

Project: National Paediatric Hospital

Report Type: Summary of Dust Monitoring Results

Period of Monitoring: 8th April 2019 – 7th May 2019.

Introduction

The requirement for Dust Monitoring on site is laid out in the Project Environmental Impact Statement (EIS) that would have been submitted as part of the Planning Permission for the project. A number of monitoring points around the perimeter of the site are used to record dust levels. The location and number of dust monitors may vary throughout the project depending on activities on site.

Dust Monitoring.

The monitors are examined monthly and the levels of dust recorded are compared to a dust limit of 350mg/m²/day set out in the Project EIS. The monitoring points are monitored on a 'trigger level' basis - so if a predetermined level of dust is exceeded the Main Contractor shall review work processes and modify as required to reduce the level of dust generated.

Number of Monitors on Site during Monitoring Period:

Eleven.

Location of Monitors:

The location of dust monitoring points since May 2018 (D1, D2, etc.) can be seen in Figure 1. Previous dust monitor locations for the period September 2017 to April 2018 and April 2017 to August 2017 and are shown in Figures 2 and 3 respectively for reference.

Observations:

The dust monitoring period for April extends from 8th April 2019 – 7th May 2019. (Results for March included testing up to and including 7th April, meaning all working days on site have been captured in the dust monitoring results)

Over this period, all monitors were tested on a monthly basis i.e. once.

Works on site during this monitoring period include, but are not limited to:

- Steel and excavation work at O'Reilly Avenue/Energy Centre.
- Concrete pouring, steel works and excavation of materials at the hospital entrance.
- Pouring concrete, basement construction and excavation works near Cameron Square.
- Construction of basement level and excavation works near South Circular Road.
- Pouring concrete and excavation near Mount Brown.
- Excavation, steel works, pouring concrete and depositing material near Brookfield Clinic.

Overall, 11 of the 11 dust monitors on site showed levels of dust below the levels specified in the Project EIS, 350mg/m²/day.

Memo

Dust Monitoring Point D3, located near Mountshannon Road, recorded the highest levels of dust within the timeframe of this report. The dust deposition was approximately 54% of the limit as defined by the Project EIS. There were excavation works and basement construction in this area which may have contributed to the higher readings.



Figure 1. Location of Dust monitors on site (May 2018).



Figure 2. Location of Dust monitors on site (September 2017 – April 2018).



Figure 3. Previous location of Dust monitors on site (April 2017 to August 2017).