

# Report for the Periodic Monitoring of Emissions to Atmosphere

## Saint Gobain Professional Services UK & Ireland

### A2 - Fuel Handling

Permit No: EPR/A2/1  
Installation: Calders & Grandidge  
Monitoring Dates: 12 November 2019  
Site Address: Calders & Grandidge, 194 London Rd, Wyberton, PE21 7HJ

Report Number: ES-0005 (revisit)      Version: 1      Visit: 3 in 2019  
Date of Report: 10 December 2019  
Report Author: Iain Wilkie  
MCERTS No: MM 04 492      MCERTS Level: 2 (TE1, TE2, TE3 TE4)

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# Executive Summary

## Monitoring Objectives

Calders & Grandidge operate a wood treatment facility on their site in Boston. Emissions to atmosphere are generated from the treatment of wood products through forced saturation with creosote. Subsequent potential pollutants are then drawn away through a scrubber system, which mainly occurs during pressure release, before being vented to atmosphere.

Envirocare Technical Consultancy Ltd were contracted by Saint Gobain Professional Services UK & Ireland to undertake a monitoring campaign, to determine the level of emissions coming from the Biomass Boiler stack, as well as the dust emissions coming from an extractor on the fuel handling system. This report is on the testing done on the fuel handling system during a revisit to site (previously could not be tested due not running on previous visit)

The methodologies utilized, and the results obtained, form the basis of this report. The emission points and pollutants measured are listed below.

## Emission Point Identification

Substances to be Monitored	A2 - Fuel Handling
Total Particulate Matter	✓

Special requirements: none.

Opinions and interpretations expressed within this report are outside the scope of Envirocare Technical Consultancy's MCERTS and UKAS accreditation. Envirocare accepts no responsibility for information in this report that was provided by the client, the client's representative or employees of the client. Where such information has been provided by external sources this is identified in footnotes of the respective tables.

# Executive Summary

## Monitoring Results

### A2 - Fuel Handling

Substance	Emission Limit Value (mg/m <sup>3</sup> )	Periodic Monitoring Result (mg/m <sup>3</sup> )	Uncertainty as a % of ELV (95% confidence)	Reference Conditions	Date	Start and End Times	Monitoring Reference Method	Accreditation for Use of Method
Total Particulate Matter	50	1.64	-	273K, 101.3kPa, WET	12/11/19	10:51-11:54	MDHS 14/4	None

\*Uncertainty expressed in terms of emission concentration.

## Operating Information

### A2 - Fuel Handling

Date	Process Type	Fuel	Feedstock	Abatement	Load	Operating Status
12/11/19	Continuous	N/A	Woodchip	Cyclone	Unknown	Normal

## Monitoring Deviations

### A2 - Fuel Handling

Substance Deviations	Monitoring Deviations	Other Relevant Issues
None	None	None

# Supporting Information

## Appendix 1: General Information

### Monitoring Organisation Staff Details

Personnel	Function in Monitoring Campaign	MCERTS Level	MCERTS Number
Mr T Arden	Team Leader	2 (TE1, TE4)	MM18 1478

### Monitoring Methods

Pollutant Species	Standard	Technique	Envirocare Internal Procedure
Total Particulate Matter	MDHS 14/4	Gravimetric	ETC - HS - 01

### Equipment Checklist

Equipment ID	Model Number	Purpose
FM17	Digital Air Flow Meter	Sample flow measurement

## Appendix 2: A2 - Fuel Handling Results and Calculations

Picture of the sampling location and positions



Total Particulate Matter by MDHS 14/4 Method

Pump Ref.	Head Ref.	Filter Ref.	Duration (min)			Sample Flow (L/min)			Sample Volume (L)	Collected TPM Mass (mg)	Conc. (mg/m <sup>3</sup> )	Corrected Conc. (mg/Nm <sup>3</sup> )
			Start	End	Total	Start	End	Avg.				
HF82848	Bio/20	183792	10:51	11:54	63	2.00	2.05	2.03	127.6	0.20	1.57	1.64

Parameter	Value	Unit
Date	12/11/19	-
Flow Measurement Device	FM17	-
Atmospheric Pressure	992	mbar
Stack Gas Temperature	6	°C

Emissions Calculations		
Blank Concentration	0.41	mg/Nm <sup>3</sup>
<b>Corrected Emission</b>	<b>1.64</b>	<b>mg/Nm<sup>3</sup></b>
Corrected to 11% Oxygen	N/A	mg/Nm <sup>3</sup>
<b>Mass Emission Rate</b>	<b>N/A</b>	<b>kg/hr</b>