



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

A2 Permit Number: A09/09

East Anglian Galvanizing Ltd.

Old North Road
Sawtry
Cambridgeshire
PE28 5XN

Monitoring Date: 19th March 2014

Cti Ref: 12930
Customer Ref: PE7328

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Document held in Cti files with agreement of customer

1.0 MONITORING OBJECTIVES

Sampling of emissions at East Anglian Galvanizing 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 issued on 17th February 2014 (Cti Ref: 12930SSP).

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 requirements given in Permit No. A09/09

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

| Stack Ref | Emission Source | Substances Monitored |
|------------------|------------------------|-----------------------------|
| EAG 1 | Galvanizing Bath | 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 Galvanizing Bath

| Particulates | Test 1 | Test 2 | Emission Limit Value |
|--------------------------------------|---|----------------------------------|---------------------------------------|
| Concentration: | 4.5 mg m ⁻³ | 5.1 mg m ⁻³ | < 15 mg m ⁻³ |
| Mass Release: | 19 g hr ⁻¹ | 20 g hr ⁻¹ | - |
| Uncertainty: | ± 1.0 mg m ⁻³ | ± 1.1 mg m ⁻³ | - |
| Reference Conditions: | 273K and 101.3kPa, without correction for water vapour content | | |
| Date: | 19/03/14 | 19/03/14 | - |
| Test Period: | 10:53 to 11:09 11:11 to 11:27 | 11:39 to 11:55 11:56 to 12:12 | - |
| Duration: | 32 mins | 32 mins | - |
| Velocity: | 2.3 m s ⁻¹ | 2.1 m s ⁻¹ | - |
| Process Status: | Normal | Normal | - |
| Visibility: | Occasional white visible plume < 20 seconds every 15-20 minutes. | | Free from persistent visible emission |
| Monitoring Method: | BS EN 13284-1:2002 Determination of low range mass concentrations of dust | | |
| Isokinetic Rate: | 102 % | 101 % | 95 % to 115 % |
| Blank Value: | - 0.18 mg m ⁻³ | | < 10 % ELV |
| Cti Accreditation for Use of Method: | MCERTS | MCERTS | - |
| Accreditation Status of Test: | None # | None # | - |

- Test not accredited under MCERTS – See Section 4 for details

3.0 OPERATING INFORMATION

| Stack Ref. | Date | Process Type | Fuel | Feedstock | Abatement Type & operational status if abnormal | Load | Substance | Periodic Monitoring Result | Units |
|------------|----------|--------------|------|-------------|---|--------|---------------------------|----------------------------------|--------------------|
| EAG 1 | 19/03/14 | Continuous | N/a | Molten zinc | None | Normal | Particulates ^N | 4.8 | mg m ⁻³ |

Accreditation Status of test – (M) MCERTs (U) UKAS (N) None

4.0 MONITORING DEVIATIONS

Substances not monitored in accordance with Environment Agency TGN M2:

| Stack Ref. | Emission Source | Substance | Reason |
|------------|------------------|--------------|--|
| EAG 1 | Galvanizing Bath | Particulates | Air flow characteristics outside requirements of the standard; differential pressure < 5Pa |