

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: A1 v2017

Reporting of Emissions to Air for the period from .....01 Jul 2018.....to.....30 Sep 2018.....

| Emission Point | Substance / Parameter            | Emission Limit Value | Result<br>[1]               | Test Method [2] [6]           | Sample Date and Times [3]    | Accreditation/<br>Certification<br>[4] | Uncertainty<br>[5]     |
|----------------|----------------------------------|----------------------|-----------------------------|-------------------------------|------------------------------|----------------------------------------|------------------------|
| A1             | VOC <sup>a</sup><br>(continuous) | -                    | 463.0<br>mgC/m <sup>3</sup> | CEM FID                       | 01 Jun 2018*                 | MCERT                                  | ±2%                    |
| A1             | VOC <sup>a</sup><br>(extractive) | -                    | 92.0<br>mgC/m <sup>3</sup>  | BS EN 12619:2013<br>CAT-TP-20 | 21 Sep 2018<br>10:00 – 14:00 | MCERT/ISO17025                         | 2.1 mgC/m <sup>3</sup> |

Note a: Expressed as Total Carbon

- [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. gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result 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.
- [6] Monitoring methods and schedules to be agreed in writing by the Environment Agency on completion of Improvement Programme items IP6, IP7 and IP8, when the Environment Agency will also set Emission Limit Values for these Release Points by varying the Conditions of the Permit. The reference measurements used shall be agreed in writing by the Agency.

Signed .....  
(Authorised to sign as representative of the Operator)

Date: 31 OCT 2018

\*Last reading from continuous monitor before FID decommissioned as part of RTO project as agreed with D. Griffiths

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymerney Hydrocel Plant

Form Number: S1 v2017

Reporting of Emissions to Sewer for the period from ..... 01 Jun 2018.....to..... 30 Sep 2018.....

| Emission Point | Substance / Parameter | Emission Limit Value | Result [1] | Test Method [2] | Sample Date and Times [3] | Accreditation/ Certification [4] | Uncertainty [5] |
|----------------|-----------------------|----------------------|------------|-----------------|---------------------------|----------------------------------|-----------------|
| S1             | pH                    | 6-11                 | 6.9        | WAS 039         | 21 Sep 2018               | UKAS/ISO17025                    | ±2.85 to ±1.39% |
| S1             | COD                   | 4000mg/l             | 24.0 mg/l  | WAS 040         | 21 Sep 2018               | UKAS/ISO17025                    | ±5.07 to ±2.36% |
| S1             | Suspended solids      | 1000mg/l             | 3.00 mg/l  | WAS 006         | 21 Sep 2018               | UKAS/ISO17025                    | ±19.93%         |

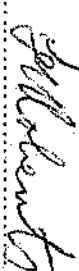
[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum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

Signed .....  .....  
(Authorised to sign as representative of the Operator)

Date 31 OCT 2018

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: SED1 v2017

**Reporting of Solvent Emissions for the period from** .....01 Jul 2018.....**to**.....30 Sep 2018 .....

| Emission Point                                                          | Substance / Parameter | Emission Limit Value       | Result [1]           |
|-------------------------------------------------------------------------|-----------------------|----------------------------|----------------------|
| All emissions (including fugitive, excluding solvent sent for recovery) | VOC                   | <5% of total solvent input | 1.6% By mass balance |

[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.

Signed .....  
(Authorised to sign as representative of the Operator)

Date 31 OCT 2018