

**DECEMBER 2005**

**ANNUAL EMISSIONS MONITORING  
REPORT**

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**Report Number P-RED05-112/EB/R1/Rev0**

**26<sup>th</sup> January 2006**

**PROJECT TEAM**

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MCerts Level 2 – MM 02 029

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MCerts Entry Level

Report prepared by:

Elena Berek

Signature:



Date:

26<sup>th</sup> January 2006

Report reviewed by:

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Signature:



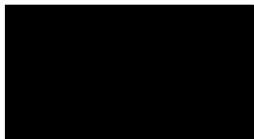
Date:

26<sup>th</sup> January 2006

Report authorised by:

Philip Butler

Signature:



Date:

26<sup>th</sup> January 2006

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**EXECUTIVE SUMMARY**

The following document details the emissions to air monitoring survey undertaken by Elena Berek and Tony Berek of Redwing Environmental Ltd at Terex Compact Equipment on the 13<sup>th</sup> to the 15<sup>th</sup> December 2005.

All results pertain to the dates monitored only.

A summary of results is shown below:-

Emission point reference Stack N <sup>o</sup>	Total Particulate Matter at reference conditions (mg/m <sup>3</sup> )	Highest 30 minute mean VOC at reference conditions (mg/m <sup>3</sup> )	Isocyanate Concentration at reference conditions (mg/m <sup>3</sup> )	Velocity corrected to reference conditions (m/s)	Volume flow corrected to reference conditions (m <sup>3</sup> /hr)
Primer Spray Booth 1	0.1 to 1.6	18.2 (16.4)	--	9.7	89,015
Primer Spray Booth 2	2.0 to 2.7	12.6 (10.8)	--	8.8	80,280
Primer Flash-off	<0.75 to 2.8	3.2 (2.9)	--	7.9	14,252
Topcoat Spray Booth 1	1.4 to 1.6	3.8 (3.0)	<0.04	9.7	88,505
Topcoat Spray Booth 2	1.5 to 2.0	20.9 (20.0)	<0.04	9.5	86,632
Topcoat Flash- off	1.4 to 2.2	3.7 (3.6)	<0.04	8.4	23,654
Topcoat Curing Oven	1.7 to 2.0	8.7 (8.4)	<0.04	9.1	6,428
Paint Kitchen	--	4.6 (4.4)	--	6.8	4,778
Preparation Booth	4.0 to 5.9	--	--	6.6	10,811
Spray Bake Booth 1	2.1 to 2.2	3.5 (3.5)	<0.04	7.1	11,634
Spray Bake Booth 2	4.5	7.8 (6.6)	<0.04	6.7	10,991



## 1.0 INTRODUCTION

- 1.1 The exhausts listed below were monitored with respect to quotation **Q-RED05-112/EB/v0** for the compliance check monitoring of emissions to air. The substances requested for monitoring at each emission point are listed below:

### Monitoring Programme

Stack reference/Proposed method	Total Particulate Matter ISO 9096 or BS EN 13284	Volatile Organic Compounds BS EN 13526	MDHS 25/3
<b>Main Paint Facility</b>			
Primer spray booth - 1	✓	✓	X
Primer spray booth – 2	✓	✓	X
Primer Flash off	✓	✓	X
Topcoat Spray booth -1	✓	✓	✓
Topcoat spray booth – 2	✓	✓	✓
Topcoat Flash off	✓	✓	✓
Topcoat Curing Oven	✓	✓	✓
Paint Kitchen	X	✓	X
<b>Off line Paint Facility</b>			
Preparation booth	✓	X	X
Spraybake booth – 1	✓	✓	✓
Spraybake booth – 2	✓	✓	✓

- 1.2 Terex Compact Equipment operate a metal and plastic coating process at their site in Coventry, the process is governed by the Secretary of States Process Guidance Note PG6/23(04) – Coating of Metal and Plastic.

1.3 The emission limits are listed below:

Process Guidance Note PG6/23 (04): Coating of Metal and Plastic ✓

**EMISSION LIMITS**

ANALYTE	TOTAL PARTICULATE	TOTAL VOC	TOTAL ISOCYANATES
Emission Limit	50 mg/m <sup>3</sup> ✓	150 mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>

1.4 The velocity and temperature profile were within the required parameters of 9:1 (pascals) or 3:1 metres/second and ± 1% for temperature profile. This information indicates that the sample ports are in ideal positions to collect the samples under representative conditions. ✓

1.5 Monitoring Results

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status
Primer Spray Booth 1	Total Particulate Matter	50	0.1 to 1.6	mg/m <sup>3</sup>	273K, 101.3kPa	13/12/05	1235-1311	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	18.2	mg/m <sup>3</sup>			1320-1356			
Primer Spray Booth 2	Total Particulate Matter	50	2.0 to 2.7	mg/m <sup>3</sup>	273K, 101.3kPa	13/12/05	1411-1447	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	12.6	mg/m <sup>3</sup>			1455-1531			
Primer Flash-off	Total Particulate Matter	50	<0.75 to 2.8	mg/m <sup>3</sup>	273K, 101.3kPa	13/12/05	1335-1407	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	3.2	mg/m <sup>3</sup>			1420-1452			
Top Coat Spray Booth 1	Total Particulate Matter	50	1.4 to 1.6	mg/m <sup>3</sup>	273K, 101.3kPa	14/12/05	1106-1206	BS EN 13526	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	3.8	mg/m <sup>3</sup>			0935-1011			
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			1020-1056			
							0940-1040	BS EN 13526	UKAS accreditation under application	
							0915-1015	MDHS 25/3		

Used BSEN 13284  
 permit clause 2.11 req it to be done in accordance with BS 9096  
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Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status
Top Coat Spray Booth 2	Total Particulate Matter	50	1.5 to 2.0	mg/m <sup>3</sup>	273K, 101.3kPa	14/12/05	1111-1147	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	20.9	mg/m <sup>3</sup>			1155-1231	BS EN 13526		
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			1100-1200	MDHS 25/3		
Topcoat Flash-off	Total Particulate Matter	50	1.4 to 2.2	mg/m <sup>3</sup>	273K, 101.3kPa	14/12/05	0945-1017	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	3.7	mg/m <sup>3</sup>			1025-1057	BS EN 13526		
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			1303-1403	MDHS 25/3		
Topcoat Curing Oven	Total Particulate Matter	50	1.7 to 2.0	mg/m <sup>3</sup>	273K, 101.3kPa	14/12/05	1105-1137	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	8.7	mg/m <sup>3</sup>			1145-1217	BS EN 13526		
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			1406-1506	MDHS 25/3		
Spray Bake 1	Total Particulate Matter	50	2.1 to 2.2	mg/m <sup>3</sup>	273K, 101.3kPa	15/12/05	0915-0947	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	3.5	mg/m <sup>3</sup>			0955-1027	BS EN 13526		
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			0900-1000	MDHS 25/3		

**Terex Compact Equipment**

**Redwing Environmental Ltd**

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status
Spray Bake 2	Total Particulate Matter	50	4.5	mg/m <sup>3</sup>	273K, 101.3kPa	15/12/05	1035-1107 1115-1147	BS EN 13284	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	7.8	mg/m <sup>3</sup>			1005-1105	BS EN 13526		
	Isocyanates	0.1	<0.04	mg/m <sup>3</sup>			1035-1135	MDHS 25/3		
Paint Kitchen	Volatile Organic Compounds	150	4.6	mg/m <sup>3</sup>	273K, 101.3kPa	15/12/05	0915-1015	BS EN 13526	UKAS accreditation under application	Normal
Preparation Booth	Total Particulate Matter	50	4.0 to 5.9	mg/m <sup>3</sup>	273K, 101.3kPa	14/12/05	1320-1352 1405-1437	BS EN 13284	UKAS accreditation under application	Normal

\* Redwing Environmental Ltd are in the process of applying for UKAS accreditation



## 2 Supporting Information (Held by Redwing Environmental Ltd)

### 2.1 General Information

#### 2.1.1 Redwing Environmental Ltd staff details

Elena Berek – MCerts Level 2 – TE1, TE2, TE3, TE4  
Registration number MM 02 029

Tony Berek – MCerts Entry Level

### 2.2 Redwing Environmental Ltd method details

#### 2.2.1 Volatile organic compounds (BS EN 13526: 2001)

2.2.2 Monitoring to determine VOC emission concentrations was in accordance with BS EN 13526: 2001.

2.2.3 Volatile organic compound concentrations were measured using a Signal portable heated VOC analyser. The analyser works by burning the gas sample in a hydrogen flame. This ionises any organic compounds present and the current produced across an electric field is proportional to the number of carbon atoms.

2.2.4 The analyser and heated line will be zeroed and calibrated with a test gas (80 ppm and or 800ppm propane) prior to each sampling run. VOC sampling will be undertaken over a period of at least 30 minutes to cover any process variation.

2.2.5 All data was logged onto a Grant Squirrel data logger set at 20 second logging.

2.2.6 A heated line from the sample point to analyser was used to ensure that condensation did not occur leading to the loss of sample concentration. Volatile organic compounds.

### 2.3 Stack Velocity, Pressure and Temperature Measurements

2.3.1 The stack velocity, pressure and temperature were measured by full pitot traverses of the duct using the points provided. Measurements were taken at ten equally spaced points along each proposed sampling line, excluding the 5% of the effective flue diameter from the wall. ✓

### 2.4 Leak tests for extractive techniques

2.4.1 All extractive-sampling techniques were tested for leaks before sampling proceeded. Any leaks present were eliminated prior to sampling and will be reported.

2.4.2 Leak checks are carried out during the calibrating procedure, as the concentration of the calibration gas is known it is readily identified if air is entering the sample line and diluting the gas.



**2.5 Particulate matter BS EN 13284-1: 2002**

- ✓ 2.5.1 Total particulate matter was sampled using a Zambelli isokinetic sampling system in accordance with BS EN 13284-1: 2002 – Determination of Low Range Mass Concentration of dust (< 50mg/m<sup>3</sup>).
- ✓ 2.5.2 The Zambelli sampling system monitors temperature, static pressure and velocities within the duct using an S-type pitot tube and K-type thermocouple. The sampling rate was continuously monitored and adjusted relative to the duct velocity to ensure isokinetic-sampling conditions were maintained throughout the monitoring period.
- 2.5.3 Exhaust gases were drawn under isokinetic conditions from the exhaust points using the Zambelli sampling probe, particulate matter was then collected on a pre-weighed glass fibre filter (or most suitable filter for process) contained within the filter cassette holder, and the total particulate matter determined gravimetrically.
- ✓ 2.5.4 It is also necessary to wash the probe and nozzle out with water and then acetone between sampling and the weight of the probe washing added to that collected on the sample filter. Analysis of an acetone/water blank will be carried out and the result corrected accordingly.
- 2.5.5 The sample positions were calculated with respect to BS EN 13284-1: 2002 – Stationary source emissions – Determination of Low Range Mass Concentration of dust.
- 2.5.6 Sampling may be carried out internally or externally, the method used will be reported and provided there are no deviations from the method the uncertainty for the monitoring procedure is reported to be within the requirements specified by the Hazardous Waste Directive (HWD) as stated in the Environment Agency Technical Document M2

Uncertainty: ± 30%

- 2.5.7 ISO 9096: 2003 and BS EN 13284-1: 2002 are very similar methods but BS EN 13284-1: 2002 recommends the use of an 8mm nozzle and nozzles less than 6mm should not be used. For this survey a 6mm nozzle was used otherwise the flow rate would have exceeded 34 litres/minute.

*Why is this a problem - Jushed in email.*

**2.6 Isocyanates (MDHS 25/3)**

- 2.6.1 There are several Isocyanates; these include TDI, MDI, HDI and IPDI. The isocyanate to be monitored is HDI (1,6 – hexamethylene diisocyanate). All Isocyanates follow the same procedure for sampling and analysis.
- 2.6.2 Isocyanates can be sampled non-isokinetically following MDHS 25 or isokinetically following the draft US EPA Method 207-1.
- 2.6.3 The method used was the non-isokinetic method. A sample probe was placed inside the stack; the sample probe was then attached to two midget impingers. The first impinger contained 10mls of 1,2 methoxy-phenyl piperazine and the second impinger was empty.

2.6.4 The impingers were then attached to a calibrated sample pump; the pump was left to run for approximately 1 hour. The pump was then recalibrated and the total volume of the sample gas calculated. In the event of the solution evaporating, the sample volume is made up to 10mls using dry toluene.

2.6.5 The samples are stored in brown glass bottles and submitted for analysis. The samples will be 'blown down' to dryness using air and made upto 1ml using the most suitable matrix (usually acetonitrile). The sample will then be ready for analysis by HPLC (High Pressure Liquid Chromatography).

### **3.0 Quality Assurance**

3.1 Redwing Environmental Ltd will always endeavour to follow the methods specified in the Environment Agency Technical Guidance M2. The methods followed will be listed as our Technical Procedures and will be put forward for UKAS accreditation. Redwing Environmental Ltd are members of the Source Testing Association (STA) and therefore operate under the STA's code of practice.

3.2 Redwing Environmental Ltd is accredited to ISO 9001:2000 and samples are submitted to a UKAS accredited laboratory.

### **4.0 Disclaimer**

4.1 Redwing Environmental Ltd confirm that in preparing this report all reasonable skill and care has been exercised.

4.1.1 Unless specifically assigned or transferred within the terms of the agreement, Redwing Environmental Ltd asserts and retains all copyright, and other Intellectual Property Rights, in and over the report and its contents.

# **APPENDIX A**

## **Particulate & Velocity Certificate**



Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID		Primer Spray Booth 1					
	Terex Compact Equipment						
	RUN 1			RUN 2			
Filter Reference No	009919			009911			
Date	13-Dec-05			13-Dec-05			
Sample Period	12:35	to	13:11	13:20	to	13:56	
Velocity (Nm/s)	9.72			9.72			
Volume (Nm³/s)	24.73			24.73			
Average Stack Temp (°C)	20.00			20.00			
Permitted Temp Range (°C)	5.35	to	34.65	5.35	to	34.65	
Lowest Pitot Reading (pascals)	65.69			65.69			
Highest Pitot Reading (pascals)	93.14			93.14			
Pitot Ratio (less than 9:1)	1.42	:	1	1.42	:	1	
Delta H (mm H2O)	N/A			N/A			
K - Factor	N/A			N/A			
Moisture (%)	n/a			n/a			
Litres sampled	960			973			
Corrected volume sampled (m³)	0.926			0.939			
Particulate Concentration on Filter (mg/m³)	<0.1			0.1			
Particulate Concentration in Wash (mg/m³)	1.6			<0.5			
Total Particulate Concentration (mg/m³)	1.6			0.1			
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a			
Total Particulate Mass Emission (kg/hour)	0.155			0.005			

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Primer Spray Booth 2					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009935			009930		
Date	13-Dec-05			13-Dec-05		
Sample Period	14:11	to	14:47	14:55	to	15:31
Velocity (Nm/s)	8.76			8.76		
Volume (Nm³/s)	22.30			22.30		
Average Stack Temp (°C)	20.00			20.00		
Permitted Temp Range (°C)	5.35	to	34.65	5.35	to	34.65
Lowest Pitot Reading (pascals)	52.94			52.94		
Highest Pitot Reading (pascals)	85.29			85.29		
Pitot Ratio (less than 9:1)	1.61	:	1	1.61	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	943			1002		
Corrected volume sampled (m³)	0.903			0.960		
Particulate Concentration on Filter (mg/m³)	<0.5			<0.5		
Particulate Concentration in Wash (mg/m³)	2.0			2.7		
Total Particulate Concentration (mg/m³)	2.0			2.7		
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.172			0.233		

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Primer Flash-off					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009929			009928		
Date	13-Dec-05			13-Dec-05		
Sample Period	13:35	to	14:07	14:20	to	14:52
Velocity (Nm/s)	7.88			7.88		
Volume (Nm <sup>3</sup> /s)	3.96			3.96		
Average Stack Temp (°C)	22.00			22.00		
Permitted Temp Range (°C)	7.25	to	36.75	7.25	to	36.75
Lowest Pitot Reading (pascals)	41.18			41.18		
Highest Pitot Reading (pascals)	69.61			69.61		
Pitot Ratio (less than 9:1)	1.69	:	1	1.69	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	790			791		
Corrected volume sampled (m <sup>3</sup> )	0.765			0.766		
Particulate Concentration on Filter (mg/m <sup>3</sup> )	0.1			<0.1		
Particulate Concentration In Wash (mg/m <sup>3</sup> )	2.7			<0.65		
Total Particulate Concentration (mg/m <sup>3</sup> )	2.8			<0.75		
Total Particulate Concentration corrected for moisture (mg/m <sup>3</sup> )	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.043			<0.011		



Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	TopCoat Spray Booth 1					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009916			009915		
Date	14-Dec-05			14-Dec-05		
Sample Period	9:35	to	10:11	10:20	to	10:56
Velocity (Nm/s)	9.66			9.66		
Volume (Nm <sup>3</sup> /s)	24.58			24.58		
Average Stack Temp (°C)	21.00			21.00		
Permitted Temp Range (°C)	6.30	to	35.70	6.30	to	35.70
Lowest Pitot Reading (pascals)	71.57			71.57		
Highest Pitot Reading (pascals)	93.14			93.14		
Pitot Ratio (less than 9:1)	1.30	:	1	1.30	:	1
Delta H (mm H <sub>2</sub> O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	1008			1055		
Corrected volume sampled (m <sup>3</sup> )	0.983			1.025		
Particulate Concentration on Filter (mg/m <sup>3</sup> )	0.4			<0.4		
Particulate Concentration in Wash (mg/m <sup>3</sup> )	1.2			1.4		
Total Particulate Concentration (mg/m <sup>3</sup> )	1.6			1.4		
Total Particulate Concentration corrected for moisture (mg/m <sup>3</sup> )	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.156			0.130		

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	TopCoat Spray Booth 2					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009917			009918		
Date	14-Dec-05			14-Dec-05		
Sample Period	11:11	to	11:47	11:55	to	12:31
Velocity (Nm/s)	9.46			9.46		
Volume (Nm³/s)	24.06			24.06		
Average Stack Temp (°C)	21.00			21.00		
Permitted Temp Range (°C)	6.30	to	35.70	6.30	to	35.70
Lowest Pitot Reading (pascals)	65.69			65.69		
Highest Pitot Reading (pascals)	90.20			90.20		
Pitot Ratio (less than 9:1)	1.37	:	1	1.37	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	1015			972		
Corrected volume sampled (m³)	0.979			0.938		
Particulate Concentration on Filter (mg/m³)	<0.05			0.3		
Particulate Concentration in Wash (mg/m³)	1.5			1.7		
Total Particulate Concentration (mg/m³)	1.5			2.0		
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.143			0.186		

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Top Coat Flash-off					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009927			010171		
Date	14-Dec-05			14-Dec-05		
Sample Period	9:45	to	10:17	10:25	to	10:57
Velocity (Nm/s)	8.37			8.37		
Volume (Nm³/s)	6.57			6.57		
Average Stack Temp (°C)	25.00			25.00		
Permitted Temp Range (°C)	10.10	to	39.90	10.10	to	39.90
Lowest Pitot Reading (pascals)	50.00			50.00		
Highest Pitot Reading (pascals)	72.55			72.55		
Pitot Ratio (less than 9:1)	1.45	:	1	1.45	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Molsture (%)	n/a			n/a		
Litres sampled	917			905		
Corrected volume sampled (m³)	0.891			0.879		
Particulate Concentration on Filter (mg/m³)	<0.05			<0.05		
Particulate Concentration in Wash (mg/m³)	2.2			1.4		
Total Particulate Concentration (mg/m³)	2.2			1.4		
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.058			0.035		



Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Top Coat Curing Oven					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	010168			010169		
Date	14-Dec-05			14-Dec-05		
Sample Period	11:05	to	11:37	11:45	to	12:17
Velocity (Nm/s)	9.09			9.09		
Volume (Nm <sup>3</sup> /s)	1.79			1.79		
Average Stack Temp (°C)	40.00			40.00		
Permitted Temp Range (°C)	24.35	to	55.65	24.35	to	55.65
Lowest Pitot Reading (pascals)	44.12			44.12		
Highest Pitot Reading (pascals)	86.27			86.27		
Pitot Ratio (less than 9:1)	1.96	:	1	1.96	:	1
Delta H (mm H <sub>2</sub> O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	975			903		
Corrected volume sampled (m <sup>3</sup> )	0.941			0.871		
Particulate Concentration on Filter (mg/m <sup>3</sup> )	<0.05			<0.05		
Particulate Concentration in Wash (mg/m <sup>3</sup> )	1.7			2.0		
Total Particulate Concentration (mg/m <sup>3</sup> )	1.7			2.0		
Total Particulate Concentration corrected for moisture (mg/m <sup>3</sup> )	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.013			0.014		

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Preparation Booth					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	010167			010166		
Date	14-Dec-05			14-Dec-05		
Sample Period	13:20	to	13:52	14:05	to	14:37
Velocity (Nm/s)	6.62			6.62		
Volume (Nm³/s)	3.00			3.00		
Average Stack Temp (°C)	26.00			26.00		
Permitted Temp Range (°C)	11.05	to	40.95	11.05	to	40.95
Lowest Pitot Reading (pascals)	16.67			16.67		
Highest Pitot Reading (pascals)	50.98			50.98		
Pitot Ratio (less than 9:1)	3.06	:	1	3.06	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	411			419		
Corrected volume sampled (m³)	0.397			0.404		
Particulate Concentration on Filter (mg/m³)	<0.1			<0.1		
Particulate Concentration in Wash (mg/m³)	4.0			5.9		
Total Particulate Concentration (mg/m³)	4.0			5.9		
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.048			0.070		

Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Spray Bake Booth 1					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009934			010165		
Date	15-Dec-05			15-Dec-05		
Sample Period	9:15	to	9:47	9:55	to	10:27
Velocity (Nm/s)	7.12			7.12		
Volume (Nm³/s)	3.23			3.23		
Average Stack Temp (°C)	26.00			26.00		
Permitted Temp Range (°C)	11.05	to	40.95	11.05	to	40.95
Lowest Pitot Reading (pascals)	31.37			31.37		
Highest Pitot Reading (pascals)	61.76			61.76		
Pitot Ratio (less than 9:1)	1.97	:	1	1.97	:	1
Delta H (mm H2O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	425			436		
Corrected volume sampled (m³)	0.410			0.420		
Particulate Concentration on Filter (mg/m³)	<0.1			<0.1		
Particulate Concentration in Wash (mg/m³)	2.2			2.1		
Total Particulate Concentration (mg/m³)	2.2			2.1		
Total Particulate Concentration corrected for moisture (mg/m³)	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.028			0.027		



Certificate - Total Particulate Matter (TPM) & Velocity

Stack Reference ID	Spray Bake Booth 2					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	009932			009933		
Date	15-Dec-05			15-Dec-05		
Sample Period	10:35	to	11:07	11:15	to	11:47
Velocity (Nm/s)	6.73			6.73		
Volume (Nm <sup>3</sup> /s)	3.05			3.05		
Average Stack Temp (°C)	26.00			26.00		
Permitted Temp Range (°C)	11.05	to	40.95	11.05	to	40.95
Lowest Pitot Reading (pascals)	32.35			32.35		
Highest Pitot Reading (pascals)	48.04			48.04		
Pitot Ratio (less than 9:1)	1.48	:	1	1.48	:	1
Delta H (mm H <sub>2</sub> O)	N/A			N/A		
K - Factor	N/A			N/A		
Moisture (%)	n/a			n/a		
Litres sampled	418			442		
Corrected volume sampled (m <sup>3</sup> )	0.404			0.427		
Particulate Concentration on Filter (mg/m <sup>3</sup> )	<0.1			<0.1		
Particulate Concentration in Wash (mg/m <sup>3</sup> )	4.5			4.5		
Total Particulate Concentration (mg/m <sup>3</sup> )	4.5			4.5		
Total Particulate Concentration corrected for moisture (mg/m <sup>3</sup> )	n/a			n/a		
Total Particulate Mass Emission (kg/hour)	0.054			0.054		

# Raw Data: VELOCITY PROFILE

<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	13/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	<b>Primer Spray Booth 1</b>	<b>Isokinetic Sampling Method</b>				BS EN 13284
<b>Number of Stacks</b>	1	<b>Samples per Axis</b>				6
<b>Configuration (Round / Rectangular)</b>	Round	<b>Stack Area (m2)</b>				2.545
<b>Dimensions (mtrs)</b>	1.80	<b>Isokinetic Sample Points (cms)</b>				
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		1	7.92	5	153.72	
<b>Number of Sample Ports</b>	2	2	26.28	6	172.08	
<b>Number of Samples per Axis / Port</b>	6	3	53.28	7	N/A	
<b>Nozzle Diameter (mm)</b>	8.0	4	126.72	8	N/A	
<b>Nozzle Area (mm²)</b>	50.272	<b>Average Isokinetic Flow Rate (ltrs/min)</b>		1 Axis	2 Axis	
				29.22	29.40	
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>			11/11/06	
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Atmos. Pressure (mbars)</b>
						1028
1	11.7	0.75	20.0	0.78	20.0	Static Pressure (cm H2O)
2	27.0	0.87	20.0	0.84	20.0	0.67
3	45.0	0.84	20.0	0.94	20.0	1 Axis      2 Axis
4	63.0	0.67	20.0	0.88	20.0	Average Velocity Flow (m/s)
5	81.0	0.78	20.0	0.95	20.0	9.72
6	99.0	0.92	20.0	0.84	20.0	Average Volume Flow (Nm³/s)
7	117.0	0.93	20.0	0.78	20.0	24.73
8	135.0	0.89	20.0	0.79	20.0	Volume (m³/s)
9	153.0	0.94	20.0	0.84	20.0	24.65      24.80
10	171.0	0.88	20.0	0.93	20.0	Velocity of flow (m/s)
<b>Averages</b>		0.85	20.0	0.86	20.0	9.69      9.75
						Reduced Exit Velocity (m/s)
						N/A      N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2 + 273) =</math></b>						
293.00						
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273) =</math></b>						
5.35      to      34.65						
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
1.0						
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.7						
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>						
1.42 : 1						
<b>On site Checklist</b>						
<b>Manometer Leak Check</b>	ok			<b>Instrument</b>	<b>Serial No:</b>	
<b>Range of Gas Temps</b>	ok			Manometer	RED 0132	
<b>Leak Check (l/min)</b>	<0.1			Temp Indicator	RED 0133	
<b>Leak Check 2% Vol (l/min)</b>	0.58			Thermocouple	RED 0133	
<b>Swirl Test (&lt;15°)</b>	ok			Pitot Tube	RED 0156	



# Raw Data: VELOCITY PROFILE

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED05-112/EB/R1/Rev0					
Date	13/12/2005	Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
Stack Reference	Primer Spray Booth 2	Isokinetic Sampling Method				BS EN 13284
Number of Stacks	1	Samples per Axis				6
Configuration (Round / Rectangular)	Round	Stack Area (m <sup>2</sup> )				2.545
Dimensions (mtrs)	1.80	Isokinetic Sample Points (cms)				
Outlet Diameter (if applicable) (mtrs/sec)		1	7.92	5	153.72	
Number of Sample Ports	2	2	26.28	6	172.08	
Number of Samples per Axis / Port	6	3	53.28	7	N/A	
Nozzle Diameter (mm)	8.0	4	126.72	8	N/A	
Nozzle Area (mm <sup>2</sup> )	50.272	Average Isokinetic Flow Rate (ltrs/min)		1 Axis	2 Axis	
				26.34	26.53	
<b>Duct Survey</b>						
Pitot Coefficient	0.82	Pitot Calibration Date		11/11/06		Atmos. Pressure (mbars)
Position No.	Distance (cms)	Axis 1 (cm H2O)	Temperature (C)	Axis 2 (cm H2O)	Temperature (C)	1028
1	11.7	0.67	20.0	0.73	20.0	Static Pressure (cm H2O)
2	27.0	0.87	20.0	0.79	20.0	0.74
3	45.0	0.78	20.0	0.74	20.0	1 Axis
4	63.0	0.76	20.0	0.69	20.0	2 Axis
5	81.0	0.65	20.0	0.67	20.0	Average Velocity Flow (m/s)
6	99.0	0.69	20.0	0.63	20.0	8.76
7	117.0	0.54	20.0	0.67	20.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	135.0	0.56	20.0	0.66	20.0	22.30
9	153.0	0.67	20.0	0.69	20.0	Volume (m <sup>3</sup> /s)
10	171.0	0.69	20.0	0.71	20.0	22.22
Averages		0.69	20.0	0.70	20.0	22.38
						Velocity of flow (m/s)
						8.73
						8.80
						Reduced Exit Velocity (m/s)
						N/A
						N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273) =$						293.00
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$						5.35 to 34.65
Highest Pitot Static Reading (either sampling line) (cm H2O) =						0.9
Lowest Pitot Static Reading (either sampling line) (cm H2O) =						0.5
Ratio Highest/Lowest (Max permitted = 9:1)						1.61 : 1
<b>On site Checklist</b>						
Manometer Leak Check	ok			Instrument	Serial No:	
Range of Gas Temps	ok			Manometer	RED 0132	
Leak Check (l/min)	<0.1			Temp Indicator	RED 0133	
Leak Check 2% Vol (l/min)	0.53			Thermocouple	RED 0133	
Swirl Test (<15°)	ok			Pitot Tube	RED 0156	
				Sample Pump	Zambelli (Blue)	

## Raw Data: VELOCITY PROFILE

<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	13/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	<b>Primer Flash-off</b>	<b>Isokinetic Sampling Method</b>				BS EN 13284
<b>Number of Stacks</b>		1	<b>Samples per Axis</b>		4	
<b>Configuration (Round / Rectangular)</b>	Round	<b>Stack Area (m2)</b>				0.503
<b>Dimensions (mtrs)</b>	0.80	<b>Isokinetic Sample Points (cms)</b>				
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		1	5.36	5	N/A	
<b>Number of Sample Ports</b>	2	2	20.00	6	N/A	
<b>Number of Samples per Axis / Port</b>	4	3	60.00	7	N/A	
<b>Nozzle Diameter (mm)</b>	8.0	4	74.64	8	N/A	
<b>Nozzle Area (mm<sup>2</sup>)</b>	50.272	<b>Average Isokinetic Flow Rate (ltrs/min)</b>		1 Axis	2 Axis	
				23.65	23.86	
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>		11/11/06		<b>Atmos. Pressure (mbars)</b>
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	1028
1	5.2	0.45	22.0	0.53	22.0	Static Pressure (cm H2O)
2	12.0	0.44	22.0	0.51	22.0	0.54
3	20.0	0.6	22.0	0.56	22.0	1 Axis
4	28.0	0.53	22.0	0.64	22.0	2 Axis
5	36.0	0.42	22.0	0.56	22.0	Average Velocity Flow (m/s)
6	44.0	0.56	22.0	0.63	22.0	7.88
7	52.0	0.65	22.0	0.67	22.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	60.0	0.51	22.0	0.55	22.0	3.96
9	68.0	0.64	22.0	0.51	22.0	Volume (m <sup>3</sup> /s)
10	76.0	0.71	22.0	0.45	22.0	3.94
						3.98
<b>Averages</b>		0.55	22.0	0.56	22.0	Velocity of flow (m/s)
						7.84
						7.91
						Reduced Exit Velocity (m/s)
						N/A
						N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2 + 273) =</math></b>				295.00		
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273) =</math></b>				7.25 to 36.75		
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>				0.7		
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>				0.4		
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>				1.69 : 1		
<b>On site Checklist</b>						
<b>Manometer Leak Check</b>	ok	<b>Instrument</b>		<b>Serial No:</b>		
<b>Range of Gas Temps</b>	ok	Manometer	RED 0132			
<b>Leak Check (l/min)</b>	<0.1	Temp Indicator	RED 0133			
<b>Leak Check 2% Vol (l/min)</b>	0.47	Thermocouple	RED 0133			
<b>Swirl Test (&lt;15°)</b>	ok	Pitot Tube	RED 0156			
		Sample Pump	Zambelli (Grey)			



# Raw Data: VELOCITY PROFILE

<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	14/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	<b>TopCoat Spray Booth 1</b>	<b>Isokinetic Sampling Method</b>				BS EN 13284
<b>Number of Stacks</b>	1	<b>Samples per Axis</b>				6
<b>Configuration (Round / Rectangular)</b>	Round	<b>Stack Area (m2)</b>				2.545
<b>Dimensions (mtrs)</b>	1.80	<b>Isokinetic Sample Points (cms)</b>				
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		1	7.92	5	153.72	
<b>Number of Sample Ports</b>	2	2	26.28	6	172.08	
<b>Number of Samples per Axis / Port</b>	6	3	53.28	7	N/A	
<b>Nozzle Diameter (mm)</b>	8.0	4	126.72	8	N/A	
<b>Nozzle Area (mm²)</b>	50.272	<b>Average Isokinetic Flow Rate (ltrs/min)</b>		1 Axis	2 Axis	
				29.48	28.80	
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>		11/11/06		<b>Atmos. Pressure (mbars)</b>
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	1024
1	11.7	0.78	21.0	0.77	21.0	Static Pressure (cm H2O)
2	27.0	0.84	21.0	0.83	21.0	0.54
3	45.0	0.89	21.0	0.95	21.0	1 Axis
4	63.0	0.93	21.0	0.89	21.0	2 Axis
5	81.0	0.9	21.0	0.85	21.0	Average Velocity Flow (m/s)
6	99.0	0.91	21.0	0.83	21.0	9.66
7	117.0	0.87	21.0	0.82	21.0	Average Volume Flow (Nm³/s)
8	135.0	0.84	21.0	0.78	21.0	24.58
9	153.0	0.89	21.0	0.75	21.0	Volume (m³/s)
10	171.0	0.74	21.0	0.73	21.0	24.87
<b>Averages</b>		0.86	21.0	0.82	21.0	24.30
						Velocity of flow (m/s)
						9.77
						9.55
						Reduced Exit Velocity (m/s)
						N/A
						N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2 + 273) =</math></b>						
294.00						
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273) =</math></b>						
6.30 to 35.70						
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
1.0						
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.7						
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>						
1.30 : 1						
<b>On site Checklist</b>						
Manometer Leak Check	ok			<b>Instrument</b>	<b>Serial No:</b>	
Range of Gas Temps	ok			Manometer	RED 0132	
Leak Check (l/min)	<0.1			Temp Indicator	RED 0133	
Leak Check 2% Vol (l/min)	0.59			Thermocouple	RED 0133	
Swirl Test (<15°)	ok			Pitot Tube	RED 0156	
				Sample Pump	Zambelli (Grey)	

# Raw Data: VELOCITY PROFILE

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED05-112/EB/R1/Rev0					
Date	14/12/2005	Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
Stack Reference	TopCoat Spray Booth 2	Isokinetic Sampling Method				BS EN 13284
Number of Stacks	1	Samples per Axis				6
Configuration (Round / Rectangular)	Round	Stack Area (m2)				2.545
Dimensions (mtrs)	1.80	Isokinetic Sample Points (cms)				
Outlet Diameter (if applicable) (mtrs/sec)		1	7.92	5	153.72	
Number of Sample Ports	2	2	26.28	6	172.08	
Number of Samples per Axis / Port	6	3	53.28	7	N/A	
Nozzle Diameter (mm)	8.0	4	126.72	8	N/A	
Nozzle Area (mm <sup>2</sup> )	50.272	Average Isokinetic Flow Rate (ltrs/min)		1 Axis	2 Axis	
				28.00	29.05	
<b>Duct Survey</b>						
Pitot Coefficient	0.82	Pitot Calibration Date		11/11/06		Atmos. Pressure (mbars)
Position No.	Distance (cms)	Axis 1 (cm H2O)	Temperature (C)	Axis 2 (cm H2O)	Temperature (C)	1024
1	11.7	0.67	21.0	0.79	21.0	Static Pressure (cm H2O)
2	27.0	0.72	21.0	0.82	21.0	0.71
3	45.0	0.77	21.0	0.86	21.0	1 Axis
4	63.0	0.74	21.0	0.89	21.0	2 Axis
5	81.0	0.78	21.0	0.92	21.0	Average Velocity Flow (m/s)
6	99.0	0.82	21.0	0.87	21.0	9.46
7	117.0	0.89	21.0	0.83	21.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	135.0	0.78	21.0	0.82	21.0	24.06
9	153.0	0.76	21.0	0.78	21.0	Volume (m <sup>3</sup> /s)
10	171.0	0.82	21.0	0.76	21.0	23.62
						24.51
						Velocity of flow (m/s)
						9.28
						9.63
Averages		0.78	21.0	0.83	21.0	Reduced Exit Velocity (m/s)
						N/A
						N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2 + 273) =$						
294.00						
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$						
6.30 to 35.70						
Highest Pitot Static Reading (either sampling line) (cm H2O) =						
0.9						
Lowest Pitot Static Reading (either sampling line) (cm H2O) =						
0.7						
Ratio Highest/Lowest (Max permitted = 9:1)						
1.37 : 1						
<b>On site Checklist</b>						
Manometer Leak Check	ok	Instrument		Serial No:		
Range of Gas Temps	ok	Manometer	RED 0132			
Leak Check (l/min)	<0.1	Temp Indicator	RED 0133			
Leak Check 2% Vol (l/min)	0.56	Thermocouple	RED 0133			
Swirl Test (<15°)	ok	Pitot Tube	RED 0156			
		Sample Pump	Zambelli (Grey)			



Raw Data: VELOCITY PROFILE

Client	Terex Compact Equipment				
Site Address	Prologis Park, Coventry				
Job Number	P-RED05-112/EB/R1/Rev0				
Date	14/12/2005	Port Depth (cm)			
Operator(s)	Elena Berek & Tony Berek				
<b>Isokinetic Sampling Information</b>					
Stack Reference	Top Coat Flash-off	Isokinetic Sampling Method			BS EN 13284
Number of Stacks	1	Samples per Axis			4
Configuration (Round / Rectangular)	Round	Stack Area (m2)			0.785
Dimensions (mtrs)	1.0	Isokinetic Sample Points (cms)			
Outlet Diameter (if applicable) (mtrs/sec)		1	6.70	5	N/A
Number of Sample Ports	2	2	25.00	6	N/A
Number of Samples per Axis / Port	4	3	75.00	7	N/A
Nozzle Diameter (mm)	8.0	4	93.30	8	N/A
Nozzle Area (mm²)	50.272	Average Isokinetic Flow Rate (ltrs/min)		1 Axis	2 Axis
				25.38	25.09
<b>Duct Survey</b>					
Pitot Coefficient	0.82	Pitot Calibration Date		11/11/06	
Position No.	Distance (cms)	Axis 1 (cm H2O)	Temperature (C)	Axis 2 (cm H2O)	Temperature (C)
					Atmos. Pressure (mbars)
1	6.5	0.74	25.0	0.69	25.0
2	15.0	0.68	25.0	0.62	25.0
3	25.0	0.65	25.0	0.57	25.0
4	35.0	0.68	25.0	0.59	25.0
5	45.0	0.71	25.0	0.63	25.0
6	55.0	0.63	25.0	0.64	25.0
7	65.0	0.69	25.0	0.65	25.0
8	75.0	0.51	25.0	0.59	25.0
9	85.0	0.58	25.0	0.61	25.0
10	95.0	0.61	25.0	0.55	25.0
Averages		0.63	25.0	0.61	25.0
					1024
					Static Pressure (cm H2O)
					0.71
					1 Axis      2 Axis
					Average Velocity Flow (m/s)
					8.37
					Average Volume Flow (Nm³/s)
					6.57
					Volume (m³/s)
					6.61      6.53
					Velocity of flow (m/s)
					8.41      8.32
					Reduced Exit Velocity (m/s)
					N/A      N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273) =$					
298.00					
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$					
10.10      to      39.90					
Highest Pitot Static Reading (either sampling line) (cm H2O) =					
0.7					
Lowest Pitot Static Reading (either sampling line) (cm H2O) =					
0.5					
Ratio Highest/Lowest (Max permitted = 9:1)					
1.45 : 1					
<b>On site Checklist</b>					
Manometer Leak Check	ok	Instrument		Serial No:	
Range of Gas Temps	ok	Manometer	RED 0132		
Leak Check (l/min)	<0.1	Temp Indicator	RED 0133		
Leak Check 2% Vol (l/min)	0.51	Thermocouple	RED 0133		
Swirl Test (<15°)	ok	Pitot Tube	RED 0166		
		Sample Pump	Zambelli (Grey)		

## Raw Data: VELOCITY PROFILE

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED05-112/EB/R1/Rev0					
Date	14/12/2005	Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
Stack Reference	Top Coat Curing Oven	Isokinetic Sampling Method			BS EN 13284	
Number of Stacks	1	Samples per Axis			2	
Configuration (Round / Rectangular)	Round	Stack Area (m2)			0.196	
Dimensions (mtrs)	0.5	Isokinetic Sample Points (cms)				
Outlet Diameter (if applicable) (mtrs/sec)		1	7.30	5	N/A	
Number of Sample Ports	2	2	42.70	6	N/A	
Number of Samples per Axis / Port	2	3	N/A	7	N/A	
Nozzle Diameter (mm)	8.0	4	N/A	8	N/A	
Nozzle Area (mm <sup>2</sup> )	50.272	Average Isokinetic Flow Rate (ltrs/min)		1 Axis	2 Axis	
				27.24	27.61	
<b>Duct Survey</b>						
Pitot Coefficient	0.82	Pitot Calibration Date		11/11/06		Atmos. Pressure (mbars)
Position No.	Distance (cms)	Axis 1 (cm H2O)	Temperature (C)	Axis 2 (cm H2O)	Temperature (C)	1024
1	3.3	0.88	40.0	0.78	40.0	Static Pressure (cm H2O)
2	7.5	0.74	40.0	0.73	40.0	0.80
3	12.5	0.45	40.0	0.67	40.0	1 Axis
4	17.5	0.68	40.0	0.72	40.0	2 Axis
5	22.5	0.83	40.0	0.88	40.0	Average Velocity Flow (m/s)
6	27.5	0.8	40.0	0.72	40.0	9.09
7	32.5	0.7	40.0	0.76	40.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	37.5	0.65	40.0	0.69	40.0	1.79
9	42.5	0.62	40.0	0.71	40.0	Volume (m <sup>3</sup> /s)
10	47.5	0.54	40.0	0.62	40.0	1.77
Averages		0.69	40.0	0.71	40.0	1.80
						Velocity of flow (m/s)
						9.03
						9.16
						Reduced Exit Velocity (m/s)
						N/A
						N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273) =$				313.00		
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$				24.35 to 55.65		
Highest Pitot Static Reading (either sampling line) (cm H2O) =				0.9		
Lowest Pitot Static Reading (either sampling line) (cm H2O) =				0.5		
Ratio Highest/Lowest (Max permitted = 9:1)				1.96 : 1		
<b>On site Checklist</b>						
Manometer Leak Check	ok	Instrument		Serial No:		
Range of Gas Temps	ok	Manometer		RED 0132		
Leak Check (l/min)	<0.1	Temp Indicator		RED 0133		
Leak Check 2% Vol (l/min)	0.54	Thermocouple		RED 0133		
Swirl Test (<15°)	ok	Pitot Tube		RED 0156		
		Sample Pump		Zambelli (Blue)		



# Raw Data: VELOCITY PROFILE

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED05-112/EB/R1/Rev0					
Date	14/12/2005	Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
Stack Reference	Preparation Booth	Isokinetic Sampling Method				BS EN 13284
Number of Stacks	1	Samples per Axis				4
Configuration (Round / Rectangular)	Round	Stack Area (m2)				0.454
Dimensions (mtrs)	0.8	Isokinetic Sample Points (cms)				
Outlet Diameter (if applicable) (mtrs/sec)		1	5.09	5	N/A	
Number of Sample Ports	2	2	19.00	6	N/A	
Number of Samples per Axis / Port	4	3	57.00	7	N/A	
Nozzle Diameter (mm)	8.0	4	70.91	8	N/A	
Nozzle Area (mm <sup>2</sup> )	50.272	Average Isokinetic Flow Rate (ltrs/min)		1 Axis	2 Axis	
				20.13	19.80	
<b>Duct Survey</b>						
Pitot Coefficient	0.82	Pitot Calibration Date		11/11/06		Atmos. Pressure (mbars)
Position No.	Distance (cms)	Axis 1 (cm H2O)	Temperature (C)	Axis 2 (cm H2O)	Temperature (C)	1024
1	4.9	0.45	26.0	0.39	26.0	Static Pressure (cm H2O)
2	11.4	0.36	26.0	0.42	26.0	0.80
3	19.0	0.28	26.0	0.44	26.0	1 Axis
4	26.6	0.41	26.0	0.35	26.0	2 Axis
5	34.2	0.49	26.0	0.33	26.0	Average Velocity Flow (m/s)
6	41.8	0.52	26.0	0.39	26.0	6.62
7	49.4	0.46	26.0	0.41	26.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	57.0	0.38	26.0	0.44	26.0	3.00
9	64.6	0.42	26.0	0.35	26.0	Volume (m <sup>3</sup> /s)
10	72.2	0.17	26.0	0.29	26.0	3.03
Averages		0.39	26.0	0.38	26.0	2.98
						Velocity of flow (m/s)
						6.68
						6.56
						Reduced Exit Velocity (m/s)
						N/A
						N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273) =$						
299.00						
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$						
11.05 to 40.95						
Highest Pitot Static Reading (either sampling line) (cm H2O) =						
0.5						
Lowest Pitot Static Reading (either sampling line) (cm H2O) =						
0.2						
Ratio Highest/Lowest (Max permitted = 9:1)						
3.06 : 1						
<b>On site Checklist</b>						
Manometer Leak Check	ok			Instrument	Serial No:	
Range of Gas Temps	ok			Manometer	RED 0132	
Leak Check (l/min)	<0.1			Temp Indicator	RED 0133	
Leak Check 2% Vol (l/min)	0.40			Thermocouple	RED 0133	
Swirl Test (<15°)	ok			Pitot Tube	RED 0166	
				Sample Pump	High Flow Pump	

**Raw Data: VELOCITY PROFILE**

<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	15/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	<b>Spray Bake Booth</b>	<b>Isokinetic Sampling Method</b>				BS EN 13284
	1	<b>Samples per Axis</b>				4
<b>Number of Stacks</b>	1	<b>Stack Area (m2)</b>				0.454
<b>Configuration (Round / Rectangular)</b>	Round	<b>Isokinetic Sample Points (cms)</b>				
<b>Dimensions (mtrs)</b>	0.8	1	5.09	5	N/A	
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		2	19.00	6	N/A	
<b>Number of Sample Ports</b>	2	3	57.00	7	N/A	
<b>Number of Samples per Axis / Port</b>	4	4	70.91	8	N/A	
<b>Nozzle Diameter (mm)</b>	6.0				<b>1 Axis</b>	<b>2 Axis</b>
<b>Nozzle Area (mm<sup>2</sup>)</b>	28.278	<b>Average Isokinetic Flow Rate (ltrs/min)</b>			11.44	12.73
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>			11/11/06	
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Atmos. Pressure (mbars)</b>
						1024
						<b>Static Pressure (cm H2O)</b>
1	4.9	0.39	26.0	0.45	26.0	0.80
2	11.4	0.32	26.0	0.42	26.0	<b>1 Axis</b> <b>2 Axis</b>
3	19.0	0.34	26.0	0.48	26.0	<b>Average Velocity Flow (m/s)</b>
4	26.6	0.42	26.0	0.63	26.0	7.12
5	34.2	0.43	26.0	0.55	26.0	<b>Average Volume Flow (Nm<sup>3</sup>/s)</b>
6	41.8	0.48	26.0	0.52	26.0	3.23
7	49.4	0.38	26.0	0.49	26.0	<b>Volume (m<sup>3</sup>/s)</b>
8	57.0	0.37	26.0	0.43	26.0	3.06      3.40
9	64.6	0.42	26.0	0.52	26.0	<b>Velocity of flow (m/s)</b>
10	72.2	0.47	26.0	0.49	26.0	6.74      7.50
<b>Averages</b>		0.40	26.0	0.50	26.0	<b>Reduced Exit Velocity (m/s)</b>
						N/A      N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273</math> =</b>						
						299.00
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273)</math> =</b>						
						11.05      to      40.95
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
						0.6
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
						0.3
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>						
						1.97 : 1
<b>On site Checklist</b>						
<b>Manometer Leak Check</b>	ok			<b>Instrument</b>	<b>Serial No:</b>	
<b>Range of Gas Temps</b>	ok			Manometer	RED 0132	
<b>Leak Check (l/min)</b>	<0.1			Temp Indicator	RED 0133	
<b>Leak Check 2% Vol (l/min)</b>	0.23			Thermocouple	RED 0133	
<b>Swirl Test (&lt;15°)</b>	ok			Pitot Tube	RED 0156	
				Sample Pump	High Flow Pump	



## Raw Data: VELOCITY PROFILE

<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	15/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	Spray Bake Booth 2	<b>Isokinetic Sampling Method</b>				BS EN 13284
<b>Number of Stacks</b>	1	<b>Samples per Axis</b>				4
<b>Configuration (Round / Rectangular)</b>	Round	<b>Stack Area (m2)</b>				0.454
<b>Dimensions (mtrs)</b>	0.8	<b>Isokinetic Sample Points (cms)</b>				
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		1	5.09	5	N/A	
<b>Number of Sample Ports</b>	2	2	19.00	6	N/A	
<b>Number of Samples per Axis / Port</b>	4	3	57.00	7	N/A	
<b>Nozzle Diameter (mm)</b>	6.0	4	70.91	8	N/A	
<b>Nozzle Area (mm<sup>2</sup>)</b>	28.278	<b>Average Isokinetic Flow Rate (ltrs/min)</b>			1 Axis	2 Axis
					11.34	11.50
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>			11/11/06	<b>Atmos. Pressure (mbars)</b>
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	1024
1	4.9	0.33	28.0	0.42	26.0	<b>Static Pressure (cm H2O)</b>
2	11.4	0.39	26.0	0.49	26.0	0.80
3	19.0	0.35	26.0	0.45	26.0	1 Axis
4	26.6	0.38	26.0	0.42	26.0	2 Axis
5	34.2	0.34	26.0	0.41	26.0	<b>Average Velocity Flow (m/s)</b>
6	41.8	0.39	26.0	0.38	26.0	6.73
7	49.4	0.42	26.0	0.35	26.0	<b>Average Volume Flow (Nm<sup>3</sup>/s)</b>
8	57.0	0.45	26.0	0.34	26.0	3.05
9	64.6	0.42	26.0	0.38	26.0	<b>Volume (m<sup>3</sup>/s)</b>
10	72.2	0.48	26.0	0.42	26.0	3.03
<b>Averages</b>		0.40	26.0	0.41	26.0	3.07
						<b>Velocity of flow (m/s)</b>
						6.68
						6.78
						<b>Reduced Exit Velocity (m/s)</b>
						N/A
						N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2 + 273) =</math></b>						
299.00						
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273) =</math></b>						
11.05 to 40.95						
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.5						
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.3						
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>						
1.48 : 1						
<b>On site Checklist</b>						
Manometer Leak Check	ok	<b>Instrument</b>		<b>Serial No:</b>		
Range of Gas Temps	ok	Manometer	RED 0132			
Leak Check (l/min)	<0.1	Temp Indicator	RED 0133			
Leak Check 2% Vol (l/min)	0.23	Thermocouple	RED 0133			
Swirl Test (<15°)	ok	Pitot Tube	RED 0156			
		Sample Pump	High Flow Pump			

**Raw Data: VELOCITY PROFILE**

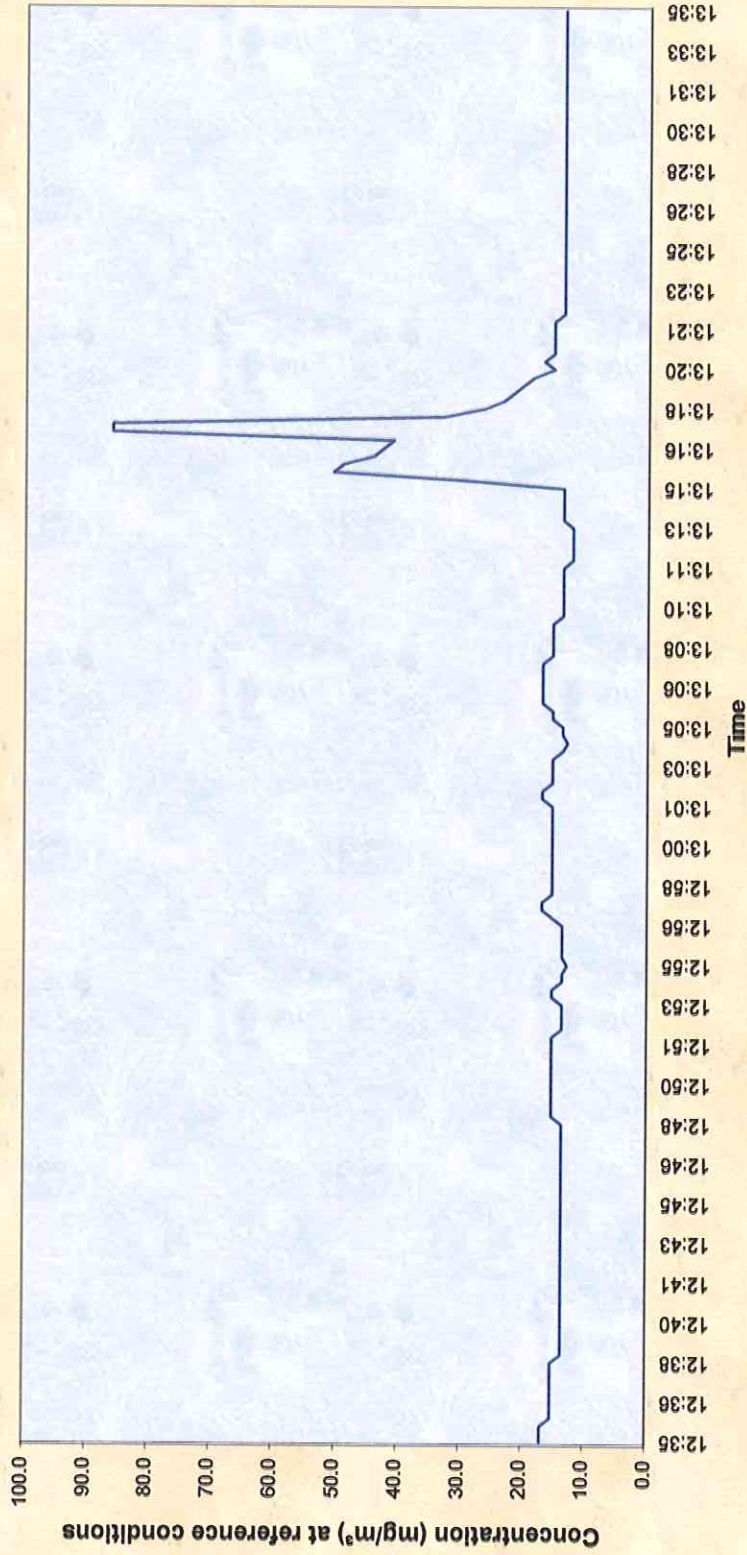
<b>Client</b>	Terex Compact Equipment					
<b>Site Address</b>	Prologis Park, Coventry					
<b>Job Number</b>	P-RED05-112/EB/R1/Rev0					
<b>Date</b>	14/12/2005	<b>Port Depth (cm)</b>				
<b>Operator(s)</b>	Elena Berek & Tony Berek					
<b>Isokinetic Sampling Information</b>						
<b>Stack Reference</b>	Paint Kitchen	<b>Isokinetic Sampling Method</b>				BS EN 13284
<b>Number of Stacks</b>	1	<b>Samples per Axis</b>				2
<b>Configuration (Round / Rectangular)</b>	Round	<b>Stack Area (m2)</b>				0.196
<b>Dimensions (mtrs)</b>	0.5	<b>Isokinetic Sample Points (cms)</b>				
<b>Outlet Diameter (if applicable) (mtrs/sec)</b>		1	7.30	5	N/A	
<b>Number of Sample Ports</b>	2	2	42.70	6	N/A	
<b>Number of Samples per Axis / Port</b>	2	3	N/A	7	N/A	
<b>Nozzle Diameter (mm)</b>	6.0	4	N/A	8	N/A	
<b>Nozzle Area (mm<sup>2</sup>)</b>	28.278	<b>Average Isokinetic Flow Rate (ltrs/min)</b>		1 Axis	2 Axis	
				11.78	11.16	
<b>Duct Survey</b>						
<b>Pitot Coefficient</b>	0.82	<b>Pitot Calibration Date</b>		11/11/06		<b>Atmos. Pressure (mbars)</b>
<b>Position No.</b>	<b>Distance (cms)</b>	<b>Axis 1 (cm H2O)</b>	<b>Temperature (C)</b>	<b>Axis 2 (cm H2O)</b>	<b>Temperature (C)</b>	1024
1	3.3	0.19	24.0	0.22	24.0	Static Pressure (cm H2O)
2	7.5	0.29	24.0	0.28	24.0	0.44
3	12.5	0.38	24.0	0.32	24.0	1 Axis
4	17.5	0.42	24.0	0.35	24.0	2 Axis
5	22.5	0.54	24.0	0.41	24.0	Average Velocity Flow (m/s)
6	27.5	0.4	24.0	0.48	24.0	6.76
7	32.5	0.39	24.0	0.54	24.0	Average Volume Flow (Nm <sup>3</sup> /s)
8	37.5	0.62	24.0	0.41	24.0	1.33
9	42.5	0.67	24.0	0.46	24.0	Volume (m <sup>3</sup> /s)
10	47.5	0.49	24.0	0.38	24.0	1.36
<b>Averages</b>		0.43	24.0	0.39	24.0	1.29
						Velocity of flow (m/s)
						6.94
						6.58
						Reduced Exit Velocity (m/s)
						N/A
						N/A
<b>Mean Flue Gas Temp (in K) <math>T_p = ((\text{Mean } T_1 + \text{Mean } T_2)/2) + 273</math> =</b>						
297.00						
<b>Permitted Range of gas temperature readings (C) = <math>(0.95T_p - 273)</math> to <math>(1.05T_p - 273)</math> =</b>						
9.15 to 38.85						
<b>Highest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.6						
<b>Lowest Pitot Static Reading (either sampling line) (cm H2O) =</b>						
0.2						
<b>Ratio Highest/Lowest (Max permitted = 9:1)</b>						
3.26 : 1						
<b>On site Checklist</b>						
Manometer Leak Check	ok			<b>Instrument</b>	<b>Serial No:</b>	
Range of Gas Temps	ok			Manometer	RED 0132	
Leak Check (l/min)	<0.1			Temp Indicator	RED 0133	
Leak Check 2% Vol (l/min)	0.24			Thermocouple	RED 0133	
Swirl Test (<15°)	ok			Pitot Tube	RED 0156	
				Sample Pump	High Flow Pump	

# APPENDIX B

## VOC Charts



**Primer Spray Booth 1 - VOC Monitoring (13/12/05)**

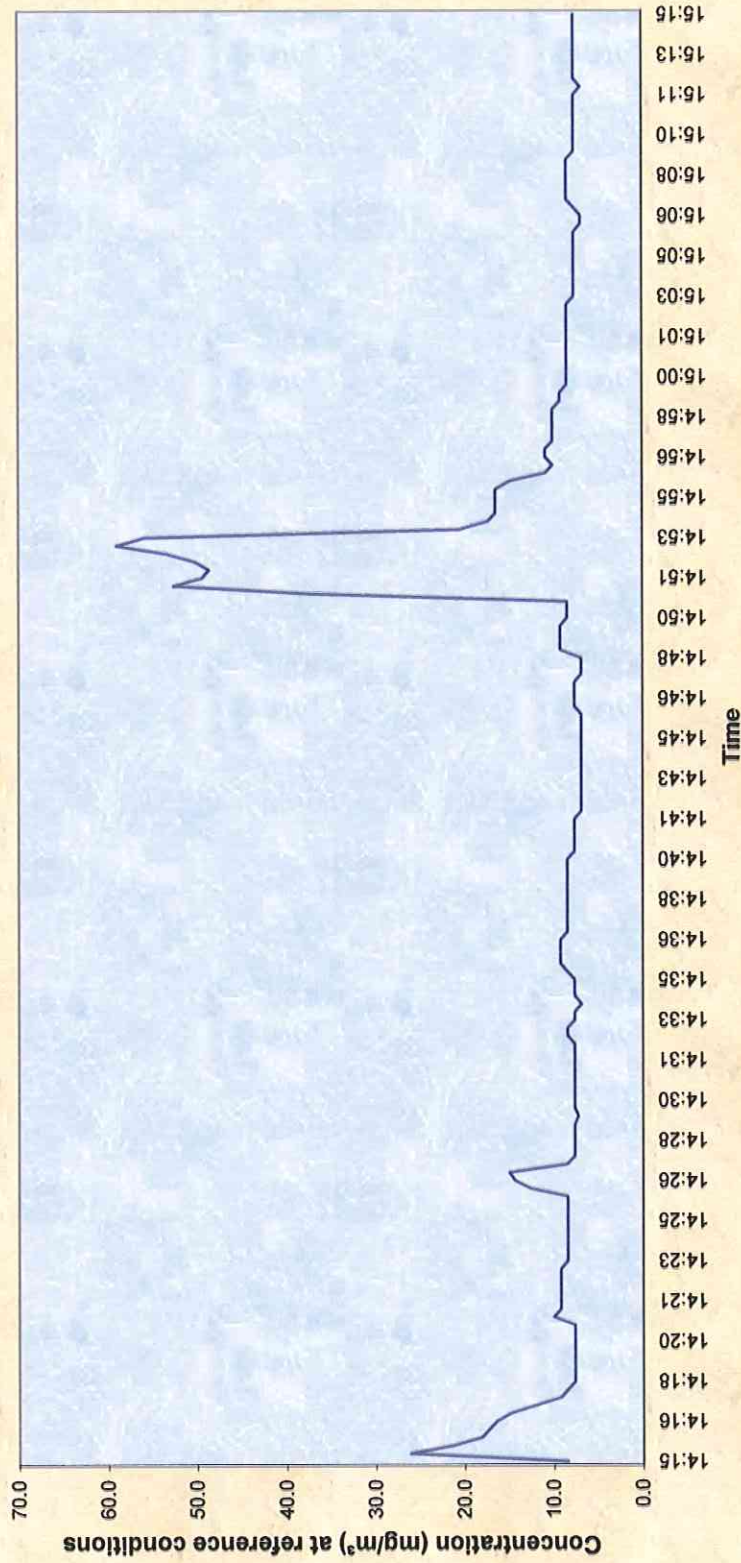


Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
12:35	to 13:05	10.50	10.50	16.88	16.88
13:05	to 13:35	11.35	53.50	18.23	85.98



Primer Spray Booth 1					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
13-Dec-05	12:35:15	16.88	13-Dec-05	13:24:15	13.66
13-Dec-05	12:36:15	15.27	13-Dec-05	13:25:15	13.66
13-Dec-05	12:37:15	15.27	13-Dec-05	13:26:15	13.66
13-Dec-05	12:38:15	15.27	13-Dec-05	13:27:15	13.66
13-Dec-05	12:39:15	13.66	13-Dec-05	13:28:15	13.66
13-Dec-05	12:40:15	13.66	13-Dec-05	13:29:15	13.66
13-Dec-05	12:41:15	13.66	13-Dec-05	13:30:15	13.66
13-Dec-05	12:42:15	13.66	13-Dec-05	13:31:15	13.66
13-Dec-05	12:43:15	13.66	13-Dec-05	13:32:15	13.66
13-Dec-05	12:44:15	13.66	13-Dec-05	13:33:15	13.66
13-Dec-05	12:45:15	13.66	13-Dec-05	13:34:15	13.66
13-Dec-05	12:46:15	13.66	13-Dec-05	13:35:15	13.66
13-Dec-05	12:47:15	13.66			
13-Dec-05	12:48:15	13.66			
13-Dec-05	12:49:15	15.27	Average		16.41
13-Dec-05	12:50:15	15.27			
13-Dec-05	12:51:15	15.27			
13-Dec-05	12:52:15	15.27			
13-Dec-05	12:53:15	13.66			
13-Dec-05	12:54:15	15.27			
13-Dec-05	12:55:15	12.86			
13-Dec-05	12:56:15	13.66			
13-Dec-05	12:57:15	15.27			
13-Dec-05	12:58:15	15.27			
13-Dec-05	12:59:15	15.27			
13-Dec-05	13:00:15	15.27			
13-Dec-05	13:01:15	15.27			
13-Dec-05	13:02:15	16.88			
13-Dec-05	13:03:15	15.27			
13-Dec-05	13:04:15	13.66			
13-Dec-05	13:05:15	13.66			
13-Dec-05	13:06:15	16.88			
13-Dec-05	13:07:15	16.88			
13-Dec-05	13:08:15	15.27			
13-Dec-05	13:09:15	15.27			
13-Dec-05	13:10:15	13.66			
13-Dec-05	13:11:15	13.66			
13-Dec-05	13:12:15	12.05			
13-Dec-05	13:13:15	12.05			
13-Dec-05	13:14:15	13.66			
13-Dec-05	13:15:15	13.66			
13-Dec-05	13:16:15	49.02			
13-Dec-05	13:17:15	40.98			
13-Dec-05	13:18:15	32.95			
13-Dec-05	13:19:15	21.70			
13-Dec-05	13:20:15	15.27			
13-Dec-05	13:21:15	15.27			
13-Dec-05	13:22:15	15.27			
13-Dec-05	13:23:15	13.66			

**Primer Spray Booth 2 - VOC Monitoring (13/12/05)**

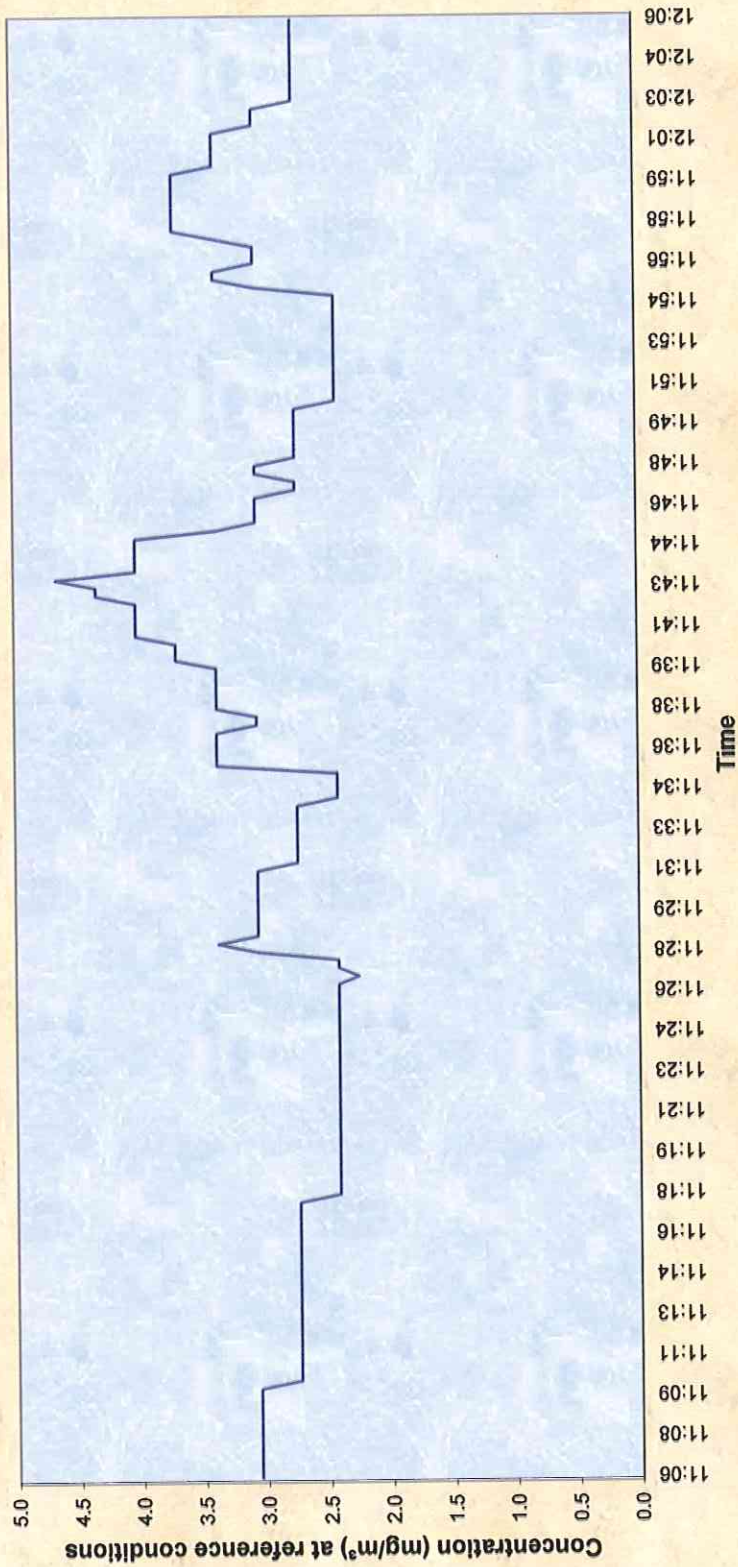


Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
14:15	to 14:45	5.25	16.25	8.44	26.12
14:45	to 15:15	7.84	36.75	12.61	59.06

Primer Spray Booth 2					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
13-Dec-05	14:15:12	8.44	13-Dec-05	15:04:12	7.63
13-Dec-05	14:16:12	18.08	13-Dec-05	15:05:12	7.63
13-Dec-05	14:17:12	14.87	13-Dec-05	15:06:12	7.63
13-Dec-05	14:18:12	8.44	13-Dec-05	15:07:12	7.63
13-Dec-05	14:19:12	7.63	13-Dec-05	15:08:12	8.44
13-Dec-05	14:20:12	7.63	13-Dec-05	15:09:12	8.44
13-Dec-05	14:21:12	10.04	13-Dec-05	15:10:12	7.63
13-Dec-05	14:22:12	9.24	13-Dec-05	15:11:12	7.63
13-Dec-05	14:23:12	9.24	13-Dec-05	15:12:12	6.83
13-Dec-05	14:24:12	8.44	13-Dec-05	15:13:12	7.63
13-Dec-05	14:25:12	8.44	13-Dec-05	15:14:12	7.63
13-Dec-05	14:26:12	8.44	13-Dec-05	15:15:12	7.63
13-Dec-05	14:27:12	14.99			
13-Dec-05	14:28:12	7.63			
13-Dec-05	14:29:12	7.63	Average		10.82
13-Dec-05	14:30:12	7.63			
13-Dec-05	14:31:12	7.63			
13-Dec-05	14:32:12	7.63			
13-Dec-05	14:33:12	8.44			
13-Dec-05	14:34:12	6.83			
13-Dec-05	14:35:12	7.63			
13-Dec-05	14:36:12	9.24			
13-Dec-05	14:37:12	8.44			
13-Dec-05	14:38:12	8.44			
13-Dec-05	14:39:12	8.44			
13-Dec-05	14:40:12	8.44			
13-Dec-05	14:41:12	7.63			
13-Dec-05	14:42:12	6.83			
13-Dec-05	14:43:12	6.83			
13-Dec-05	14:44:12	6.83			
13-Dec-05	14:45:12	6.83			
13-Dec-05	14:46:12	6.83			
13-Dec-05	14:47:12	7.63			
13-Dec-05	14:48:12	6.83			
13-Dec-05	14:49:12	9.24			
13-Dec-05	14:50:12	8.44			
13-Dec-05	14:51:12	37.37			
13-Dec-05	14:52:12	48.62			
13-Dec-05	14:53:12	59.06			
13-Dec-05	14:54:12	17.28			
13-Dec-05	14:55:12	16.47			
13-Dec-05	14:56:12	10.85			
13-Dec-05	14:57:12	10.85			
13-Dec-05	14:58:12	10.04			
13-Dec-05	14:59:12	9.24			
13-Dec-05	15:00:12	8.44			
13-Dec-05	15:01:12	8.44			
13-Dec-05	15:02:12	8.44			
13-Dec-05	15:03:12	8.44			



Primer Flash-off - VOC Monitoring (13/12/05)

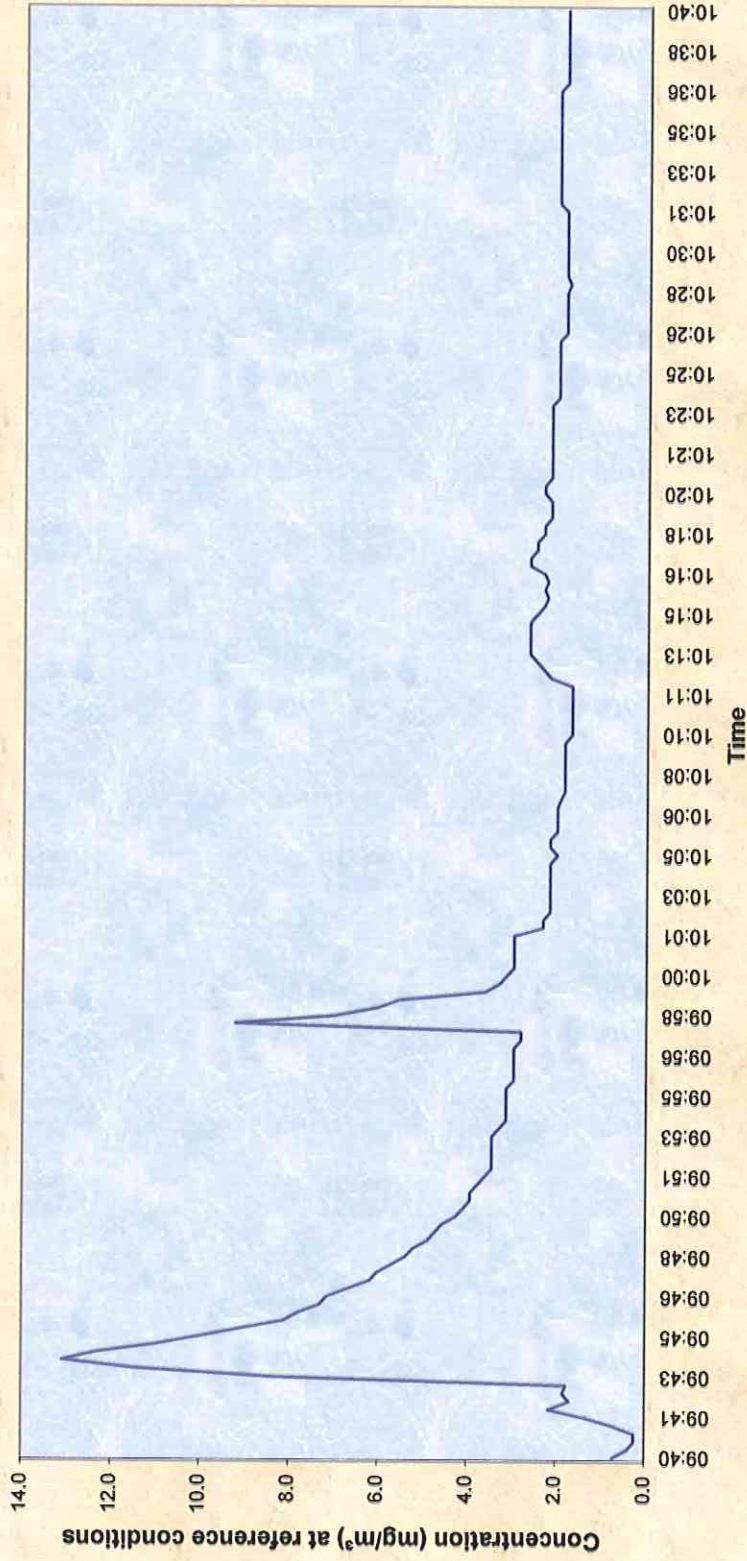


Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)		
		Mean	Max	Min	Mean	Max
11:06	to 11:36	1.90	2.10	1.40	3.38	2.25
11:36	to 12:06	1.98	2.90	1.50	4.66	2.41



Primer Flash-off					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
13-Dec-05	11:06:32	3.05	13-Dec-05	11:55:32	3.05
13-Dec-05	11:07:32	3.05	13-Dec-05	11:56:32	3.05
13-Dec-05	11:08:32	3.05	13-Dec-05	11:57:32	3.38
13-Dec-05	11:09:32	3.05	13-Dec-05	11:58:32	3.70
13-Dec-05	11:10:32	2.73	13-Dec-05	11:59:32	3.70
13-Dec-05	11:11:32	2.73	13-Dec-05	12:00:32	3.38
13-Dec-05	11:12:32	2.73	13-Dec-05	12:01:32	3.38
13-Dec-05	11:13:32	2.73	13-Dec-05	12:02:32	3.05
13-Dec-05	11:14:32	2.73	13-Dec-05	12:03:32	2.73
13-Dec-05	11:15:32	2.73	13-Dec-05	12:04:32	2.73
13-Dec-05	11:16:32	2.73	13-Dec-05	12:05:32	2.73
13-Dec-05	11:17:32	2.73	13-Dec-05	12:06:32	2.73
13-Dec-05	11:18:32	2.41			
13-Dec-05	11:19:32	2.41			
13-Dec-05	11:20:32	2.41	Average		2.94
13-Dec-05	11:21:32	2.41			
13-Dec-05	11:22:32	2.41			
13-Dec-05	11:23:32	2.41			
13-Dec-05	11:24:32	2.41			
13-Dec-05	11:25:32	2.41			
13-Dec-05	11:26:32	2.41			
13-Dec-05	11:27:32	2.41			
13-Dec-05	11:28:32	3.38			
13-Dec-05	11:29:32	3.05			
13-Dec-05	11:30:32	3.05			
13-Dec-05	11:31:32	3.05			
13-Dec-05	11:32:32	2.73			
13-Dec-05	11:33:32	2.73			
13-Dec-05	11:34:32	2.41			
13-Dec-05	11:35:32	2.41			
13-Dec-05	11:36:32	3.38			
13-Dec-05	11:37:32	3.05			
13-Dec-05	11:38:32	3.38			
13-Dec-05	11:39:32	3.38			
13-Dec-05	11:40:32	3.70			
13-Dec-05	11:41:32	4.02			
13-Dec-05	11:42:32	4.02			
13-Dec-05	11:43:32	4.66			
13-Dec-05	11:44:32	4.02			
13-Dec-05	11:45:32	3.38			
13-Dec-05	11:46:32	3.05			
13-Dec-05	11:47:32	2.73			
13-Dec-05	11:48:32	2.73			
13-Dec-05	11:49:32	2.73			
13-Dec-05	11:50:32	2.73			
13-Dec-05	11:51:32	2.41			
13-Dec-05	11:52:32	2.41			
13-Dec-05	11:53:32	2.41			
13-Dec-05	11:54:32	2.41			

**Top Coat Spray Booth 1 - VOC Monitoring (14/12/05)**

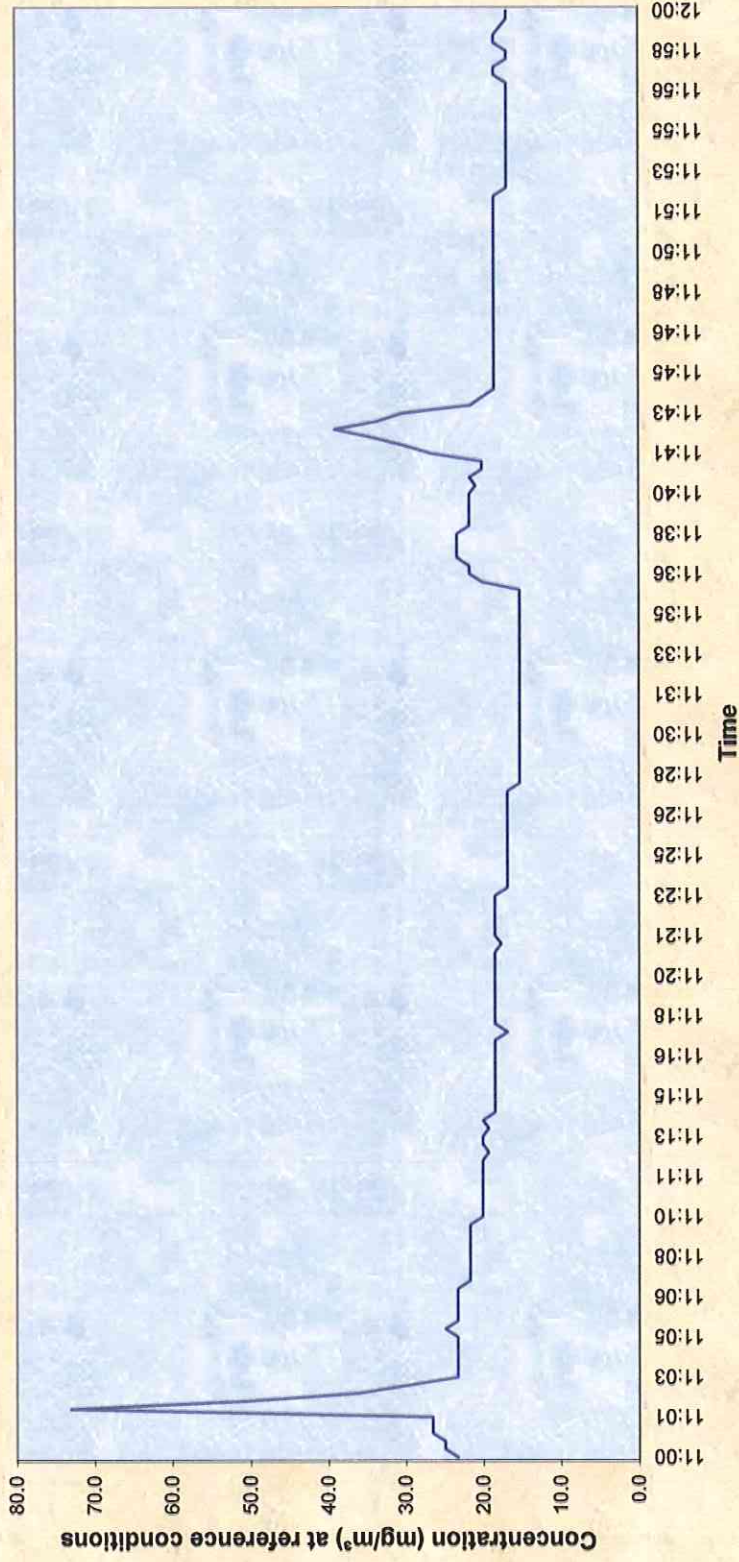


Average Run Time		Volatile Organic Compound (ppm)			Volatile Organic Compound (mg/m³)		
		Mean	Max	Min	Mean	Max	Min
9:40	to 10:10	2.39	8.15	0.15	3.85	13.10	0.24
10:10	to 10:40	1.29	1.65	1.05	2.07	2.65	1.69

TopCoat Spray Booth 1					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
13-Dec-05	09:40:12	0.72	13-Dec-05	10:29:12	1.85
13-Dec-05	09:41:12	0.24	13-Dec-05	10:30:12	1.85
13-Dec-05	09:42:12	2.17	13-Dec-05	10:31:12	1.85
13-Dec-05	09:43:12	1.77	13-Dec-05	10:32:12	2.01
13-Dec-05	09:44:12	13.10	13-Dec-05	10:33:12	2.01
13-Dec-05	09:45:12	10.04	13-Dec-05	10:34:12	2.01
13-Dec-05	09:46:12	7.79	13-Dec-05	10:35:12	2.01
13-Dec-05	09:47:12	6.67	13-Dec-05	10:36:12	2.01
13-Dec-05	09:48:12	5.71	13-Dec-05	10:37:12	1.85
13-Dec-05	09:49:12	4.90	13-Dec-05	10:38:12	1.85
13-Dec-05	09:50:12	4.26	13-Dec-05	10:39:12	1.85
13-Dec-05	09:51:12	3.94	13-Dec-05	10:40:12	1.85
13-Dec-05	09:52:12	3.46			
13-Dec-05	09:53:12	3.46			
13-Dec-05	09:54:12	3.13	Average		2.96
13-Dec-05	09:55:12	3.13			
13-Dec-05	09:56:12	2.97			
13-Dec-05	09:57:12	2.97			
13-Dec-05	09:58:12	9.24			
13-Dec-05	09:59:12	5.54			
13-Dec-05	10:00:12	3.13			
13-Dec-05	10:01:12	2.97			
13-Dec-05	10:02:12	2.33			
13-Dec-05	10:03:12	2.17			
13-Dec-05	10:04:12	2.17			
13-Dec-05	10:05:12	2.01			
13-Dec-05	10:06:12	2.01			
13-Dec-05	10:07:12	2.01			
13-Dec-05	10:08:12	1.85			
13-Dec-05	10:09:12	1.85			
13-Dec-05	10:10:12	1.69			
13-Dec-05	10:11:12	1.69			
13-Dec-05	10:12:12	1.69			
13-Dec-05	10:13:12	2.49			
13-Dec-05	10:14:12	2.65			
13-Dec-05	10:15:12	2.49			
13-Dec-05	10:16:12	2.33			
13-Dec-05	10:17:12	2.65			
13-Dec-05	10:18:12	2.49			
13-Dec-05	10:19:12	2.17			
13-Dec-05	10:20:12	2.33			
13-Dec-05	10:21:12	2.17			
13-Dec-05	10:22:12	2.17			
13-Dec-05	10:23:12	2.17			
13-Dec-05	10:24:12	2.01			
13-Dec-05	10:25:12	2.01			
13-Dec-05	10:26:12	2.01			
13-Dec-05	10:27:12	1.85			
13-Dec-05	10:28:12	1.85			

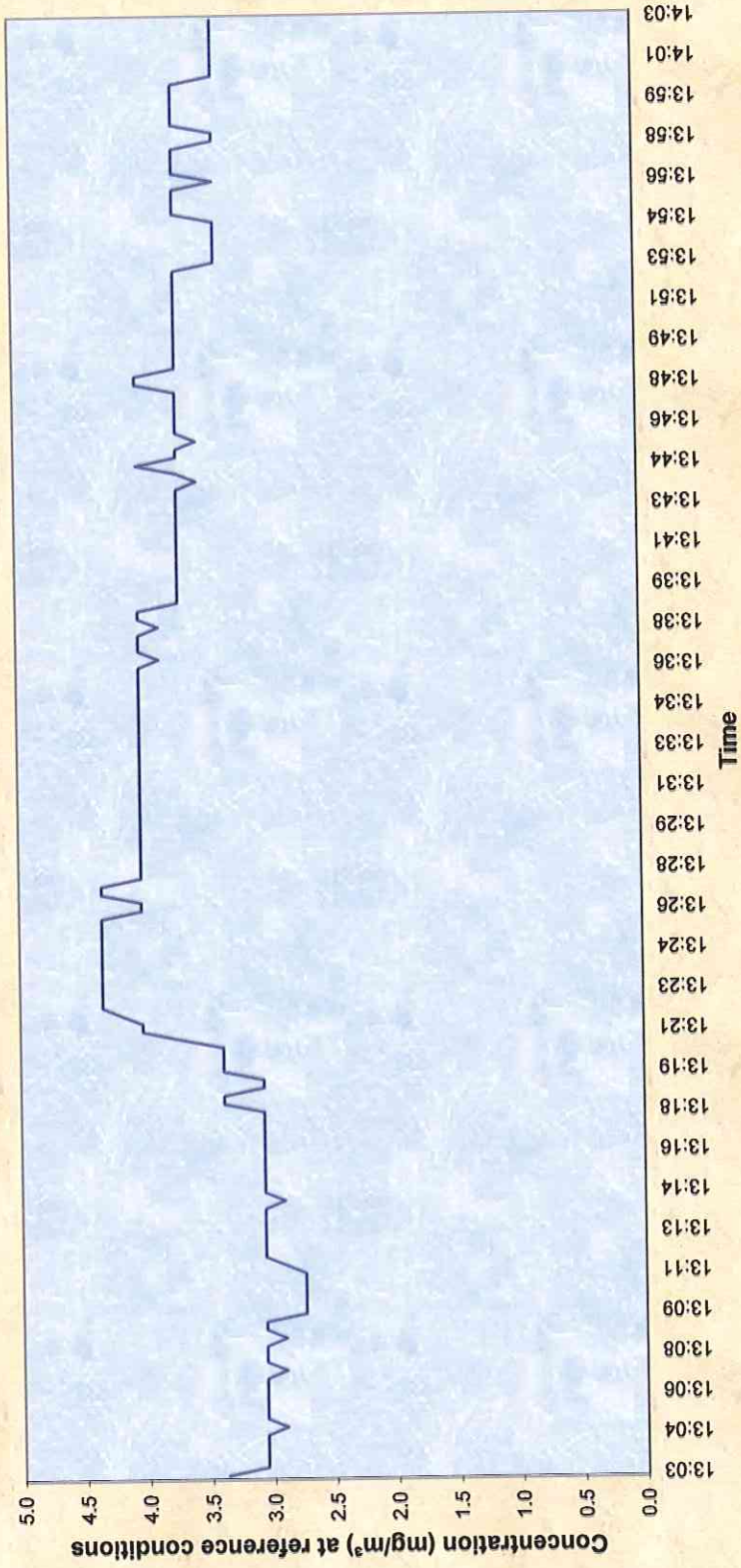


Top Coat Spray Booth 2 - VOC Monitoring (14/12/05)



Average Run Time		Volatile Organic Compound (ppm)			Volatile Organic Compound (mg/m³)		
		Mean	Max	Min	Mean	Max	Min
11:00	to 11:30	12.98	45.50	9.50	20.86	73.13	15.27
11:30	to 12:00	11.83	24.30	9.50	19.02	39.05	15.27

Top Coat Flash-Off - VOC Monitoring (14/12/05)



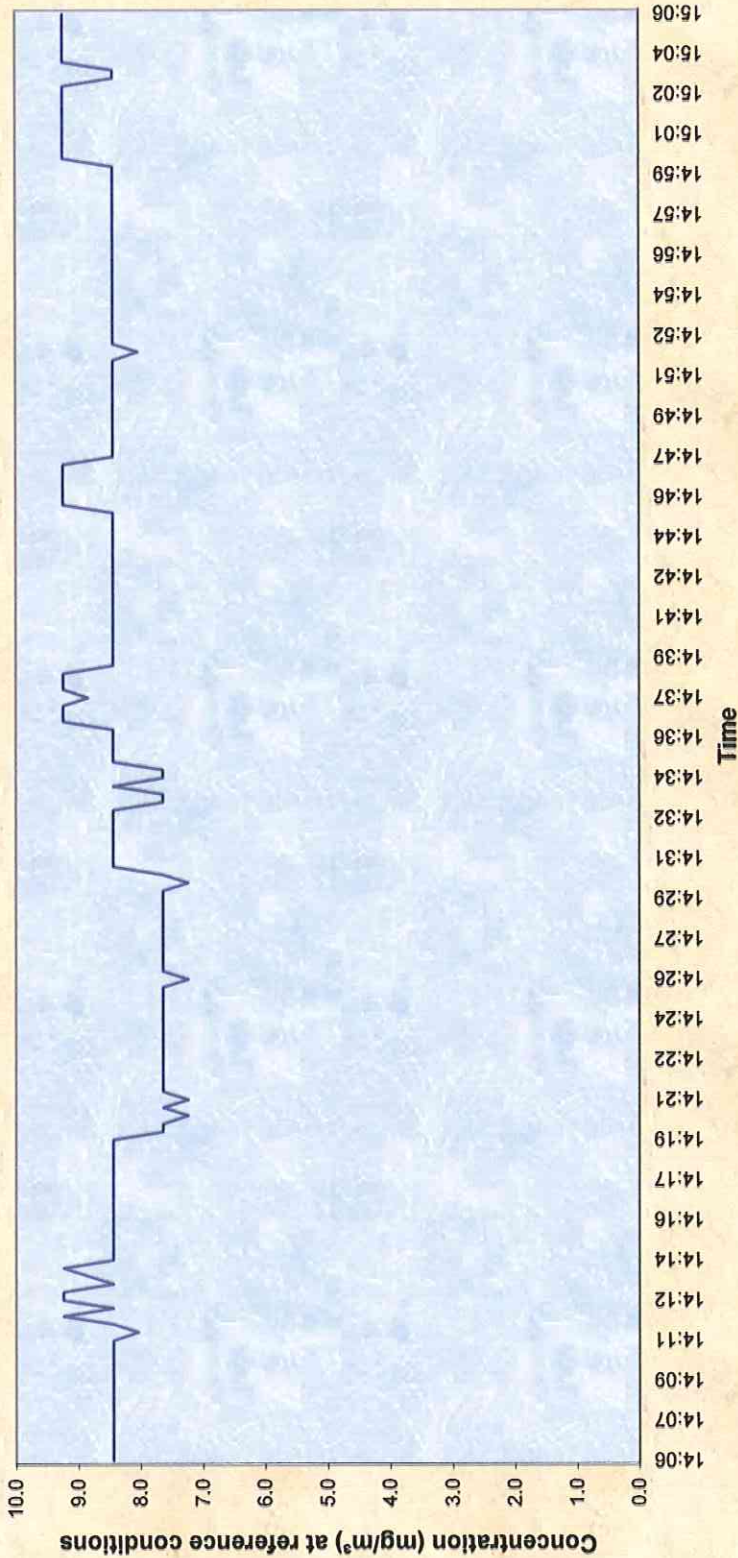
Average Run Time		Volatile Organic Compound (ppm)			Volatile Organic Compound (mg/m³)		
		Mean	Max	Min	Mean	Max	Min
13:03	to 13:33	2.17	2.70	1.70	3.49	4.34	2.73
13:33	to 14:03	2.30	2.50	2.10	3.70	4.02	3.38







**Top Coat Curing Oven - VOC Monitoring (14/12/05)**

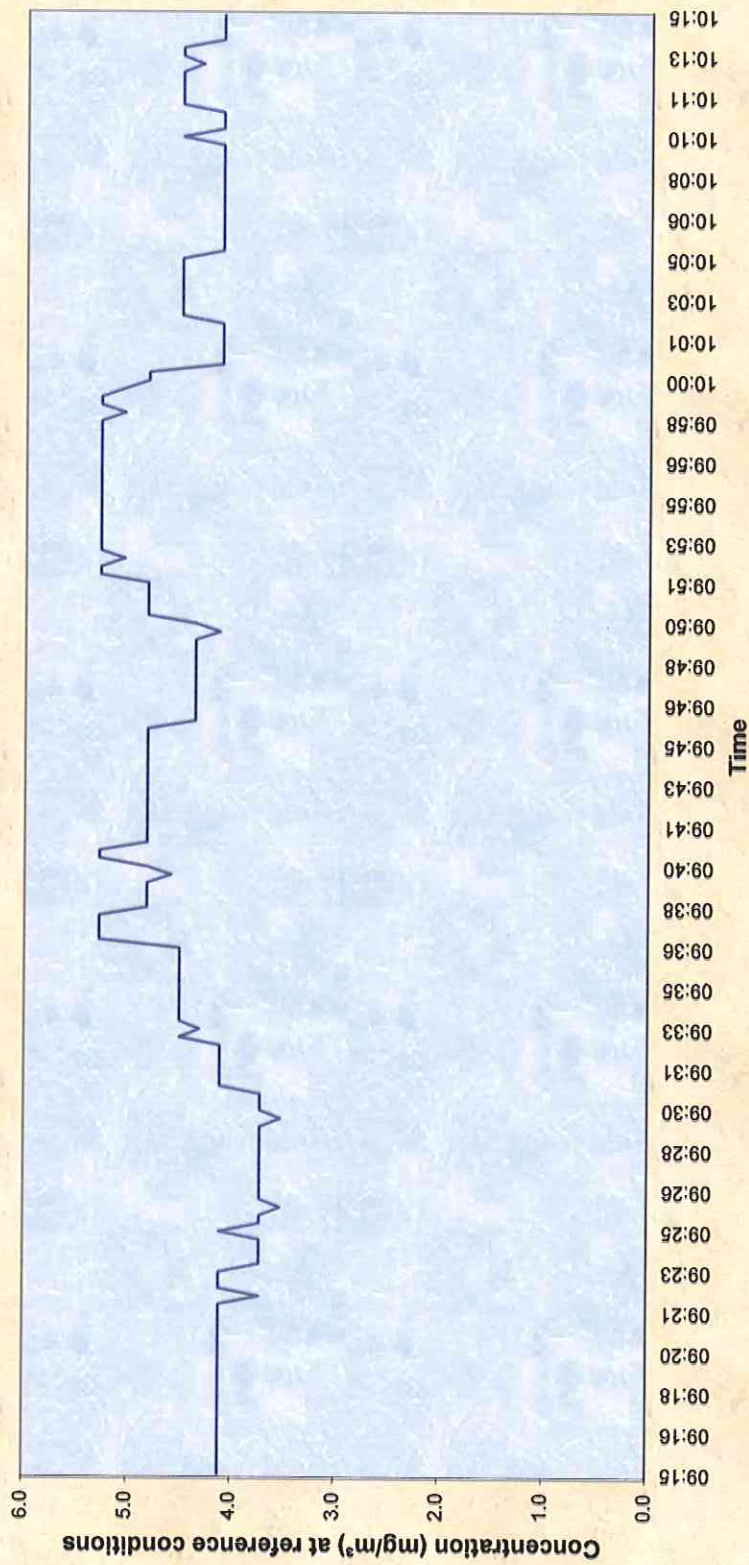


Average Run Time		Volatile Organic Compound (ppm)			Volatile Organic Compound (mg/m³)		
		Mean	Max	Min	Mean	Max	Min
14:06	to 14:36	5.06	5.75	4.50	8.13	9.24	7.23
14:36	to 15:06	5.41	5.75	5.00	8.69	9.24	8.04

TopCoat Curing Oven					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
14-Dec-05	14:06:10	8.44	14-Dec-05	14:55:10	8.44
14-Dec-05	14:07:10	8.44	14-Dec-05	14:56:10	8.44
14-Dec-05	14:08:10	8.44	14-Dec-05	14:57:10	8.44
14-Dec-05	14:09:10	8.44	14-Dec-05	14:58:10	8.44
14-Dec-05	14:10:10	8.44	14-Dec-05	14:59:10	8.44
14-Dec-05	14:11:10	8.44	14-Dec-05	15:00:10	9.24
14-Dec-05	14:12:10	9.24	14-Dec-05	15:01:10	9.24
14-Dec-05	14:13:10	9.24	14-Dec-05	15:02:10	9.24
14-Dec-05	14:14:10	9.24	14-Dec-05	15:03:10	9.24
14-Dec-05	14:15:10	8.44	14-Dec-05	15:04:10	9.24
14-Dec-05	14:16:10	8.44	14-Dec-05	15:05:10	9.24
14-Dec-05	14:17:10	8.44	14-Dec-05	15:06:10	9.24
14-Dec-05	14:18:10	8.44			
14-Dec-05	14:19:10	8.44			
14-Dec-05	14:20:10	7.63	Average		8.41
14-Dec-05	14:21:10	7.23			
14-Dec-05	14:22:10	7.63			
14-Dec-05	14:23:10	7.63			
14-Dec-05	14:24:10	7.63			
14-Dec-05	14:25:10	7.63			
14-Dec-05	14:26:10	7.23			
14-Dec-05	14:27:10	7.63			
14-Dec-05	14:28:10	7.63			
14-Dec-05	14:29:10	7.63			
14-Dec-05	14:30:10	7.23			
14-Dec-05	14:31:10	8.44			
14-Dec-05	14:32:10	8.44			
14-Dec-05	14:33:10	8.44			
14-Dec-05	14:34:10	8.44			
14-Dec-05	14:35:10	8.44			
14-Dec-05	14:36:10	8.44			
14-Dec-05	14:37:10	9.24			
14-Dec-05	14:38:10	9.24			
14-Dec-05	14:39:10	8.44			
14-Dec-05	14:40:10	8.44			
14-Dec-05	14:41:10	8.44			
14-Dec-05	14:42:10	8.44			
14-Dec-05	14:43:10	8.44			
14-Dec-05	14:44:10	8.44			
14-Dec-05	14:45:10	8.44			
14-Dec-05	14:46:10	9.24			
14-Dec-05	14:47:10	9.24			
14-Dec-05	14:48:10	8.44			
14-Dec-05	14:49:10	8.44			
14-Dec-05	14:50:10	8.44			
14-Dec-05	14:51:10	8.44			
14-Dec-05	14:52:10	8.04			
14-Dec-05	14:53:10	8.44			
14-Dec-05	14:54:10	8.44			



Paint Kitchen - VOC Monitoring (15/12/05)

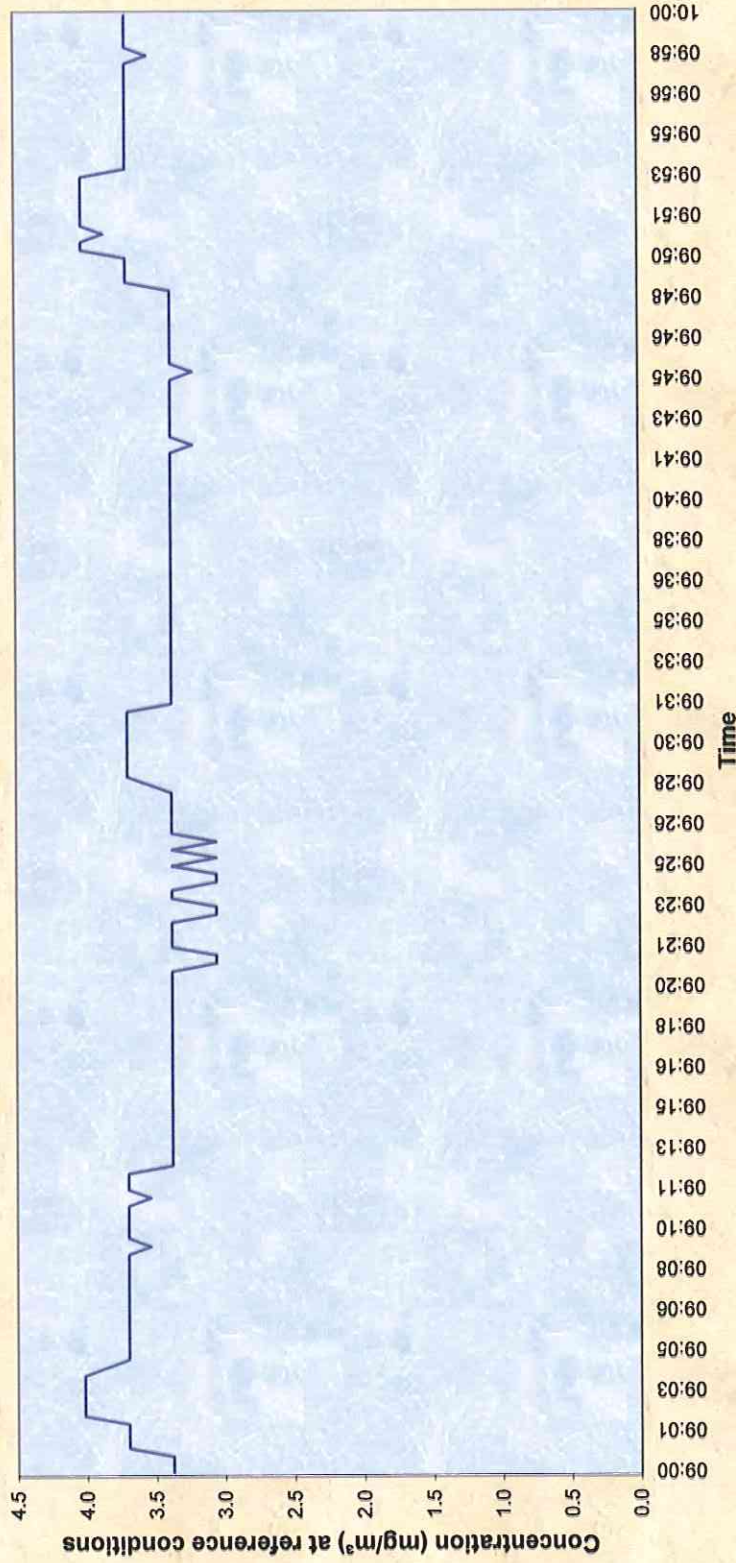


Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m <sup>3</sup> )	
		Mean	Min	Max	Min
9:15	to 9:45	2.67	2.20	3.29	5.28
9:45	to 10:15	2.86	2.56	3.29	5.28
					4.12



Paint Kitchen					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
15-Dec-05	09:15:11	4.12	15-Dec-05	10:04:11	4.51
15-Dec-05	09:16:11	4.12	15-Dec-05	10:05:11	4.51
15-Dec-05	09:17:11	4.12	15-Dec-05	10:06:11	4.12
15-Dec-05	09:18:11	4.12	15-Dec-05	10:07:11	4.12
15-Dec-05	09:19:11	4.12	15-Dec-05	10:08:11	4.12
15-Dec-05	09:20:11	4.12	15-Dec-05	10:09:11	4.12
15-Dec-05	09:21:11	4.12	15-Dec-05	10:10:11	4.51
15-Dec-05	09:22:11	4.12	15-Dec-05	10:11:11	4.12
15-Dec-05	09:23:11	4.12	15-Dec-05	10:12:11	4.51
15-Dec-05	09:24:11	3.72	15-Dec-05	10:13:11	4.31
15-Dec-05	09:25:11	4.12	15-Dec-05	10:14:11	4.12
15-Dec-05	09:26:11	3.53	15-Dec-05	10:15:11	4.12
15-Dec-05	09:27:11	3.72			
15-Dec-05	09:28:11	3.72			
15-Dec-05	09:29:11	3.72			
15-Dec-05	09:30:11	3.72			
15-Dec-05	09:31:11	4.12			
15-Dec-05	09:32:11	4.12			
15-Dec-05	09:33:11	4.51			
15-Dec-05	09:34:11	4.51			
15-Dec-05	09:35:11	4.51			
15-Dec-05	09:36:11	4.51			
15-Dec-05	09:37:11	5.28			
15-Dec-05	09:38:11	5.28			
15-Dec-05	09:39:11	4.82			
15-Dec-05	09:40:11	4.82			
15-Dec-05	09:41:11	4.82			
15-Dec-05	09:42:11	4.82			
15-Dec-05	09:43:11	4.82			
15-Dec-05	09:44:11	4.82			
15-Dec-05	09:45:11	4.82			
15-Dec-05	09:46:11	4.36			
15-Dec-05	09:47:11	4.36			
15-Dec-05	09:48:11	4.36			
15-Dec-05	09:49:11	4.36			
15-Dec-05	09:50:11	4.36			
15-Dec-05	09:51:11	4.82			
15-Dec-05	09:52:11	5.28			
15-Dec-05	09:53:11	5.28			
15-Dec-05	09:54:11	5.28			
15-Dec-05	09:55:11	5.28			
15-Dec-05	09:56:11	5.28			
15-Dec-05	09:57:11	5.28			
15-Dec-05	09:58:11	5.28			
15-Dec-05	09:59:11	5.28			
15-Dec-05	10:00:11	4.82			
15-Dec-05	10:01:11	4.12			
15-Dec-05	10:02:11	4.12			
15-Dec-05	10:03:11	4.51			
			Average		4.44

Spray Bake Booth 1 - VOC Monitoring (15/12/05)

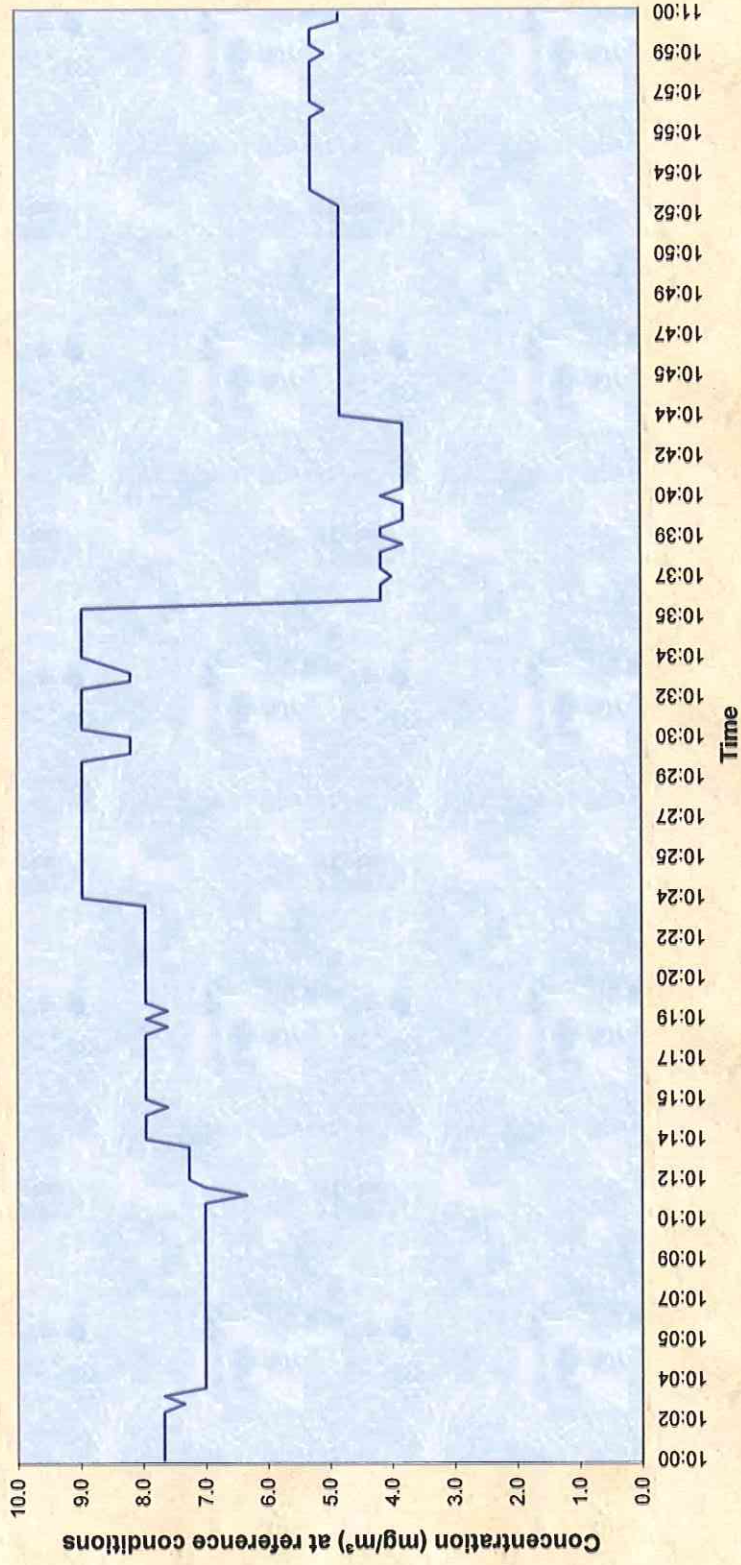


Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
9:00	to 9:30	2.18	2.50	3.51	4.02
9:30	to 10:00	2.20	2.50	3.54	4.02

Spray Bake Booth 1					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
15-Dec-05	09:00:12	3.38	15-Dec-05	09:49:12	3.70
15-Dec-05	09:01:12	3.70	15-Dec-05	09:50:12	3.70
15-Dec-05	09:02:12	3.70	15-Dec-05	09:51:12	3.86
15-Dec-05	09:03:12	4.02	15-Dec-05	09:52:12	4.02
15-Dec-05	09:04:12	4.02	15-Dec-05	09:53:12	4.02
15-Dec-05	09:05:12	3.70	15-Dec-05	09:54:12	3.70
15-Dec-05	09:06:12	3.70	15-Dec-05	09:55:12	3.70
15-Dec-05	09:07:12	3.70	15-Dec-05	09:56:12	3.70
15-Dec-05	09:08:12	3.70	15-Dec-05	09:57:12	3.70
15-Dec-05	09:09:12	3.70	15-Dec-05	09:58:12	3.70
15-Dec-05	09:10:12	3.70	15-Dec-05	09:59:12	3.70
15-Dec-05	09:11:12	3.70	15-Dec-05	10:00:12	3.70
15-Dec-05	09:12:12	3.70			
15-Dec-05	09:13:12	3.38			
15-Dec-05	09:14:12	3.38			
15-Dec-05	09:15:12	3.38			
15-Dec-05	09:16:12	3.38			
15-Dec-05	09:17:12	3.38			
15-Dec-05	09:18:12	3.38			
15-Dec-05	09:19:12	3.38			
15-Dec-05	09:20:12	3.38			
15-Dec-05	09:21:12	3.05			
15-Dec-05	09:22:12	3.38			
15-Dec-05	09:23:12	3.05			
15-Dec-05	09:24:12	3.38			
15-Dec-05	09:25:12	3.38			
15-Dec-05	09:26:12	3.05			
15-Dec-05	09:27:12	3.38			
15-Dec-05	09:28:12	3.38			
15-Dec-05	09:29:12	3.70			
15-Dec-05	09:30:12	3.70			
15-Dec-05	09:31:12	3.70			
15-Dec-05	09:32:12	3.38			
15-Dec-05	09:33:12	3.38			
15-Dec-05	09:34:12	3.38			
15-Dec-05	09:35:12	3.38			
15-Dec-05	09:36:12	3.38			
15-Dec-05	09:37:12	3.38			
15-Dec-05	09:38:12	3.38			
15-Dec-05	09:39:12	3.38			
15-Dec-05	09:40:12	3.38			
15-Dec-05	09:41:12	3.38			
15-Dec-05	09:42:12	3.38			
15-Dec-05	09:43:12	3.38			
15-Dec-05	09:44:12	3.38			
15-Dec-05	09:45:12	3.38			
15-Dec-05	09:46:12	3.38			
15-Dec-05	09:47:12	3.38			
15-Dec-05	09:48:12	3.38			
			Average		3.52



Spray Bake Booth 2 - VOC Monitoring (15/12/05)



Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
10:00	to 10:30	4.85	5.58	7.80	8.96
10:30	to 11:00	3.39	5.58	5.44	8.96

Spray Bake Booth 2					
Date	Time	VOC mg/m <sup>3</sup>	Date	Time	VOC mg/m <sup>3</sup>
15-Dec-05	10:00:45	7.67	15-Dec-05	10:49:45	4.81
15-Dec-05	10:01:45	7.67	15-Dec-05	10:50:45	4.81
15-Dec-05	10:02:45	7.67	15-Dec-05	10:51:45	4.81
15-Dec-05	10:03:45	7.00	15-Dec-05	10:52:45	4.81
15-Dec-05	10:04:45	7.00	15-Dec-05	10:53:45	5.27
15-Dec-05	10:05:45	7.00	15-Dec-05	10:54:45	5.27
15-Dec-05	10:06:45	7.00	15-Dec-05	10:55:45	5.27
15-Dec-05	10:07:45	7.00	15-Dec-05	10:56:45	5.04
15-Dec-05	10:08:45	7.00	15-Dec-05	10:57:45	5.27
15-Dec-05	10:09:45	7.00	15-Dec-05	10:58:45	5.27
15-Dec-05	10:10:45	7.00	15-Dec-05	10:59:45	5.27
15-Dec-05	10:11:45	6.34	15-Dec-05	11:00:45	4.81
15-Dec-05	10:12:45	7.26			
15-Dec-05	10:13:45	7.26			
15-Dec-05	10:14:45	7.95			
15-Dec-05	10:15:45	7.95			
15-Dec-05	10:16:45	7.95			
15-Dec-05	10:17:45	7.95			
15-Dec-05	10:18:45	7.60			
15-Dec-05	10:19:45	7.95			
15-Dec-05	10:20:45	7.95			
15-Dec-05	10:21:45	7.95			
15-Dec-05	10:22:45	7.95			
15-Dec-05	10:23:45	7.95			
15-Dec-05	10:24:45	8.96			
15-Dec-05	10:25:45	8.96			
15-Dec-05	10:26:45	8.96			
15-Dec-05	10:27:45	8.96			
15-Dec-05	10:28:45	8.96			
15-Dec-05	10:29:45	8.96			
15-Dec-05	10:30:45	8.18			
15-Dec-05	10:31:45	8.96			
15-Dec-05	10:32:45	8.96			
15-Dec-05	10:33:45	8.57			
15-Dec-05	10:34:45	8.96			
15-Dec-05	10:35:45	8.96			
15-Dec-05	10:36:45	4.16			
15-Dec-05	10:37:45	4.16			
15-Dec-05	10:38:45	3.80			
15-Dec-05	10:39:45	3.80			
15-Dec-05	10:40:45	4.16			
15-Dec-05	10:41:45	3.80			
15-Dec-05	10:42:45	3.80			
15-Dec-05	10:43:45	3.80			
15-Dec-05	10:44:45	4.81			
15-Dec-05	10:45:45	4.81			
15-Dec-05	10:46:45	4.81			
15-Dec-05	10:47:45	4.81			
15-Dec-05	10:48:45	4.81			
			Average		6.61

# **APPENDIX C**

## **Isocyanate Results**



### Summary of Site details and Results

<b>Client</b>	Terex Compact Equipment
<b>Site Address</b>	Prologis Park, Coventry
<b>Job Number</b>	P-RED05-112/EBR/1/Rev0
<b>Date</b>	14th & 15th December 2005
<b>Operator(s)</b>	Elena Berek & Tony Berek

Pump Type	Pump No.	Sample ID	Location / Process / Operator	Pump Flow (ml/min)			Sample Duration (mins)			Total Volume (l)	Gas Temp (C)	Atmos Pressure (mbars)	Mass of Analyte (mg)	Concentration (mg/Nm <sup>3</sup> )
				Initial	Final	Average	Start	Finish	Total					
Yellow	44	05/112/	Topcoat Spray Booth 1	1000.0	1000.0	1000.0	09:15			60	22.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	10:15							
							60							
Yellow	44	05/112/	Topcoat Spray Booth 2	1000.0	1000.0	1000.0	10:30			60	22.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	11:30							
							60							
Yellow	44	05/112/	Topcoat Flash-off	1000.0	1000.0	1000.0	11:33			60	22.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	12:33							
							60							
Yellow	44	05/112/	Topcoat Curing Oven	1000.0	1000.0	1000.0	13:05			60	23.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	14:05							
							60							
Yellow	44	05/112/	Spray Bake Booth 1 - 15 December	1000.0	1000.0	1000.0	9:30			60	26.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	10:30							
							60							
Yellow	44	05/112/	Spray Bake Booth 2 - 15 December	1000.0	1000.0	1000.0	10:35			60	26.0	1024	<0.002	<0.04
				1000.0	1000.0	1000.0	11:35							
							60							