



Alison Soper
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

30th April 2014

Attn: Alison Soper

RE: SHOTTON WORKS PERMIT; Q1 RETURNS JAN-MAR 2014

Please find attached Quarter 1 returns for our site permit BR7321, for the period January – March 2014.

Form W1, Reporting of emissions to water (other than to sewer)

Yours sincerely

S McKenna
Environment Officer

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED vs AUTHORIZATION	AS	6/5/14
TRACKING	JB	1.5.14
OK FOR PUBLIC REGISTER	AS	6/5/14
FILED TO SHOTTON'S RECORDS	JB	EDRM

TATA STEEL

Colors

Shotton Works Deeside Flintshire CH5 2NH

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Tata Steel UK Limited Registered Office Address 30 Millbank London W1P 4WY Registered in Country No. 2280000

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Permit Reference Number: BR7321

Operator: Tata Steel UK Limited

Installation: Tata Steel Colors Shotton Works

Form Number: W1 (Page 1 of 3)

Reporting of Emissions to Water (other than to Sewer) for the period from ...29/12/13.....to....29/03/14

| Emission Point | Substance / Parameter | Emission Limit Value | Result ^[1] | | Test Method ^[2] | Sample Date and Times ^[3] | Accreditation/ Certification ^[4] | Uncertainty ^[5] |
|----------------|------------------------|----------------------------|-----------------------|-------|---------------------------------------|--------------------------------------|---|----------------------------|
| W1 | Flow | 15,000 m ³ /day | Mean | 3254 | Magnetic flow meter | 100% | UKAS Lab | 3.7% |
| | | | Max | 5574 | Magnetic flow meter | | UKAS Lab | 3.7% |
| | pH | 5 - 9 | Min | 7.0 | Glass electrode laboratory pH meter | 8am Every morning | UKAS Lab | +/- 0.12 |
| | | | Max | 7.7 | | | UKAS Lab | |
| | Suspended solids | 100 mg/l | Mean | 6.96 | Gravimetric /Filtering/Balance | 8am Every morning | UKAS Lab | +/- 2.1mg/l |
| | | | Max | 36 | | | UKAS Lab | |
| | Chemical Oxygen Demand | 200 mg/l | Mean | 22.95 | Colorimetric - Hach Spectrophotometer | 8am Every morning | UKAS Lab | +/- 1.2mg/l |
| | | | Max | 64 | | | UKAS Lab | |
| | Iron | 10 mg/l | Mean | 0.29 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | | Max | 0.4 | | | UKAS Lab | |

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) – {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}

Signed S. McKenna
(authorised to sign as representative of the Operator)

Date.....30/04/14.....

Permit Reference Number: BR7321

Operator: Tata Steel UK Limited

Installation: Tata Steel Colors Shotton Works

Form Number: W1 (Page 2 of 3)

Reporting of Emissions to Water (other than to Sewer) for the period from ...29/12/13.....to....29/03/14

| Emission Point | Substance / Parameter | Emission Limit Value | Result ^[1] | | Test Method ^[2] | Sample Date and Times ^[3] | Accreditation/ Certification ^[4] | Uncertainty ^[5] |
|----------------|----------------------------|----------------------|-----------------------|------|---------------------------------------|--------------------------------------|---|----------------------------|
| W1 | Chromium | 0.3 mg/l | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | | Max | 0.1 | | | UKAS Lab | |
| | Mercury | 10 µg/l | | 0.1 | Laboratory ICP | 06/03/14 | UKAS Lab | +/- 0.1µg/l |
| | Nickel | 0.6 mg/l | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | | Max | 0.1 | | | UKAS Lab | |
| | Zinc | 0.8 mg/l | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | | Max | 0.1 | | | UKAS Lab | |
| | Ammoniacal Nitrogen (mg/l) | | Mean | 0.93 | Colorimetric - Hach Spectrophotometer | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | | Max | 2.04 | | | UKAS Lab | |

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[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

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Signed S. McKenna Date.....30/04/14.....
(authorised to sign as representative of the Operator)

Operator: Tata Steel UK Limited

Permit Reference Number: BR7321

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| Emission Point | Substance / Parameter | Result ^[1] | | Test Method ^[2] | Sample Date and Times ^[3] | Accreditation/ Certification ^[4] | Uncertainty ^[5] |
|------------------------------|-----------------------|-----------------------|-----|-------------------------------------|--------------------------------------|---|----------------------------|
| | | Min | Max | | | | |
| Effluent Plant Discharge A41 | pH | 7.0 | | Glass electrode laboratory pH meter | 8am Every morning | UKAS Lab | +/- 0.12 |
| | | 8.5 | | | 8am Every morning | UKAS Lab | |
| | Iron (mg/l) | Mean | 0.3 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | Max | 0.9 | | 8am Every morning | UKAS Lab | |
| | Mercury (μ g/l) | | 0.1 | Laboratory ICP | 06/03/14 | UKAS Lab | +/- 0.1 μ g/l |
| | | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | |
| | Chromium (mg/l) | Max | 0.1 | | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | |
| | Nickel (mg/l) | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | Max | 0.1 | | 8am Every morning | UKAS Lab | |
| | Zinc (mg/l) | Mean | 0.1 | Laboratory ICP | 8am Every morning | UKAS Lab | +/- 0.1mg/l |
| | | Max | 0.2 | | 8am Every morning | UKAS Lab | |

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