

## 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

The EPA implements an air quality monitoring programme at a number of monitoring stations across the country. Although PANDA's facility is in an area categorised as Non Urban (ZONE D), the closest monitoring station that was considered representative of air quality at the site is in Navan (Urban Zone C). Monitoring for carbon monoxide, sulphur and nitrous oxides, particulates, benzene and lead was conducted between April 2007 and February 2008 and the results indicate that, with the exception of particulates (PM10), the air quality was good.

The current licence requires routine monitoring of dust deposition levels at five locations within the site boundary. The monitoring locations are shown on Drawing No.3 Rev D 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	Q1 2016	Q2 2016	Q3 2016	Q4 2016	Deposition Limit Value
AD-1	mg/m <sup>2</sup> /day	73	143	28	31	350
AD-2	mg/m <sup>2</sup> /day	113	190	24	29	350
AD-3	mg/m <sup>2</sup> /day	56	157	40	50	350
AD-4	mg/m <sup>2</sup> /day	68	134	89	26	350
AD-5	mg/m <sup>2</sup> /day	113	138	33	34	350

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. The emission limit values that are set for the odour abatement systems are designed to ensure that the emissions will not be a cause of odour nuisance outside the boundary.

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