



Schedule 1

Notification of Unauthorised Release

Operator: Tata Steel UK Ltd

Authorisation: BS3905IP

Location: Llanwern Works
Newport
South Wales
NP19 4QZ

Date Submitted: 22/02/23

PART B

- Further details of the release and results of any investigations carried out**

This Part B is a follow-up to the Part A Notification for a breach of permit conditions at Llanwern W1 consent point on the 5th December 2022. The breach was elevated copper levels in effluent.

Levels in excess of the 0.1 mg/l limit were recorded, with a measured value of 0.5695 mg/l (0.664 mg/l for original result and 0.475 mg/l for the retest).

The emission value was 0.5195 mg/l after the 0.05 mg/l uncertainty of measurement was subtracted.

Results in previous weeks had been below the limit of 0.1 mg/l. Subsequent results have been within permitted limits.

Calendar year 2022, W1 consent point.

Week 43: 0.004 mg/l

Week 44: 0.006 mg/l

Week 45: 0.004 mg/l

Week 46: <0.02 mg/l

Week 47: <0.02 mg/l

Week 48: **0.5695 mg/l**

Week 49: <0.02 mg/l

Week 50: <0.02 mg/l

The source of the elevated Cu results is inconclusive. Unable to pinpoint source of Cu entering effluent system. Tata inlet and outlet drains are not analysed for Cu, they are analysed for pH, suspended solids and hydrocarbon oil. W1 Consent point is analysed for Cu.



Information provided by environmental consultants on behalf of St Modwen's.

	Dissolved Cu (mg/l)		Total Cu (mg/l)	
	Drain 2 outlet	Drain 4 outlet	Drain 2 outlet	Drain 4 outlet
23rd Nov	not available	0.016	not available	0.016
24th Nov	0.0045	0.0005	0.0057	0.0018
25th Nov 22	0.0043	not available	0.051	not available
28th Nov 22	0.0047	0.0035	0.0062	0.0053
29th Nov 22	0.0045	0.0011	0.0055	0.0012
30th Nov 22	0.0049	0.0042	0.0072	0.0084
1st Dec 22	0.00078	0.0068	0.0036	0.012
2nd Dec 22	0.004	0.0035	0.0079	0.0075
5th Dec 22	0.0031	0.0043	0.0061	0.0062
6th Dec 22	0.004	0.0043	0.0048	0.0068
7th Dec 22	0.0036	0.018	0.0067	0.016
8th Dec 22	0.0005	0.0038	0.0055	0.19

- **Measures taken or intended to be taken to prevent a recurrence of the incident**
 - Perform additional spot sampling from effluent emission points to identify potential contributors of Cu to the effluent system. Effluent mapping exercise currently being undertaken to understand contributors of pollutants to effluent system.
- **Measures taken, or intended to be taken, to: rectify, limit or prevent any pollution of the environment or harm which has been caused by the emission**
 - Perform additional spot sampling from effluent emission points to identify potential contributors of Cu to the effluent system.

The dates of any PART A notifications within the previous 24 months

- 24th January 2023 - Suspended Solids W1 consent point
- 2nd January 2023 - Suspended Solids W1 consent point
- 24th December 2022 - Suspended Solids W1 consent point
- 15th December 2022 - Suspended Solids W1 consent point
- 5th December 2022 – Copper W1 consent point
- 25th October 2022 – Suspended Solids W1 consent point
- 8th August 2022 – Hydrocarbons W1 consent point
- 2nd June 2022 – Suspended Solids W1 consent point
- 29th January 2022 – Suspended Solids W1 consent point
- 21st January 2022 – Suspended Solids W1 consent point
- 28th December 2021 – Failure to analyse effluent waters for a 1 day period.
- 26th September 2021 – Suspended Solids W1 consent point
- 29th July 2021 – Failure to analyse Mercury
- 20th June 2021 – Hydrocarbons W1 consent point
- 29th Dec 2020 – Suspended Solids W1 consent point



Name: [REDACTED]

Position: Environmental Engineer

Signature: [REDACTED]

[Signed on behalf of Tata Steel UK]