

Permit Reference Number : BT4885IT  
Facility : Shotton Paper Mill

Operator : UPM-Kymmene UK Ltd  
Form Number : S1

### Reporting of Emissions to Sewer for the period from 1<sup>st</sup> April 2016 to 30<sup>th</sup> June 2016

| Emission Point | Substance / Parameter                                     | Emission Limit Value                                                                                             | Result <sup>(1)</sup> | Test Method    | Sample Date and Times <sup>(2)</sup> | Uncertainty <sup>(3)</sup> |
|----------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------|----------------|--------------------------------------|----------------------------|
| E1             | Volumetric Flow                                           | 300m <sup>3</sup> /day 24 hour period beginning 00:01                                                            | 204                   | BS3680         | 28/05/16 @ 18.00                     |                            |
| E1             | pH                                                        | 6(min) Instantaneous                                                                                             | 6.87                  | BS 1647-2:1984 | 14/04/16 @ 15.40                     |                            |
| E1             | pH                                                        | 9(max) Instantaneous                                                                                             | 8.94                  | BS 1647-2:1984 | 27/05/16 @ 03.00                     |                            |
| E1             | Total suspended solids as defined by Directive 91/271/EEC | 30mg/l for 95% of all measured values of periodic or flow proportional samples taken over one year. <sup>1</sup> | 14                    | BS EN 872      | 11/05/16 @ 08.00                     |                            |
| E1             | Total suspended solids as defined by Directive 91/271/EEC | 45mg/l periodic sample <sup>1</sup>                                                                              | 34                    | BS EN 872      |                                      |                            |
| E1             | Mercury and its compounds, expressed as mercury (Hg)      | 0.03 mg/l 24-hour flow proportional sample                                                                       | 0.009                 | BS EN 1483     | 25/04/16                             |                            |
| E1             | Cadmium and its compounds, expressed as cadmium (Cd)      | 0.05 mg/l 24-hour flow proportional sample                                                                       | <0.00005              | BS 6068-2.89   | 22/04/2016                           |                            |
| E1             | Thallium and its compounds, expressed as thallium (Tl)    | 0.05 mg/l 24-hour flow proportional sample                                                                       |                       | BS 6068-2.89   |                                      |                            |
| E1             | Arsenic and its compounds, expressed as arsenic (As)      | 0.15 mg/l 24-hour flow proportional sample                                                                       | 0.05                  | BS 6068-2.60   | 22/04/2016                           |                            |
| E1             | Lead and its compounds, expressed as lead (Pb)            | 0.2 mg/l 24-hour flow proportional sample                                                                        | 0.0007                | BS 6068-2.60   | 25/04/2016                           |                            |
| E1             | Chromium and its compounds, expressed as chromium (Cr)    | 0.5 mg/l 24-hour flow proportional sample                                                                        | 0.104                 | BS 6068-2.60   | 22/04/2016                           |                            |
| E1             | Copper and its compounds, expressed as copper (Cu)        | 0.5 mg/l 24-hour flow proportional sample                                                                        | 0.007                 | BS 6068-2.60   | 26/04/2016                           |                            |
| E1             | Nickel and its compounds, expressed as nickel (Ni)        | 0.5 mg/l 24-hour flow proportional sample                                                                        | 0.0087                | BS 6068-2.60   | 22/04/2016                           |                            |
| E1             | Zinc and its compounds, expressed as Zinc (Zn)            | 1.5 mg/l 24-hour flow proportional sample                                                                        | 0.0165                | BS 6068-2.60   | 24/04/2016                           |                            |
| E1             | Dioxins / Furans (I-TEQ)                                  | 0.3 ng/l – at least one measurement every six months                                                             | N/A                   | BS ISO 18703   |                                      |                            |

1. The result given is the maximum value obtained during the reporting period, expressed in the same terms as the emission limit value.
2. The date and time of measurements and the percentage of the process operating time covered by the result shall be given.
3. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date: 1/8/16  
(authorised to sign as representative of UPM-Kymmene UK Ltd)