

## Report for Periodic Monitoring of Emissions to Atmosphere

Part 1: **Executive Summary**

Permit Number: **01/02**

Operator: **Brookhouse Paxford Ltd**

Installation: **Huntingdon, Cambridgeshire**

Emission Point: **Large, Medium and Small Spraybakes**

Monitoring Date(s): **17<sup>th</sup> – 18<sup>th</sup> January 2006**



1709



THE ENVIRONMENT AGENCY'S  
MONITORING CERTIFICATION SCHEME

1709

Contract Reference: FTA 5256

Operator: Brookhouse Paxford Ltd

Address: Redwongs Way  
Huntingdon  
Cambridgeshire  
PE29 7HB

Monitoring Organisation: RPS Health, Safety & Environment

Address: Steadings Barn, Pury Hill Business Park, Alderton Road,  
Towcester, Northamptonshire, NN12 7LS

Report Date: 8<sup>th</sup> March 2006

Report Approved By: Richard Harvey

Position: Team Manager

MCERTS Registration No.: MM 02 020

P.P. Signature:

A handwritten signature in black ink, appearing to be 'C. Harvey', enclosed in a rectangular box.

RPS Health, Safety and Environment has produced this report within the term of the contract with the client and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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## Monitoring Objectives

At the request of Ms Carol Laughton of Brookhouse Paxford Ltd, RPS Health, Safety and Environment conducted air emission monitoring at the Huntingdon site, Cambridge in January 2006.

The monitoring programme at this installation was carried out to provide data on emissions to atmosphere for comparison with the limits specified in the air emission criteria for this site.

The parameters requested for monitoring at each emission point and the actual monitoring conducted are detailed below.

**Table 1**

Parameters Requested to be Monitored	Emission Point	Emission Point	Emission Point
	Large Spraybake Exhaust	Medium Spraybake Exhaust	Small Spraybake Exhaust
Total Particulate Matter	✓	✓	✓
Total Organic Compounds (as total organic carbon excluding particulate matter)	✓	✓	✓
Isocyanates	✓	✓	✓
Specific Requirements	Paint sprayed into air; no product to spray	Paint sprayed into air; no product to spray	Paint sprayed into air; no product to spray

Notes:

- ✓ Represents the actual parameters monitored
- ✗ Represents the parameters requested but not monitored

## Monitoring Results

**Table 2 – Monitoring Results from the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m <sup>3</sup> ) #	Reference Conditions 273K, 101.3kPa.....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	< 0.86	mg/m <sup>3</sup>	± 0.094	Without correction for moisture content	18-Jan-06	12:01 - 12:46	BS-EN 13284-1 2002	MCERTS	Normal
Total Organic Compounds (as total organic carbon)	50/150*	<b>51</b>	mg/m <sup>3</sup>	± 23	Without correction for moisture content	18-Jan-06	12:01 - 12:46	BS EN 13526:2002	-	Normal
Isocyanates	0.1	< 0.0046	mg/m <sup>3</sup>	± 0.0011	Without correction for moisture content	18-Jan-06	12:01 - 12:46	ISO/DIS 16702.4	UKAS	Normal

*Notes:*

# The uncertainty associated with the quoted result is at the 95% confidence interval

\* The limit for volatile organic compounds is 50mg/m<sup>3</sup> where the organic solvent consumption is 15 tonnes or more per annum, or 150mg/m<sup>3</sup> where the organic solvent consumption is between 5 and 15 tonnes per annum

**Table 3 – Monitoring Results from the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m <sup>3</sup> ) #	Reference Conditions 273K, 101.3kPa.....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	< 0.90	mg/m <sup>3</sup>	± 0.098	Without correction for moisture content	17-Jan-06	14:28 - 15:13	BS-EN 13284-1 2002	MCERTS	Normal
Total Organic Compounds (as total organic carbon)	50/150*	<b>85</b>	mg/m <sup>3</sup>	± 24	Without correction for moisture content	17-Jan-06	14:56 - 15:16	BS EN 13526:2002	-	Normal
Isocyanates	0.1	< 0.0047	mg/m <sup>3</sup>	± 0.0011	Without correction for moisture content	17-Jan-06	14:28 - 15:13	ISO/DIS 16702.4	UKAS	Normal

*Notes:*

# The uncertainty associated with the quoted result is at the 95% confidence interval

\* The limit for volatile organic compounds is 50mg/m<sup>3</sup> where the organic solvent consumption is 15 tonnes or more per annum, or 150mg/m<sup>3</sup> where the organic solvent consumption is between 5 and 15 tonnes per annum

**Table 4 – Monitoring Results from the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m <sup>3</sup> ) #	Reference Conditions 273K, 101.3kPa.....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	12	mg/m <sup>3</sup>	± 1.3	Without correction for moisture content	18-Jan-06	14:29 - 15:14	BS-EN 13284-1 2002	MCERTS	Normal
Total Organic Compounds (as total organic carbon)	50/150*	<b>312</b>	mg/m <sup>3</sup>	± 26	Without correction for moisture content	18-Jan-06	14:29 - 14:57	BS EN 13526:2002	-	Normal
Isocyanates	0.1	< 0.0051	mg/m <sup>3</sup>	± 0.0012	Without correction for moisture content	18-Jan-06	14:28 - 15:13	ISO/DIS 16702.4	UKAS	Normal

*Notes:*

# The uncertainty associated with the quoted result is at the 95% confidence interval

\* The limit for volatile organic compounds is 50mg/m<sup>3</sup> where the organic solvent consumption is 15 tonnes or more per annum, or 150mg/m<sup>3</sup> where the organic solvent consumption is between 5 and 15 tonnes per annum

## Process Operation Details

**Table 5 – Details of Process Operation during the Monitoring of the Specified Spraybake Exhausts at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Process Operation Details	Information
Sample Dates	17/18-Jan-06
Process Type	Batch
Process Duration	30 minutes
If 'Batch', was monitoring carried out over the whole batch?	Yes
If 'No', give details	NA
Abatement/Operational?	NA
Fuel Type	NA
Feedstock	No surfaces being sprayed during monitoring
Load	NA
Throughput	NA
Continuous Rating	NA

## Issues affecting Monitoring

**Table 6 – Details of the Issues affecting the Monitoring of the Specified Spraybake Exhausts at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Substance Deviations	Monitoring Deviations	Other Relevant Issues
<u>Large:</u> NA	<u>Large:</u> NA	<u>Large:</u> NA
<u>Medium:</u> NA	<u>Medium:</u> NA	<u>Medium:</u> NA
<u>Small:</u> NA	<u>Small:</u> NA	<u>Small:</u> NA



## Report for Periodic Monitoring of Emissions to Atmosphere

Part 2: **Supporting Information**

Permit Number: **01/02**

Operator: **Brookhouse Paxford Ltd**

Installation: **Huntingdon, Cambridgeshire**

Emission Point: **Large, Medium and Small Spraybakes**

Monitoring Date(s): **17<sup>th</sup> – 18<sup>th</sup> January 2006**



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Operator: Brookhouse Paxford Ltd

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Monitoring Organisation: RPS Health, Safety & Environment

Address: Steadings Barn, Pury Hill Business Park, Alderton Road,  
Towcester, Northamptonshire, NN12 7LS

Report Date: 8<sup>th</sup> March 2006

Report Approved By: Richard Harvey

Position: Team Manager

MCERTS Registration No.: MM 02 020

P.P. Signature:

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We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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## **APPENDIX 1: General Information**

## Monitoring Organisation Staff Details

**Table 7**

Site Team	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Chris Smith	Technician	1	-	MM 04 557
Peter O'Connor	Technician	Trainee	-	MM 05 620

Report Author	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Chris Smith	Technician	1	-	MM 04 557

Report Reviewer	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Richard Harvey	Team Manager	2	1,2,4	MM 02 020

## Monitoring Organisation Method Details

**Table 8**

Emission Parameter	Standard Method	Monitoring Procedure No.	Monitoring Accreditation Status	Analysis Technique	Analysis Procedure No.	Analytical Laboratory	Analysis Accreditation Status
Practical Considerations Prior to Monitoring	N/A	RPSCE/1/1	UKAS	N/A	N/A	N/A	N/A
Gas Flows	BS-EN 13284-1:2001	RPSCE/1/2	MCERTS	N/A	N/A	N/A	N/A
Gas Temperatures	BS-EN 13284-1:2001	RPSCE/1/2	MCERTS	N/A	N/A	N/A	N/A
TOCs (as total organic carbon)	BS EN 13526:2002	RPSCE/1/4c	MCERTS	FID	N/A	N/A	N/A
Isocyanates	ISO/DIS 16702.4	RPSCE/1/18b	UKAS	NDIR	13	RPS Laboratories, Manchester	UKAS
Total Particulate Matter	BS EN 13284-1:2001	RPSCE/1/7c	MCERTS	Gravimetric	D9	RPS Laboratories, Manchester	UKAS

## **APPENDIX 2: Emission Point: Large Spraybake Exhaust**

## Stack Gas Measurements

**Table 9 - Temperature and Velocity Profile**

**Results of Gas Flows and Gas Temperatures Measured from the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Traverse Point (m)	Sample Plane A			
	T (°C)	ΔP (mm H <sub>2</sub> O)	Neg. Flow?	Spin <15°
0.05	23	11	No	< 15
0.20	23	11	No	< 15
0.40	23	14	No	< 15
0.76	23	15	No	< 15

<b>Barometric pressure (kPa)</b>	100.4
<b>Static Pressure (mm H<sub>2</sub>O)</b>	-ve 7.6
<b>Stack Dimension Ø (m)</b>	0.81

**Table 10 - Gas Measurements (continued)**

**Results of Total Particulate Matter and General Emission Parameters Measured from the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Mean Result
Sample Date	-	18-Jan-06
Sample Period	-	12:01 – 12:46
Barometric Pressure	kPa	100.4
Internal Area Of Duct	m <sup>2</sup>	0.51
Static Pressure	mm H <sub>2</sub> O	-ve 7.6
Stack Moisture Content	%	0.9
Stack Temperature	°C	23
Gas Velocity (as measured at sampling plane)	m/sec	9.8
Volumetric Flowrate (as measured)	m <sup>3</sup> /sec	5.0
Volumetric Flowrate (at reference conditions)	m <sup>3</sup> /sec*	4.6
Total Particulate Matter Mass Emission	kg/hr	< 0.014
Total Particulate Matter Concentration	mg/m <sup>3</sup> *	< 0.86

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content



**Table 11 - Gas Measurements (continued)**

**Result of Isocyanate Concentration Measured from the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Result
Sample Date	-	18-Jan-06
Sample Period	-	12:01 – 12:46
Mean Concentration of Isocyanates (as HDI)	mg/m <sup>3</sup>	< 0.0046

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

**Table 12 - Gas Measurements (continued)**

**Results of Total Organic Compounds (as total organic carbon excluding particulate matter) Concentration Measured from the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Sample Date	Sample Period	Units		TOCs (as total organic carbon)
18-Jan-06	12:01 – 12:46	mg/m <sup>3</sup>	Maximum	208
			Mean	51

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

### **APPENDIX 3: Emission Point: Medium Spraybake Exhaust**

## Stack Gas Measurements

**Table 13 - Temperature and Velocity Profile**

**Results of Gas Flows and Gas Temperatures Measured from the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Traverse Point (m)	Sample Plane A			
	T (°C)	$\Delta P$ (mm H <sub>2</sub> O)	Neg. Flow?	Spin <15°
0.05	24	6.1	No	< 15
0.20	24	6.1	No	< 15
0.40	24	10	No	< 15
0.73	24	10	No	< 15

Barometric pressure (kPa)	100.2
Static Pressure (mm H <sub>2</sub> O)	+ve 2.5
Stack Dimension Ø (m)	0.78

**Table 14 - Gas Measurements (continued)**

**Results of Total Particulate Matter and General Emission Parameters Measured from the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Mean Result
Sample Date	-	17-Jan-06
Sample Period	-	14:28 – 15:13
Barometric Pressure	kPa	100.2
Internal Area Of Duct	m <sup>2</sup>	0.48
Static Pressure	mm H <sub>2</sub> O	+ve 2.5
Stack Moisture Content	%	1.9
Stack Temperature	°C	24
Gas Velocity (as measured at sampling plane)	m/sec	9.8
Volumetric Flowrate (as measured)	m <sup>3</sup> /sec	4.7
Volumetric Flowrate (at reference conditions)	m <sup>3</sup> /sec*	4.3
Total Particulate Matter Mass Emission	kg/hr	< 0.014
Total Particulate Matter Concentration	mg/m <sup>3</sup> *	< 0.90

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

**Table 15 - Gas Measurements (continued)**

**Result of Isocyanate Concentration Measured from the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Result
Sample Date	-	17-Jan-06
Sample Period	-	14:38 – 15:13
Mean Concentration of Isocyanates (as HDI)	mg/m <sup>3</sup>	< 0.0047

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

**Table 16 – Gas Measurements (continued)**

**Results of Total Organic Compounds (as total organic carbon excluding particulate matter) Concentration Measured from the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Sample Date	Sample Period	Units		TOCs (as total organic carbon)
17-Jan-06	14:56 – 15:16	mg/m <sup>3</sup>	Maximum	182
			Mean	85

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

## **APPENDIX 4: Emission Point: Small Spraybake Exhaust**

## Stack Gas Measurements

**Table 17 – Temperature and Velocity Profile**

**Results of Gas Flows and Gas Temperatures Measured from the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Traverse Point (m)	Sample Plane A			
	T (°C)	ΔP (mm H <sub>2</sub> O)	Neg. Flow?	Spin <15°
0.05	23	7.6	No	< 15
0.15	23	9.1	No	< 15
0.44	23	9.1	No	< 15
0.54	23	10	No	< 15

Barometric pressure (kPa)	100.4
Static Pressure (mm H <sub>2</sub> O)	+ve 1.3
Stack Dimension Ø (m)	0.59

**Table 18 - Gas Measurements (continued)**

**Results of Total Particulate Matter and General Emission Parameters Measured from the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Mean Result
Sample Date	-	18-Jan-06
Sample Period	-	14:29 – 15:14
Barometric Pressure	kPa	100.4
Internal Area Of Duct	m <sup>2</sup>	0.27
Static Pressure	mm H <sub>2</sub> O	-ve 2.5
Stack Moisture Content	%	0.8
Stack Temperature	°C	23
Gas Velocity (as measured at sampling plane)	m/sec	11
Volumetric Flowrate (as measured)	m <sup>3</sup> /sec	2.9
Volumetric Flowrate (at reference conditions)	m <sup>3</sup> /sec*	2.7
Total Particulate Matter Mass Emission	kg/hr	0.12
Total Particulate Matter Concentration	mg/m <sup>3</sup> *	12

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content



**Table 19 - Gas Measurements (continued)**

**Result of Isocyanate Concentration Measured from the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Units	Result
Sample Date	-	18-Jan-06
Sample Period	-	14:38 – 15:13
Mean Concentration of Isocyanates (as HDI)	mg/m <sup>3</sup>	< 0.0051

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

**Table 20 - Gas Measurements (continued)**

**Results of Total Organic Compounds (as total organic carbon excluding particulate matter) Concentration Measured from the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Sample Date	Sample Period	Units		TOCs (as total organic carbon)
18-Jan-06	14:29 – 14:57	mg/m <sup>3</sup>	Maximum	1105
			Mean	312

Notes:

\* Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content

## Reportable Blank Results

**Table 21 - Results of the Reportable Blank Concentrations for Total particulate Matter and Isocyanates taken for the Large Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Sample Date	Units	Mean Concentration (uncorrected) #
Total Particulate Matter	18-Jan-06	mg/m <sup>3</sup>	< 0.86
Isocyanates (as HDI)	18-Jan-06	mg/m <sup>3</sup>	< 0.0046

**Table 22 - Results of the Reportable Blank Concentrations for Total particulate Matter and Isocyanates taken for the Medium Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

Emission Parameter	Sample Date	Units	Mean Concentration (uncorrected) #
Total Particulate Matter	17-Jan-06	mg/m <sup>3</sup>	< 0.90
Isocyanates (as HDI)	17-Jan-06	mg/m <sup>3</sup>	< 0.0047

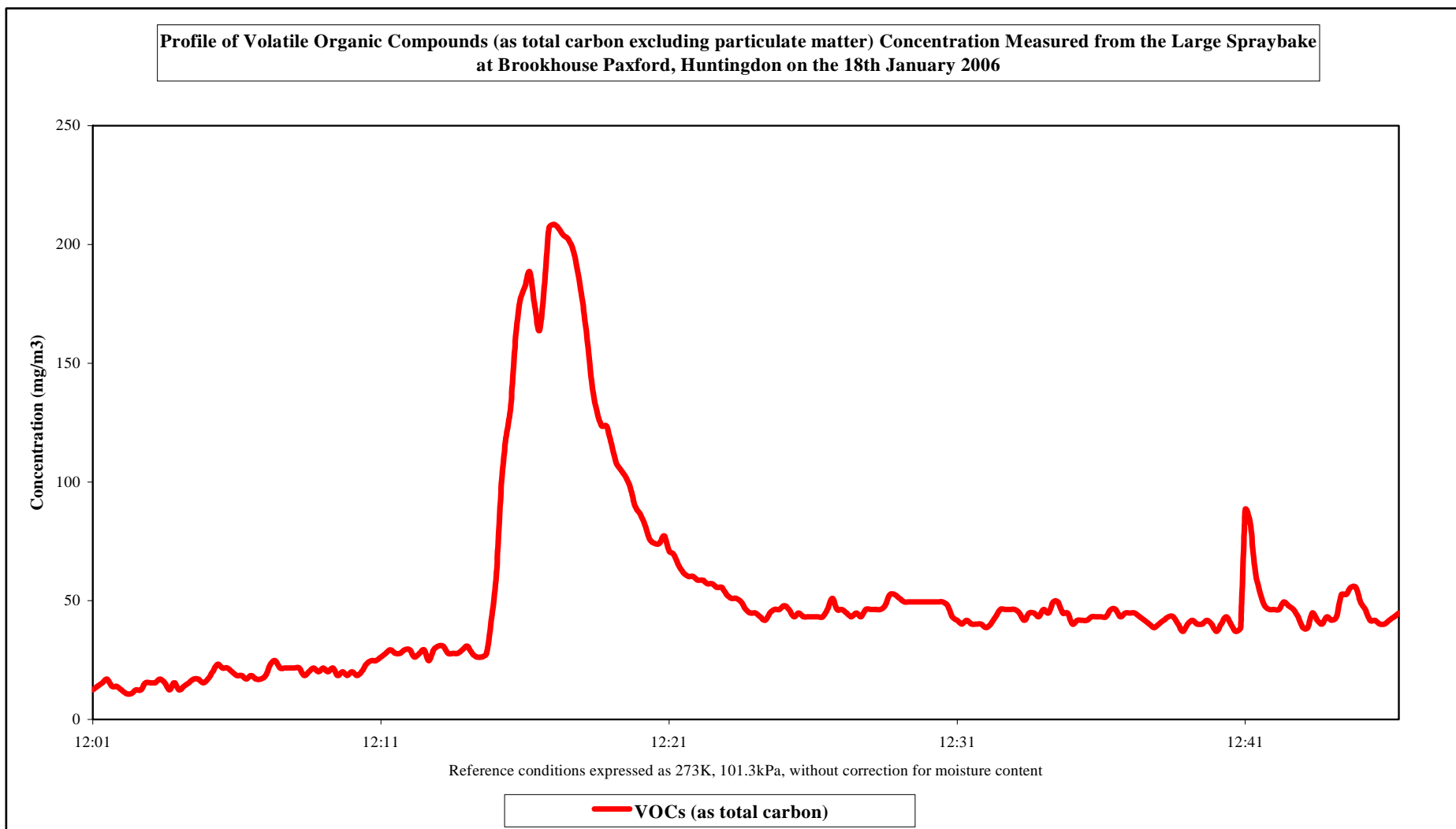
**Table 23 - Results of the Reportable Blank Concentrations for Total particulate Matter and Isocyanates taken for the Small Spraybake Exhaust at Brookhouse Paxford Ltd, Huntingdon, Cambridgeshire in January 2006**

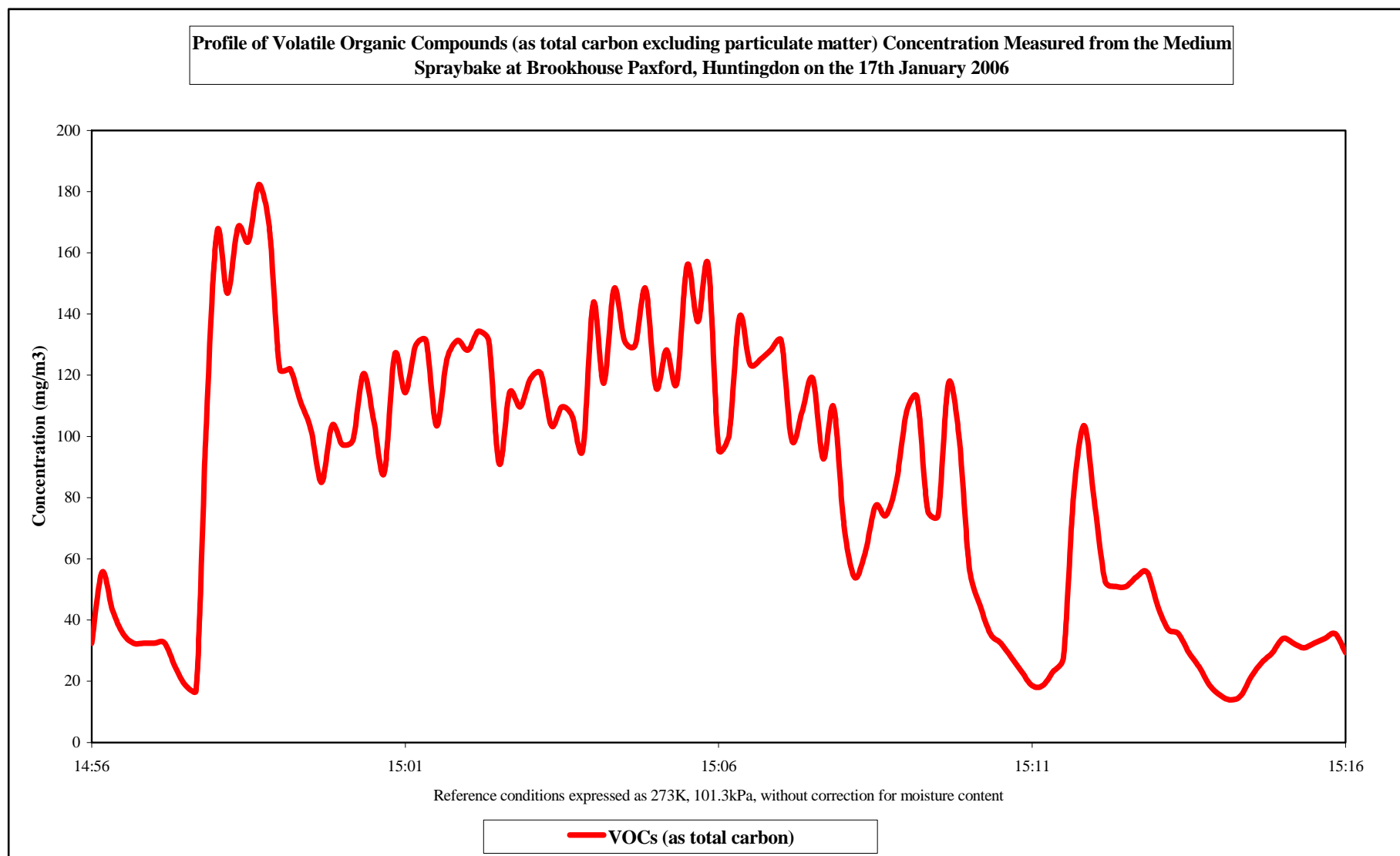
Emission Parameter	Sample Date	Units	Mean Concentration (uncorrected) #
Total Particulate Matter	18-Jan-06	mg/m <sup>3</sup>	< 0.81
Isocyanates (as HDI)	18-Jan-06	mg/m <sup>3</sup>	< 0.0051

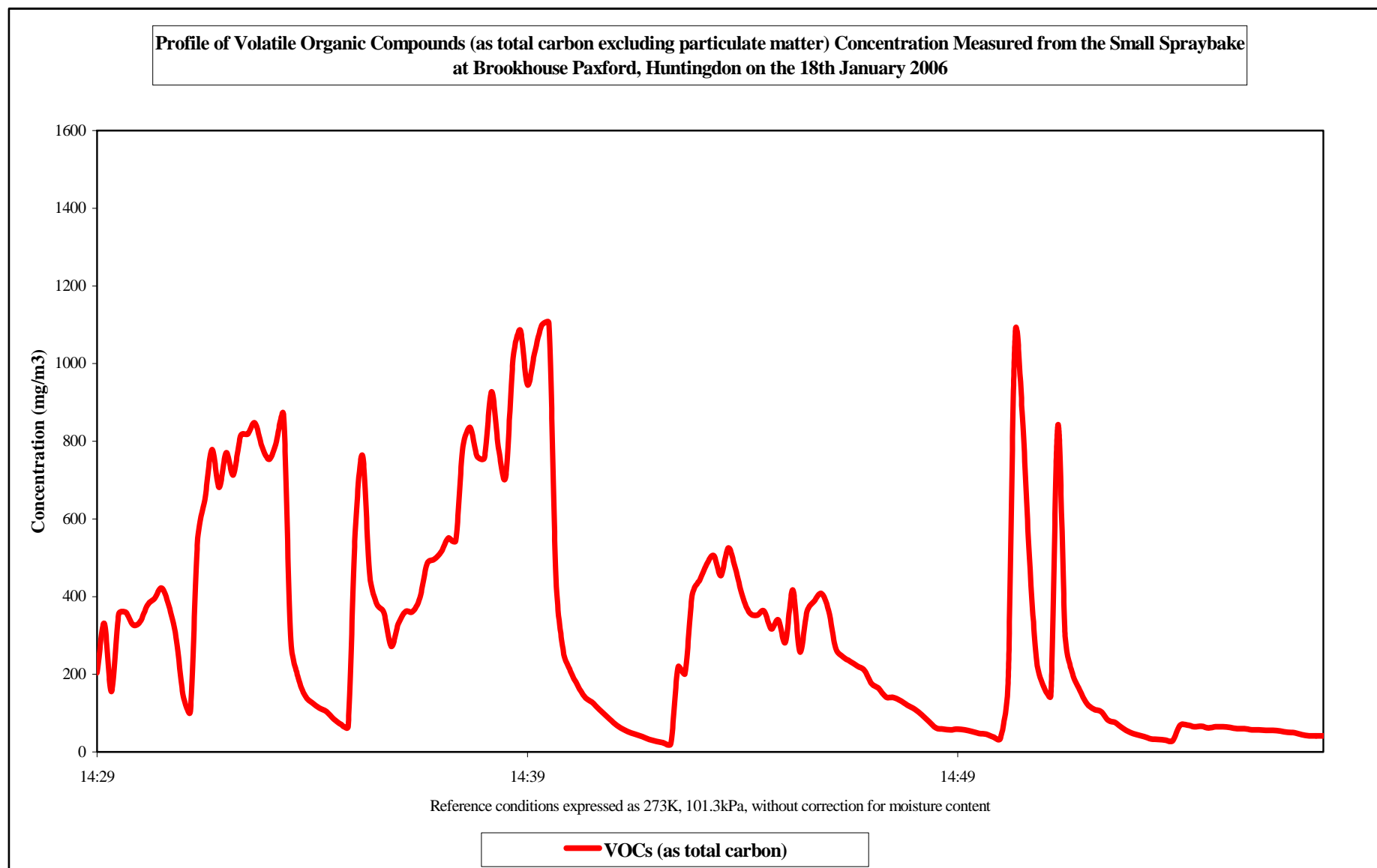
Notes:

# Reference conditions expressed as 273 K, 101.3 kPa, without correction for moisture content.

## Monitoring Profiles







**Instrumental Gas Analyser - Site Calibration Measurements****Table 16**

Equipment Name	Equipment ID Number	Span Gas Type	Span Gas Concentration	Span Result	Zero Result
Signal 3000HM FID	00208	C <sub>3</sub> H <sub>8</sub>	12.5 ppm	13 ppm	0 ppm

## Certificate(s) of Analyses



**RPS Laboratories**

RPS Laboratories . Unit 12 . Waters Edge Business Park . Modwen Road . Salford . M5 3EZ  
Tel: (0161) 872 2443 . Fax: (0161) 877 3959

### Test Certificate

RPS CONSULTANTS  
STEADINGS BARN  
PURY HILL BUSINESS PARK  
NR ALDERTON  
TOWCESTER  
NN12 7LS

CRT No 048060 : Issue 1  
Ord No FTA5256

Date Tested 01/02/06  
Date Reported 01/02/06

Attn: CHRIS SMITH

Item - 4 SAMPLES FOR HDI

Specification- Not Applicable

HDI as NCO - In-House Method I3			
Sample	Description	Result	Comments
01:394443	T108242	<0.50 ug	Nil
02:394444	T108246	<0.50 ug	Nil
03:394445	T108247	<0.50 ug	Nil
04:394446	T108269	<0.50 ug	Nil

### Certificate Comments

Date of sample receipt: 23/01/2006

If you have any queries regarding this analysis please do not hesitate to contact the Laboratory Manager, Joanne Dewhurst.

Analysis was carried out on the samples 'as received'.

Standard terms and conditions are applicable, a copy is available on request.

Tested by Kate Rawlinson  
Joanne Dewhurst

  
For and on authority of  
RPS Laboratories



RPS Laboratories . Unit 12 . Waters Edge Business Park . Modwen Road . Salford . M5 3EZ  
Tel: (0161) 872 2443 . Fax: (0161) 877 3959

### Test Certificate

RPS CONSULTANTS  
STEADINGS BARN  
PURY HILL BUSINESS PARK  
NR ALDERTON  
TOWCESTER  
NN12 7LS

CRT No 048034 : Issue 1  
Ord No FTA5256

Date Tested 01/02/06  
Date Reported 01/02/06

Attn: CHRIS SMITH

Item - 12 SAMPLES FOR TPM

Specification- Not Applicable

Total particulate		- In-House Method D9	
Sample	Description	Result	Comments
01:394431	8120	<0.1 mg	Nil
02:394432	T108243	<0.5 mg	Nil
03:394433	6532	<0.1 mg	Nil
04:394434	T108268	<0.5 mg	Nil
05:394435	8121	<0.1 mg	Nil
06:394436	T108244	<0.5 mg	Nil
07:394437	6531	<0.1 mg	Nil
08:394438	T108267	<0.5 mg	Nil
09:394439	8119	1.73 mg	Nil
10:394440	T108245	6.95 mg	Nil
11:394441	6522	<0.1 mg	Nil
12:394442	T108266	<0.5 mg	Nil

#### Certificate Comments

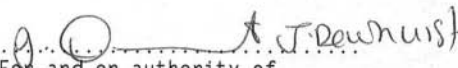
Date of sample receipt: 20/01/2006

If you have any queries regarding this analysis please do not hesitate to contact the Laboratory Manager, Joanne Dewhurst.

Analysis was carried out on the samples 'as received'.

Standard terms and conditions are applicable, a copy is available on request.

Tested by Catherine Weatherall

  
For and on authority of  
RPS Laboratories

Page 1 of 1

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