



cti environmental
www.castingstechnology.com

7 East Bank Road, Sheffield, S2 3PT, UK
Tel: +44 (0)114 253 7865
Fax: +44 (0)114 273 0852

UKAS Testing Laboratory No 0144

PART I: EXECUTIVE SUMMARY REPORT OF PERIODIC MONITORING OF EMISSIONS TO AIR

Part A2 Authorisation: Reference not supplied

East Anglian Galvanizers

Old North Road
Sawtry
Cambridgeshire
PE28 5XN

Customer Contact: Mr. Robert Duxbury

Site Contact: Mr. Paul Bayford

Monitoring Date: 2nd March 2011

Cti Ref: 11855

Customer Ref: PE 2562

Report Written By: Carl McDonald
MCERTS Registration No.: SIRA MM 05 671
Function: Environmental Technician

Report Approved By: Peter Holdsworth
MCERTS Registration No.: SIRA MM 04 563
Function: Monitoring Consultant

Signed: 

Signed: 

Date: 13th April 2011

Report Ref.: 11855/2011/Visit No.1
Report Version No.: 1



CONTENTS

PART I: EXECUTIVE SUMMARY REPORT

- 1.0 Monitoring Objectives
- 2.0 Monitoring Results
- 3.0 Operating Information
- 4.0 Monitoring Deviations

PART II: SUPPORTING INFORMATION

- APPENDIX I General Information
 - A) Monitoring organisation staff details
 - B) Monitoring organisation method details
 - C) Monitoring organisation equipment check list references
- APPENDIX II EAG 1 Galvanising Extraction

Supplied as separate document

1.0 MONITORING OBJECTIVES

Sampling of emissions at East Anglian Galvanizers was undertaken at the request of Mr. Robert Duxbury.

The aim of the monitoring campaign was to:

- undertake annual compliance monitoring

in accordance with the Site Specific Protocol prepared in February 2011.

The company is regulated as a Part A2 Process. The available guidance note applicable to the process is:

Sector Guidance Note IPPC SG5 - Secretary of State's Guidance for A2 Activities in the Galvanizing Sector (September 2006).

Emission limits given in the results tables are taken from the relevant note.

Tests were performed to quantify the levels of emissions from the following process:

Stack Ref	Emission Source	Substances Monitored
EAG 1	Galvanising Extraction	Particulates

There were no special requirements applicable to the monitoring.

2.0 MONITORING RESULTS

Note: Uncertainty figures quote in this section represent the uncertainty at the 95% confidence level

Stack Ref.: EAG 1 Galvanising Extraction

Particulates	Test 1	Test 2	Emission Limit Value
Concentration:	2.4 mg m ⁻³	6.5 mg m ⁻³	< 15 mg m ⁻³
Mass release:	13 g hr ⁻¹	34 g hr ⁻¹	-
Uncertainty:	± 0.77 mg m ⁻³	± 0.86 mg m ⁻³	-
Reference Conditions:	273K and 101.3kPa, without correction for water vapour content		
Date:	02/03/11	02/03/11	-
Test Period:	10:56 to 10:58 10:59 to 11:13 11:15 to 11:17 11:19 to 11:33	11:50 to 11:58 12:04 to 12:12 12:23 to 12:33 12:35 to 12:41	-
Duration:	32 mins	32 mins	-
Velocity:	2.7 m s ⁻¹	2.7 m s ⁻¹	-
Process Status:	Normal	Normal	-
Visibility:	No visible emission		Free from persistent visible emission
Monitoring Method:	BS EN 13284-1:2002 Determination of low range mass concentrations of dust		
Isokinetic Rate	101 %	97 %	95 % to 115 %
Blank Value	- 0.34 mg m ⁻³		< 10 % ELV
Cti Accreditation for Use of Method:	MCERTS	MCERTS	-
Accreditation Status of Tests:	None #	None #	-

- Test result not accredited under MCERTS – see section 4 for details.

3.0 OPERATING INFORMATION

Stack Ref.	Date	Process Type	Feedstock	Abatement Type & operational status if abnormal	Load	Substance	Periodic Monitoring Result	Units
EAG 1	02/03/11	Semi -continuous	Molten zinc	None	Normal	Particulates ^N	4.5	mg m ⁻³

Accreditation Status of test – (N) None

4.0 MONITORING DEVIATIONS

Stack Ref.	Emission Source	Substance	Reason
EAG 1	Galvanising Extraction	Particulates	Air flow in stack below minimum requirement stated in standard, i. e. < 5 Pa