Permit Reference Number: EPR/NP3030BJ **Operator:** EnerSys Ltd

Facility: EnerSys Newport **Form Number:** A1

Reporting of Emissions to Air for the period from: 01/01/2023 – 31/12/2023

Emission Point	Substance / Parameter	Emission Limit Values	Reference Period	Result	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1	Lead	1.0 mg/m^3	Spot Sample	0.23	BS EN 14385:2004	01/08/2023 12:24-13:24	±0.01
A2	Lead	1.0 mg/m^3		1.1		01/06/2023 10:01-11:01	±0.03
A3	Lead	1.0 mg/m^3		0.16		01/06/2023 11:23-12:23	<0.01
A63	Lead	1.0 mg/m^3		0.31		03/04/2023 11:06-12:08	±0.01
A4	Lead	0.75 mg/m^3		0.53		02/06/2023 10:04-10:54	±0.01
A6	Lead	1.0 mg/m^3		0.17		01/06/2023 12:40-13:20	<0.01
A8	Lead	1.0 mg/m^3		0.45		06/02/2023 12:40-13:20	±0.01
A9	Lead	0.75 mg/m^3		0.04		07/11/2023 10:49-11:29	<0.01
A10	Lead	1.0 mg/m^3		0.09		02/08/2023 12:57-13:45	<0.01
A11	Lead	1.0 mg/m^3		0.15		02/05/2023 13:07-13:55	<0.01
A12	Lead	0.75 mg/m^3		0.03		03/08/2023 13:43-14:43	<0.01
A13	Lead	1.0 mg/m^3		0.31		02/08/2023 11:42-12:22	±0.01

[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 [redacted]……..…(authorised to sign as representative of the Operator)… Date…25/01/2024……..

Permit Reference Number: EPR/NP3030BJ

Operator: EnerSys Ltd

Facility: EnerSys Newport

Form Number: A1

Reporting of Emissions to Air for the period from: 01/01/2023 – 31/12/2023

Emission Point	Substance / Parameter	Emission Limit Values	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
A1	Particulates	5.00 mg/m^3	Hourly Average	0.30	BS EN 13284-1	01/11/2023	±0.04
A2	Particulates	5.00 mg/m^3	Hourly Average	0.38	BS EN 13284-1	01/11/2023	±0.03
A3	Particulates	5.00 mg/m^3	Hourly Average	0.30	BS EN 13284-1	02/11/2023	±0.04
A4	Particulates	5.00 mg/m^3	Hourly Average	0.86	BS EN 13284-1	09/11/2023	±0.07
A6	Particulates	5.00 mg/m^3	Hourly Average	1.00	BS EN 13284-1	02/11/2023	±0.06
A8	Particulates	5.00 mg/m^3	Hourly Average	1.64	BS EN 13284-1	03/11/2023	±0.07
A9	Particulates	5.00 mg/m^3	Hourly Average	0.51	BS EN 13284-1	07/11/2023	±0.05
A10	Particulates	5.00 mg/m^3	Hourly Average	0.25	BS EN 13284-1	08/11/2023	±0.05
A11	Particulates	5.00 mg/m^3	Hourly Average	0.36	BS EN 13284-1	06/11/2023	±0.05
A12	Particulates	5.00 mg/m^3	Hourly Average	0.25	BS EN 13284-1	06/11/2023	±0.05
A13	Particulates	5.00 mg/m^3	Hourly Average	0.44	BS EN 13284-1	07/11/2023	±0.05
A63	Particulates	5.00 mg/m^3	Hourly Average	0.35	BS EN 13284-1	03/11/2023	±0.04

Signed …[redacted]……..

Date 25/01/2024……

(authorised to sign as representative of the Operator)

Permit Reference Number: ERP/NP3030BJ **Operator:** Enersys Ltd

Facility: Enersys Newport **Form Number:** W1

Reporting of Emissions to Water (other than to Sewer) for the period from: 01/01/2023 – 31/12/2023

Emissions to Water							
Emission Point	**Substance / Parameter**	**Emission Limit Value**	**Result [1]**	**Test Method [2]**	**Sample Date and Times [3]**	**Accreditation/ Certification [4]**	**Uncertainty [5]**
W1	Lead and its compounds	2.0mg/l [6]	0.8mg/l	WAS049	17/05/2023	ISO/IEC 17025:2005 UKAS1314	22.26%
W1	Flow	Not applicable					

[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 accreditation status of the equipment and/or 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.

[6] The emission limit value is expressed as a maximum individual value and corrected to 273K, 101.3kPa.

Signed [redacted]..... Date…25/01/24……..(authorised to sign as representative of the Operator)

Permit Reference Number: ERP/NP3030BJ

Operator: Enersys Ltd

Facility: Enersys Newport

Form Number: S1

Reporting of Emissions to Sewer for the period from: 01/01/2023 – 31/12/2023

Emissions to Sewer							
Emission Point	**Substance / Parameter**	**Emission Limit Value**	**Result [1]**	**Test Method [2]**	**Sample Date and Times [3]**	**Accreditation/ Certification [4]**	**Uncertainty [5]**
S1	Lead and its compounds.	2mg/l [6]	1.74 mg/l	WAS049	18/01/2023	ISO/IEC 17025:2005 UKAS1314	22.26%
S1	pH	6-11 [7]	Min – 7.31 Max – 10.91	BS EN ISO 11885	16/08/2023 21/03/2023	N/A	
S1	Sulphates	Not applicable	575	WAS036	01/11/2023	ISO/IEC 17025:2005 UKAS1314	6.61%
S1	Suspended solids	Not applicable	108	WAS006	19/07/2023	ISO/IEC 17025:2005 UKAS1314	11.39%
S1	Flow	150,000 l/day	4,356,975	Continuous	01/01/2023 – 31/12/2023	N/A	

[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 accreditation status of the equipment and/or 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.

[6] The emission limit value is expressed as a maximum individual value and corrected to 273K, 101.3kPa.

[7] The emission limit values for pH are expressed as a maximum and minimum

Signed [redacted].....

Date...25/01/24.....(authorised to sign as representative of the Operator)

Permit Reference Number: ERP/NP3030BJ

Operator: Enersys Ltd

Facility: Enersys Newport

Form Number: R1

Reporting of Waste Disposal and Recovery for the year **01/01/2023 – 31/12/2023**

Waste Disposal & Recovery			
Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Lead Waste Streams	Smelting		2,076
Mixed Hazardous Load	D15 Storage pending D	8.82	
Oil and Water	D09 Physio-chemical treatment	77	
Acid	D09 Physio-chemical treatment	85	
Lead Contaminated PPE	R13 Storage pending R	52.28	
Chemical Waste	R03 and R13	3.5	
Total hazardous waste		226.6	2,076
2) Non-Hazardous Wastes			
Plastic Cases	Recycled		25.84
General Waste	Energy from waste		28.92
Cardboard	Recycled		58.40
Wood	Recycled		14.40
Metal	Recycled		53.35
Paper	Recycled	6.78	
Polythene	Recycled		10.08
Total non-hazardous waste		6.78	190.99
TOTAL WASTE		233.38	2266.99

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2018	ALL	3082.09	0.125T/T
	RECOVERED	2824.62	0.115T/T
	DISPOSAL	257.47	0.010T/T
2019	ALL	4,751.15	0.182T/T
	RECOVERED	3,525.74	0.13T/T
	DISPOSAL	1,225.41	0.047T/T
2020	ALL	2,858.9	0.161T/T
	RECOVERED	2,423.04	0.137T/T
	DISPOSAL	435.86	0.025T/T
2021	ALL	3469.1	0.163T/T
	RECOVERED	3200.9	0.151T/T
	DISPOSAL	268.2	0.013T/T
2022	ALL	3122.37	0.14T/T
	RECOVERED	2806.53	0.13T/T
	DISPOSAL	315.84	0.014T/T
2023	ALL	2500.37	0.14T/T
	RECOVERED	2266.99	0.13T/T
	DISPOSAL	233.38	0.012T/T

Operator's comments :
PRODUCTION OUTPUT IS 18,122.44 TONNES

Signed ..[redacted]..... **Date**...25/01/24.....**(authorised to sign as representative of the Operator)**

Permit Reference Number: NP3030BJ **Operator: Enersys Ltd**

Permit Reference Number: ERP/NP3030BJ **Operator: Enersys Ltd**

Facility: Enersys Newport **Form Number:** E1

Reporting of Energy Usage for the year **01/01/2023 – 31/12/2023**

Energy Usage			
Energy Source	Energy Usage		CO_2 Produced (tonnes)
	Quantity (MWh)	Primary Energy (MWh)	
Electricity *	21,769	52245.6	8678.67
Natural Gas	13,479.35	13,479.35	2562.61
Gas Oil	0	0	0
Heavy Fuel Oil	0	0	0
TOTAL	35,248.35	65,724.95	11,241.28

* Conversion factor for delivered electricity to primary energy = Q x 2.4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO_2 produced	CO_2 per unit output
2018	77656.4	13242.7	0.5375T/T
2019	79403.7	13523.6	0.5186T/T
2020	63766.84	10871.4	0.6141T/T
2021	73565.93	12598.1	0.5947T/T
2022	70683.28	12038.66	0.5414T/T
2023	65,724.95	11241.28	0.6202T/T

Operator's comments :

ELECTRICITY CO2 PRODUCED = 52245.6 / 6.02
GAS CO2 PRODUCED = 13,479.35 / 5.26
PRODUCTION TONNAGE = 18,122.44

Signed [redacted] **Date**...25/01/24..... **(authorised to sign as representative of the Operator)**