Permit Reference Number : **GP3235GH**
Installation : Dolwen Abattoir

Operator : Randall Parker Foods Ltd
Form Number : W1

Reporting of Emissions to Water (other than to Sewer) for the period from 1st January - 31st March 2019

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
W1	BOD	40mg/l	5.5mg/l 10.8mg/l 14.1mg/l	SCA blue book 130 ISBN 0117522120	24/1/2019 09:00am 28/2/2019 07:00am 26/3/2019 11:00am	UKAS 1291	24.5 %
W1	Suspended solids	60mg/l	12mg/l 21mg/l 25mg/l	SCA blue book 105 ISBN 011751957X	24/1/2019 09:00am 28/2/2019 07:00am 26/3/2019 11:00am	UKAS 1291	12.1 %
W1	Ammoniacal Nitrogen (as N)	25mg/l	8mg/l 10mg/l 10mg/l	SCA blue book 48 ISBN 0117516139	24/1/2019 09:00am 28/2/2019 07:00am 26/3/2019 11:00am	UKAS 1291	4.8 %
W1	Daily effluent flow rate	300m³/day	220.3m³/day 181.50m³/day 252.45m³/day	To a relevant EN, BS, ISO standard as agreed in IC6	Daily average for January 2019 Daily average for February 2019 Daily average for March 2019	BS:ISO 6817-1997	+/- 8%
W1	PH	6-10	7.69 7.62 7.54	SCA blue book 14 ISBN 0117514284	24/1/2019 09:00am 28/2/2019 07:00am 26/3/2019 11:00am	UKAS 1291	0.6 %

[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. The following uncertainties are quoted on a different basis (basis as stated) – *{The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}*
[6] The emission limit values for flow is expressed as a daily maximum.
[7] The emission limit values for ammoniacal nitrogen, BOD_5 and suspended solids are expressed as a maximum individual value.
[8] The emission limit values for *pH* are expressed as *minimum and maximum individual values*.
[9] Compliance with the emission limit values for mercury and cadmium are based on mass balance calculation.

Signed ....

Date 29/01/2020

Permit Reference Number :**GP3235GH** Operator : Randall Parker Foods Ltd

Installation : Dolwen Abattoir Form Number : W1

Reporting of Emissions to Water (other than to Sewer) for the period from 1st April to 30th June 2019

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
W1	BOD	40mg/l	3mg/l 4.9mg/l 3.2mg/l	SCA blue book 130 ISBN 0117522120	23/4/2019 10:30am 16/5/2019 10:00am 27/6/2019 10:00am	UKAS 1291	24.5 %
W1	Suspended solids	60mg/l	<2 mg/l 3mg/l <2mg/l	SCA blue book 105 ISBN 011751957X	23/4/2019 10:30am 16/5/2019 10:00am 27/6/2019 10:00am	UKAS 1291	12.1 %
W1	Ammoniacal Nitrogen (as N)	25mg/l	9mg/l 8mg/l 9mg/l	SCA blue book 48 ISBN 0117516139	23/4/2019 10:30am 16/5/2019 10:00am 27/6/2019 10:00am	UKAS 1291	4.8 %
W1	Daily effluent flow rate	300m ³/day	243.7 m³/day 229.3 m³/day 224.5m³/day	To a relevant EN, BS, ISO standard as agreed in IC6	Daily average for April 2019 Daily average for May 2019 Daily average for June 2019	BS ISO6817 -1997	+/- 8%
W1	PH	6-10	7.41 6.94 7.4	SCA blue book 14 ISBN 0117514284	23/4/2019 10:30am 16/5/2019 10:00am 27/6/2019 10:00am	UKAS 1291	0.6 %

[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.

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[6] The emission limit values for flow is expressed as a daily maximum.

[7] The emission limit values for ammoniacal nitrogen, BOD_5 and suspended solids are expressed as a maximum individual value.

[8] The emission limit values for *pH* are expressed as *minimum and maximum individual values.*

[9] Compliance with the emission limit values for mercury and cadmium are based on mass balance calculation.

Signed ..... Date 29/01/2020

Permit Reference Number : **GP3235HG** Operator : Randall Parker Foods Ltd

Installation : Dolwen Abattoir Form Number : W1

Reporting of Emissions to Water (other than to Sewer) for the period from 1st Jul to 30th September 2019

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
W1	BOD	40mg/l	6mg/l 6mg/l 4mg/l	SCA blue book 130 ISBN 0117522120	11/07/2019 11:00am 01/08/2019 10:00am 15/09/2019 10:00am	UKAS 1291	24.5 %
W1	Suspended solids	60mg/l	<2mg/l <2mg/l 5mg/l	SCA blue book 105 ISBN 011751957X	11/07/2019 11:00am 01/08/2019 10:00am 15/09/2019 10:00am	UKAS 1291	12.1 %
W1	Ammoniacal Nitrogen (as N)	25mg/l	6mg/l 6mg/l 9mg/l	SCA blue book 48 ISBN 0117516139	11/07/2019 11:00am 01/08/2019 10:00am 15/09/2019 10:00am	UKAS 1291	4.8 %
W1	Daily effluent flow rate	300m ^{3}/day	232.27 m^3/day 266.96 m^3/day 265.14 m^3/day	To a relevant EN, BS, ISO standard as agreed in IC6	Daily average for July 2019 Daily average for August 2019 Daily average for September 2019	BS ISO 6817 - 1997	+/- 8%
W1	PH	6-10	7.45 7.45 7.35	SCA blue book 14 ISBN 0117514284	11/07/2019 11:00am 01/08/2019 10:00am 15/09/2019 10:00am	UKAS 1291	0.6 %

[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.

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[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.

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[8] The emission limit values for *pH* are expressed as *minimum and maximum individual values*.

[9] Compliance with the emission limit values for mercury and cadmium are based on mass balance calculation.

Signed ..... Date 29/01/2020

Permit Reference Number : **GP3235GH**
Installation : Dolwen Abattoir

Operator : Randall Parker Foods Ltd
Form Number : W1

Reporting of Emissions to Water (other than to Sewer) for the period from 1st October to 31st December 2019

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
W1	BOD	40mg/l	4mg/l 30.6mg/l 11mg/l	SCA blue book 130 ISBN 0117522120	15/10/2019 10:00am 29/11/2019 09:30am 02/01/2020 11:00am	UKAS 1291	24.5 %
W1	Suspended solids	60mg/l	5mg/l 54mg/l 19mg/l	SCA blue book 105 ISBN 011751957X	15/10/2019 10:00am 29/11/2019 09:30am 02/01/2020 11:00am	UKAS 1291	12.1 %
W1	Ammoniacal Nitrogen (as N)	25mg/l	9mg/l 1mg/l 10mg/l	SCA blue book 48 ISBN 0117516139	15/10/2019 10:00am 29/11/2019 09:30am 02/01/2020 11:00am	UKAS 1291	4.8 %
W1	Daily effluent flow rate	300m ³/day	291m³/day 254.7m³/day 242.85m³/day	To a relevant EN, BS, ISO standard as agreed in IC6	Daily average for October 2019 Daily average for November 2019 Daily average for December 2019	BS ISO 6817-1997	+/- 8%
W1	PH	6-10	7.35 6.86 7.14	SCA blue book 14 ISBN 0117514284	15/10/2019 10:00am 29/11/2019 09:30am 02/01/2020 11:00am	UKAS 1291	0.6 %

[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.
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[8] The emission limit values for *pH* are expressed as *minimum and maximum individual values.*
[9] Compliance with the emission limit values for mercury and cadmium are based on mass balance calculation.

Signed .....

Date 29/01/2020

Permit Reference Number : **GP3235GH**
Installation : Dolwen Abattoir

Operator : Randall Parker Foods Ltd
Form Number : R1

Reporting of Waste Disposal and Recovery for the year

Waste Description	Disposal		Recovery
	Route	Tonnes (t)	Tonnes (t)
General waste	Landfill	**34.64**	
TOTAL WASTE	-	**34.64**	

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Hazardous Waste (t)	Non-Hazardous Waste (t)	Waste per unit output (t/t)
2016	2.356	46.62	0.00175
2017	0.504	47.24	0.0015
2018	0.617	53.81	0.0019
2019	**0.585**	**34.64**	**0.0012**

Operator's comments : Total weight for lamb and beef production (after waste removal) = 28343.79 tonnes. Total waste produced = 35.23 ÷ 28343.79 = 0.0012 tonnes

Signed ....
(Authorised to sign as representative of the Operator)

Date 29/01/2020

Permit Reference Number : **GP3235GH**

Operator : Randall Parker Foods Ltd

Installation : Dolwen Abattoir

Form Number : WU1

Reporting of Water Usage for the year

Water Source	Usage (m^3)	Specific Usage (m^3/t)
Severn Trent mains water		
TOTAL WATER USAGE	72119.95m³	2.54m³

Trends in Water Usage		
Year	Parameter	
	Mains Water (m^3)	Total Water Usage (m^3)
2009	30,555.1m³	30,555.1m³
2010	32,801.0m³	32801.0m³
2011	44,888m³	44,888m³
2012	43,766m³	43,766m³
2013	45,344m³	45,344m³
2014	49,198m³	49,198m³
2015	56,659m³	56,659m³
2016	61711.46m³	61711.46m³
2017	64987.36 m³	64987.36 m³
2018	66090.64 m³	66090.64 m³
2019	72119.95m³	72119.95m³

Operator's comments :

Signed .....

(authorised to sign as representative of the Operator)

Date 29/01/2020

Permit Reference Number : **GP3235GH**

Operator : Randall Parker Foods Ltd

Installation : Dolwen Abattoir

Form Number : E1

Reporting of Energy Usage for the year

Energy Source	Energy Usage		CO_2 Produced (t)
	Quantity	Primary Energy (MWh)	
Electricity	3771.1MWh	9050.64	1502.4
ULSD	2387.6 Litres		
Gas oil	14805.91 Litres		
Kerosene	195582.0 Litres		
TOTAL			

Trends in Energy Usage			
Year	Parameter		
	Primary Energy Usage (MWh)	CO_2 Produced (t)	CO_2 per Unit Output (t/t)
2009	2232.45		
2010	2561.51		
2011	2660.06		
2012	3446.02		
2013	5713.1	948.37	
2014	7117.61	1181.52	0.04
2015	7270	1206.85	0.045
2016	7221.6	1198.78	0.043
2017	8822.64	1365.95	0.044
2018	8987.52	1491.9	0.054
2019	9050.64	1502.4	0.053

* Conversion factor for delivered electricity to primary energy = 2.4

** Conversion for primary electricity to CO2 is 0.166. Conversion formula is measured electricity MWh x 2.4 x0.166 = Tonnes CO2

Operator's comments :
Note :

Signed .....
(authorised to sign as representative of the Operator)

Date 29/01/2020

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Permit Reference Number : **GP3235GH**
Installation : Dolwen Abattoir

Operator : Randall Parker Foods Ltd
Form Number : PI1

Reporting of Performance Indicators for the year

Annual Production/Treatment	
Sheep Slaughterered = 976993	**Weights include offal's, skins,petfood = 25,703.31 tonnes**
Cattle Slaughtered = 7347	**Weights include offals, hides,petfood = 2640.48 tonnes**

Environmental Performance Indicators

Parameter	Annual Average	Units
Energy consumption per tonne of total product	0.32	MWh energy / t product
Waste disposal per tonne of total product	0.0012	t waste / t product
BOD	20 grammes	BOD/tonne

Trends in Environmental Performance

Year	Water usage per tonne of total product (m^3 / t)	Energy consumption per tonne of total product (MWh/t)	Waste generation per tonne of total product (t / t)	Parameter (BOD (mg/l) average
2011	**1.7**	**1.10**	**0.23**	**4.95mg/l**
2012	**1.73**	**0.14**	**0.32**	**7.62mg/l**
2013	**1.71**	**0.12**	**0.47**	**4.8mg/l**
2014	**1.81**	**0.26**	**0.44**	**3.34mg/l**
2015	**2.12**	**0.27**	**0.45**	**9.17mg/l**
2016	**2.20**	**0.26**	**0.00175**	**6.275mg/l**
2017	**2.12**	**0.29**	**0.0015**	**3.90mg/l**
2018	**2.28**	**0.31**	**0.0019**	**5.76mg/l**
	2.54	**0.32**	**0.0012**	**8.59mg/l**

Operator's comments : BOD Results = ~~103~~ 1MG FOR 12 RESULTS ÷ 12= 8.59mg/l average
BOD 8.59÷1000 = 0.009X 2.20 = ~~0.020~~X 1000 = 20

Signed ..... Date 29/01/2020
(authorised to sign as representative of the Operator)

Permit Number : GP3235GH **Operator – Randall Parker Foods, Oakley Park, Llanidloes, Powys SY18 6LX**

Installation Dolwen Abattoir **Form Number W1**

Reporting of emissions to water (other than sewer) for the year 2019

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
W1	Mercury and its compounds µg/l	0.1	2019	0.0105642730ug/l	Mass Balance Calculation	17/12/19 @10:00am	
W1	Cadmium and its compounds mg/l	0.01	2019	-0.0000021363mg/l	Mass Balance Calculation	17/12/19 @10:00am	

[1] Compliance based on mass balance calculation (see section 6 of Permit, interpretation for details)

Signed .....

(Authorised to sign as representative of Operator)

Date 29/01/2020