



Customer:



Testing Facility:

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

Quotation
Number:

DIF-ANU-10978
(Period 3)

Samples
Received:

05 April 2023

Customer
Order Number:

Analysis
Completed:

11 April 2023

Customer
Reference:

Report Date:

12 April 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



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Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB3S1	Oxey Mead Lake 1	01/03/2023 08:15	03/04/2023 07:30	791.25	0.55	10	5.2	
OCC/23B/NB3S2	Oxey Mead Lake 2	01/03/2023 08:15	03/04/2023 07:30	791.25	0.79	14.4	7.5	
OCC/23B/NB3S3	Oxey Mead Lake 3	01/03/2023 08:15	03/04/2023 07:30	791.25	1.26	22.8	11.8	
OCC/23B/NB3S4	Wolvercote Village	01/03/2023 08:36	03/04/2023 07:37	791.02	0.75	13.6	7.1	
OCC/23B/NB3S5	Wolvercote Primary School	01/03/2023 08:46	03/04/2023 07:42	790.93	0.83	15.1	7.9	
OCC/23B/NB3S6	306 Woodstock Road	01/03/2023 08:50	03/04/2023 07:48	790.97	0.82	14.9	7.8	
OCC/23B/NB3S7	339 Bambury Road	01/03/2023 08:55	03/04/2023 07:52	790.95	1.57	28.5	14.8	
OCC/23B/NB3S8	191 Woodstock Road	01/03/2023 09:02	03/04/2023 07:58	790.93	1.27	22.9	11.9	
OCC/23B/NB3S9	48 Woodstock Road	01/03/2023 09:07	03/04/2023 08:03	790.93	1.33	24.1	12.5	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB3S10	99 Bambury Road	01/03/2023 09:13	03/04/2023 08:08	790.92	1.3	23.6	12.3	
OCC/23B/NB3S11	95 Parks Road	01/03/2023 09:21	03/04/2023 08:16	790.92	0.98	17.8	9.3	
OCC/23B/NB3S12	15 Bambury Road	01/03/2023 09:27	03/04/2023 08:21	790.90	0.89	16.1	8.4	
OCC/23B/NB3S13	Walton Street 76	01/03/2023 09:32	03/04/2023 08:27	790.92	1.17	21.1	11	
OCC/23B/NB3S14	69 Kingston Road	01/03/2023 09:36	03/04/2023 08:29	790.88	0.85	15.4	8	
OCC/23B/NB3S15	Park End Street	01/03/2023 09:44	03/04/2023 08:37	790.88	2.16	39.2	20.4	
OCC/23B/NB3S16	St Aldates 61	01/03/2023 09:49	03/04/2023 08:45	790.93	1.65	29.8	15.5	
OCC/23B/NB3S17	94 Howard St/ Catherine St	01/03/2023 10:02	03/04/2023 08:56	790.90	0.75	13.7	7.1	
OCC/23B/NB3S18	110 Magdalen Road							Missing



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Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB3S19	Iffley Rd/ Stanley Rd	01/03/2023 10:08	03/04/2023 09:09	791.02	1.45	26.2	13.6	
OCC/23B/NB3S20	26 Prince St	01/03/2023 10:17	03/04/2023 09:40	791.38	0.71	12.8	6.7	
OCC/23B/NB3S21	East Oxford Primary School	01/03/2023 10:25	03/04/2023 09:42	791.28	0.81	14.7	7.7	
OCC/23B/NB3S22	143 Morrel Av	01/03/2023 10:32	03/04/2023 09:48	791.27	0.98	17.8	9.2	
OCC/23B/NB3S23	138 - 146 Morrel Av	01/03/2023 10:34	03/04/2023 09:50	791.27	0.85	15.3	8	
OCC/23B/NB3S24	189 Divinity Rd	01/03/2023 10:36	03/04/2023 09:52	791.27	0.74	13.5	7	
OCC/23B/NB3S25	90 Valentia Rd	01/03/2023 10:40	03/04/2023 09:54	791.23	0.6	10.9	5.7	
OCC/23B/NB3S26	Hinksey hill/ Headington Rd	01/03/2023 10:52	03/04/2023 10:05	791.22	3.85	69.7	36.2	
OCC/23B/NB3S27	Marston Rd, St Michaels Primary School	01/03/2023 11:00	03/04/2023 10:13	791.22	0.93	16.8	8.7	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB3S28	189 Headley Way	01/03/2023 11:05	03/04/2023 10:19	791.23	1.3	23.6	12.3	
OCC/23B/NB3S29	7 Woodlands Rd	01/03/2023 11:10	03/04/2023 10:22	791.20	0.71	12.8	6.6	
OCC/23B/NB3S30	21 Latimer Rd	01/03/2023 11:13	03/04/2023 10:24	791.18	0.8	14.5	7.6	
OCC/23B/NB3S31	Ruskin Hall/ Dunstan Rd	01/03/2023 11:18	03/04/2023 10:30	791.20	1.25	22.6	11.7	
OCC/23B/NB3S32	19 Wharton Rd	01/03/2023 11:24	03/04/2023 10:36	791.20	0.72	13	6.8	
OCC/23B/NB3S33	255 London Rd/ Gladstone Rd	01/03/2023 11:27	03/04/2023 10:39	791.20	1.65	29.8	15.5	
OCC/23B/NB3S34	25 Gladstone Rd	01/03/2023 11:30	03/04/2023 10:40	791.17	0.77	14	7.3	
OCC/23B/NB3S35	JR	01/03/2023 11:39	03/04/2023 10:50	791.18	1.33	24.2	12.6	
OCC/23B/NB3S36	Marston Ferry Rd/ Cherwell Drive	01/03/2023 11:46	03/04/2023 10:57	791.18	0.99	17.9	9.3	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NB3S37	39 Marsh Lane	01/03/2023 11:49	03/04/2023 11:03	791.23	1.1	19.9	10.3	
OCC/23B/NB3S38	North way/ Cutteslowe Park	01/03/2023 11:55	03/04/2023 11:08	791.22	1.43	25.9	13.5	
OCC/23B/NB3S39	Northern bypass/ Phillips Tyres	01/03/2023 12:02	03/04/2023 11:15	791.22	2.34	42.4	22	
OCC/23B/NB3S40	Horsparth driftway/ Agwar stone Rd	01/03/2023 12:26	03/04/2023 11:25	790.98	1.29	23.4	12.2	
OCC/23B/NB3S41	126 The Slade	01/03/2023 12:34	03/04/2023 11:32	790.97	1.46	26.5	13.8	
OCC/23B/NB3S42	109 Old Rd	01/03/2023 12:38	03/04/2023 11:35	790.95	0.9	16.3	8.5	
OCC/23B/NB3S43	47 Quarry Rd	01/03/2023 12:41	03/04/2023 11:37	790.93	0.79	14.3	7.4	
OCC/23B/NB3S44	4 Quarry School	01/03/2023 12:44	03/04/2023 11:39	790.92	0.95	17.2	8.9	
OCC/23B/NB3S45	99 Oliver Rd	01/03/2023 12:59	03/04/2023 11:52	790.88	2.07	37.4	19.5	



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OCC/23B/NB3S46	Brasenose Farm (Eastern bypass)	01/03/2023 13:07	03/04/2023 12:00	790.88	2.43	44	22.9	
OCC/23B/NB3S47	22 Garsington Rd	01/03/2023 13:15	03/04/2023 12:09	790.90	1.03	18.6	9.7	
OCC/23B/NB3S48	St Christophers Primary School	01/03/2023 13:23	03/04/2023 12:15	790.87	0.75	13.7	7.1	
OCC/23B/NB3S49	119 Barns Rd	01/03/2023 13:29	03/04/2023 12:22	790.88	1.01	18.2	9.5	
OCC/23B/NB3S50	Oxford Rd/ Newman Rd	01/03/2023 13:37	03/04/2023 12:35	790.97	1.94	35.2	18.3	
OCC/23B/NB3S51	A34 Wolvercote Meadows	01/03/2023 13:53	03/04/2023 12:48	790.92	2.37	42.9	22.3	
OCC/23B/NB3S52	A34 Wolvercote Meadows 2	01/03/2023 13:58	03/04/2023 12:53	790.92	1.86	33.7	17.5	
OCC/23B/NB3S53	67 Southern bypass	01/03/2023 14:03	03/04/2023 13:00	790.95	3.51	63.7	33.1	

