

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: A1

Reporting of Emissions to Air for the period from: 01/01/2018 to 31/12/2018

Emission Point	Substance / Parameter	Emission Limit Value	Result	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty
A1	By-pass hours operated	-	---	---	---	---	---
A2	Oxides of Nitrogen (Gas)	150 mg/m ³	---	---	---	---	---
	Oxides of Nitrogen (Kerosene)	300 mg/m ³	---	---	---	---	---
A3	Oxides of Nitrogen	450 mg/m ³	N/A - Boiler 15 dismantled in 2013				
A4	Oxides of Nitrogen	75 mg/m ³	53.8	BS EN 14792	20/03/18 11:57 – 12:57	MCerts Lvl 2 + TE	2.4
			187.4		19/12/18 11:10 – 13:10		8.3
	Carbon Monoxide	100 mg/m ³	22.3	BS EN 15058	20/03/18 11:57 – 12:57	MCerts Lvl 2 + TE	1.4
			30.4		19/12/18 11:10 – 13:10		1.8
A6	HCl	10 mg/m ³	0.39	EN 1911	14/09/18 11:01 – 12:01	MCerts Lvl 2 + TE	0.02
	Chloromethane	---	4.0	CEN/TS 13649	21/03/18 14:50 – 15:50	MCerts Lvl 2 + TE	0.98
			0.3		27/06/18 09:30 – 10:30		0.05
			64.2		14/09/18 09:45 – 10:45		18.0
			137.3		20/12/18 10:20 – 12:20		27.4
A12	Phenol	5 g/hr	---	---	---	---	---
	Iso Decanol	50 g/hr	---	---	---	---	---
	Iso Octanol	50 g/hr	---	---	---	---	---
A30/A16	Benzene [Day Tank]	20 g/hr	2.5	---	2018 - Calculation	N/A	N/A
	Benzene [Bulk Tank]	100 g/hr	56.3	---	2018 - Calculation	N/A	N/A
A26	Oxides of Nitrogen	135 mg/m ³	340.0	BS EN 14792	21/03/18 10:47 – 11:47	MCerts Lvl 2 + TE	16.5
			208.1		18/12/18 11:00 – 12:00		11.9
	Benzene	5 mg/m ³	<0.13	CEN/TS 13649	21/03/18 10:45 – 11:45	MCerts Lvl 2 + TE	0.03
			4.0		18/12/18 11:00 – 12:00		0.8
A27	Oxides of Nitrogen	135 mg/m ³	377.5	BS EN 14792	21/03/18 12:40 – 13:40	MCerts Lvl 2 + TE	19.4
			47.7		18/12/18 11:00 – 12:00		10.7
	Benzene	5 mg/m ³	<0.05	---	21/03/18 12:40 – 13:40	MCerts Lvl 2 + TE	0.01
			0.8		18/12/18 11:00 – 12:00		0.16
A28	Oxides of Nitrogen	135 mg/m ³	103.3	BS EN 14792	28/06/18 12:16 – 13:16	MCerts Lvl 2 + TE	5.1
			95.9		28/06/18 10:42 – 11:42		9.1
A29	Oxides of Nitrogen	135 mg/m ³	89.1	BS EN 14792	28/06/18 13:26 – 14:26	MCerts Lvl 2 + TE	4.9
			85.9		13/09/18 12:02 – 13:02		6.5
A31/A32	Oxides of Nitrogen	75 mg/m ³	---	---	---	---	---

Signed *:



Date: 30/01/2019

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR9715IB
Operator: Solutia UK Ltd
Installation: Newport Chemical Complex

Form Number: A2

Reporting of Annual Emissions to Air for the year: 2018

Emission Point	Substance / Parameter	Annual Limit Kgs	Result
A2-A4	Oxides of Nitrogen	20000	16903
A2-A4 [*1]	Oxides of Sulphur	6000	---
A6	Chloromethane	42000	16007
A12 [*2]	Phenol	---	---
A15-17	Benzene	800	516

[*1] Effectively zero since final burning of HFO in 2012

[*2] The process associated with this emission point has ceased operation, and did not run from 2017 onwards

Signed *:



Date: 30/01/2019

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Date of Form: 31/03/11

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2018

Waste Description	Disposal			Recovery	
	Landfill D1	Treatment D9	Incineration D10	Cemfuel® R1	Material R2,R3,R4,R5
1) Hazardous Wastes					
Named haz. Waste	---	---	---	---	---
Other hazardous wastes	---	---	---	---	---
Total hazardous waste	0	0.2	12.9	1598.3	1.5
2) Non-Hazardous Wastes					
Named non-haz. Waste	---	---	---	---	---
Other non-hazardous wastes	---	---	---	---	---
Total non-hazardous waste	349.1	0	0	0	106.3
TOTAL WASTE	349.1	0.2	12.9	1598.3	107.8

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2010	778	1171	0.014
2011	1033	2104	0.022
2012	1122	2488	0.029
2013	1546	2662	0.035
2014	1106	2418	0.029
2015	1850	3019	0.034
2016	---	2148	0.026
2017	---	1563	0.018
2018	---	2068	0.021

Operator's comments:

The 'named & other' categories (greyed out above) are believed to be legacy reporting requirements, which pre-date more recent waste classifications. As such these have been omitted from this report form

Site Tonnage = 99304t

Signed *:



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Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: WU1

Reporting of Water Usage for the year: 2018

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	878218	8.84
Potable / Non-Potable	---	---
TOTAL WATER USAGE	878218	8.84

Trends in Water Usage	
Year	Total Water Usage
2010	1173469
2011	1166776
2012	988596
2013	1000672
2014	1032333
2015	943807
2016	782628
2017	844234
2018	878218

Operator's comments:

[1] Site Tonnage = 99304t

Signed *: 

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Date of Form: 31/03/11

Permit Reference Number: BR97151B
Operator: Solutia UK Ltd
Installation: Newport Chemical Complex

Form Number: E1

Reporting of Energy Usage for the year: 2018

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Delivered Energy MWh	Primary Energy (MWh)	
Electricity Imported ¹⁴	-5909	-14182	-2354
Site - Generated by CHP ⁵	18287	43889	---
Site - Generated by Wind Turbine	6647	6647	---
Gas ⁶	212568	212568	35286
Oil ²	0.0	0.0	0.0
TOTAL	237502	263104	35286

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per tonne product output
2010	197,261	35,666	0.41
2011	212,473	41,674	0.42
2012	249,192	45,375	0.53
2013	238,099	43,267	0.56
2014	225,798	41,161	0.49
2015	217,669	38,998	0.44
2016	178,200	36,827	0.44
2017	208,451	39,741	0.47
2018	248,922	35,286	0.36

Operator's comments:

1. Conversion factor for delivered electricity to primary energy = 2.4
2. CO₂ factor for electricity = 0.166
3. Site Tonnage = 99304t
4. There is a net export of electricity to other site tenants
5. CHP CO₂ not provided, as it is accounted for in the Gas usage
6. 2017 EUETS Conversion factors used for GJ>MWh

Signed *:



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Form Number: P1

Reporting of Performance Indicators for the year: 2018

Environmental Performance Indicators

Parameter	Annual Emission	Units	Trends in Environmental Performance							
			Year	Parameter						
				COD kg/t	DTA (mean NOEC)	VOCs kg/t	POCP Score	Bypass hrs	Auxiliary hrs	Efficiency CHP %
Effluent COD	1621650	kg	2010	8.9	19.8	<0.1	58	NA	NA	---
VOCs ^[1]	5383	kg	2011	10.2	11.8	<0.1	74	114	177	---
Ozone Creation (POCP)	28.0	t	2012	9.1	15.8	<0.1	61	7	161	---
CHP by-pass stack usage	0	hrs	2013	10.5	16.1	<0.1	62	7	460	---
Boiler 16 aux mode	1520	hrs	2014	9.0	25.9	<0.1	63	10	1608	---
CHP thermal efficiency	63.3	%	2015	9.4	^[2]	0.08	62	2	6688	---
			2016	9.6	---	0.06	26	NA	8417	---
			2017	15.1	---	0.07	31	NA	8414	---
			2018	16.3	---	0.05	28	NA	1520	---

Operator's comments:

1. Expressed as C
2. End of monitoring campaign in 2014
3. Site Tonnage = 99304t

Signed *: 

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