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

Part A2 Authorisation

### **East Anglian Galvanizers**

Old North Road  
Sawtry  
Cambridgeshire  
PE28 5XN

**Monitoring Dates:** 1<sup>st</sup> March 2010

**Cti Ref:** 11494

**Customer Ref:** 21995

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# Supplied as separate document

## 1.0 MONITORING OBJECTIVES

Sampling of emissions at East Anglian Galvanising 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 2010.

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

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:

| <b>Stack Ref</b> | <b>Emission Source</b> | <b>Substances Monitored</b> |
|------------------|------------------------|-----------------------------|
| 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:                       | 1.6 mg m <sup>-3</sup>  | 9.1 mg m <sup>-3</sup>           | < 15 mg m <sup>-3</sup>               |
| Mass release:                        | 10 g hr <sup>-1</sup>   | 60 g hr <sup>-1</sup>            | -                                     |
| Uncertainty:                         | ± 0.66 mg m <sup>-3</sup>   | ± 0.77 mg m <sup>-3</sup>        | -                                     |
| Reference Conditions:                | 273K and 101.3kPa, without correction for water vapour content            |                                  |                                       |
| Date:                                | 01/03/10  | 01/03/10                         | -                                     |
| Test Period:                         | 12:05 to 12:21<br>12:23 to 12:39  | 12:55 to 13:11<br>13:13 to 13:29 | -                                     |
| Duration:                            | 32 mins   | 32 mins                          | -                                     |
| Velocity:                            | 3.5 m s <sup>-1</sup>   | 3.4 m s <sup>-1</sup>            | -                                     |
| Process Status:                      | Normal  | Normal                           | -                                     |
| Visibility:                          | Very intermittent grey visible emission                                   |                                  | Free from persistent visible emission |
| Monitoring Method:                   | BS EN 13284-1:2002 Determination of low range mass concentrations of dust |                                  |                                       |
| Isokinetic Rate                      | 100 %   | 100 %                            | 95 % to 115 %                         |
| Blank Value                          | - 0.55 mg m <sup>-3</sup>   |                                  | < 10 % ELV                            |
| Cti Accreditation for Use of Method: | MCERTS  | Accreditation Status of Tests    | MCERTS                                |

### 3.0 OPERATING INFORMATION

| Stack Ref. | Date     | Process Type     | Feedstock   | Abatement<br>Type & operational status if abnormal | Load   | Substance                 | Periodic Monitoring Result | Units              |
|------------|----------|------------------|-------------|--|--------|---------------------------|----------------------------|--------------------|
| EAG 1      | 01/03/10 | Semi -continuous | Molten zinc | None   | Normal | Particulates <sup>M</sup> | 5.4                        | mg m <sup>-3</sup> |

Accreditation Status of test – (M) MCERTs

### 4.0 MONITORING DEVIATIONS

There were no deviations to the monitoring procedure.