

APPENDIX 2.4.4
Particle Size Distribution Curves for Soil Samples
obtained from Drehid Site

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TIMAHOE SITE, CO. KILDARE

PARTICLE SIZE DISTRIBUTION RESULTS

Sample ID	GRAVEL %	SAND %	'FINES'		D ₁₀ (mm)	D ₆₀ (mm)	C _u	k# (cm/sec)
			SILT %	CLAY %				
TP 2	18	16	50	16	0.0012	0.037	30.8	8.64 x 10 ⁻⁷
TP 5	13	28	45	14	0.0013	0.065	50.0	1.01 x 10 ⁻⁶
TP 8	24	26	37	13	0.0014	0.23	164.3	1.18 x 10 ⁻⁶
TP 11	31	29	29	11	0.0016	0.61	381.3	1.54 x 10 ⁻⁶
TP 16	43	24	24	9	0.0025	2.9	1160.0	7.5 x 10 ⁻⁶
TP18	29	23	32	16	<0.001	0.3	>300.0	6.0 x 10 ⁻⁷

See accompanying Particle Size Distribution curves.

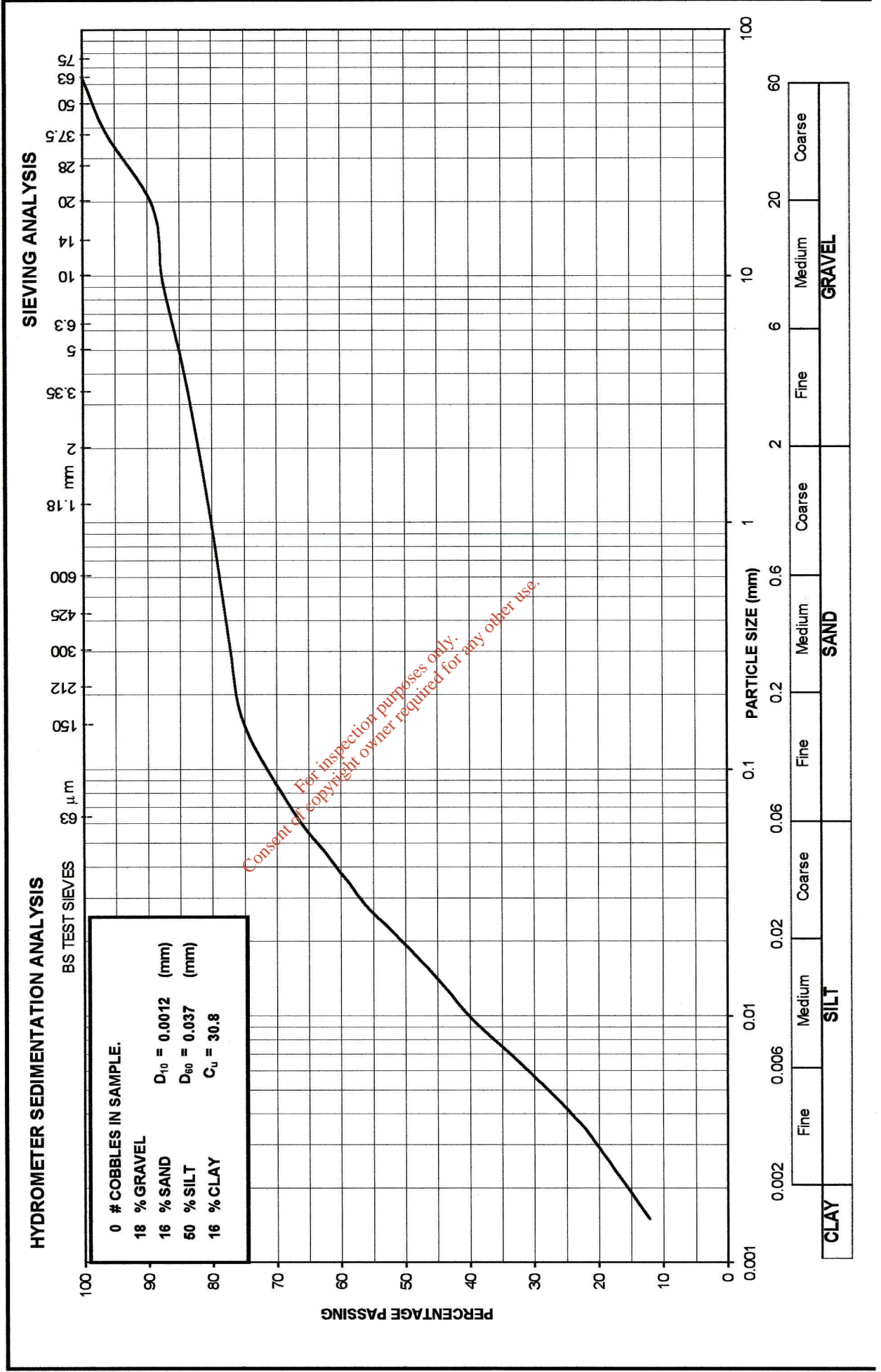
Values of k (hydraulic conductivity in cm/sec.) should be used only as a rough guide.

The literature indicates that the Hazen Formulae is only applicable for D₁₀ between 0.1 and 3.0mm. None of the samples have D₁₀ within this range.

PARTICLE SIZE DISTRIBUTION

CONTRACT: Timahoe Site, Co.Kildare.

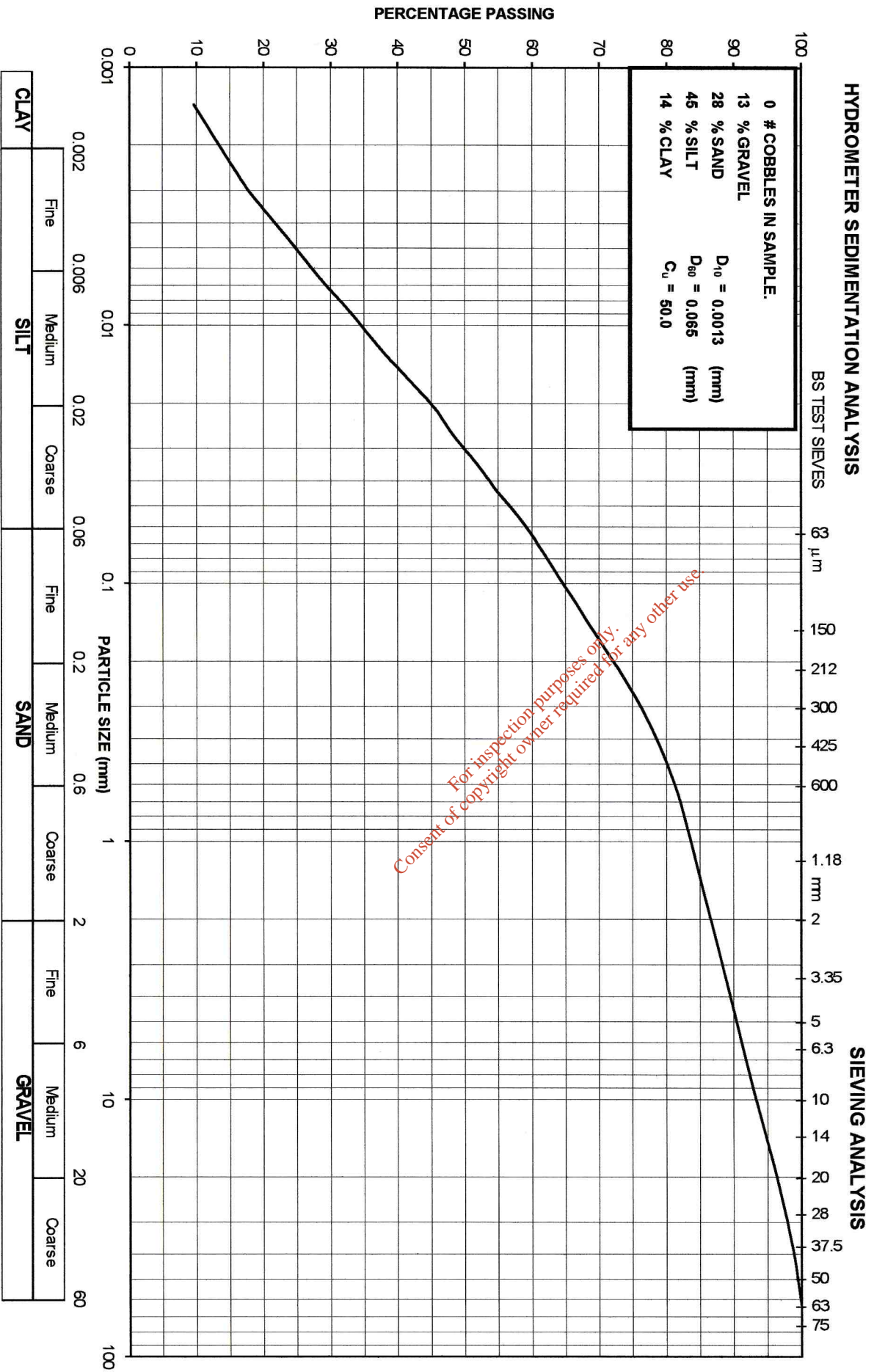
TRIAL PIT No.: 2
 SAMPLE TYPE: BULK



PARTICLE SIZE DISTRIBUTION

CONTRACT: Timahoe Site, Co. Kildare.

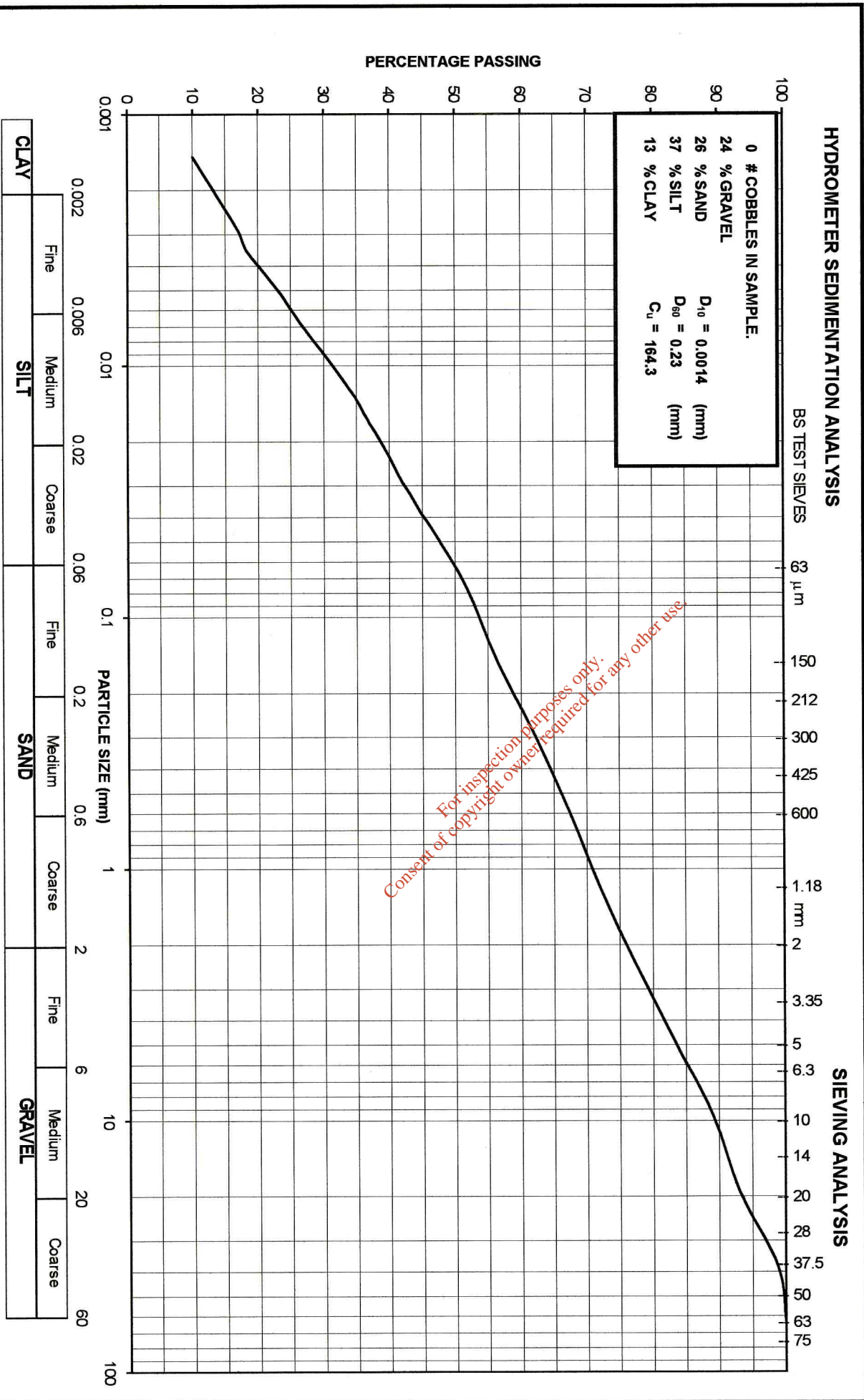
TRIAL PIT No.: 5
 SAMPLE TYPE: BULK



PARTICLE SIZE DISTRIBUTION

CONTRACT: Timahoe Site, Co. Kildare.

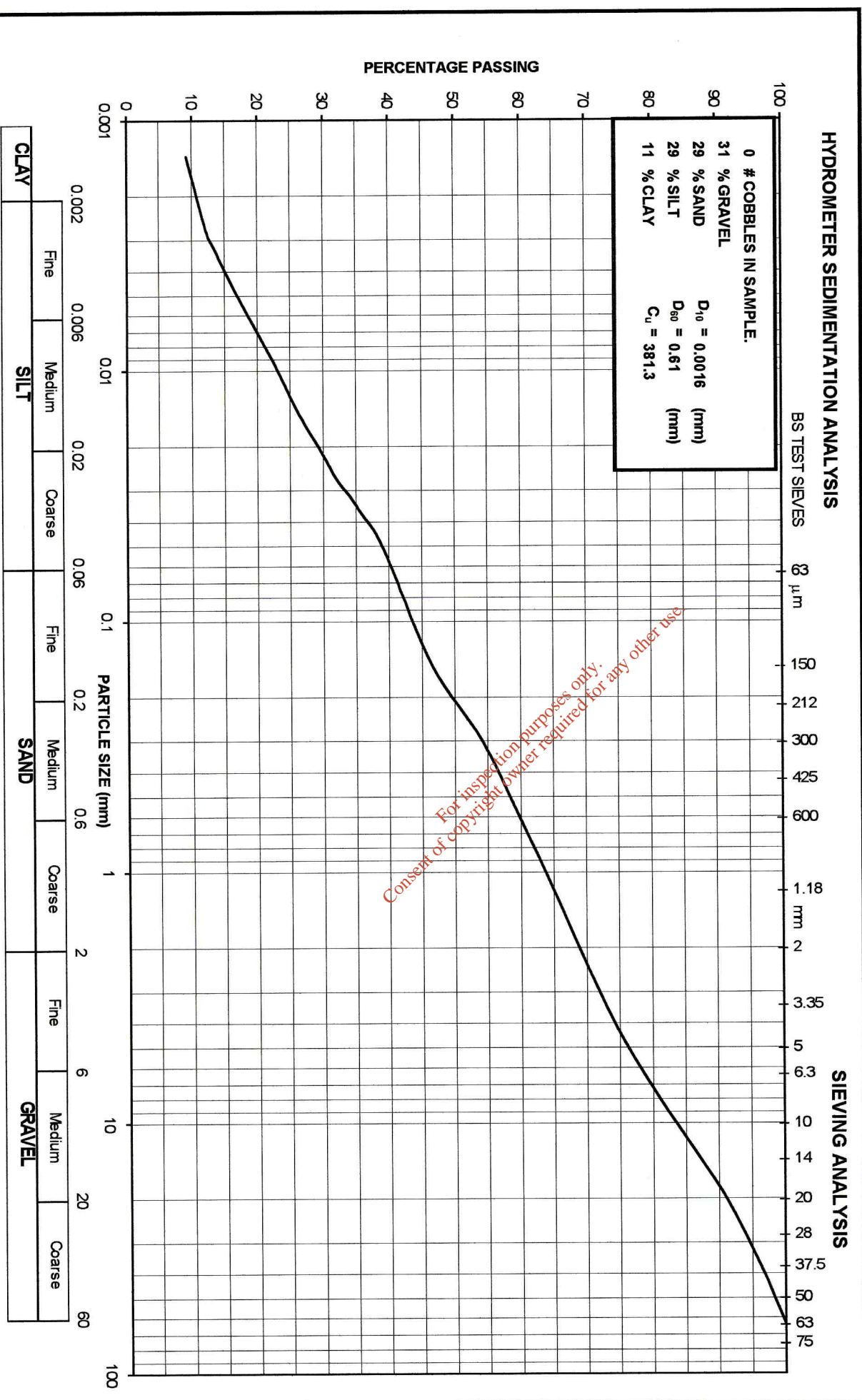
TRIAL PIT No.: 8
SAMPLE TYPE: BULK



PARTICLE SIZE DISTRIBUTION

CONTRACT: Timahoe Site, Co. Kildare.

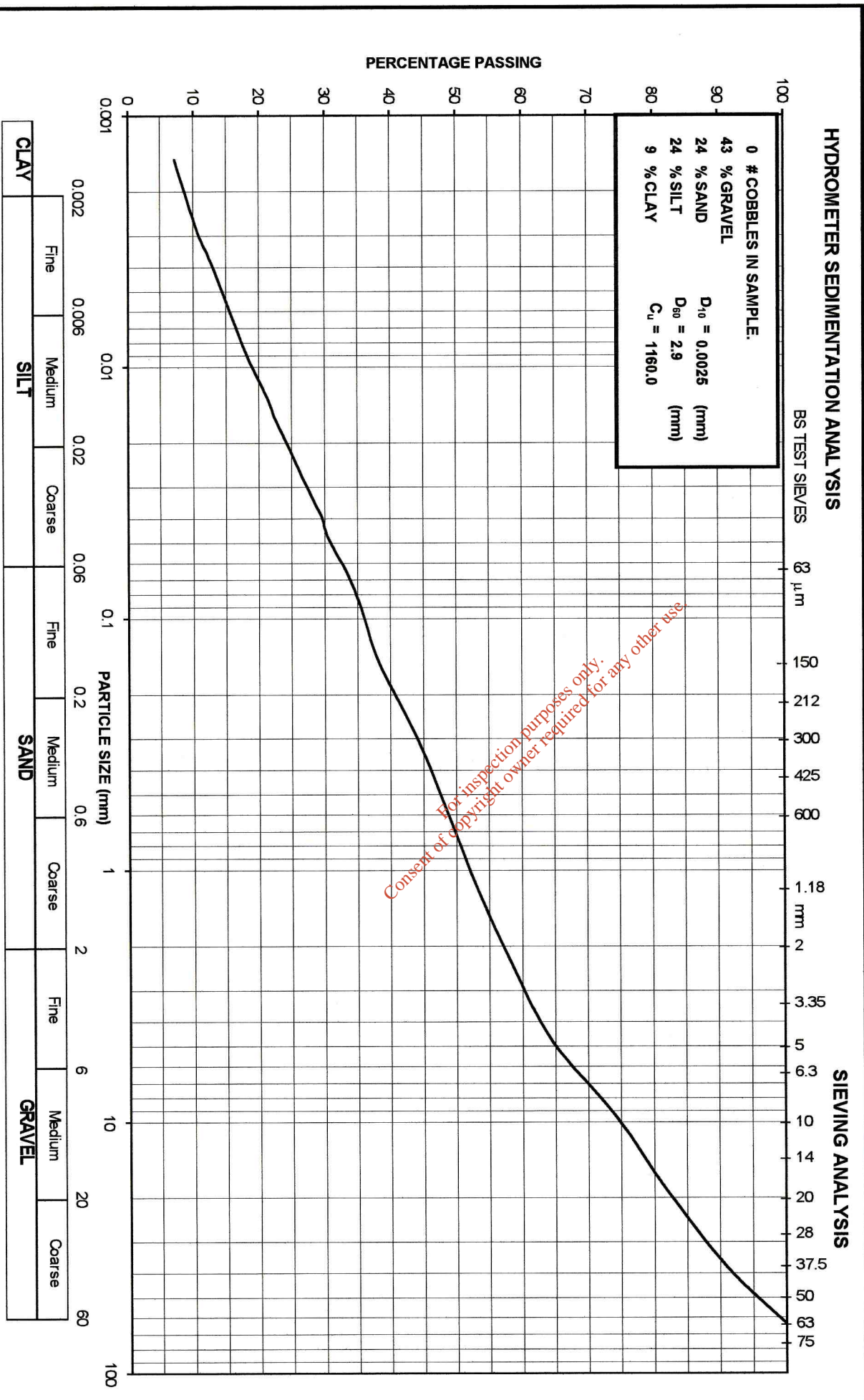
TRIAL PIT No.: 11
 SAMPLE TYPE: BULK



PARTICLE SIZE DISTRIBUTION

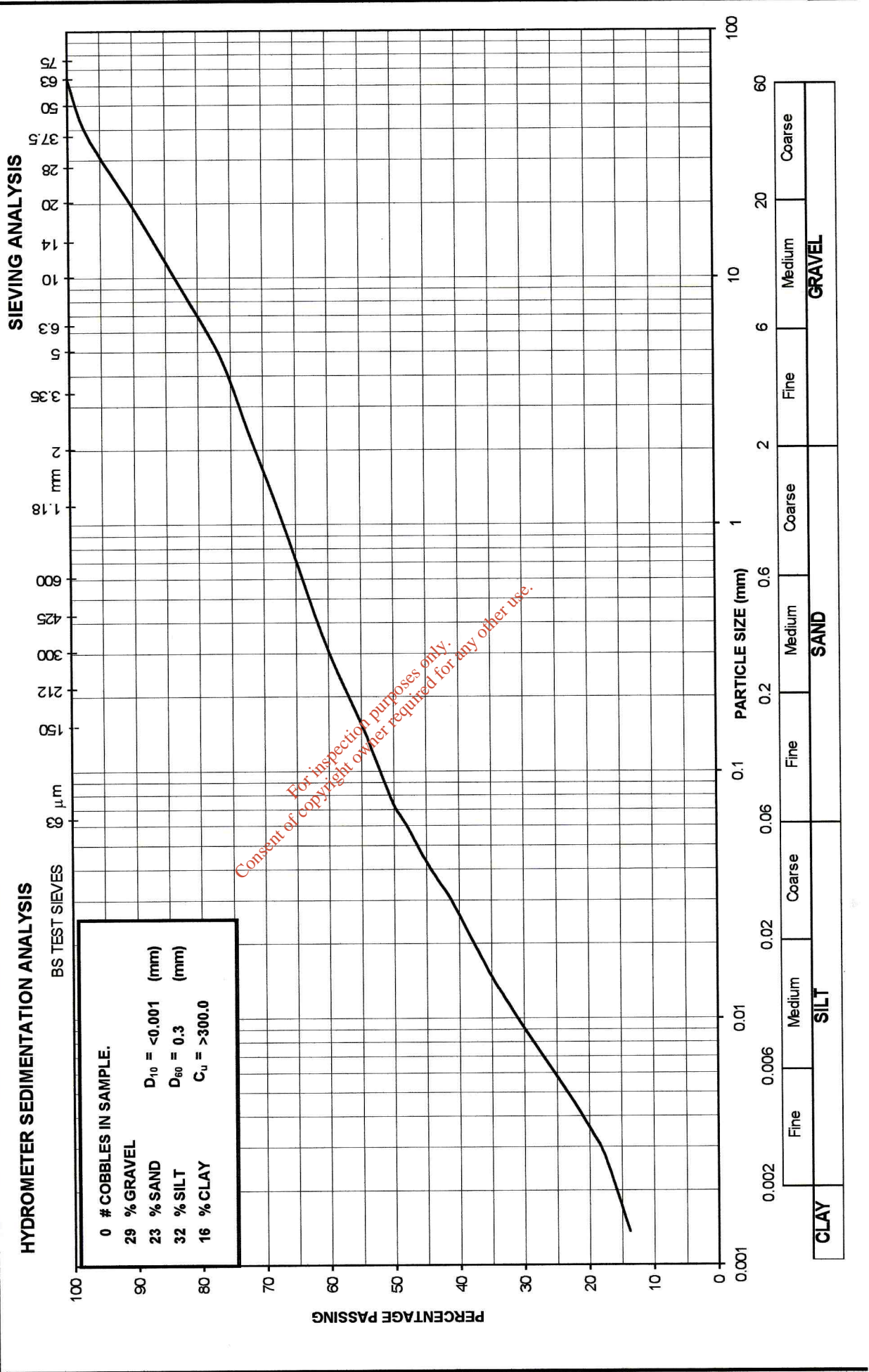
CONTRACT: Timahoe Site, Co. Kildare.

TRIAL PIT No.: 16
SAMPLE TYPE: BULK



PARTICLE SIZE DISTRIBUTION

CONTRACT: Timahoe Site, Co.Kildare.
 TRIAL PIT No.: 18
 SAMPLE TYPE: BULK

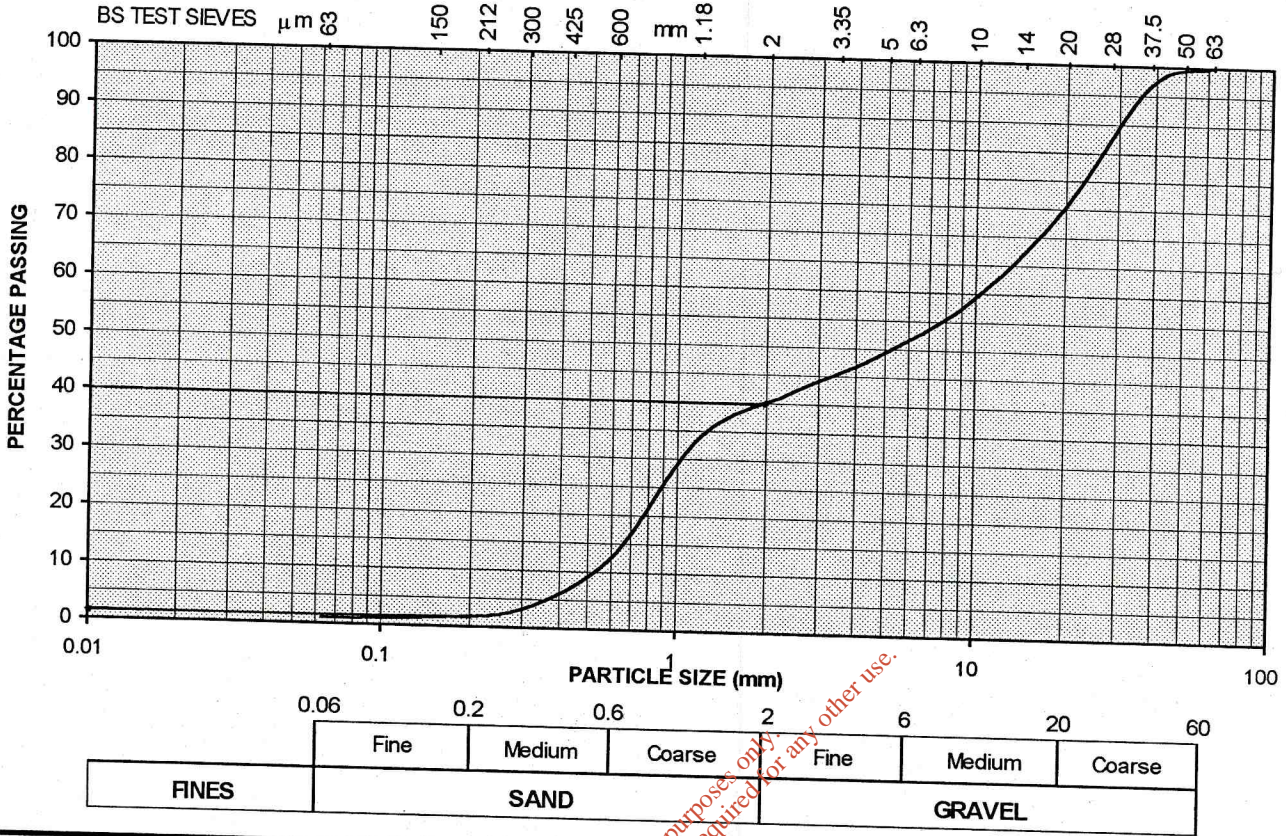


SIEVING ANALYSIS

CONTRACT: Timahoe Site.
TRIAL HOLE No.:

SAMPLE No.: THGV 1
SAMPLE DEPTH:

SIEVING ANALYSIS

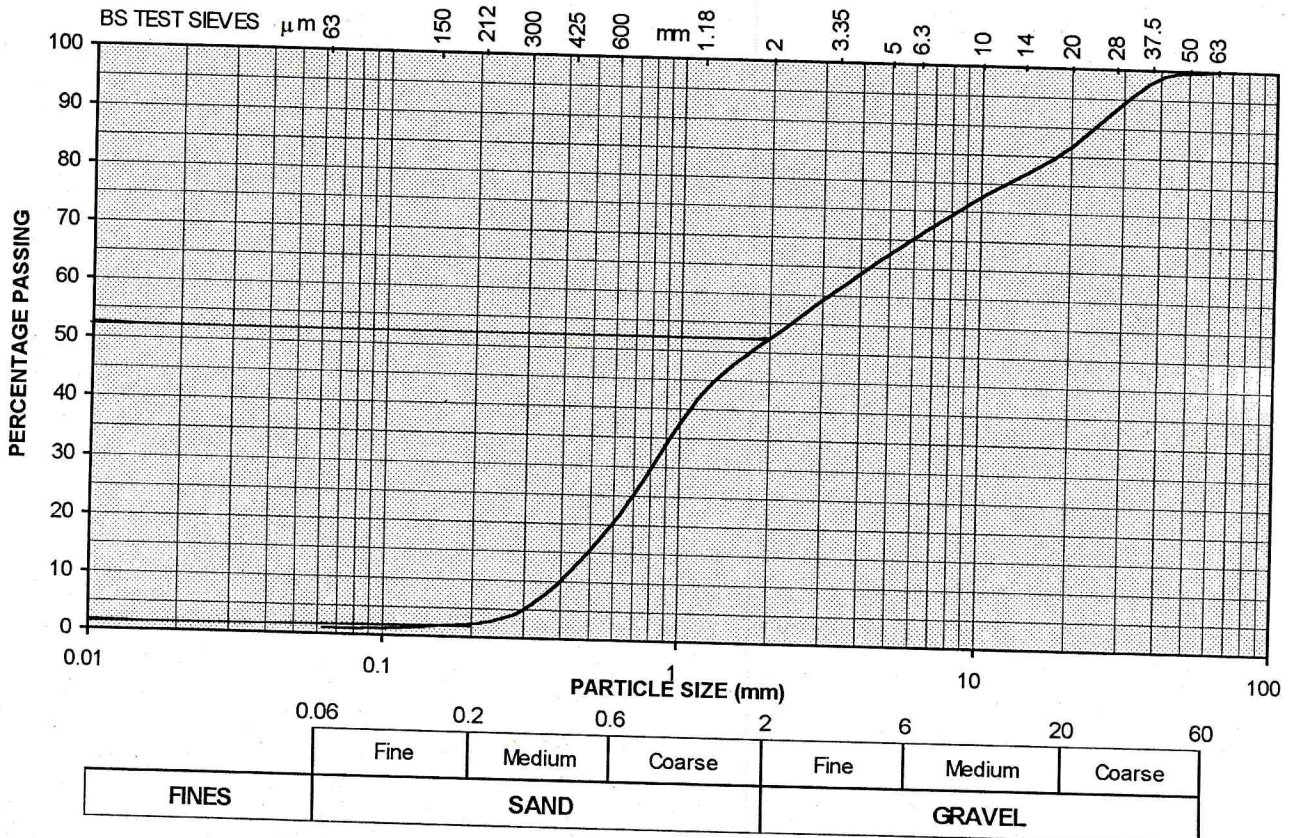


Tests 9.2 & 9.3 of BS 1377, Part 2 : 1990

CONTRACT: Timahoe Site.
TRIAL HOLE No.:

SAMPLE No.: THGV 2
SAMPLE DEPTH:

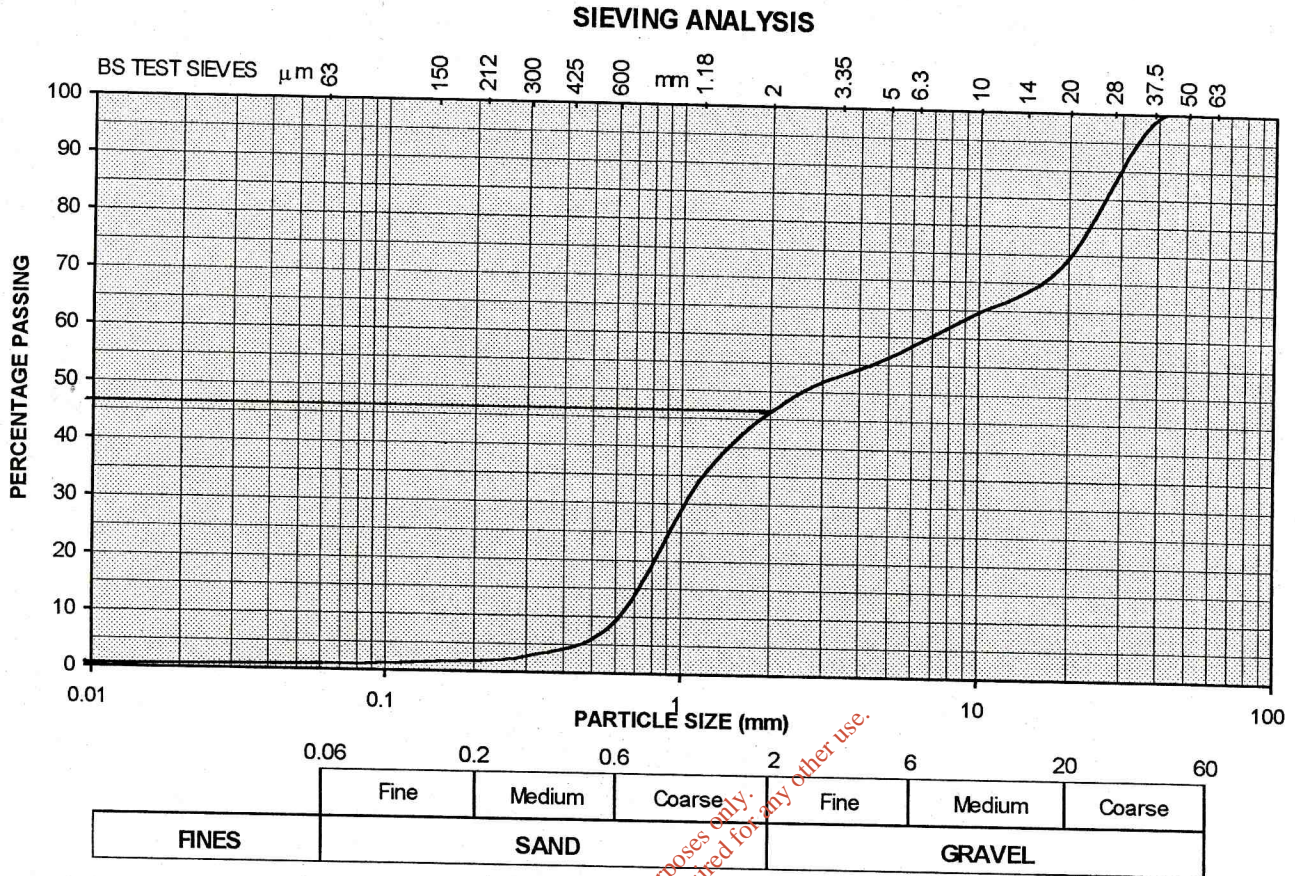
SIEVING ANALYSIS



SIEVING ANALYSIS

CONTRACT: Timahoe Site.
TRIAL HOLE No.:

SAMPLE No.: THGV 3
SAMPLE DEPTH:



Tests 9.2 & 9.3 of BS 1377: Part 2 : 1990

CONTRACT: Timahoe Site.
TRIAL HOLE No.:

SAMPLE No.: THGV 4
SAMPLE DEPTH:

