

NRW Annual
Submissions

Natural Resources Wales
Chester Road
Buckley
CH7 3AJ
Flintshire

Your Ref: LP 3738GG (BX4666IZ)

Date: 23rd June 2021

Subject: 2020 Annual Submissions

Whomever it may concern,

Please find attached our updated annual submissions report for the Optical Shops manufacturing of Infra red Products Permit LP3738GG (BX4666IZ).

If there is any additional information required please do not hesitate to contact me.

Yours Sincerely,

Paul Carline

EHS & Quality Systems Manager

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Permit Number: **BX4666IZ**

Operator: **Qioptiq LTD, St Asaph**

Facility: **St Asaph, Infra Red Optics**

Form Number: **A1 – Air**

ANNUAL: Reporting of emissions to air for the period from 01/01/20 to 31/12/20

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A2	Particulate Matter	1 mg/m ³	60 Minutes	0.13	BS EN 13284-1	2 nd November 2020 10 :28 – 11 :28	0.27
A5	Particulate Matter	1 mg/m ³	60 Minutes	0.91	BS EN 13284-1	4th November 2020 09 :20 – 10 :20	0.27
A7	Particulate Matter	1 mg/m ³	60 Minutes	0.35	BS EN 13284-1	2 nd November 2020 13 :30 -14 :30	0.28
A10	Particulate Matter	1 mg/m ³	60 Minutes	0.62	BS EN 13284-1	2 nd November 2020 11 :45 – 12 :45	0.27
A2,A5,A7,A10 COMBINED	Particulate Matter (g/annum) (See Note 1)	-	NA	8,483 g/annum	BS EN 13284-1	-	-
A2	White Spirit, expressed as C (mg/m ³)	-	30 Minutes	120	BS EN 13649	2 nd November 2020 10 :38 – 11 :08	18.03
A10	White Spirit, expressed as C (mg/m ³)	-	30 Minutes	96	BS EN 13649	2 nd November 2020 11 :45 – 12 :45	14
A2	Specified Metals (mg/m ³)	-	60 Minutes	0.0003	BS EN 14385	2 nd November 2020 10 :28 – 11 :28	0.0004
A5	Specified Metals (mg/m ³)	-	60 Minutes	0.0003	BS EN 14385	4th November 2020 09 :20 – 10 :20	0.0001
A7	Specified Metals (mg/m ³)	-	60 Minutes	0.0003	BS EN 14385	2 nd November 2020 13 :30 -14 :30	0.001
A10	Specified Metals (mg/m ³)	-	60 Minutes	0.0003	BS EN 14385	2 nd November 2020 11 :45 – 12 :45	0.001
A2,A5,A7,A10 COMBINED	Thallium and its compounds (g/annum)	-	N/A	0 *no thallium lenses processed in 2020*	N/A	N/A	
A2,A5,A7,A10 COMBINED	Gallium and its compounds (g/annum)	-	N/A	1.2560 g/annum	N/A	N/A	
A2,A5,A7,A10	Selenium and its compounds	-	N/A	1.2560 g/annum	N/A	N/A	

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Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
COMBINED	(g/annum)						
A2,A5,A7,A10 COMBINED	Arsenic and its compounds (g/annum)	-	N/A	1.2560 g/annum	N/A	N/A	
Installation A2 as C (A2, A10, A11)	Volatile Organic Compounds Kg/Annum	-	N/A	390 Kg/Annum	N/A	N/A	
A11	VOC	75 mg/m ³	30 Minutes	7.8 mg/m ³	BS EN 13649	3 rd November 2020 09:45 – 10:45	1.3
A2	Extraction Rate (m ³ s ⁻¹)		N/A	4.0	N/A	2 nd November 2020 10:15	0.17
A5	Extraction Rate (m ³ s ⁻¹)		N/A	3.8	N/A	4 th November 2020 09:05	0.17
A7	Extraction Rate (m ³ s ⁻¹)		N/A	3.8	N/A	2 nd November 2020 13:17	0.17
A10	Extraction Rate (m ³ s ⁻¹)		N/A	5.5	N/A	2 nd November 2020 11:40	
A11	Extraction Rate (m ³ s ⁻¹)		N/A	2.5	N/A	3 rd November 2020 09:30	0.12

Operator's comments:

Final annual total figures are based on standard working days in 2020 - 3 days shutdown over Christmas (261 – 2 = 258) , operating three shifts across the 24 hours calculated against the stack emissions g/hour result.
(g/hour x 6192) = Annual Total in g/annum

Signed
(Paul Carline EHS & Quality System Manager)

Date: 23rd June 2021