

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER M07493R
BOOKING IN REFERENCE M07493
DESPATCH NOTE 29991
CUSTOMER Tewkesbury Borough Council Attn: Kath Henly
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 23/10/2018

| Location | Sample Number | Exposure Data | | | Time (hr.) | µg/m ³ * | ppb * | TOTAL µg NO ₂ |
|------------------|---------------|---------------|------------|---------|------------|---------------------|-------|--------------------------|
| | | Date On | Date Off | | | | | |
| 18/9/(3)1N | 1221531 | 06/09/2018 | 05/10/2018 | 699.25 | 25.44 | 13.28 | 1.29 | |
| 18/9/(3)2N | 1221532 | 06/09/2018 | 05/10/2018 | 699.25 | 17.51 | 9.14 | 0.89 | |
| 18/9/5N | 1221533 | 06/09/2018 | 05/10/2018 | 699.00 | 23.40 | 12.22 | 1.19 | |
| 18/9/6N | 1221534 | 06/09/2018 | 05/10/2018 | 699.25 | 29.55 | 15.43 | 1.50 | |
| 18/9/14N | 1221535 | 06/09/2018 | 05/10/2018 | 697.00 | 26.77 | 13.97 | 1.36 | |
| 18/8/15N | 1186242 | 03/08/2018 | 05/10/2018 | 1512.00 | 31.65 | 16.52 | 3.48 | |
| 18/9/16N | 1221537 | 06/09/2018 | 05/10/2018 | 697.00 | 26.31 | 13.73 | 1.33 | |
| 18/9/20N | 1221538 | 03/09/2018 | 03/10/2018 | 720.75 | 4.87 | 2.54 | 0.26 | |
| 18/9/35N | 1221539 | 06/09/2018 | 05/10/2018 | 699.25 | 37.68 | 19.67 | 1.92 | |
| 18/9/37N | 1221540 | 06/09/2018 | 05/10/2018 | 699.25 | 22.71 | 11.85 | 1.15 | |
| 18/9/38N | 1221541 | 06/09/2018 | 05/10/2018 | 699.25 | 27.13 | 14.16 | 1.38 | |
| 18/9/41N | 1221542 | 06/09/2018 | 05/10/2018 | 699.50 | 31.63 | 16.51 | 1.61 | |
| 18/9/47N | 1221543 | 06/09/2018 | 05/10/2018 | 699.50 | 31.55 | 16.47 | 1.60 | |
| 18/9/50N | 1221544 | 03/09/2018 | 03/10/2018 | 720.75 | 19.51 | 10.18 | 1.02 | |
| 18/9/52N | 1221545 | 06/09/2018 | 05/10/2018 | 697.00 | 27.79 | 14.51 | 1.41 | |
| 18/9/53N | 1221546 | 03/09/2018 | 03/10/2018 | 720.75 | 26.42 | 13.79 | 1.38 | |
| 18/9/BLANK | 1221548 | | | 720.75 | 0.23 | 0.12 | 0.01 | |
| Laboratory Blank | | | | 720.75 | 0.23 | 0.12 | 0.012 | |

Comment: Results are not blank subtracted

Tube 1221547 was not received for analysis.

Tube 1186242 was exposed for longer than the recommended time. Result may be compromised.

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

Overall M.U. ±9.7%

Tube Preparation : 50% TEA /Acetone

Analyst Name Amber Silvester

Date of Analysis 30/10/2018

Limit of Detection 0.043µgNO₂

Analysed on UV CARY1

Report Checked By Adam Robinson

Date of Report 30/10/2018

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. 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. The results within this report relate only to the items tested. 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.

Form LQF32b Issue 8 – June 2018

Report Number M07493R

Page 1 of 1

REPORT OFFICIALLY CHECKED

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