

METHOD STATEMENT

Determinand:

Dusts Deposits By Dry Frisbee Dust Deposit Gauge

Matrix:

Rain waters

Principle of Method:

Gravitational filtering separates the dust from any solution and the deposit is weighed and calculated over a set time period.

Sampling and Sample Preparation:

Testing is carried out on samples as received.

Interferences:

No known interferences

Performance of Method:

The range of the method is up to 32mg of recovered material, which equates to 791 mg/m²/day⁻¹, based on a sampling period of one day and a catch pot diameter of 227mm.

LOD = 1.93 mg.

The range of application is 1.93 – 32 mg.

Determinand	Spike	
	%RSD	%Rec
Mass of Undissolved Solids	6.83	97.03

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.

Determinand	Uncertainty of Measurement %
Mass of Undissolved Solids	16.62

References:

Protocol for using the dry Frisbee (with foam insert) dust deposit gauge. H. W. Vallack (Stockholm Environment Institute at York) February 1995.

