1 251/17	16-11-15 1000	UKAS	± 0.2078 m/L
W2	Suspended Solids	30 mg/l	7	Q1 250/12	" "	"	± 0.738 m/L
W2	Oil and Grease	10 mg/l	<8	Q1 251/10	" "	"	± 1.7 m/L
W2	pH	>6 - <9	7.36	Q1 251/46	" "	"	± 0.2 units
W2	Biocide and Slimicide	Not detectable	—	—	—	—	—

- [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 the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.
- [3] 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.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed  (authorised to sign as representative of the Operator)

Date: 13-1-16

Permit Reference Number: BV8024IW

Installation: Llangefni Dairy

Form Number: S1

Operator: Glanbia Cheese Limited

Reporting of Emissions to Sewer for the period from 1-7-15 to 31-12-15

Emission Point	Substance Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	COD, mg/l	(Trade effluent discharge consent 1700mg/l)	1794	Oxidation with dichromate (ISO 6060:1989)	19/10/15	UKAS accredited laboratory testing	$\pm 0.2078\%$
S1	Total effluent flow, m ³		1275	Continuous flow measurements	3/12/15	ISO 9001 ISO 10012	$\pm 3\%$

- [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 the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.
- [3] 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.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

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Date: 18-1-2016

BV8024IW

Permit Reference Number: BV8024IW

Operator: Glanbia Cheese Limited

Installation: Llangefni Dairy

Form Number: E1

Reporting of Energy Usage for the year 2015

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Natural Gas	MWh 8019	43614.81	8,286.6
Electricity *	MWh 701654	32681.48	5,105.5
Light Fuel Oil	MWh		
TOTAL		76,295.49	13,692.1

* Conversion factor for delivered electricity to primary energy = 2.6

Year	Primary Energy usage (MWh)	CO ₂ Produced (tonnes)
2005/2010	64,702.82	11,546
2006/2011	68,779.90	12,254
2012	71,678.03	12,513
2013	74,935.10	13,406
2014	72,538.74	13,019
2015	76,295.49	13,692

Operator's comments :

ALUMINUM ENERGY INCREASED IN 2015 THIS IS DUE TO LOWER PER TONNES PRODUCED

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Date: 18.1.2016

BV8024IW

Permit Reference Number: BV8024IW

Operator: Glanbia Cheese Limited

Installation: Llangefni Dairy

Form Number: P11

Reporting of Performance Indicators for the year 2015

Annual Production	
Mozzarella Cheese Product	Tonnes(t)
	39,155

Environmental Performance Indicators

Parameter	Annual Average	Units
COD (kg)	14,417	MOZZARELLA
Water use (m ³)	24,146	"
Energy Consumed (MWh)	6024.62	"

Trends in Environmental Performance			
Year	Parameter	m ³ of water/t	MWh of energy/t
	COD kg/t		
2010	6.76	11.57	2,504
2011	9.11	10.80	2,512
2012	6.05	9.77	2,292
2013	5.29	8.04	2,577
2014	4.90	7.83	2,513
2015	4.41	7.40	1,846

Operator's comments : TRENDS LOWER DUE TO HIGHER PRODUCTION AND REDUCTION IN PRODUCE LOSS TO DRAIN

[1] Performance indicators should be quoted in tonnes of finished product manufactured per COD/t, water/m³, energy/MWh

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Date 18-1-2016

Permit Reference Number: BV8024IW

Operator: Glanbia Cheese Limited

Installation: Llangefni Dairy

Form Number: WU1

Reporting of Water Usage for the year 2015

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	289,755	7.75
TOTAL WATER USAGE	289,755	7.75

Year	Named Water source	Total Water usage (m ³)
2005 11	295,523	295,523
2006 12	305,784	305,784
2013	276,693	276,693
2014	271,463	271,463
2015	289,755	289,755

Operator's comments : WATER INCREASE DUE TO MILK PRODUCTION

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(authorised to sign as representative of the Operator)

Date 18.1.2016

Permit Reference Number: BV80241W

Installation: Llangefni Dairy

Form Number: R1

Operator: Glanbia Cheese Limited

Reporting of Waste Disposal and Recovery for the year2015.....

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Named haz. Waste	Waste Transfer / Transfer to Landfill	0.59	0.3
Other hazardous wastes		0.48	-
Total hazardous waste		0.75	-
2) Non-Hazardous Wastes			
Named non-haz. Waste	Landfill	185.26	-
Other non-hazardous wastes	Landfill	25.77	-
Total non-hazardous waste		70.58	70.58
TOTAL WASTE		26.027	70.61

Year	Named Waste	Total Waste (Tonnes)
2010	4758	4758
2011	3527	3527
2012	3996	3996
2013	21639	21639
2014	22257	22257
2015	26027	26027

Operator's comments : INCREASE IN LANDFILL DUE TO INCREASE PRODUCTION

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(authorised to sign as representative of the Operator)
Date: 18.1.2016