

Permit Number: EPR/DP3832EF

Operator: Biotage GB Limited

Facility: Unit C IST House, Distribution Way.

Form Number: Performance1 / 02/03/16

**Reporting of other performance indicators for the period 01/01/2015 to 31/12/2015**

| Parameter                  | Units                       |
|----------------------------|-----------------------------|
| Polystyrene polymer        | tonnes/year for activity A1 |
| 1,2 - Dichloroethane       | 0.0606                      |
| Bromine                    | 0.8747                      |
| Thallium acetate           | tonnes/year for activity A1 |
| Dichloromethane            | 0.0437                      |
| Methanol                   | tonnes/year for activity A1 |
| Amorphous synthetic silica | 0.0010                      |
| Ethylbenzene               | tonnes/year for activity A1 |
| Imidazole                  | 0.8024                      |
| Trichlorosilanes (various) | tonnes/year for activity A1 |
| Hexane                     | 0.5748                      |
| Acetone                    | tonnes/year for activity A2 |
| Methanol                   | 0.2271                      |
| Si - Thiol                 | tonnes/year for activity A2 |
| Nitric Acid                | 0.4608                      |
| Methanol                   | 0.0116                      |
| Bonded silica sorbents     | tonnes/year for activity A2 |
| Dichloromethane            | 0.1028                      |
| Chlorosulfonic acid        | tonnes/year for activity A2 |
| Methanol                   | 1.1381                      |
| Potable Water usage        | tonnes/year for activity A2 |
| Energy usage - Electricity | 1.8316                      |
| Energy usage - Natural Gas | tonnes/year for activity A2 |
|                            | 1.1228                      |
|                            | tonnes/year for activity A2 |
|                            | 0.2874                      |
|                            | tonnes/year for activity A3 |
|                            | 0.3391                      |
|                            | tonnes/year for activity A3 |
|                            | 3.4314                      |
|                            | tonnes/year for activity A3 |
|                            | 0.0087                      |
|                            | tonnes/year for activity A4 |
|                            | 0.0380                      |
|                            | tonnes/year for activity A4 |
|                            | 0.0102                      |
|                            | tonnes/year for activity A4 |
|                            | 0.4985                      |
|                            | tonnes/year for activity A4 |
|                            | 1905                        |
|                            | tonnes                      |
|                            | 454                         |
|                            | MWh                         |
|                            | 229                         |
|                            | MWh                         |

02/03/16

| Parameter                                      | Units          |
|------------------------------------------------|----------------|
| Total amount of product produced – Activity A1 | 0.0734 tonnes  |
| Total amount of product produced – Activity A2 | 0.2907 tonnes  |
| Total amount of product produced – Activity A3 | 0.2802 tonnes  |
| Total amount of product produced – Activity A4 | 0.0084 tonnes  |
| Total amount of hazardous waste produced       | 33.624 tonnes  |
| Total amount of non-hazardous waste produced   | 102.602 tonnes |

Operator's comments :

Signed ..... *N. Sandrine* ..... Date..... 02/03/16.....  
 (Authorised to sign as representative of Operator)

Permit Number: EPR/DP3832EF

Operator: Biotage GB Limited

Facility: Unit C IST House, Distribution Way.

Form Number: Air1 / 26/08/15

### Reporting of emissions to air for the period from 01/01/2015 to 31/12/2015

| Emission Point       | Substance / Parameter                    | Emission Limit Value   | Reference Period | Result <sup>[1]</sup>    | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup> |
|----------------------|------------------------------------------|------------------------|------------------|--------------------------|----------------------------|--------------------------------------|----------------------------|
| A1 Main building EP1 | Hydrogen chloride                        | 10 mg/m <sup>3</sup>   | Spot Sample      | 106.08 mg/m <sup>3</sup> | BS EN 1911                 | 09:34 – 10:34; 31/03/15              | 13                         |
| A1 Main building EP1 | VOC - Methanol                           | 2700 mg/m <sup>3</sup> | Spot Sample      | < 1.78 mg/m <sup>3</sup> | BS EN 13649:2002           | 09:30 – 10:30; 31/03/15              | 10                         |
| A2 Main building EP1 | Hydrogen chloride                        | 29 mg/m <sup>3</sup>   | Spot Sample      | 33.40 mg/m <sup>3</sup>  | BS EN 1911                 | 06:51 – 07:51; 01/04/15              | 13                         |
| A2 Main building EP1 | VOC - Methanol                           | 27 mg/m <sup>3</sup>   | Spot Sample      | < 1.81 mg/m <sup>3</sup> | BS EN 13649:2002           | 06:53 – 07:53; 01/04/15              | 10                         |
| A3 Main building EP1 | Oxides of nitrogen (as NO <sub>2</sub> ) | 35.7 mg/m <sup>3</sup> | Spot Sample      | 56.71 mg/m <sup>3</sup>  | BS EN 14792:2005           | 12:48 – 13:47; 31/03/15              | 4                          |
| A3 Main building EP1 | VOC - Methanol                           | 260 mg/m <sup>3</sup>  | Spot Sample      | 10.69 mg/m <sup>3</sup>  | BS EN 13649:2002           | 12:14 – 13:14; 31/03/15              | 10                         |
| A4 Resin shed EP2    | Hydrogen Bromide                         | 0.2 mg/m <sup>3</sup>  | Spot Sample      | 57.63 mg/m <sup>3</sup>  | US EPA Method 26           | 09:04 – 10:04; 01/04/15              | 13                         |

- [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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... *N. Jenkins* ..... Date.....26/08/15.....  
(Authorised to sign as representative of Operator)

26/08/15

