

# Site Analytical Services Ltd.



*Site Investigations, Analytical & Environmental Chemists, Laboratory Testing Services.*

Units 14 + 15, River Road Business Park,  
33 River Road, Barking, Essex IG11 0EA

Directors: J. S. Warren, M.R.S.C., P. C. Warren, J. I. Pattinson, BSc (Hons), MSc  
Consultants: G. Evans, BSc., M.Sc., P.G. Dip., FGS., MEnvSc. A. J. Kingston, BSc C.Eng. MIMM  
F. J. Gibbs, F.I.B.M.S. F.I.F.S.T., F.R.S.H. K. J. Blanchette

Tel: 0208 594 8134

Fax: 0208 594 8072

E-Mail: [services@siteanalytical.co.uk](mailto:services@siteanalytical.co.uk)

Your Ref:

ORDER NO. PO-279460  
MATT MATKINS

Our Ref:

23/37157-1  
JSW/LB

**SAMPLE OF** 'BUILDING SAND'

**SUBMITTED BY** FERNS AGGREGATES LIMITED

**RECEIVED ON** 6<sup>th</sup> JULY 2023

## INTRODUCTION

A sample of the above material was received into the laboratory for determination of particle size distribution.

## RESULTS

The results obtained are presented on Table 1 and graphically attached.

**p.p. SITE ANALYTICAL SERVICES LIMITED**

10<sup>th</sup> July 2023

**J S Warren M.R.S.C.**  
**DIRECTOR**



Reg. Office: Units 14 +15, River Road Business Park,  
33 River Road, Barking, Essex IG11 0EA  
Business Reg. No. 2255616





Ref: 23/37157-1

Continuation 1

**TABLE 1**

**DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

<b>B.S. TEST SIEVE</b>		<b>% BY MASS PASSING</b>
2.0	mm	100
1.18	mm	99
1.00	mm	97
600	micron	92
500	micron	87
425	micron	80
300	micron	28
250	micron	16
212	micron	10
150	micron	3
125	micron	3
75	micron	1.9
63	micron	1.7
Moisture Content		2.4 % Dry Weight
Total Weight of Sample		33 kg

TESTED IN ACCORDANCE WITH BS EN 933-2 : 2020

**Site** : WROTHAM QUARRY

**Client** : FERNS AGGREGATES LIMITED

**Engineer:** DW

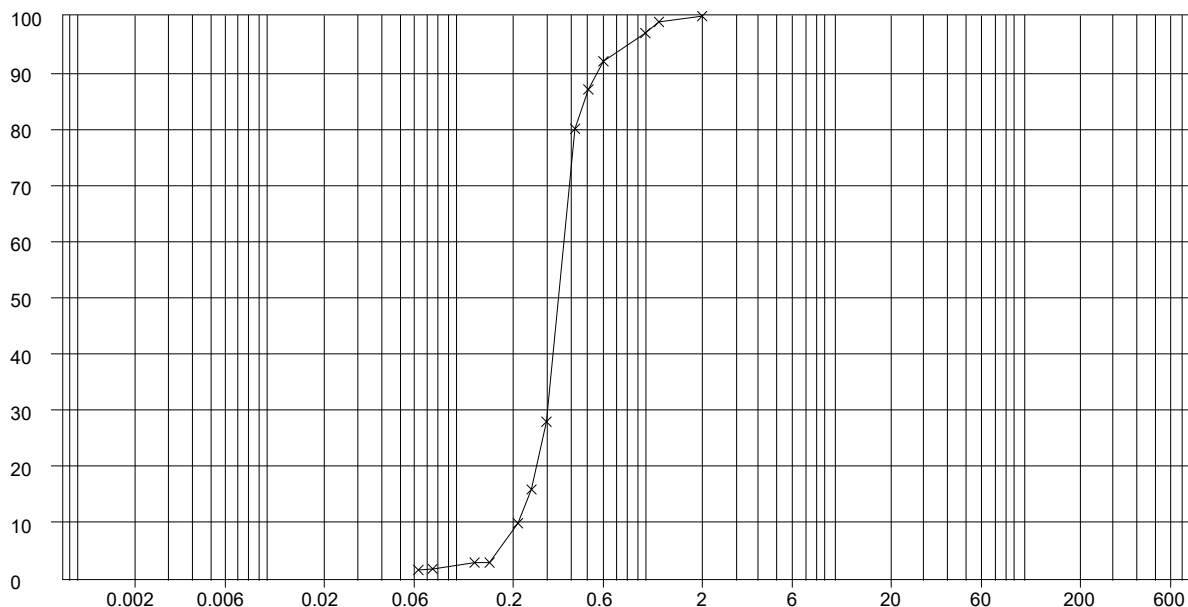
**Job Number**  
2337157

Sheet

2/3

## DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Trial Pit	Depth (m)	Sample	Laboratory Description
NA	0.00	Sand	



Sieve / Particle Size	% Passing
2 mm	100.0
1.18 mm	99.0
1 mm	97.0
600 µm	92.0
500 µm	87.0
425 µm	80.0
300 µm	28.0
250 µm	16.0
212 µm	10.0
150 µm	3.0
125 µm	3.0
75 µm	1.9
63 µm	1.7

CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

Grading Analysis	
D85	478.6 $\mu\text{m}$
D60	376.9 $\mu\text{m}$
D10	212.0 $\mu\text{m}$
Uniformity Coefficient	1.8

Particle Proportions	
Cobbles + Boulders	-
Gravel	-
Sand	98.3%
Silt	-
Clay	-

**Method of Preparation :** BS 1377:PART 1:1990:7.3 Initial preparation 1990:7.4.5 Particle size tests

**Method of Test** : BS 1377:PART 2:1990:9 Determination of particle size distribution

Remarks :