



**Matrix Environmental**

***MONTHLY DUST MONITORING***  
***AT THE***  
***MILLTOWN COMPOST SITE,***  
***MILLTOWN MOR, FETHARD,***  
***CO. TIPPERARY.***  
***JULY 2017***  
***W0270-01***

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**For the Attention of:**

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**Executive Summary**

Matrix Environmental was contracted by Milltown Compost to conduct a dust deposition survey of the site in Milltownmore in order to determine the dust levels at the facility. Dust bottles were installed on the 7th of August 2017 and taken down on the 6th of September 2017. The dust gauges were collected by Matrix Environmental for subsequent analysis.

Three locations were chosen to assess the level of dust from the facility. The maximum dust result for the survey period was 334 mg/m<sup>2</sup>/day at locations D1 on the ditch south of the main processing building. The result for location D2 and D3 were 71 mg/m<sup>2</sup>/day and 170 mg/m<sup>2</sup>/day respectively. The results for all locations are within the licence limit value of 350 mg/m<sup>2</sup>/day.

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## **1.0 INTRODUCTION**

Milltown Compost operates a composting site at Milltownmore, Fethard, Co. Tipperary. Matrix Environmental were contracted to carry out a dust deposition survey in order to assess the dust contribution from on site activities in the area of the compost. Dust bottles were installed on the 7th of August 2017 and taken down on the 6th of September 2017. The dust gauges were collected by Matrix Environmental for subsequent analysis.

This report presents details of both the methodologies employed and results obtained.

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**2.0 METHODOLOGIES**

**2.1 Dust Survey**

Dust monitoring was conducted using dust gauges conforming to the Standard Method VD12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). Each dust-sampling bottle was securely capped after the recommended exposure period of between 28 and 31 days. The samples were then returned to the laboratory for gravimetric analysis. The collected sample material is rinsed into a pre weighed evaporating dish and evaporated down to dryness. The total dry residue, which comprises both insoluble and soluble dust, is then determined. Results are expressed in mg/m<sup>2</sup>/day.

The following is a detailed description of the dust monitoring points:

Measurement No.	Location
D1	On ditch south of the main processing area.
D2	Opposite site offices.
D3	On northeastern boundary of site.

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**3.0 RESULTS**

Tables 3.1 present the results of the dust deposition survey carried out at the Milltownmore site during August 2017.

<b>TABLE 3.1: DUST MEASUREMENT RESULTS</b>			
<b>Location No.</b>	<b>Measurement Period (days)</b>	<b>Dust Deposition (mg/m<sup>2</sup>/day)</b>	<b>Waste Licence Limit (mg/m<sup>2</sup>/day)</b>
D1	30	334	350
D2	30	71	350
D3	30	170	350

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#### **4.0 DISCUSSION**

##### **Dust:**

D1 – this monitoring point is located on the on the ditch, south of the main processing area.. The result of 334 mg/m<sup>2</sup>/day is within the dust deposition limit of 350 mg/m<sup>2</sup>/day.

D2 - this monitoring point is located at opposite the site offices adjacent to the roadway. The result of 71 mg/m<sup>2</sup>/day is within the dust deposition limit of 350 mg/m<sup>2</sup>/day.

D3 – this monitoring point is located on the north-eastern boundary of the site. The result of 170 mg/m<sup>2</sup>/day is within the dust deposition limit of 350 mg/m<sup>2</sup>/day.

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**Appendix 1**  
**Dust Monitoring Location Map**

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