



Customer:



Testing Facility:

SOCOTEC
Unit 12
Moorbrook
Southmead Industrial
Park
Didcot
Oxfordshire
OX11 7HP

Quotation
Number:

DIF-ANU-10978
(Period 2)

Samples
Received:

06 March 2023

Customer
Order Number:

Analysis
Completed:

09 March 2023

Customer
Reference:

Report Date:

10 March 2023

Nitrogen Dioxide Diffusion Tube Analysis Report

The samples have been analysed in accordance with SOCOTEC's standard operating procedure ANU/SOP/1015. This method meets the guidelines set out in DEFRA's 'Diffusion Tubes for Ambient NO₂ Monitoring: Practical Guidance.'

The tubes were prepared by spiking acetone:triethanolamine (50:50) onto the grids prior to the tubes being assembled. The tubes were desorbed with distilled water and the extract analysed using a segmented flow auto analyser with ultraviolet detection. All samples were received in good condition, unless otherwise stated in the comments field of results table. Please note:

- (i) As set out in the practical guidance, the results were initially calculated assuming an ambient temperature of 11°C, the reported values **have** been adjusted to 20°C to allow for direct comparison with EU limits.
- (ii) The reported results have not been bias adjusted.

This analysis of diffusion tube samples to determine the amount of nitrogen dioxide present on the tube is within the scope of our UKAS schedule. Any further calculations and assessments requiring exposure details and conditions fall outside the scope of our accreditation. In the AIR PT intercomparison scheme for comparing spiked Nitrogen Dioxide diffusion tubes, SOCOTEC currently holds the highest rank of a **Satisfactory** laboratory.

This report shall not be reproduced except in full without approval of the laboratory.

Approved By



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB2S1	Oxey Mead Lake 1	30/01/2023 07:45	01/03/2023 08:15	720.50	0.62	12.2	6.4	
OCC/23B/NB2S2	Oxey Mead Lake 2	30/01/2023 07:45	01/03/2023 08:15	720.50	0.88	17.4	9.1	
OCC/23B/NB2S3	Oxey Mead Lake 3	30/01/2023 07:45	01/03/2023 08:15	720.50	1.61	32.1	16.7	
OCC/23B/NB2S4	Wolvercote Village	30/01/2023 08:00	01/03/2023 08:36	720.60	0.79	15.7	8.2	
OCC/23B/NB2S5	Wolvercote Primary School	30/01/2023 08:10	01/03/2023 08:46	720.60	0.94	18.8	9.8	
OCC/23B/NB2S6	306 Woodstock Road	30/01/2023 08:19	01/03/2023 08:50	720.52	0.91	18.2	9.5	
OCC/23B/NB2S7	339 Bambury Road	30/01/2023 08:24	01/03/2023 08:55	720.52	1.09	21.7	11.3	
OCC/23B/NB2S8	191 Woodstock Road	30/01/2023 08:34	01/03/2023 09:02	720.47	0.73	14.6	7.6	
OCC/23B/NB2S9	48 Woodstock Road	30/01/2023 08:39	01/03/2023 09:07	720.47	1.37	27.2	14.1	



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB2S10	99 Bambury Road	30/01/2023 08:47	01/03/2023 09:13	720.43	0.37	7.3	3.8	
OCC/23B/NB2S11	95 Parks Road	30/01/2023 08:59	01/03/2023 09:21	720.37	1.16	23.1	12	
OCC/23B/NB2S12	15 Bambury Road	30/01/2023 09:05	01/03/2023 09:27	720.37	1.1	22	11.4	
OCC/23B/NB2S13	Walton Street 76	30/01/2023 09:11	01/03/2023 09:32	720.35	1.51	30	15.6	
OCC/23B/NB2S14	69 Kingston Road	30/01/2023 09:14	01/03/2023 09:36	720.37	0.93	18.5	9.6	
OCC/23B/NB2S15	Park End Street	30/01/2023 09:23	01/03/2023 09:44	720.35	2.39	47.5	24.7	
OCC/23B/NB2S16	St Aldates 61	30/01/2023 09:36	01/03/2023 09:49	720.22	1.64	32.6	17	
OCC/23B/NB2S17	94 Howard St/ Catherine St	30/01/2023 09:46	01/03/2023 10:02	720.27	0.97	19.3	10	
OCC/23B/NB2S18	110 Magdalen Road	30/01/2023 09:50	01/03/2023 10:05	720.25	1.08	21.5	11.2	



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB2S19	Iffley Rd/ Stanley Rd	30/01/2023 09:53	01/03/2023 10:08	720.25	1.55	30.8	16	
OCC/23B/NB2S20	26 Prince St	30/01/2023 10:02	01/03/2023 10:17	720.25	0.93	18.5	9.6	
OCC/23B/NB2S21	East Oxford Primary School	30/01/2023 10:10	01/03/2023 10:25	720.25	1.05	20.9	10.8	
OCC/23B/NB2S22	143 Morrel Av	30/01/2023 10:14	01/03/2023 10:32	720.30	1.13	22.5	11.7	
OCC/23B/NB2S23	138 - 146 Morrel Av	30/01/2023 10:16	01/03/2023 10:34	720.30	1.18	23.5	12.2	
OCC/23B/NB2S24	189 Divinity Rd	30/01/2023 10:18	01/03/2023 10:36	720.30	0.69	13.7	7.1	
OCC/23B/NB2S25	90 Valentia Rd	30/01/2023 10:23	01/03/2023 10:40	720.28	0.87	17.3	9	
OCC/23B/NB2S26	Hinksey hill/ Headington Rd	30/01/2023 10:39	01/03/2023 10:52	720.22	3.57	71	36.9	
OCC/23B/NB2S27	Marston Rd, St Michaels Primary School	30/01/2023 10:43	01/03/2023 11:00	720.28	0.95	19	9.9	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB2S28	189 Headley Way	30/01/2023 10:50	01/03/2023 11:05	720.25	1.23	24.5	12.7	
OCC/23B/NB2S29	7 Woodlands Rd	30/01/2023 10:52	01/03/2023 11:10	720.30	0.84	16.7	8.7	
OCC/23B/NB2S30	21 Latimer Rd	30/01/2023 10:56	01/03/2023 11:13	720.28	0.97	19.3	10	
OCC/23B/NB2S31	Ruskin Hall/ Dunstan Rd	30/01/2023 11:01	01/03/2023 11:18	720.28	0.97	19.4	10.1	
OCC/23B/NB2S32	19 Wharton Rd	30/01/2023 11:06	01/03/2023 11:24	720.30	0.79	15.7	8.1	
OCC/23B/NB2S33	255 London Rd/ Gladstone Rd	30/01/2023 11:13	01/03/2023 11:27	720.23	1.21	24.1	12.5	
OCC/23B/NB2S34	25 Gladstone Rd	30/01/2023 11:15	01/03/2023 11:30	720.25	0.63	12.5	6.5	
OCC/23B/NB2S35	JR	30/01/2023 11:25	01/03/2023 11:39	720.23	1.34	26.6	13.8	
OCC/23B/NB2S36	Marston Ferry Rd/ Cherwell Drive	30/01/2023 11:35	01/03/2023 11:46	720.18	0.66	13.2	6.9	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB2S37	39 Marsh Lane	30/01/2023 11:30	01/03/2023 11:49	720.32	1.24	24.7	12.8	
OCC/23B/NB2S38	North way/ Cutteslowe Park	30/01/2023 11:42	01/03/2023 11:55	720.22	1.54	30.7	16	
OCC/23B/NB2S39	Northern bypass/ Phillips Tyres	30/01/2023 11:48	01/03/2023 12:02	720.23	2.19	43.5	22.6	
OCC/23B/NB2S40	Horsparth driftway/ Agwar stone Rd	30/01/2023 12:21	01/03/2023 12:26	720.08	1.31	26.1	13.6	
OCC/23B/NB2S41	126 The Slade	30/01/2023 12:31	01/03/2023 12:34	720.05	1.57	31.2	16.2	
OCC/23B/NB2S42	109 Old Rd	30/01/2023 12:33	01/03/2023 12:38	720.08	1.23	24.4	12.7	
OCC/23B/NB2S43	47 Quarry Rd	30/01/2023 12:38	01/03/2023 12:41	720.05	1.07	21.3	11.1	
OCC/23B/NB2S44	4 Quarry School	30/01/2023 12:40	01/03/2023 12:44	720.07	1.06	21.1	11	
OCC/23B/NB2S45	99 Oliver Rd	30/01/2023 12:50	01/03/2023 12:59	720.15	2.02	40.2	20.9	





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OCC/23B/NB2S46	Brasenose Farm (Eastern bypass)	30/01/2023 12:58	01/03/2023 13:07	720.15	2.59	51.6	26.8	
OCC/23B/NB2S47	22 Garsington Rd	30/01/2023 13:06	01/03/2023 13:15	720.15	1.39	27.7	14.4	
OCC/23B/NB2S48	St Christophers Primary School	30/01/2023 13:12	01/03/2023 13:23	720.18	0.89	17.7	9.2	
OCC/23B/NB2S49	119 Barns Rd	30/01/2023 13:20	01/03/2023 13:29	720.15	1.28	25.4	13.2	
OCC/23B/NB2S50	Oxford Rd/ Newman Rd	30/01/2023 13:29	01/03/2023 13:37	720.13	2.19	43.7	22.7	
OCC/23B/NB2S51	A34 Wolvercote Meadows	30/01/2023 13:43	01/03/2023 13:53	720.17	2.34	46.6	24.3	
OCC/23B/NB2S52	A34 Wolvercote Meadows 2	30/01/2023 13:48	01/03/2023 13:58	720.17	1.94	38.5	20	
OCC/23B/NB2S53	67 Southern bypass	30/01/2023 13:52	01/03/2023 14:03	720.18	3.22	64	33.3	

