

Project: National Paediatric Hospital

Report Type: Summary of Dust Monitoring Results

Period of Monitoring: 6th March 2019 – 8th April 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 March extends from 6th March 2019 – 8th April 2019. (Results for February included testing up to and including 6th March, 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 works and depositing material near Brookfield Clinic.

Overall, 10 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 D7 was the only monitor to record levels of dust above the levels specified in the Project EIS, 350mg/m²/day. The dust deposition was approximately 62% above the limit. Dust monitor D7 is located in front of the hospital building which was the site of excavation works and concrete pouring which could have added to the higher dust reading. Historically there have been few exceedances in this area, the only other exceedance in this location was in November 2017 (max reading in between these exceedances was 10% of the allowable limit set out in the Project EIS).

The adjacent monitors, D6 & D8, had a dust deposition over this timeframe of <5% of the allowable limit set out in the Project EIS which suggests that the dust deposition was localised around monitor D7.



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).