Permit Reference Number: BX8289IW

Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: M1

Reporting of Mass release to sewer for the period from …1st January 2018……to…31st Dec 2018……

Emission Point	Substance / Parameter	Annual Limit Value g	Result [1]
S1	Cadmium (and its compounds as Cd	0.5	0.31
S1	Mercury and its compounds as Hg	1.5	0.52

[1] The result given is calculated using a mass balance. See Permit condition 6.1.1

Signed …… …Mark Thomas…… **Date……18th March 2019 ……..**

(Authorised to sign as representative of the Operator)

Permit Reference Number: BX8289IW

Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: R1

Reporting of Waste Disposal and Recovery for the year ……2018……

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Waste	Recycled	3.61	3.61
2) Non-Hazardous Waste	Recycled	365.91	365.91
TOTAL WASTE	Recycled	369.52	369.52

Trends in Waste Disposal and Recovery Year	Parameter Hazardous waste (t	Non hazardous waste (t) /	Total waste (t)
2008	0.985	772	773.15
2009	0.83	1312.5	1313.37
2010	2.49	843.66	846.15
2011	0.074	832.81	832.88
2012	28.511	1260.3	1288.79
2013	0.631	1015.16	1015.79
2014	0.418	743.72	744.14
2015	0.98	306.019	306.999
2016	9.75	1281.52	1291.266
2017	3.405	347.03	350.435
2018	3.61	365.91	369.52

Operator's comments: An increase in waste generated by 19 tonnes. We have a significant investment currently underway on site which will result in an increase in throughput of materials. This change we also result in the company improving its waste per product ratio.

Signed …… Mark Thomas…… **Date…18th March 2019……..**

(Authorised to sign as representative of the Operator)

Permit Reference Number: BX8289IW

Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: WU1

Reporting of Water Usage for the year .....2018.....

Water Source	Usage (m^3)	Specific Usage (m^3/t)
Mains water	157533	1.299
TOTAL WATER USAGE	157533	1.299

Trends in Water Usage Year	Parameter Named Water source	Total Water usage m3	Water / finished product (t)
2014		189962	1.311
2015		176707	1.354
2016		145988	1.327
2017		168132	1.467
2018		157533	1.299

Operator's comments: .

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

Date...18th March 2019.....

Permit Reference Number: BX8289IW

Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: E1

Reporting of Energy Usage for the year .....2018.....

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	CO_2 Produced (tonnes)
Electricity *	**MWh 3712.54**	**8910.11**	**1479.10**
Natural Gas	**MWh 4201.34**	**4201.34**	**797.77**
TOTAL	**MWh 7913.894**	**13,111.45**	**2276.78**

Trends in Energy Usage Year	Parameter Primary Energy usage	CO_2 produced	CO_2 / finished product (t)
2011	21938	2503	0.041
2012	15431	2718	0.039
2013	16795	2951	0.017
2014	16885	2961	0.018
2015	9758	2632	0.022
2016	10221	2671	0.024
2017	10254	2781	0.02468
2018	**7914**	**2277**	**0.01878**

* Conversion factor for delivered electricity to primary energy =delivered electricity to primary multiply by 2.4 (from 2010)
delivered electricity in kWh to kg CO2 multiply by 0.166

Operator's comments:

Signed .....Mark Thomas.....

(Authorised to sign as representative of the Operator)

Date.....18th March 2019.....

Permit Reference Number: BX8289IW

Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: PI1

Reporting of Performance Indicators for the year ……2018……..

Annual Production/m3	
Fruit Juices	121240

Environmental Performance Indicators

Parameter	Annual Average	Units
Specific water use	**1.299**	**m3/m3 ratio**
Specific waste production	**3.048**	**kg/m3**
Specific energy use	**389.32**	**MJ/m3**

Trends in Environmental Performance			
Year	Parameter		
	Water use (m^3) /tonne of finished product	Waste kg/t of finished product	Energy (MWh/finished product)
2015	1.35	8.1965	435.7
2016	1.33	9.2259	494.96
2017	1.467	3.058	498.038
2018	1.299	3.048	389.32

Operator's comments:

Signed ……Mark Thomas……

(Authorised to sign as representative of the Operator)

Date……18th March 2019……..

Permit Reference Number BX8289IW **Operator: Princes Ltd**

Installation: Princes Soft Drinks – Cardiff **Form Number S1**

Reporting Emissions to Sewer for the period .....1st January 2018....to…….to…31st Dec 2018……

Emission Point	Substance/parameter	Emission Limit value(1)	Result
S1	COD	None set	3442.19
S1	pH	None set	7.24
S1	Suspended Solids	None set	137
S1	Effluent Flow	None set	41435
S1	Cadmium and its compounds as Cd	0.01mg/l	0.000076
S1	Mercury and its compounds as Hg	0.1µg/l	0.0000124

(1) The emission limit values for mercury and cadmium are expressed as annual averages calculated by mass balance. See permit condition 6.1.1

Signed.....Mark Thomas..... **Date.....18th March 2019.....**
(Authorised to sign as representative of the Operator)