

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER S07322R
BOOKING IN REFERENCE S07322
DESPATCH NOTE 93582
CUSTOMER Tewkesbury Borough Council Attn: Isabel Hooper
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 28/10/2024
JOB REFERENCE September 2024

Location	Sample Exposure Data				µg NO ₂		
	Number	Date On*	Date Off*	Time* (hr.)	µg/m ³ *	ppb *	on tube
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2514453	03/09/2024	03/10/2024	721.00	12.50	6.52	0.66
Kellands, 13-14, Barton Street, Tewkesbury 5N	2514454	03/09/2024	03/10/2024	721.50	20.42	10.66	1.07
Age Concern, 14, High Street, Tewkesbury 6N	2514455	03/09/2024	03/10/2024	720.50	27.14	14.16	1.42
69, Sussex Gardens, Hucclecote 14N	2514456	03/09/2024	03/10/2024	721.25	22.51	11.75	1.18
Comus, Bamfurlong, Staverton 15N	2514457	03/09/2024	03/10/2024	721.50	12.49	6.52	0.66
15, Withybridge Gardens, Withybridge 16N	2514458	03/09/2024	03/10/2024	719.50	21.26	11.10	1.11
Snowhill Farm, Snowhill 20N	2514459	03/09/2024	03/10/2024	721.75	4.63	2.42	0.24
Peacocks, High Street, Tewkesbury 35N	2514460	03/09/2024	03/10/2024	720.25	26.57	13.87	1.39
Wetherspoons, The Cross, Tewkesbury 37N	2514461	03/09/2024	03/10/2024	720.00	21.36	11.15	1.12
Avonside, 38, High Street, Tewkesbury 38N	2514462	03/09/2024	03/10/2024	720.50	21.43	11.18	1.12
The Tackle Shop, 31, Barton Street, Tewkesbury 41N	2514463	03/09/2024	03/10/2024	721.25	26.84	14.01	1.41
65, Barton Street, Tewkesbury 47N	2514464	03/09/2024	03/10/2024	721.25	6.94	3.62	0.36
The White Hart, Castle Street, Winchcombe 50N	2514465	03/09/2024	03/10/2024	721.50	15.29	7.98	0.80
43, Stocken Close, Hucclecote 52N	2514466	03/09/2024	03/10/2024	721.00	17.59	9.18	0.92
Ashchurch Road, Ashchurch, Tewkesbury 53N	2514467	03/09/2024	03/10/2024	721.58	11.35	5.92	0.60
Stoke Road, Bishops Cleeve 55N	2514468	03/09/2024	03/10/2024	721.15	13.51	7.05	0.71
Tewkesbury Church of England	2514469	03/09/2024	03/10/2024	721.00	9.08	4.74	0.48
Primary School, Rope Walk, Tewkesbury 56N							
15, Kestrel Way, Northway, Tewkesbury 57N	2514470	03/09/2024	03/10/2024	723.42	12.21	6.37	0.64
Not on sheet	2477277			723.42	<0.76	<0.40	<0.040
Laboratory Blank				723.42	0.08	0.04	0.004

Comment: Results are not blank subtracted

Tubes 2514452 & 2514471 were missing on arrival.

Tube 2477277 was received but not listed on the exposure sheet. Maximum exposure time was used.

Tubes 2514465, 2514467 & 2514469 contained spiders. Results may be compromised.

Results reported as <0.040 are below the reporting limit.

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

Overall M.U. ±9.7%

Limit of Detection 0.040µgNO₂

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 CARY2

Analyst Name Gordon Clemenson

Report Checked By Marek Bianga

Date of Analysis 31/10/2024

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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.