

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

Form Number: A2

Reporting of Annual Emissions to Air for the year: 2021

Emission Point	Substance / Parameter	Annual Limit Kgs	Result
A2-A4	Oxides of Nitrogen	20000	16276
A2-A4 [*1]	Oxides of Sulphur	6000	---
A6	Chloromethane	42000	11049
A15-17, A30	Benzene	800	496

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

Signed *:



Date: 28/01/2022

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR9715IB
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Installation: Newport Chemical Complex

Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2021

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	1.6	65.4	2695.4	1.6
2) Non-Hazardous Wastes					
Named non-haz. Waste	---	---	---	---	---
Other non-hazardous wastes	---	---	---	---	---
Total non-hazardous waste	72.2	0	6.4	0	85.8
TOTAL WASTE	72.2	1.6	71.8	2695.4	87.4

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
2019	---	2291	0.022
2020	---	2141	0.023
2021	---	2928	0.028

Operator's comments:

- Site Tonnage = 103919t

Signed *: 

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Permit Reference Number: BR9715IB
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Form Number: WU1

Reporting of Water Usage for the year: 2021

Water Source	Usage (m3)	Specific Usage (m3/t)
Main's water	918249	8.84
Potable / Non-Potable	---	---
TOTAL WATER USAGE	918249	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
2019	639368
2020	894000
2021	918249

Operator's comments:

- Site Tonnage = 103919t

Signed *: 

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

Form Number: E1

Reporting of Energy Usage for the year: 2021

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Delivered Energy MWh	Primary Energy (MWh)	
Electricity Imported	-7454	-17891	-2970
Site - Generated by CHP	21012	50430	---
Site - Generated by Wind Turbine	5337	5337	---
Gas	235960	235960	39169
Oil	0	0	0
TOTAL	254855	273836	36199

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	217669	38998	0.44
2016	178200	36827	0.44
2017	208451	39741	0.47
2018	248922	35286	0.36
2019	249489	35746	0.35
2020	273701	36399	0.39
2021	273836	36199	0.35

Operator's comments:

- Conversion factor for delivered electricity to primary energy = 2.4
- CO₂ factor CO₂/MWh = 0.166
- Site Tonnage = 103919t
- There is a net export of electricity to other site tenants (hence the negative number on import)
- CHP CO₂ not provided, as it is accounted for in the Gas usage [ONS Data]

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Permit Reference Number: BR9715IB
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Form Number: P1

Reporting of Performance Indicators for the year: 2021

Environmental Performance Indicators

Parameter	Annual Emission	Units
Effluent COD	1962369	kg
VOCs ^[1]	4132	kg
Ozone Creation (POCP)	23.6	t
CHP by-pass stack usage	0	hrs
Boiler 16 aux mode	188	hrs
CHP thermal efficiency	^[3]	%

Trends in Environmental Performance							
Year	Parameter						
	COD kg/t	DTA (mean NOEC)	VOCs kg/t	POCP Score	Bypass hrs	Auxiliary hrs	Efficiency CHP %
2010	8.9	19.8	<0.1	58	NA	NA	---
2011	10.2	11.8	<0.1	74	114	177	---
2012	9.1	15.8	<0.1	61	7	161	---
2013	10.5	16.1	<0.1	62	7	460	---
2014	9.0	25.9	<0.1	63	10	1608	---
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	---
2019	17.2	---	0.05	30	NA	438	---
2020	19.1	---	0.05	25	NA	437	---
2021	18.9	---	0.04	24	NA	188	---

Operator's comments:

- [1] Expressed as C
- [2] End of monitoring campaign in 2014
- [3] Pending annual CHPQA assessment
- Site Tonnage = 103919t

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