

Report for Periodic Monitoring of Emissions to Atmosphere

Part 1: Executive Summary

Permit Number: PPC/067 Variation Ref: 002

Operator: Covrad Heat Transfer Ltd

Installation: Canley, Coventry

**Emission Points: Industrial Spray Booth 1 (LHS)
Industrial Spray Booth 1 (RHS)
Industrial Spray Booth 2 (LHS)
Industrial Spray Booth 2 (RHS)
Assembly Shop Spray Booth (1)
Assembly Shop Spray Booth (2)
Assembly Shop Spray Booth (3)**

Monitoring Dates: 15th, 16th & 22nd December 2008



1709



1709

Contract Reference: FTBS 7645

Operator: Covrad Heat Transfer Ltd

**Address: Sir Henry Parkes Road
Canley
Coventry
CV5 6BN**

Monitoring Organisation: RPS Health, Safety & Environment

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

Report Date: 19th January 2009

Report Approved By: Richard Harvey

Position: Principal Consultant

MCERTS Registration No.: MM 02 020

Signature:



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.

CONTENTS

Part 1: Executive Summary

Monitoring Objectives	3
Monitoring Results	4
Operating Information.....	8
Monitoring Deviations.....	9

Monitoring Objectives

At the request of Mr Bob Holmes of Covrad Heat Transfer Limited, RPS Health, Safety and Environment conducted air emission monitoring at the Canley site, Coventry in December 2008.

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 Points						
	Industrial Spray Booth 1		Industrial Spray Booth 2		Assembly Shop Spray Booth		
	Left Exhaust	Right Exhaust	Left Exhaust	Right Exhaust	Exhaust #1	Exhaust #2	Exhaust #3
Total Particulate Matter	✓	✓	✓	✓	✓	✓	✓
Specific Requirements	Normal Operating Conditions						

Notes:

- ✓ Represents the actual parameters monitored
- * Represent parameters requested but not actually monitored

Monitoring Results

Table 2 – Monitoring Results from the Industrial Spray Booth 1 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	0.94	mg/m ³	± 0.10	wet gas, without correction for oxygen	16-Dec-08	13:50 – 14:51	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 3 – Monitoring Results from the Industrial Spray Booth 1 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	3.2	mg/m ³	± 0.35	wet gas, without correction for oxygen	16-Dec-08	12:03 – 13:03	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 4 – Monitoring Results from the Industrial Spray Booth 2 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	0.96	mg/m ³	± 0.10	wet gas, without correction for oxygen	16-Dec-08	10:55 – 11:56	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 5 – Monitoring Results from the Industrial Spray Booth 2 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	< 0.41	mg/m ³	± < 0.045	wet gas, without correction for oxygen	15-Dec-08	14:37 – 15:39	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 6 – Monitoring Results from the Assembly Shop Booth - Left Exhaust 1 at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	8.7	mg/m ³	± 0.95	wet gas, without correction for oxygen	22-Dec-08	13:40 – 14:22	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 7 – Monitoring Results from the Assembly Shop Booth - Middle Exhaust 2 at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	4.5	mg/m ³	± 0.49	wet gas, without correction for oxygen	22-Dec-08	14:37 – 15:40	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

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

Table 8 – Monitoring Results from the Assembly Shop Booth - Right Exhaust 3 at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (mg/m ³) #	Reference Conditions 273K, 101.3kPa....	Sampling Date	Sampling Times	Monitoring Reference Method	Accreditation Status	Operating Status
Total Particulate Matter	50	0.99	mg/m ³	*	wet gas, without correction for oxygen	22-Dec-08	15:49 – 16:29	BS-EN 13284-1 2002	MCERTS	Normal

Notes:

- # *The uncertainty associated with the quoted result is at the 95% confidence interval*
- * *Uncertainty of measurement calculation cannot be applied (see table 10)*

Operating Information

Table 9 – Operating Information During Monitoring of the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Parameter	Industrial Spray Booth 1		Industrial Spray Booth 2		Assembly Shop Spray Booth		
	Left Exhaust	Right Exhaust	Left Exhaust	Right Exhaust	Left Exhaust #1	Middle Exhaust #2	Right Exhaust #3
Sample Date	16-Dec-08	16-Dec-08	16-Dec-08	15-Dec-08	22-Dec-08	22-Dec-08	22-Dec-08
Process Type	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts	Manual spraying of solvent free paint onto radiator parts and completed units	Manual spraying of solvent free paint onto radiator parts and completed units	Manual spraying of solvent free paint onto radiator parts and completed units
Process Duration	Variable depending on size of part	Variable depending on size of part	Variable depending on size of part				
If 'Batch', was monitoring carried out over the whole batch?	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period	Yes – several parts sprayed during monitoring period
If 'No', give details	-	-	-	-	-	-	-
Abatement/Operational?	Filters - Yes	Filters - Yes	Filters - Yes				
Feedstock	Radiator Components and parts	Radiator Components and parts	Radiator Components and parts				
Throughput	Varies	Varies	Varies	Varies	Varies	Varies	Varies

Monitoring Deviations

Table 10 – Monitoring Deviations During Monitoring of the Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Substance Deviations	Monitoring Deviations	Other Relevant Issues
NA	<p>Industrial Spray Booth 1 (Right Exhaust)</p> <p>Total Particulate Matter (Monitored to BS-EN 13284-1 (2002)) It was not possible to monitor the sample points along sample plane B. This is because the distance between the monitoring port and floor of the scaffold was too short to allow the sample probe to be used. BS-EN 13284-1 stipulates a requirement for ducts with a diameter of this size to be monitored from a total of four sample points. (two sample points on two sample lines at 90 deg. to each other). As a result, an uncertainty of measurement calculation cannot be applied.</p> <hr/> <p>Assembly Shop Spray Booth (Right Exhaust)</p> <p>Total Particulate Matter (Monitored to BS-EN 13284-1 (2002)) It was not possible to monitor the sample points along sample plane B. This is because the sampling probe would have obstructed the access to the monitoring platform. BS-EN 13284-1 stipulates a requirement for ducts with a diameter of this size to be monitored from a total of four sample points. (two sample points on two sample lines at 90 deg. to each other). As a result, an uncertainty of measurement calculation cannot be applied.</p>	NA

Report for Periodic Monitoring of Emissions to Atmosphere

Part 2: Supporting Information

Permit Number: PPC/067 Variation Ref: 002

Operator: Covrad Heat Transfer Ltd

Installation: Canley, Coventry

Emission Points:
Industrial Spray Booth 1 (LHS)
Industrial Spray Booth 1 (RHS)
Industrial Spray Booth 2 (LHS)
Industrial Spray Booth 2 (LHS)
Assembly Shop Spray Booth (1)
Assembly Shop Spray Booth (2)
Assembly Shop Spray Booth (3)

Monitoring Dates: 15th, 16th & 22nd December 2008



1709



1709

Contract Reference: FTBS 7645

Operator: Covrad Heat Transfer Ltd

**Address: Sir Henry Parkes Road
Canley
Coventry
CV5 6BN**

Monitoring Organisation: RPS Health, Safety & Environment

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

Report Date: 19th January 2009

Report Approved By: Richard Harvey

Position: Principal Consultant

MCERTS Registration No.: MM 02 020

Signature:



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.

CONTENTS

Part 2: Supporting Information

APPENDIX 1: General Information	3
Monitoring Organisation Staff Details.....	4
Monitoring Organisation Method Details.....	5
APPENDIX 2: Emission Points - Industrial Spray Booth 1, Industrial Spray Booth 2, Assembly Shop Spray Booth	6
Stack Gas Measurements	7
Reportable Blank Results.....	13
Certificates of Analyses	14

APPENDIX 1: General Information

Monitoring Organisation Staff Details

Table 11

Site Team	Position	Date(s) On Site	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Matthew Sumner	Consultant	15-16-Dec-08	2	1, 2, 3 & 4	MM 05 622
Katie Smart	Technician	15-16-Dec-08	Trainee	-	MM 08 936
Carl Redgrove	Consultant	22-Dec-08	2	1, 2, 3 & 4	MM 03 173
Edwin Powell	Consultant	22-Dec-08	2	1, 2, 3 & 4	MM 05 621

Report Author	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Carl Redgrove	Consultant	2	1, 2, 3 & 4	MM 03 173

Report Reviewer	Position	MCERTS Level	Technical Endorsements	MCERTS Registration Number
Richard Harvey	Principal Consultant	2	1, 2, 3 & 4	MM 02 020

Monitoring Organisation Method Details

Table 12

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	MCERTS	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
Total Particulate Matter	BS EN 13284-1:2001	RPSCE/1/7c	MCERTS	Gravimetric	D9	RPS Laboratories, Manchester	UKAS

**APPENDIX 2: Emission Points - Industrial Spray Booth 1, Industrial Spray Booth 2,
Assembly Shop Spray Booth**

Stack Gas Measurements

Table 13 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Industrial Spray Booth 1 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry on the 16th December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.09	17	5.4	No	Yes	17	3.6	No	Yes
0.51	17	1.8	No	Yes	17	5.4	No	Yes

Barometric pressure (kPa)	100.5
Static Pressure (mm H₂O)	+ve 8.2
Stack Dimension Ø (m)	0.60

Table 14 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Industrial Spray Booth 1 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry on the 16th December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.05	13	1.4	No	Yes	Sample line not accessible			
0.15	13	1.8	No	Yes				
0.45	13	4.0	No	Yes				
0.55	13	11.4	No	Yes				

Barometric pressure (kPa)	100.5
Static Pressure (mm H₂O)	+ve 8.2
Stack Dimension Ø (m)	0.60

Table 15 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Industrial Spray Booth 2 - Left Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry on the 16th December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.09	17	5.2	No	Yes	17	6.8	No	Yes
0.51	17	6.2	No	Yes	17	9.8	No	Yes

Barometric pressure (kPa)	100.5
Static Pressure (mm H₂O)	+ve 9.4
Stack Dimension Ø (m)	0.60

Table 16 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Industrial Spray Booth 2 - Right Exhaust at Covrad Heat Transfer Ltd., Canley, Coventry on the 15th December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.09	11	4.0	No	Yes	13	9.0	No	Yes
0.51	12	8.4	No	Yes	14	10.6	No	Yes

Barometric pressure (kPa)	100.8
Static Pressure (mm H₂O)	+ve 7.6
Stack Dimension Ø (m)	0.60

Table 17 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Assembly Shop Spray Booth – Left Exhaust (1) at Covrad Heat Transfer Ltd., Canley, Coventry on the 22nd December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.12	13	4.6	No	Yes	13	3.8	No	Yes
0.68	13	3.1	No	Yes	13	5.3	No	Yes

Barometric pressure (kPa)	102.1
Static Pressure (mm H₂O)	+ve 0.20
Stack Dimension Ø (m)	0.60

Table 18 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Assembly Shop Spray Booth - Middle Exhaust (2) at Covrad Heat Transfer Ltd., Canley, Coventry on the 22nd December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.12	13	7.6	No	Yes	14	2.5	No	Yes
0.68	13	8.1	No	Yes	14	15.0	No	Yes

Barometric pressure (kPa)	102.1
Static Pressure (mm H₂O)	-ve 2.0
Stack Dimension Ø (m)	0.80

Table 19 - Temperature and Velocity Profile

Results of Gas Flows and Gas Temperatures Measured from the Assembly Shop Spray Booth - Right Exhaust (3) at Covrad Heat Transfer Ltd., Canley, Coventry on the 22nd December 2008

Traverse Point (m)	Sample Line A				Sample Line B			
	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°	T (°C)	ΔP (mm H ₂ O)	Neg. Flow?	Spin <15°
0.12	14	4.8	No	Yes	Sample line not accessible			
0.68	14	16.0	No	Yes				

Barometric pressure (kPa):	102.1
Static Pressure (mm H₂O)	+ve 1.6
Stack Dimension Ø (m)	0.80

Table 20 - Gas Measurements (continued)

Results of Total Particulate Matter and General Emission Parameters Measured from the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Emission Parameter	Units	Assembly Shop Spray Booth		
		Left Exhaust (1)	Middle Exhaust (2)	Right Exhaust (3)
Sample Date	-	22-Dec-08	22-Dec-08	22-Dec-08
Sample Period	-	13:40 – 14:22	14:37 – 15:40	15:49 – 16:29
Barometric Pressure	kPa	102.1	102.1	102.1
Internal Area Of Duct	m ²	0.28	0.50	0.50
Isokinetic Ratio	%	104	102	101
Stack Moisture Content	%	< 1.0	< 1.0	< 1.0
Stack Temperature	°C	20	18	17
Gas Velocity (as measured at sampling plane)	m/sec	9.1	7.7	9.7
Volumetric Flowrate (as measured)	m ³ /sec	2.6	3.9	4.9
Volumetric Flowrate (at reference conditions)	m ³ /sec*	2.4	3.7	4.6
Total Particulate Matter Mass Emission				
	kg/hr	0.075	0.060	0.016
Total Particulate Matter Concentration				
	mg/m ³ *	8.7	4.5	0.99

Notes: Reference conditions expressed as 273 K, 101.3 kPa, wet gas, without correction oxygen.

Table 21 - Gas Measurements (continued)

Results of Total Particulate Matter and General Emission Parameters Measured from the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Emission Parameter	Units	Industrial Spray Booth 1		Industrial Spray Booth 2	
		Left Exhaust	Right Exhaust	Left Exhaust	Right Exhaust
Sample Date	-	16-Dec-08	16-Dec-08	16-Dec-08	15-Dec-08
Sample Period	-	13:50 – 14:51	12:03 – 13:03	10:55 – 11:56	14:37 – 15:39
Barometric Pressure	kPa	100.5	100.5	100.5	100.8
Internal Area Of Duct	m ²	0.28	0.28	0.28	0.28
Isokinetic Ratio	%	104	106	105	104
Stack Moisture Content	%	1.3	1.4	1.3	1.3
Stack Temperature	°C	17	14	17	13
Gas Velocity (as measured at sampling plane)	m/sec	7.0	7.1	9.1	9.8
Volumetric Flowrate (as measured)	m ³ /sec	2.0	2.0	2.6	2.8
Volumetric Flowrate (at reference conditions)	m ³ /sec*	1.8	1.9	2.4	2.6
Total Particulate Matter Mass Emission	kg/hr	0.0061	0.022	0.0083	< 0.0039
Total Particulate Matter Concentration	mg/m ³ *	0.94	3.2	0.96	< 0.41

Notes: Reference conditions expressed as 273 K, 101.3 kPa, wet gas, without correction oxygen.

Reportable Blank Results

Table 22 - Results of the Reportable Blank Concentrations for Total Particulate Matter taken for the Specified Spray Booth Exhausts at Covrad Heat Transfer Ltd., Canley, Coventry in December 2008

Emission Reference	Emission Parameter	Sample Date	Units*	Blank Concentration
Industrial Spray Booth 1 – Left Exhaust	Total Particulate Matter	16-Dec-08	mg/m ³	< 0.44
Industrial Spray Booth 1 – Right Exhaust	Total Particulate Matter	16-Dec-08	mg/m ³	< 0.42
Industrial Spray Booth 2 – Left Exhaust	Total Particulate Matter	16-Dec-08	mg/m ³	< 0.44
Industrial Spray Booth 2 – Right Exhaust	Total Particulate Matter	15-Dec-08	mg/m ³	< 0.41
Assembly Shop Spray Booth Left Exhaust (1)	Total Particulate Matter	22-Dec-08	mg/m ³	< 0.51
Assembly Shop Spray Booth Middle Exhaust (2)	Total Particulate Matter	22-Dec-08	mg/m ³	0.77
Assembly Shop Spray Booth Right Exhaust (3)	Total Particulate Matter	22-Dec-08	mg/m ³	0.63

Notes:

* *Reference conditions expressed as 273 K, 101.3 kPa., wet gas, without correction for oxygen.*

Certificates of Analyses



Test Certificate

Date 09/01/2009

Client	RPS Towcester Steadings Barn Pury Hill Business Park Nr Alderton Towcester NN12 7LS	Order No.	FTBS7645
		Certificate No.	W009-0071
		Issue No.	1

Contact	Richard Carter	Date Received	05/01/2009
Description	13 filters and 13 washes for TPM	Technique	Gravimetric

Sample No.	532543	043225	Method
Total particulate matter			D8(U)
	<0.04 mg		

Sample No.	532544	T113868	Method
Total particulate matter			D8(U)
	<0.5 mg		

Sample No.	532545	043226	Method
Total particulate matter			D8(U)
	<0.04 mg		

Sample No.	532546	T113565	Method
Total particulate matter			D8(U)
	<0.5 mg		

Sample No.	532547	043230	Method
Total particulate matter			D8(U)
	<0.04 mg		

Sample No.	532548	T113566	Method
Total particulate matter			D8(U)
	<0.5 mg		

Sample No.	532549	043223	Method
Total particulate matter			D8(U)
	0.69 mg		

Sample No.	532550	T113568	Method
Total particulate matter			D8(U)
	<0.5 mg		

Page 1 of 4

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



Date 09/01/2009

Test Certificate

Client	RPS Towcester		Certificate No.	WK09-0071
			Issue No.	1
Sample No.	532551	043443		Method
Total particulate matter	3.41 mg			D9(U)
Sample No.	532552	T113569		Method
Total particulate matter	0.7 mg			D9(U)
Sample No.	532553	043442		Method
Total particulate matter	<0.04 mg			D9(U)
Sample No.	532554	T113567		Method
Total particulate matter	<0.5 mg			D9(U)
Sample No.	532555	043438		Method
Total particulate matter	0.66 mg			D9(U)
Sample No.	532556	T113570		Method
Total particulate matter	<0.5 mg			D9(U)
Sample No.	532557	046813		Method
Total particulate matter	<0.04 mg			D9(U)
Sample No.	532558	T113585		Method
Total particulate matter	<0.5 mg			D9(U)
Sample No.	532559	044545		Method
Total particulate matter	3.19 mg			D9(U)
Sample No.	532560	T113586		Method
Total particulate matter	6.1 mg			D9(U)

Page 2 of 4

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



Date: 09/01/2009

Test Certificate

Client	RPS Towcester		Certificate No.	WK08-0071
			Issue No.	1
Sample No.	532561	046814	Method	
Total particulate matter	0.05 mg		D9(U)	
Sample No.	532562	T113567	Method	
Total particulate matter	<0.5 mg		D9(U)	
Sample No.	532563	044541	Method	
Total particulate matter	1.51 mg		D9(U)	
Sample No.	532564	T113568	Method	
Total particulate matter	1.7 mg		D9(U)	
Sample No.	532565	044540	Method	
Total particulate matter	0.07 mg		D9(U)	
Sample No.	532566	T113569	Method	
Total particulate matter	<0.5 mg		D9(U)	
Sample No.	532567	044542	Method	
Total particulate matter	0.38 mg		D9(U)	
Sample No.	532568	T113590	Method	
Total particulate matter	<0.5 mg		D9(U)	



Date 09/01/2009

Test Certificate

Client	RPS Towcester	Certificate No.	WK09-0071
		Issue No.	1

Tested By Simone Rutter Date 09/01/2009

Approved By [Redacted] Date 09/01/2009

Andrew Chalmers
Senior Chemist

For and on authority of RPS Laboratories Ltd.
Standard terms and conditions are applicable, a copy is available on request.

Method Symbols (U) Analysis is UKAS Accredited
(N) Analysis is not UKAS Accredited
(S) Analysis is Subcontracted

Concentration values (mg/m3 and ppm) are provided to assist with interpretation only, they are not covered by the scope of UKAS accreditation

Analysis carried out on samples as received

This document may not be reproduced other than in full, except with the written approval of the issuing laboratory.