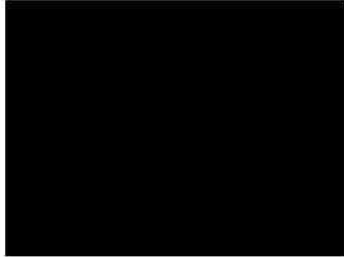




Customer:



Testing Facility:

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

Quotation  
Number:

DIF-ANU-10978  
(Period 2)

Samples  
Received:

06 July 2023

Customer  
Order Number:

Analysis  
Completed:

12 July 2023

Customer  
Reference:

Report Date:

13 July 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 NO<sub>2</sub> 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 <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S1	Oxey Mead Lake 1	30/05/2023 09:10	03/07/2023 06:30	813.33	0.36	6.4	3.3	Spider in tube
OCC/23B/NE2S2	Oxey Mead Lake 2	30/05/2023 09:10	03/07/2023 06:30	813.33	1.05	18.4	9.6	
OCC/23B/NE2S3	Oxey Mead Lake 3	30/05/2023 09:10	03/07/2023 06:30	813.33	1.71	30.1	15.6	
OCC/23B/NE2S4	Wolvercote Village	30/05/2023 09:30	03/07/2023 06:30	813.00	0.59	10.4	5.4	
OCC/23B/NE2S5	Wolvercote Primary School	30/05/2023 09:35	03/07/2023 06:40	813.08	0.61	10.8	5.6	
OCC/23B/NE2S6	306 Woodstock Road	30/05/2023 09:40	03/07/2023 06:45	813.08	0.68	12	6.3	
OCC/23B/NE2S7	339 Bambury Road	30/05/2023 09:50	03/07/2023 06:50	813.00	1.13	19.8	10.3	
OCC/23B/NE2S8	191 Woodstock Road	30/05/2023 10:00	03/07/2023 06:55	812.92	1.02	18	9.4	
OCC/23B/NE2S9	48 Woodstock Road	30/05/2023 10:05	03/07/2023 07:00	812.92	1.07	18.8	9.8	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S10	99 Bambury Road							Lost
OCC/23B/NE2S11	95 Parks Road	30/05/2023 10:15	03/07/2023 07:20	813.08	0.8	14.1	7.3	
OCC/23B/NE2S12	15 Bambury Road	30/05/2023 10:20	03/07/2023 07:25	813.08	0.78	13.7	7.1	
OCC/23B/NE2S13	Walton Street 76	30/05/2023 10:40	03/07/2023 07:30	812.83	0.72	12.7	6.6	
OCC/23B/NE2S14	69 Kingston Road	30/05/2023 10:50	03/07/2023 07:30	812.67	0.53	9.4	4.9	
OCC/23B/NE2S15	Park End St							Lost
OCC/23B/NE2S16	St Aldates 61	30/05/2023 11:20	03/07/2023 07:50	812.50	1.08	19	9.9	
OCC/23B/NE2S17	94 Howard St/ Catherine St	30/05/2023 11:25	03/07/2023 08:05	812.67	0.48	8.6	4.4	
OCC/23B/NE2S18	110 Magdalen Road	30/05/2023 11:30	03/07/2023 08:05	812.58	0.52	9.3	4.8	



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S19	Iffley Rd/ Stanley Rd	30/05/2023 11:40	03/07/2023 08:10	812.50	1.2	21.2	11	
OCC/23B/NE2S20	26 Prince St	30/05/2023 11:50	03/07/2023 08:40	812.83	0.54	9.5	4.9	
OCC/23B/NE2S21	East Oxford Primary School	30/05/2023 12:00	03/07/2023 08:40	812.67	0.56	9.8	5.1	
OCC/23B/NE2S22	143 Morrel Av	30/05/2023 12:10	03/07/2023 08:45	812.58	0.95	16.7	8.7	
OCC/23B/NE2S23	138 - 146 Morrel Av	30/05/2023 12:25	03/07/2023 08:45	812.33	0.75	13.2	6.9	
OCC/23B/NE2S24	189 Divinity Rd	30/05/2023 12:42	03/07/2023 08:50	812.13	0.44	7.8	4	
OCC/23B/NE2S25	90 Valentia Rd	30/05/2023 12:50	03/07/2023 08:55	812.08	0.42	7.4	3.9	
OCC/23B/NE2S26	Hinksey hill/ Headington Rd	30/05/2023 13:15	03/07/2023 09:05	811.83	4.4	77.6	40.4	
OCC/23B/NE2S27	Marston Rd, St Michaels Primary School	30/05/2023 13:30	03/07/2023 09:15	811.75	0.55	9.7	5	



1252





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S28	189 Headley Way	30/05/2023 13:35	03/07/2023 09:20	811.75	1.05	18.5	9.6	
OCC/23B/NE2S29	7 Woodlands Rd	30/05/2023 13:40	03/07/2023 09:20	811.67	0.38	6.7	3.5	
OCC/23B/NE2S30	21 Latimer Rd	30/05/2023 13:45	03/07/2023 09:25	811.67	0.55	9.8	5.1	
OCC/23B/NE2S31	Ruskin Hall/ Dunstan Rd	30/05/2023 13:50	03/07/2023 09:30	811.67	0.78	13.8	7.2	
OCC/23B/NE2S32	19 Wharton Rd	30/05/2023 14:00	03/07/2023 09:35	811.58	0.54	9.4	4.9	
OCC/23B/NE2S33	255 London Rd/ Gladstone Rd	30/05/2023 14:20	03/07/2023 09:40	811.33	1.29	22.9	11.9	
OCC/23B/NE2S34	25 Gladstone Rd	30/05/2023 14:40	03/07/2023 09:40	811.00	0.57	10.1	5.3	
OCC/23B/NE2S35	JR	30/05/2023 15:00	03/07/2023 10:50	811.83	1.36	24.1	12.5	
OCC/23B/NE2S36	Marston Ferry Rd/ Cherwell Drive	30/05/2023 15:10	03/07/2023 10:45	811.58	0.61	10.7	5.6	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S37	39 Marsh Lane	30/05/2023 15:15	03/07/2023 11:00	811.75	0.8	14.2	7.4	
OCC/23B/NE2S38	North way/ Cutteslowe Park	30/05/2023 15:20	03/07/2023 11:05	811.75	1.51	26.6	13.8	Spider in tube
OCC/23B/NE2S39	Northern bypass/ Phillips Tyres							?-*Previous tube had not Been collected
OCC/23B/NE2S40	Horsparth driftway/ Agwar stone Rd	30/05/2023 15:30	03/07/2023 11:20	811.83	1.01	17.9	9.3	
OCC/23B/NE2S41	126 The Slade	30/05/2023 16:10	03/07/2023 11:30	811.33	1.18	20.9	10.9	
OCC/23B/NE2S42	109 Old Rd	30/05/2023 16:20	03/07/2023 11:40	811.33	0.61	10.7	5.6	
OCC/23B/NE2S43	47 Quarry Rd	30/05/2023 16:25	03/07/2023 11:40	811.25	0.55	9.7	5.1	
OCC/23B/NE2S44	4 Quarry School	30/05/2023 16:35	03/07/2023 11:45	811.17	0.59	10.4	5.4	Spider in tube
OCC/23B/NE2S45	99 Oliver Rd	30/05/2023 16:40	03/07/2023 11:50	811.17	1.15	20.4	10.6	



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE2S46	Brasenose Farm (Eastern bypass)	30/05/2023 16:50	03/07/2023 12:00	811.17	2.76	48.7	25.3	
OCC/23B/NE2S47	22 Garsington Rd	30/05/2023 16:55	03/07/2023 12:10	811.25	1.02	18.1	9.4	
OCC/23B/NE2S48	St Christophers Primary School	30/05/2023 17:05	03/07/2023 12:15	811.17	0.39	7	3.6	
OCC/23B/NE2S49	119 Barns Rd	30/05/2023 17:15	03/07/2023 12:20	811.08	0.66	11.6	6	
OCC/23B/NE2S50	Oxford Rd/ Newman Rd	30/05/2023 17:25	03/07/2023 12:32	811.12	2.15	38	19.8	
OCC/23B/NE2S51	A34 Wolvercote Meadows	30/05/2023 17:40	03/07/2023 12:45	811.08	2.4	42.3	22	
OCC/23B/NE2S52	A34 Wolvercote Meadows 2	30/05/2023 17:50	03/07/2023 12:50	811.00	1.25	22.1	11.5	
OCC/23B/NE2S53	67 Southern bypass	30/05/2023 18:00	03/07/2023 13:00	811.00	2.67	47.2	24.5	
OCC/23B/NE2S54	Church Cowley Rd	30/05/2023 17:30	03/07/2023 12:25	810.92	1.37	24.2	12.6	

