

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V. SPECTROPHOTOMETRY

REPORT NUMBER 44128
BOOKING IN REFERENCE No E 1770
CUSTOMER South Holland District Council
Council Offices, Priory Road
Spalding, Lincolnshire PE11 2XE
DATE SAMPLES RECEIVED 06/04/2011

Mar-11	Exposure Data					TOTAL
Tube Number	Date On	Date Off	Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	$\mu\text{G NO}_2$
1	03/03/2011	29/03/2011	621.58	13.02	6.79	0.59
2	04/03/2011	01/04/2011	671.67	16.43	8.57	0.80
3	04/03/2011	01/04/2011	669.75	20.58	10.74	1.00
4	04/03/2011	31/03/2011	647.42	19.42	10.14	0.91
5	03/03/2011	31/03/2011	676.00	20.31	10.60	1.00
6	04/03/2011	01/04/2011	671.62	27.98	14.61	1.37
7	04/03/2011	01/04/2011	671.58	21.72	11.33	1.06
8	04/03/2011	01/04/2011	671.75	13.64	7.12	0.67
9	04/03/2011	01/04/2011	671.75	13.35	6.97	0.65
10	04/03/2011	01/04/2011	671.75	14.75	7.70	0.72
11	04/03/2011	01/04/2011	671.58	23.79	12.41	1.16
13	03/03/2011	31/03/2011	673.25	33.15	17.30	1.62
14	04/03/2011	01/04/2011	671.42	25.41	13.26	1.24
15	03/03/2011	31/03/2011	673.58	29.76	15.53	1.46
16	03/03/2011	31/03/2011	687.75	17.87	9.32	0.89
17	03/03/2011	31/03/2011	670.25	29.60	15.45	1.44
18	04/03/2011	29/03/2011	598.67	28.15	14.69	1.23
12 Travel Blank			687.75	1.04	0.54	0.05

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

REPORT OFFICIALLY CHECKED

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

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Lab Blank	687.75	0.38	0.20	0.019
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Comment: Results are not blank subtracted

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

Overall M.O.U.

7.8% +/-

Limit of Detection

0.060µgNO₂

Tube Preparation : 50% TEA /Acetone

Analysed on UVS04 Camspec M550

Analyst Name

P. Hunter

Date of Analysis

13/04/2011

Date of Report

14/04/2011

Analysis carried out in accordance with documented in-house Laboratory Method GLM7

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Form LQF32 Issue 2

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L. Gates
L. Gates, Laboratory Supervisor