

Attachment I .1 Assessment of Atmospheric Emissions

Existing Conditions

The EU Air Quality Framework Directive (96/62/EC) requires Member States to identify 'Zones' and 'Agglomerations' for air quality assessment purposes. In Ireland, four zones, A, B, C and D are defined in the *Air Quality Standards (AQS) Regulations* (S.I. No 180 of 2011).

- Zone A – Dublin Conurbation
- Zone B – Cork Conurbation
- Zone C – Large Towns with a Population > 15,000
- Zone D – Remaining Area of Ireland

Millennium Business Park is in Zone A. The EPA implements an air quality monitoring programme at a number of stations in Dublin, including one at Blanchardstown which is considered representative of air quality at the site. The Blanchardstown station conducts continuous monitoring for nitrogen oxides and PM₁₀, and the results indicate the air quality is good.

The current Waste Licence requires routine monitoring of dust deposition levels at four locations within the site boundary. The monitoring locations are shown on Drawing No.001 and the results of the monitoring carried out in 2016 are presented in the Table below, which also includes the deposition limits set in the current licence.

| Monitoring Location | Units | Aug 2016 | Sept 2016 | Deposition Limit Value |
|---------------------|------------------------|----------|-----------|------------------------|
| DS-01 | mg/m ² /day | 52.85 | 69.34 | 350 |
| DS-02 | mg/m ² /day | * | * | 350 |
| DS-03 | mg/m ² /day | 36.91 | 25.02 | 350 |
| DS-04 | mg/m ² /day | 23.67 | 41.91 | 350 |

* Dust jar damaged

The Deposition Limit Value was not exceeded at any of the monitoring locations.

Statement on Main Polluting Substances

Emissions of main polluting substances (as defined in the Schedule of EPA (Industrial Emissions) (Licensing) Regulations 2013, S.I. No. 137 of 2013) to the atmosphere are not likely to impair the environment.

Assessment of Impacts

Dust and odours are not significant issues at the installation, and the current and proposed mitigation measures will ensure that dust will not be a source of nuisance outside the site boundary.