

**Project:** National Paediatric Hospital

**Report Type:** Summary of Dust Monitoring Results

**Period of Monitoring:** 3<sup>rd</sup> December 2018 – 3<sup>rd</sup> January 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/m<sup>2</sup>/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 November extends from 3<sup>rd</sup> December 2018 – 3<sup>rd</sup> January 2019. (Results for November included testing up to and including 3<sup>rd</sup> December, 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:

- Piling works and Excavation of Material from site at O'Reilly Avenue/Energy Centre.
- Pile works and Excavation from site at the hospital.
- Steel works and Excavation of Material from site near Cameron Square.
- Construction of basement level 2 and excavation works at South Circular Road.
- Excavation Works at Mount Brown.
- Steel works and Excavation works at Brookfield Clinic.

Overall, 10 of the 11 dust monitors on site showed levels of dust below the levels specified in the Project EIS, 350mg/m<sup>2</sup>/day.

# Memo

Dust Monitoring Point D1 recorded levels of dust 94% above the limit specified in the Project EIS. During this monitoring period, excavation works around Brookefield clinic and the hospital entrance could be the cause of higher dust levels in this area during this time period. This is the first time that dust levels have been above the limit specified in the Project EIS since the project began. See below the values of dust deposition in this location over the last year. Note: the units are in mg/m<sup>2</sup>/day and the limit specified in the Project EIS is 350mg/m<sup>2</sup>/day.

Dec-17	<18
Jan-18	<18
Feb-18	34
Mar-18	270
Apr-18	39
May-18	31
Jun-18	24
Jul-18	64
Aug-18	46
Sep-18	23
Oct-18	<18
Nov-18	<18
Dec-18	680

**Table 1 – Dust levels (in mg/m<sup>2</sup>/day) in location D1 over the last 12 months.**

The values in the above table are not indicative of repeated dust causing activities in this area and are more likely to be a result of the excavation works in and around the dust monitor.



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

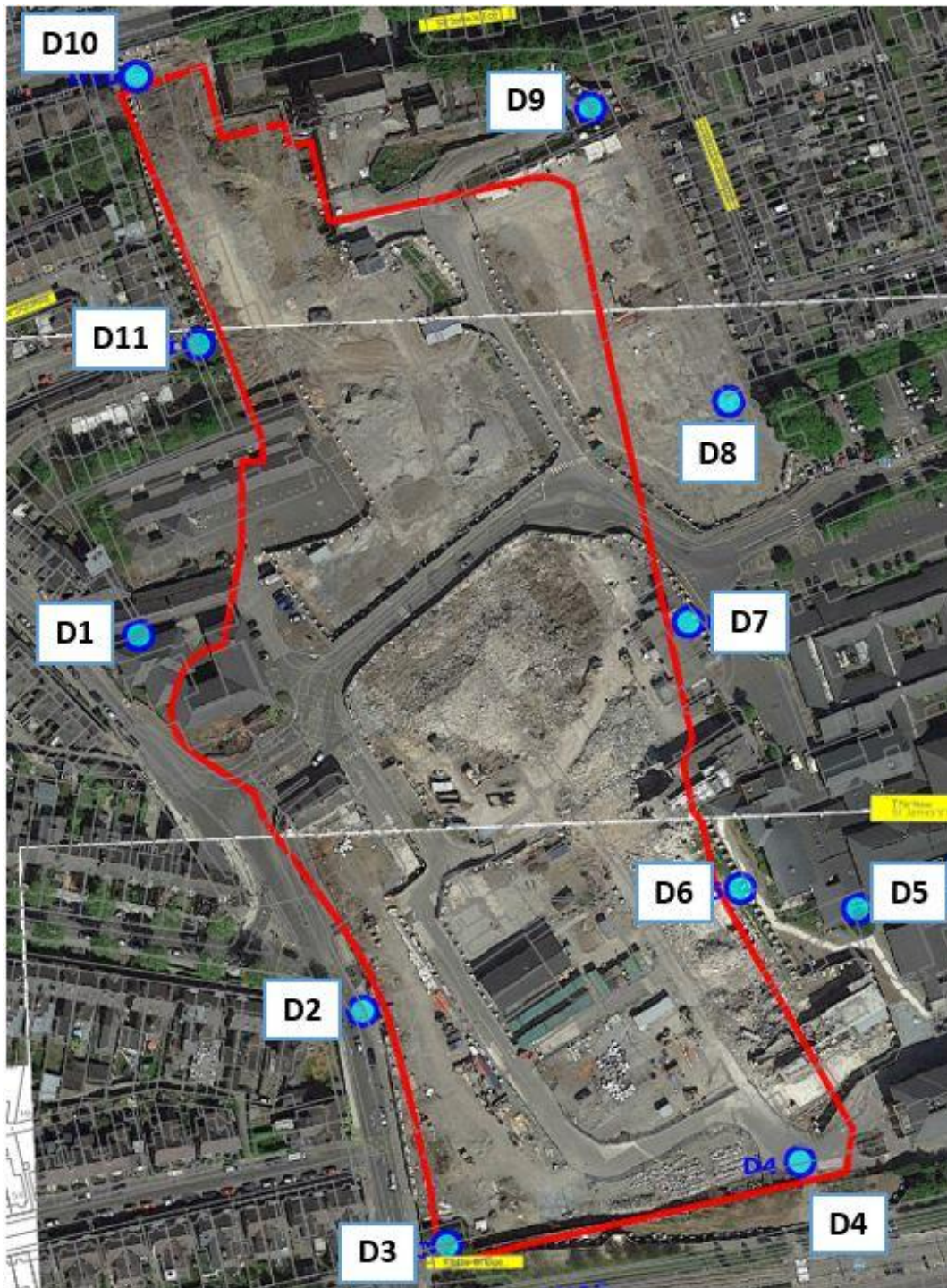


Figure 2. Location of Dust monitors on site (September 2017 – April 2018).

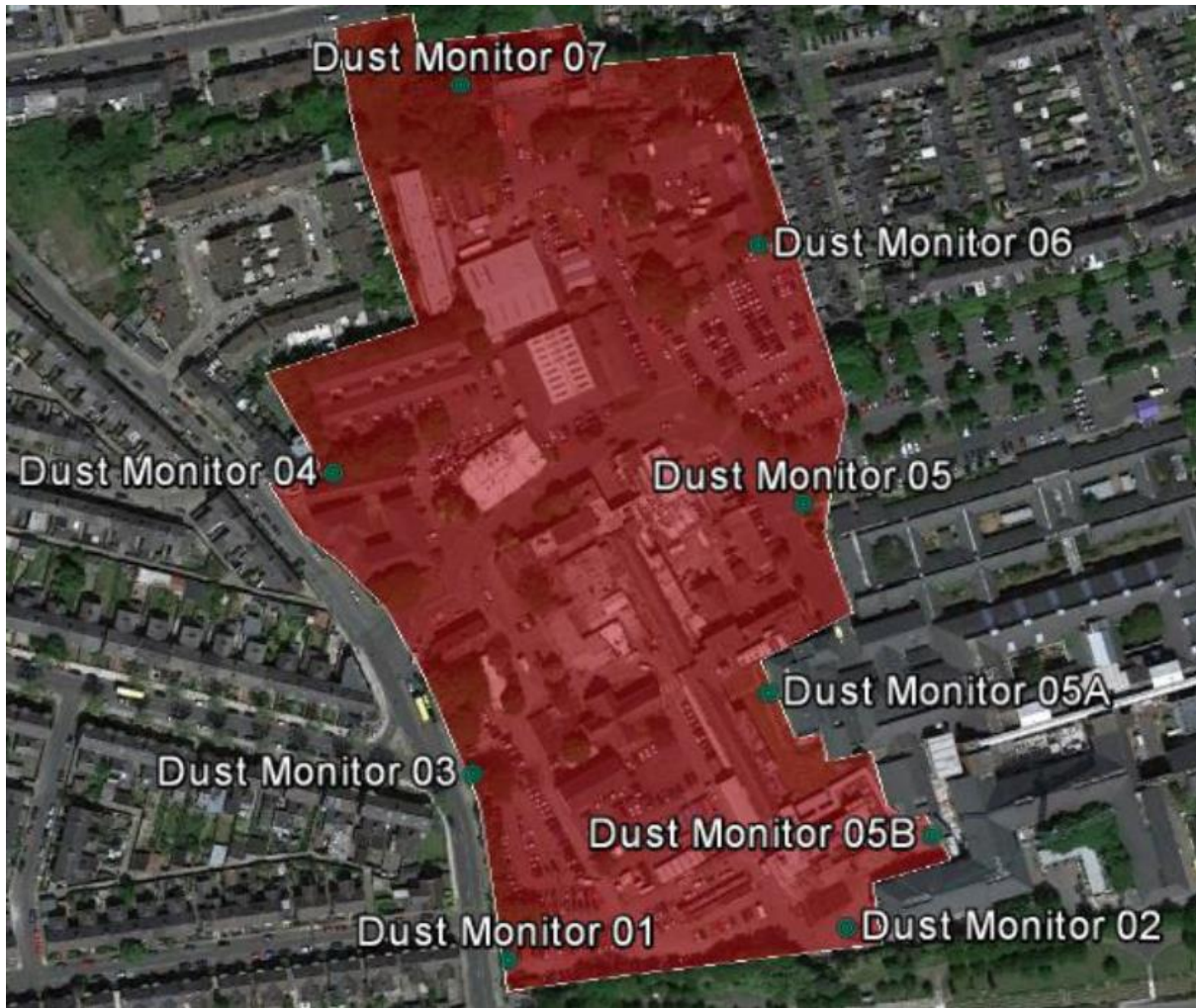


Figure 3. Previous location of Dust monitors on site (April 2017 to August 2017).