



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

31st October 2013

Attn: Alison Soper

RE: SHOTTON WORKS PERMIT; Q3 RETURNS JULY-SEPT 2013

Please find attached Quarter 3 returns for our site permit BR7321, for the period July – September 2013.

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

Yours sincerely

S McKenna
Environment Officer

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

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 ...01/07/13....to...28/09/13



Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation / Certification ^[4]	Uncertainty ^[5]
			Mean	Max				
W1	Flow	15,000 m ³ /day	Mean	1347	Magnetic flow meter	100%	UKAS Lab	3.7%
			Max	2813				
	pH	5 - 9	Min	7.4	Glass electrode laboratory pH meter	8am Every morning	UKAS Lab	+/- 0.12
			Max	7.8				
	Suspended solids	100 mg/l	Mean	7.2	Gravimetric /Filtering/Balance	8am Every morning	UKAS Lab	+/- 2.1mg/l
			Max	49				
	Chemical Oxygen Demand	200 mg/l	Mean	32.9	Colorimetric - Hach Spectrophotometer	8am Every morning	UKAS Lab	+/- 1.2mg/l
			Max	84				
	Iron	10 mg/l	Mean	0.72	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
			Max	1.4				

- [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.....25/10/13.....

UNIONBANG REIDUNSN. WAL 1-5

INITIALS DATE

CHECKED BY AUTHORIZATION

S J 21/14

TRACKING

J 8 S 4-1-13

OPERATIONAL RESOURCES

S J 8/1/14

UNIT OPERATOR SIGNATURE

J 8 E 02/14

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 ...01/07/13....to...28/09/13

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]	
			Mean	Max					
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	Mean	0.1	Laboratory ICP	10/09/13	UKAS Lab	+/- 0.1µg/l
				Max	0.1			UKAS Lab	
	Nickel	0.6 mg/l	0.1	Mean	0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
				Max	0.1			UKAS Lab	
	Zinc	0.8 mg/l	0.1	Mean	0.1	Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
				Max	0.1			UKAS Lab	
	Ammoniacal Nitrogen (mg/l)			Mean	2.2	Colorimetric - Hach Spectrophotometer	8am Every morning	UKAS Lab	+/- 0.1mg/l
				Max	3.44			UKAS Lab	

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 (authorised to sign as representative of the Operator)
 Permit Reference Number: BR7321
 Operator: Tata Steel UK Limited
 Date: 25/10/13

Reporting of Emissions to Water (other than to Sewer) for the period from ...01/07/13....to...28/09/13

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	7.9		Glass electrode laboratory pH meter	8am Every morning	UKAS Lab	+/- 0.12
		10.1			8am Every morning	UKAS Lab	
	Iron (mg/l)	0.22		Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		0.7			8am Every morning	UKAS Lab	
	Mercury (µg/l)	<0.1		Laboratory ICP	10/09/13	UKAS Lab	+/- 0.1µg/l
		0.1			8am Every morning	UKAS Lab	
	Chromium (mg/l)	0.1		Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		0.1			8am Every morning	UKAS Lab	
	Nickel (mg/l)	0.1		Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l
		0.1			8am Every morning	UKAS Lab	
Zinc (mg/l)	0.1		Laboratory ICP	8am Every morning	UKAS Lab	+/- 0.1mg/l	
	0.3			8am Every morning	UKAS Lab		

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