

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER O00352R
BOOKING IN REFERENCE O00352
DESPATCH NOTE 70185
CUSTOMER Tewkesbury Borough Council Attn: Kath Henly
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 08/01/2020

Location	Sample Number	Exposure Data			µg/m ³ *	ppb *	µg NO ₂ on tube
		Date On*	Date Off*	Time* (hr.)			
Scrivens 131 High St	1470380	05/12/2019	06/01/2020	768.25	50.36	26.28	2.81
43 Oldbury Rd, Tewkesbury	1470381	05/12/2019	06/01/2020	768.00	21.84	11.40	1.22
Kellands 13-14 Barton St	1470382	05/12/2019	06/01/2020	768.00	20.24	10.57	1.13
Age Concern 14 High St	1470383	05/12/2019	06/01/2020	768.00	30.96	16.16	1.73
69 Sussex Gardens Hucclecote	1470384	05/12/2019	06/01/2020	770.00	24.39	12.73	1.37
Comus Bamfurlong Lane	1470385	05/12/2019	06/01/2020	770.25	24.78	12.93	1.39
15 Withybridge Gardens Boddington	1470386	05/12/2019	06/01/2020	770.50	20.18	10.53	1.13
Snowhill Hill Farm Snowhill	1470387	05/12/2019	06/01/2020	770.75	5.62	2.93	0.32
Store 21 (formally M&S) High Street	1470388	05/12/2019	06/01/2020	768.00	34.59	18.06	1.93
The Cross Tewkesbury	1470389	05/12/2019	06/01/2020	768.00	24.58	12.83	1.37
Sanford 38 High St	1470390	05/12/2019	06/01/2020	768.00	28.20	14.72	1.57
Tackle Shop 31 Barton St	1470391	05/12/2019	06/01/2020	768.00	31.87	16.63	1.78
65 Barton St	1470392	05/12/2019	06/01/2020	768.00	35.13	18.34	1.96
Sue Ryder Care, 3 North St	1470393	05/12/2019	06/01/2020	770.50	16.54	8.63	0.93
43 Stocken Close Hucclecote	1470394	05/12/2019	06/01/2020	770.00	24.41	12.74	1.37
Ashchurch View Ashchurch Road	1470395	05/12/2019	06/01/2020	770.75	18.57	9.69	1.04
Stoke Road, Bishops Cleeve	1470396	05/12/2019	06/01/2020	770.25	21.97	11.47	1.23
Not on sheet	1500644			770.75	1.11	0.58	0.06
Laboratory Blank				770.75	0.23	0.12	0.013

Comment: Results are not blank subtracted

Tube 1470395 contained a spider. Result may be compromised.

Tube 1470397 was not received for analysis.

Tube 1500644 was received but not listed on the exposure sheet. Maximum exposure time was used.

Results have been corrected to a temperature of 293 K (20°)

Overall M.U. ±9.7%

Limit of Detection 0.043µgNO₂

The reported expanded uncertainty is based on a standard uncertainty multiplied by a factor of $k=2$, providing a level of confidence of approximately 95%. Uncertainty of measurement has not been applied to the reported results.

Tube Preparation: 50% TEA /Acetone

Analysed on UV CARY1

Analyst Name Aaron Nolan

Report Checked By Louise Mathers

Date of Analysis 14/01/2020

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Analysis carried out in accordance with documented in-house Laboratory Method GLM7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of these results
Signed.....
L. Gates, Laboratory Manager