BRISBANE RIVER STUDY

PORT OF BRISBANE CORPORATION
A2642317
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RIVER BED CORING

Sept. 1978

551.354099432
QUEE
1978

NB

Coring was done from "Wyvern" using a vibrating corer loaned by HRS Wallingford. to obtain undisturbed samples of the bed of the river.
QIT analysed each core for Bulk Densities and Sieve Grading.

Locations of the cores are given at the end of his document.

WJB.

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PORT OF BRISBANE CORPORATION
LIBRARY

20th November, 1978

Mr. J. Bonnell
Port of Brisbane Authority
231 Turbot Street
BRISBANE, Q.

Dear Sir,

Please find attached results of tests which were carried out on your river mud samples as listed below, our reference CET 213.

1. Bulk density and moisture content on six samples.

2. Core samples.
   (14) Bore logs
   (29) Sieve analysis

Yours faithfully,

R. F. BANGE
Head, Civil Engineering Department

Received by PoBA on 27/11/78

w/13

NB ω = moisture content = $\frac{\text{weight of water}}{\text{weight of dry solids}} \times 100\%$

551.354099432
QUEE
1978
Copy 1

ALL CORRESPONDENCE TO BE ADDRESSED TO THE REGISTRAR

STORAGE

Record Control Number

3369

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study. Sheet: 30

Sample No. Tube 1A

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
630	(TOP OF RIVER BED)	
	Soft Grey Clay w: 35.5 %	1.81
775		
	Soft to firm Grey Clay w: 36.8 %	1.80
880		

REMARKS: _____

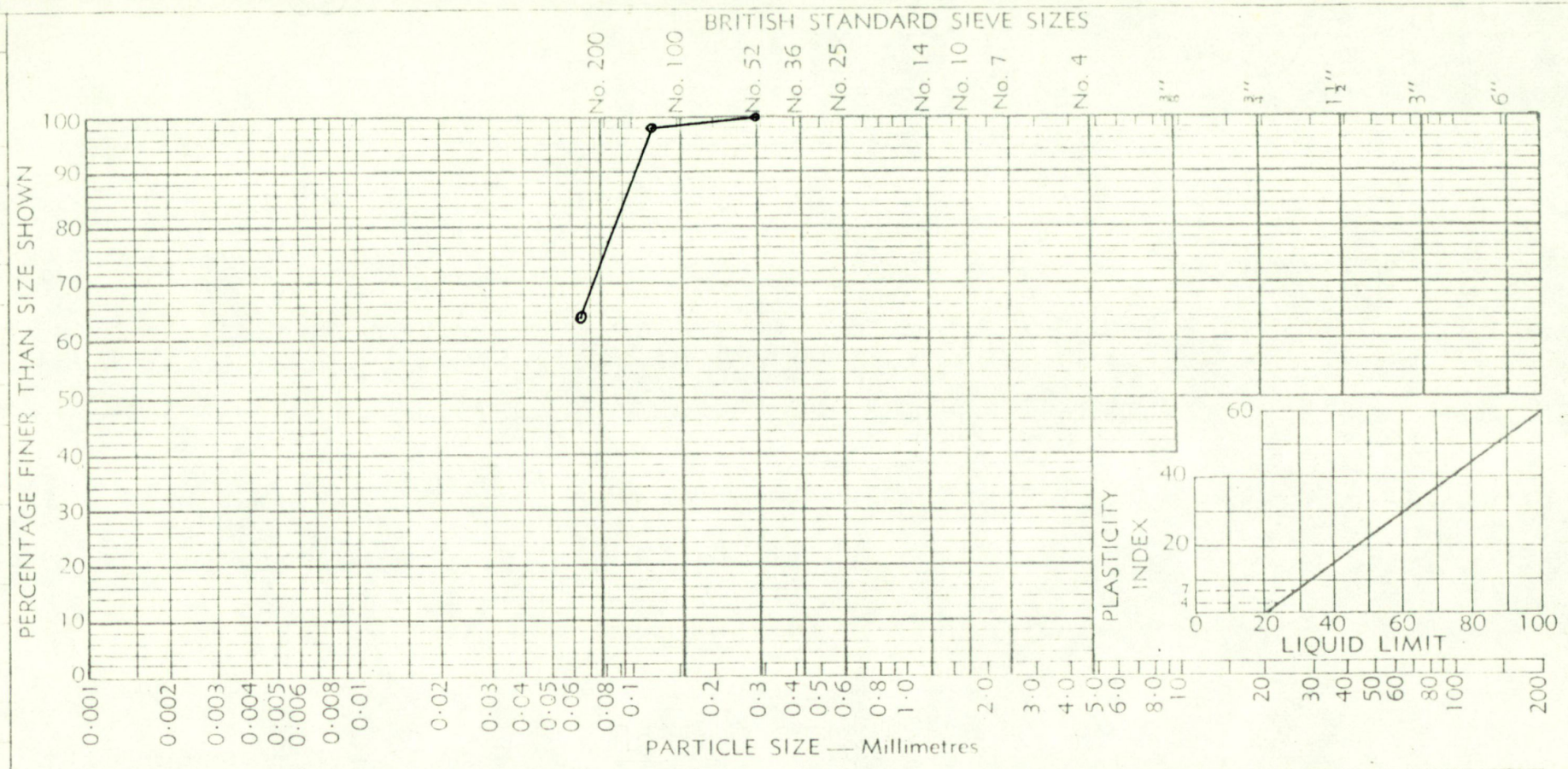
TESTED BY: D. Moore. CHECKED BY: BB

QUEENSLAND INSTITUTE OF TECHNOLOGY
SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 1 TESTED BY: D.R.M. SHEET: 1



ANAYLSIS

Sieve or Particle Size	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
300μm	100
150 "	98
63 "	64

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 1A 630 to 775 m.m.

Soft Grey Clay.

Remarks:

S.G. | Colour Wet | Checked by:

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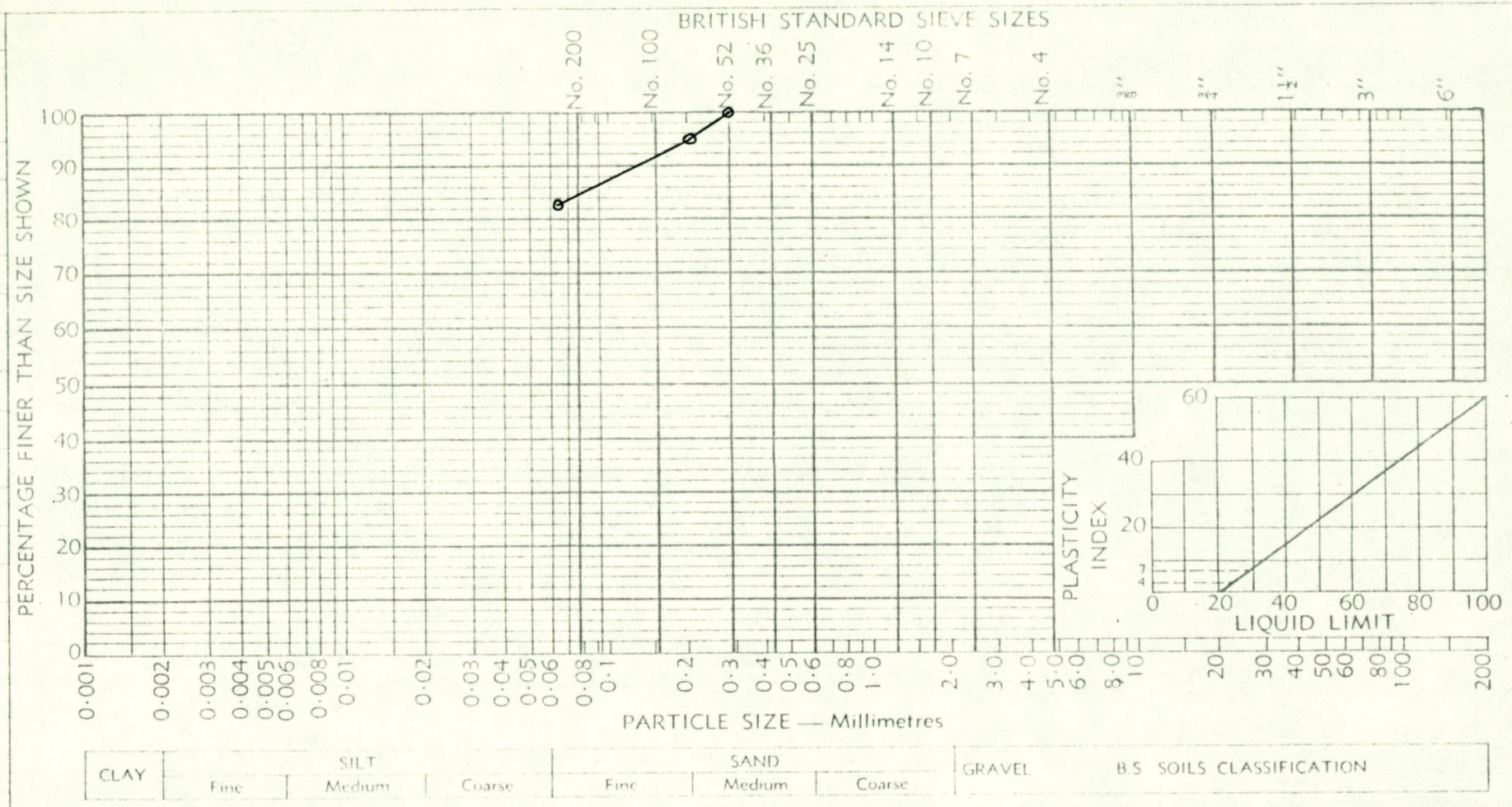
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 2/3 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 2 TESTED BY: D.R.M. SHEET: 2

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
≡ 300µm	100
0·0 150 "	95
0·0 63 "	83
0·0	
0·0	
0·0	
0·0	
0·0	



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S SOILS CLASSIFICATION

Liquid Limit (LL)	
Plastic Limit (PL)	
Plasticity Index (PI)	
Shrinkage (%)	
Effective Size (m m)	
Uniformity Coefficient (Cu.) $\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.) $\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification. Tube IA 775 to 880 m.m.

Soft to firm grey Clay.

Remarks:

S.G. | Colour Wet | Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study. Sheet: 31

Sample No. Tube IB.

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
185		
	Soft River Mud with small amounts of fine sand. w: 110.9%	1.23.
700		

REMARKS:

TESTED BY: D. Moore. CHECKED BY: RBR

QUEENSLAND INSTITUTE OF TECHNOLOGY
SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

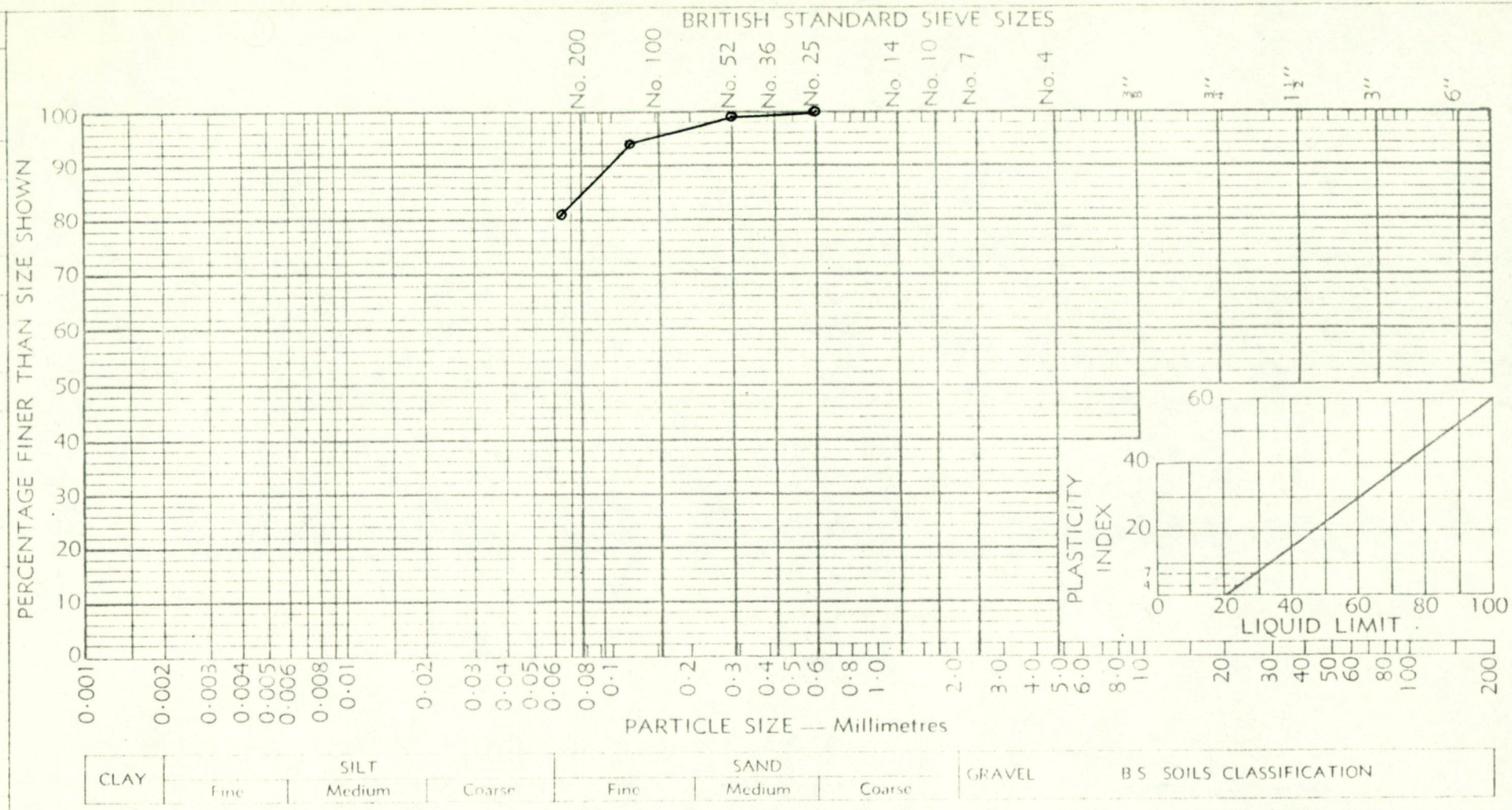
SOIL MECHANICS LABORATORY — SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 26.10.76

SAMPLE NO: 3 TESTED BY: D.R.M. SHEET: 3

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300"	99
150"	94
63"	81



CLAY	SILT			SAND			GRAVEL
	Fine	Medium	Coarse	Fine	Medium	Coarse	

BS SOILS CLASSIFICATION

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 1B 185 to 700 m.m.

Soft River Mud with small amount of fine sand.

Remarks:

S.G | Colour Wet | Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27·10·78.

Clients Reference F-1-12 Brisbane River Study. Sheet: 32

Sample No. Tube 2

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty.	
220		
	Sand - fine to medium.	1·86
	w: 34·3%	
248		
	Soft Black Clay.	1·68
	w: 58·3%.	
828		

REMARKS: _____

TESTED BY: _____ CHECKED BY: _____

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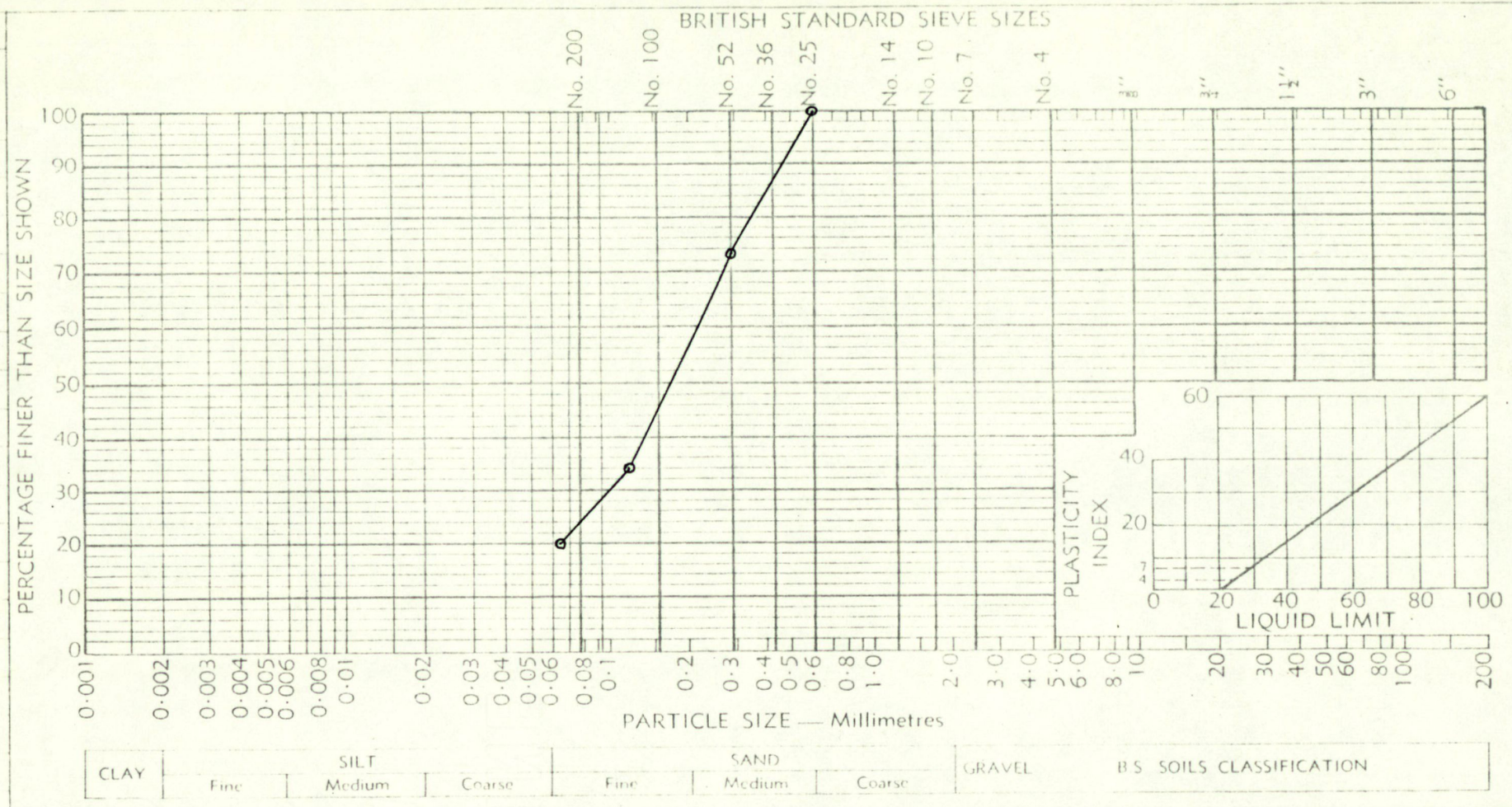
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CERT 213 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 4 TESTED BY: D.R.M. SHEET: 4



ANAYLSIS	
Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300 "	73
150 "	34
63 "	20
0·0	
0·0	
0·0	
0·0	

Liquid Limit (LL)	
Plastic Limit (PL)	
Plasticity Index (PI)	
Shrinkage (%)	
Effective Size (m.m.)	
Uniformity Coefficient (Cu.) $\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.) $\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 2 220 to 248 m.m.

Sand. - fine to medium.

Remarks:

S.G | Colour Wet | Checked by:

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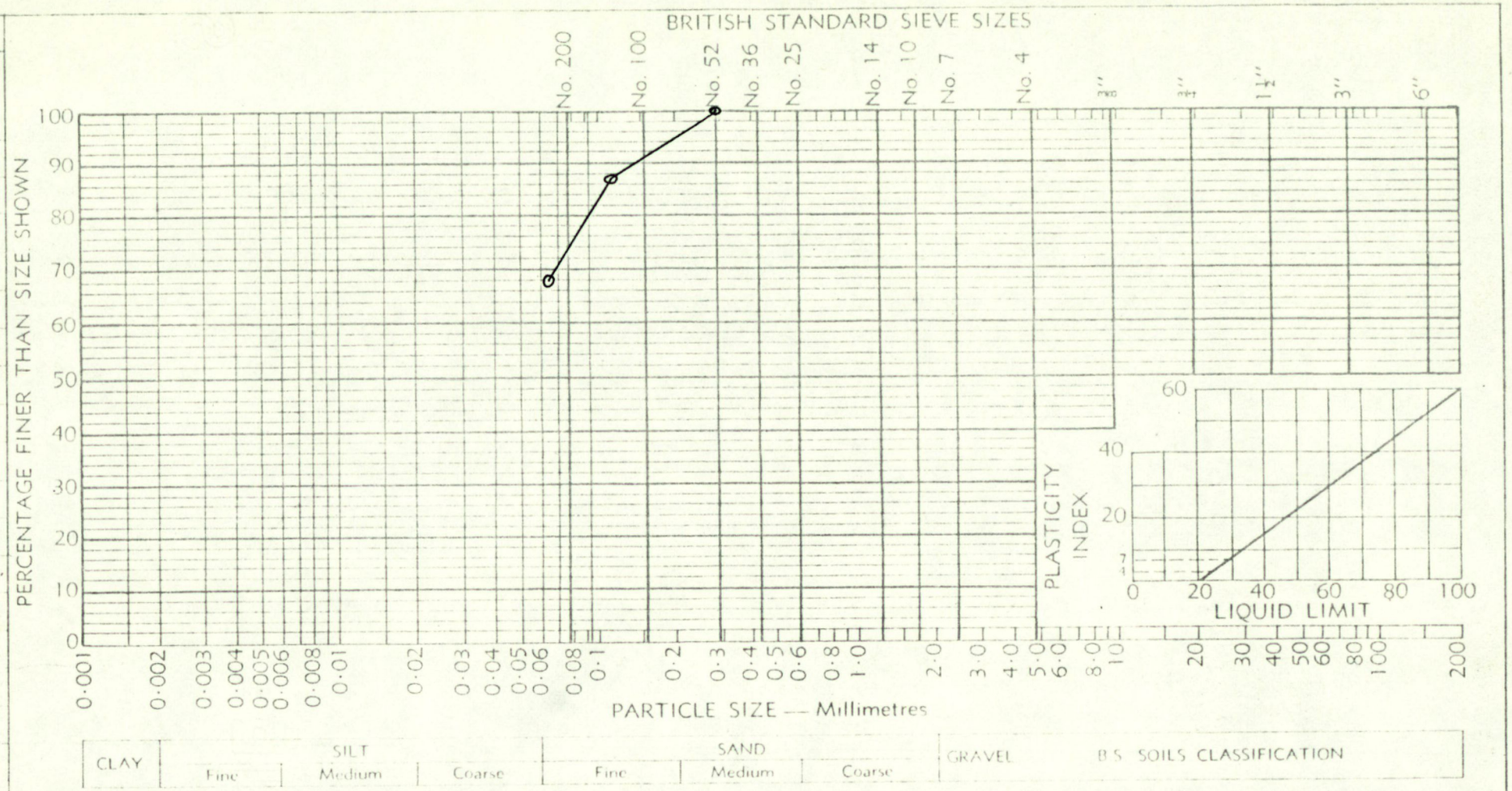
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 5 TESTED BY: D.R.M. SHEET: 5

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
# 300 µm	100
# 150 "	87
# 63 "	68
0·0	
0·0	
0·0	
0·0	
0·0	



CLAY	SILT			SAND			GRAVEL	B.S. SOILS CLASSIFICATION
	Fine	Medium	Coarse	Fine	Medium	Coarse		

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 2 248 to 828 m.m.

Soft Black Clay.

Remarks:

S.G. | Colour Wet | Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27·10·78

Clients Reference F-1-12 Brisbane River Study. Sheet: 33

Sample No. Tube 3

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
390		
	Sand - fine to Medium w : 35·1 %	1·93
600		
	Sand - fine to Medium w : 30·1 %	1·97
765		
	Sand - fine to medium w : 41·1 %	*
885		

REMARKS: * Sand too loose to obtain bulk density.

TESTED BY: [signature] CHECKED BY: [signature]

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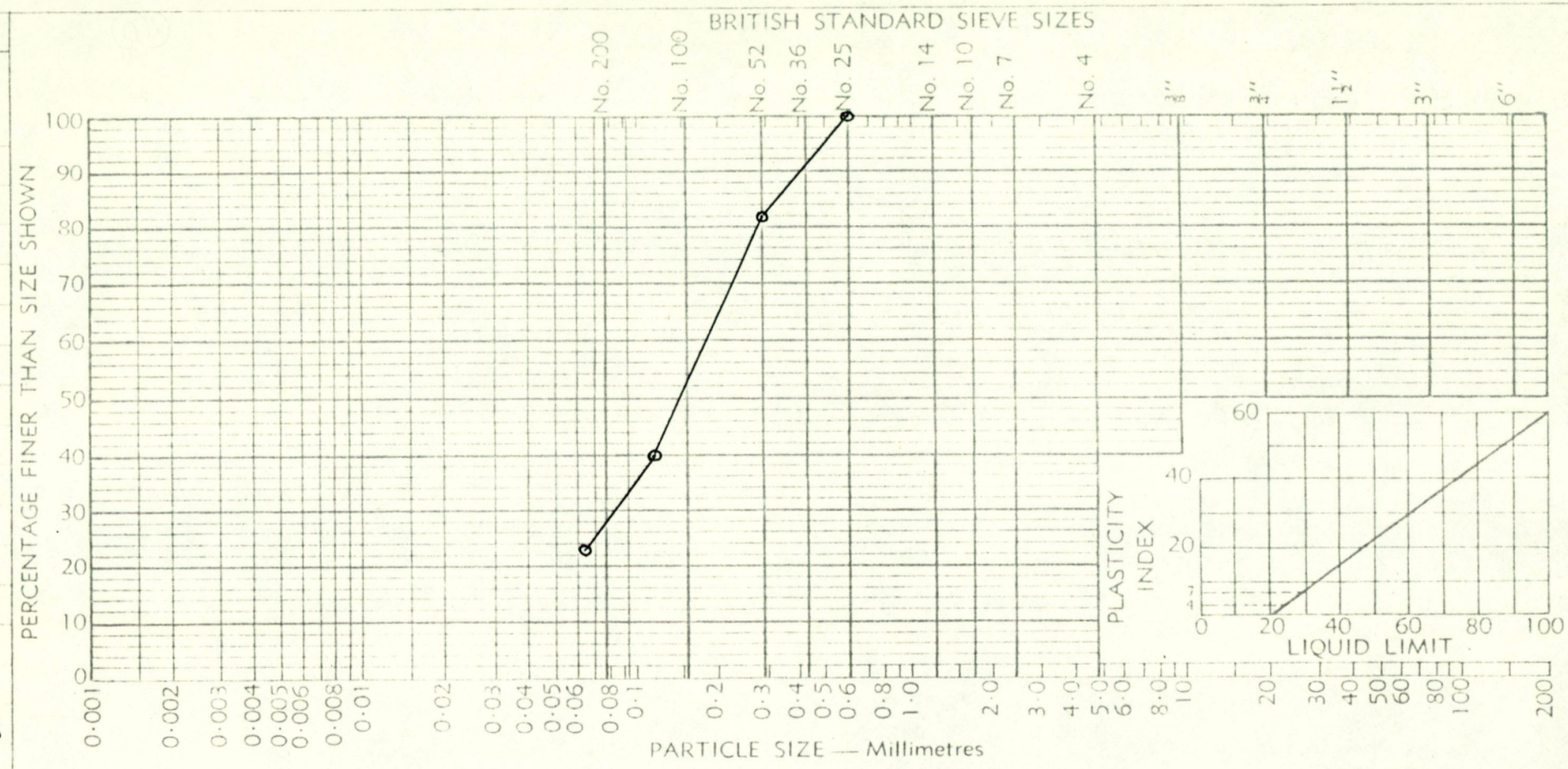
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 6 TESTED BY: D.R.M. SHEET: 6

BRITISH STANDARD SIEVE SIZES



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	82
150 "	40
63 "	23

Liquid Limit	(LL)	0·0
Plastic Limit	(PL)	0·0
Plasticity Index	(PI)	0·0
Shrinkage	(%)	
Effective Size	(m.m.)	0·0
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 3 390 to 600 m.m.

Sand - fine to medium.

Remarks:

S.G. | Colour Wet | Checked by:

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SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 2/3 PROJECT: Brt of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 7 TESTED BY: D.R.M. SHEET: 7

BRITISH STANDARD SIEVE SIZES

PERCENTAGE FINER THAN SIZE SHOWN

PARTICLE SIZE — Millimetres

PLASTICITY INDEX

LIQUID LIMIT

CLAY	SILT			SAND			GRAVEL	B.S. SOILS CLASSIFICATION
	Fine	Medium	Coarse	Fine	Medium	Coarse		

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	76
150 "	19
63 "	7

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 3 600 to 765 m.m.

. Sand. - fine to Medium

Remarks:

S G | Colour Wet | Checked by:

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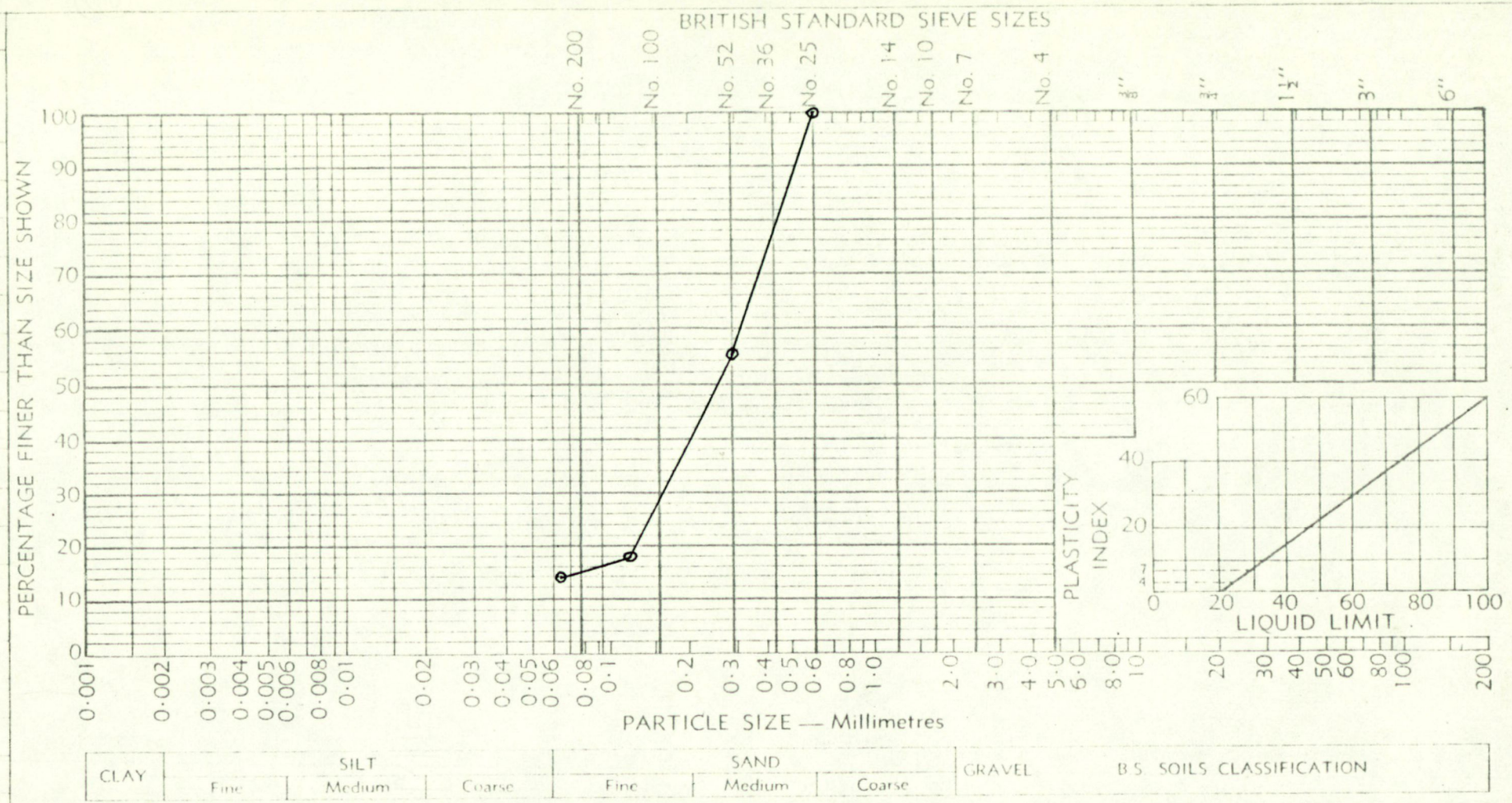
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 2/3 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 8 TESTED BY: D.R.M. SHEET: 8.

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300 "	55
150 "	18
63 "	14
0·0	
0·0	
0·0	
0·0	



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(mm)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification. Tube 3 765 to 885 m.m.

Sand - fine to medium.

Remarks:

S.G Colour Wet: Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12. Brisbane River Study. Sheet: 34

Sample No. Tube 4

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty.	
240		
	Soft River Mud with fine Sand. w: 114.0%	1.30
660		

REMARKS: _____

TESTED BY: D. moar CHECKED BY: [signature]

QUEENSLAND INSTITUTE OF TECHNOLOGY
SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

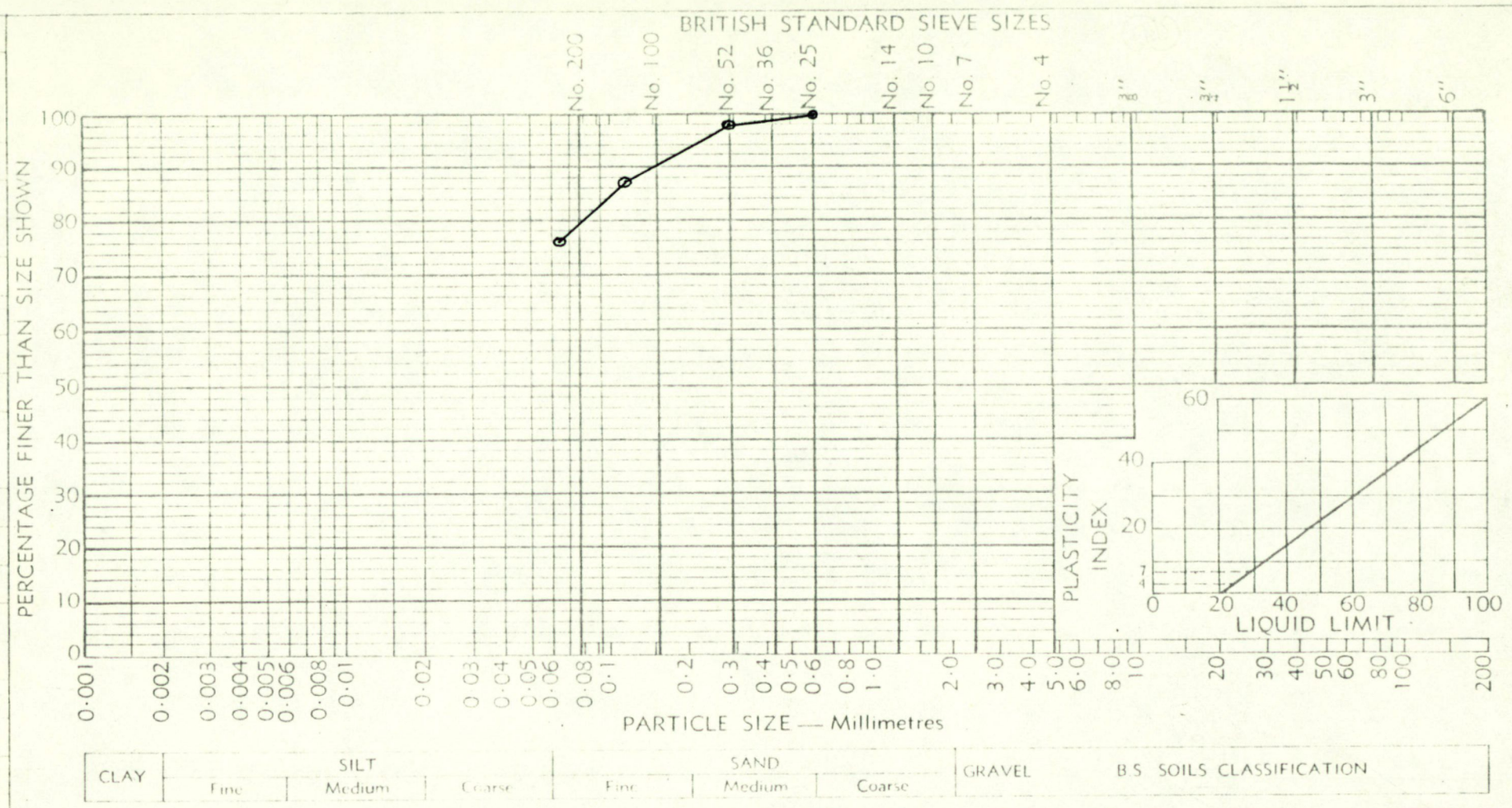
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

JOB NO: 213 PROJECT: Port of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 9 TESTED BY: D.R.M. SHEET: 9

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300µm	98
150 "	87
63 "	76



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 4 240 to 660 m.m.

Soft River Mud with fine Sand.

Remarks:

S.G. Colour Wet Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27·10·78

Clients Reference F-1-12 Brisbane River Study. Sheet: 35

Sample No. Tube 5

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty.	
240	Soft River Mud w: 105·3%	1·38
500	Soft Black Clay w: 65·1%	1·69
650		

REMARKS: _____

TESTED BY: D. Moore. CHECKED BY: _____

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SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 231 PROJECT: Brt of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 10 TESTED BY: D.R.M. SHEET: 10

BRITISH STANDARD SIEVE SIZES

PERCENTAGE FINER THAN SIZE SHOWN

PARTICLE SIZE — Millimetres

PLASTICITY INDEX

LIQUID LIMIT

CLAY	SILT			SAND			GRAVEL	B.S SOILS CLASSIFICATION
	Fine	Medium	Coarse	Fine	Medium	Coarse		

ANAYLSIS	
Sieve or Particle Size B.S	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
≡ 300μm	100
≡ 150 "	95
≡ 63 "	83

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 5 240 to 500 m.m.

Soft River Mud.

Remarks:

S.G | Colour Wet | Checked by:

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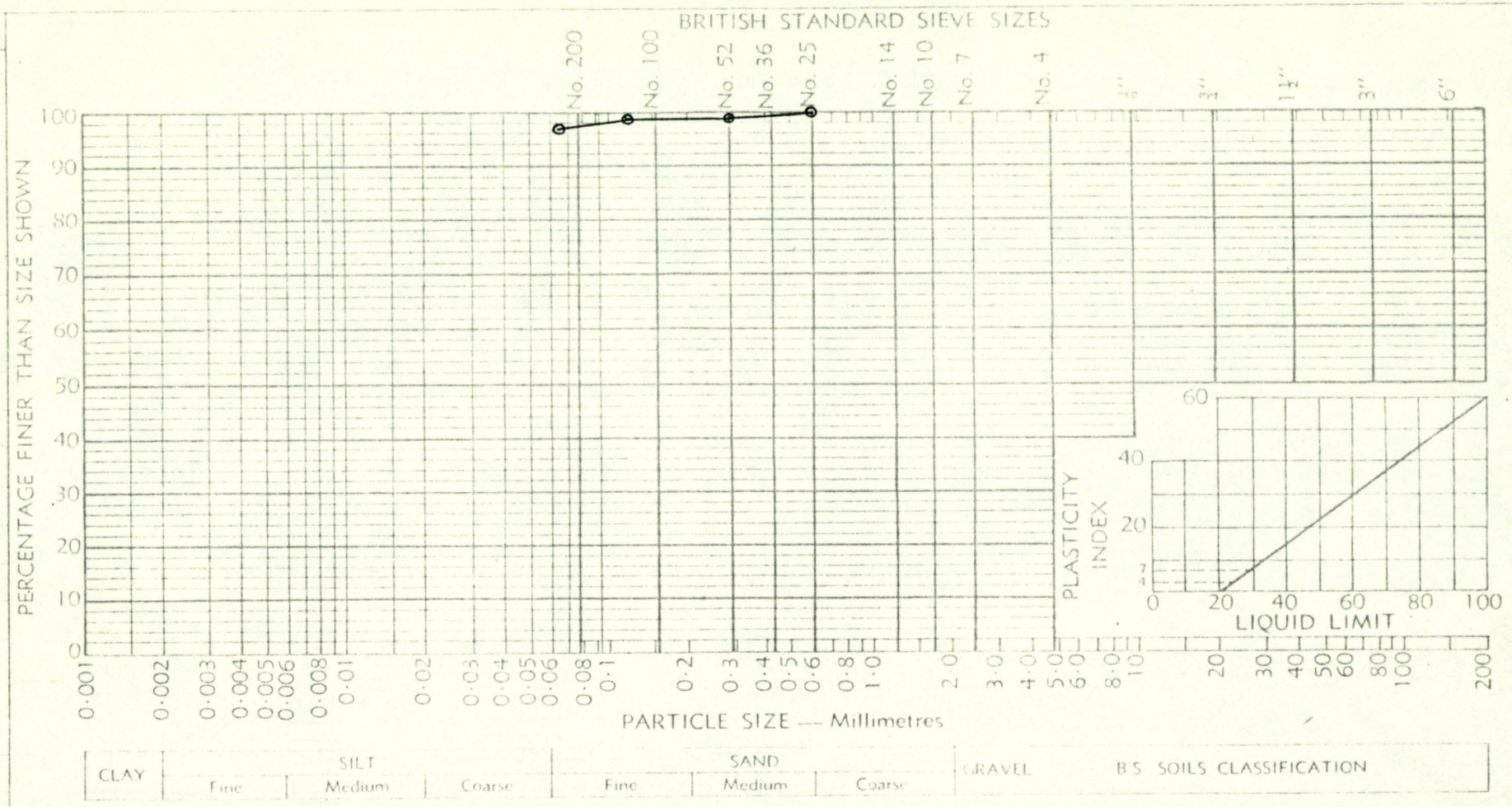
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

TEST No: 213 PROJECT: Brt of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 11 TESTED BY: D.R.M. SHEET: 11

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300 "	99
150 "	99
63 "	97



CLAY	SILT			SAND			GRAVEL	B.S. SOILS CLASSIFICATION
	Fine	Medium	Coarse	Fine	Medium	Coarse		

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

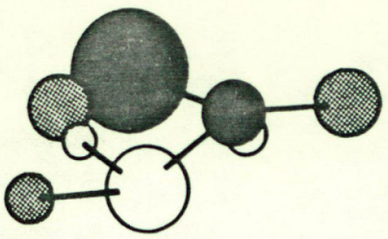
GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 5 500 to 650 m.m.

Soft Black Clay.

Remarks:

S.G. | Colour Wet | Checked by:



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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27·10·78

Clients Reference F-1-12 Brisbane River Study. Sheet: 36

Sample No. Tube 6

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Soft Black Sandy Clay. w: 53·5 %	1·88
220		
	Soft Black Clay w: 57·1 %	1·73
875		

REMARKS:

TESTED BY: D. Moore. CHECKED BY:

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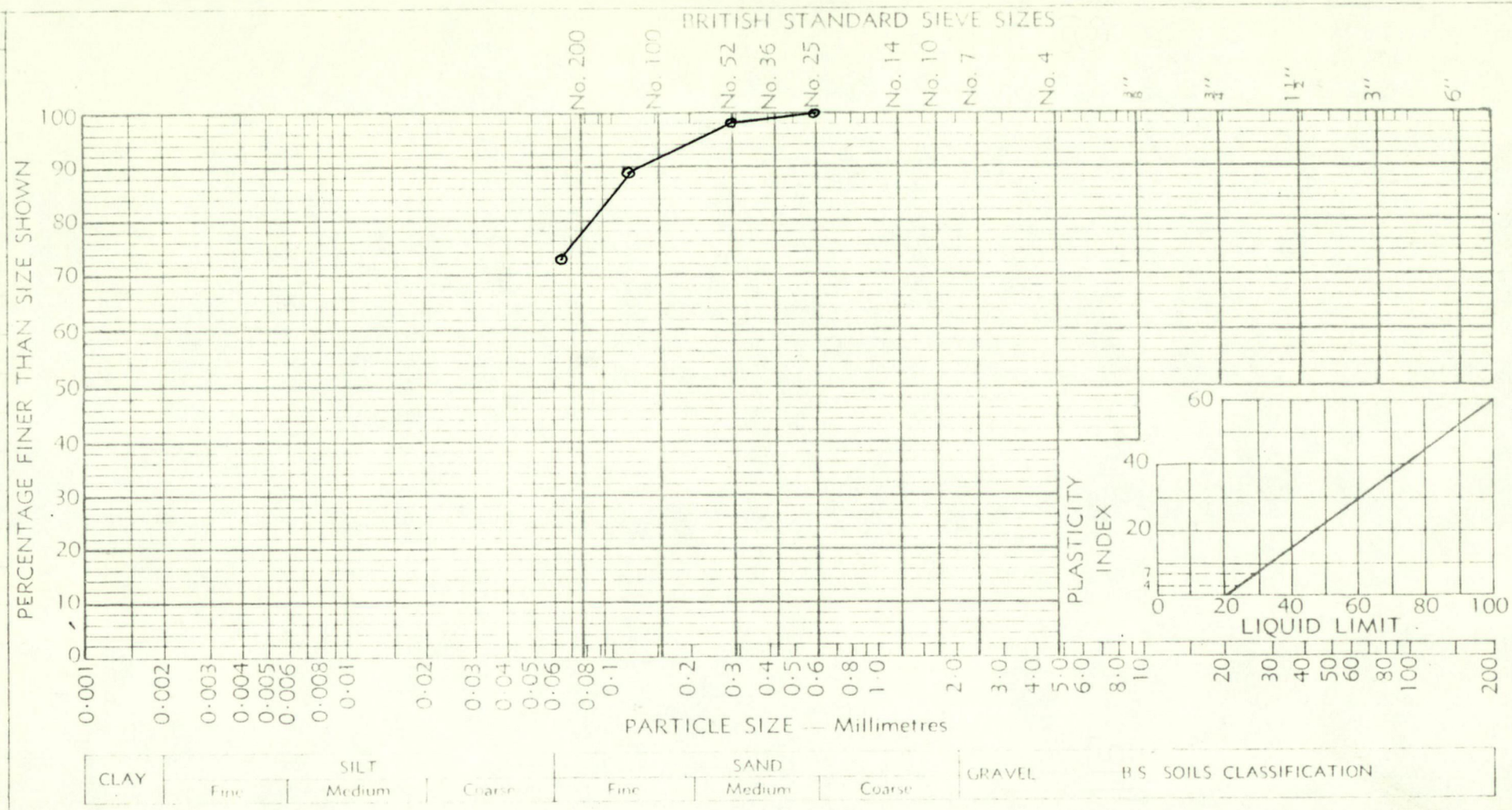
SOIL MECHANICS LABORATORY - PARTICLE SIZE CLASSIFICATION

JOB 213 PROJECT: Port of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 12 TESTED BY: D.R.M. SHEET: 12

ANAYLESIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
⅜"	
⅝"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300 "	98
150 "	89
63 "	73



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	BS SOILS CLASSIFICATION

Liquid Limit	(LL)
Plastic Limit	(PL)
Plasticity Index	(PI)
Shrinkage	(%)
Effective Size	(m m)
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 6 0 to 220 m.m.

Soft Black Sandy Clay.

Remarks:

S G | Colour Wet | Checked by:

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SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CCT 2/3 PROJECT: Port of Brisbane Authority. DATE: 26.10.76

SAMPLE NO: 13 TESTED BY: D.R.M. SHEET: 13

ANALYSIS

Sieve Size	% Passing
6"	
3"	
1½"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
300μm	100
150 "	99
63 "	93
0·0	
0·0	
0·0	
0·0	
0·0	

BRITISH STANDARD SIEVE SIZES

No 200 No 100 No 52 No 36 No 25 No 14 No 10 No 7 No 4 ⅜" ¾" 1½" 3" 6"

PERCENTAGE FINER THAN SIZE SHOWN

100 90 80 70 60 50 40 30 20 10 0

0·001 0·002 0·003 0·004 0·005 0·006 0·008 0·01 0·02 0·03 0·04 0·05 0·06 0·08 0·1 0·2 0·3 0·4 0·5 0·6 0·8 1·0 2·0 3·0 4·0 5·0 6·0 8·0 10 20 30 40 50 60 80 100 200

PARTICLE SIZE — Millimetres

PLASTICITY INDEX

60 40 20 4·7 0 20 40 60 80 100

LIQUID LIMIT

CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 6 220 to 875 m.m.

Soft Black Clay.

Remarks:

S.G. | Colour Wet | Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study. Sheet: 37

Sample No. Tube 7

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
45		
	Very Soft River Mud. w: 47.2 %	*
355		
	Soft River Mud. w: 143.5 %	1.26
695		
	Fine Sand and River Mud. w: 45.7 %	1.59
850		

REMARKS: * Sample too soft to obtain bulk density.

TESTED BY: D. Moore. CHECKED BY:

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SOIL TESTING LABORATORY - SOIL CLASSIFICATION

CED 213 PROJECT: Port of Brisbane Authority. DATE: 26.10.78

SAMPLE NO: 14 TESTED BY: D.R.M. SHEET: 14

ANAYLSIS

Sieve or Particle Size	% Passing
600µm	100
300 "	96
150 "	85
63 "	75

BRITISH STANDARD SIEVE SIZES

No. 200 No. 100 No. 52 No. 36 No. 25 No. 14 No. 10 No. 7 No. 4 ⅜" ½" ¾" 1½" 3" 6"

PERCENTAGE FINER THAN SIZE SHOWN

PARTICLE SIZE — Millimetres

PLASTICITY INDEX

LIQUID LIMIT

CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m m)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification. Tube 7 45 to 355 m.m.

Very Soft River Mud.

Remarks:

S.G. | Colour Wet | Checked by:

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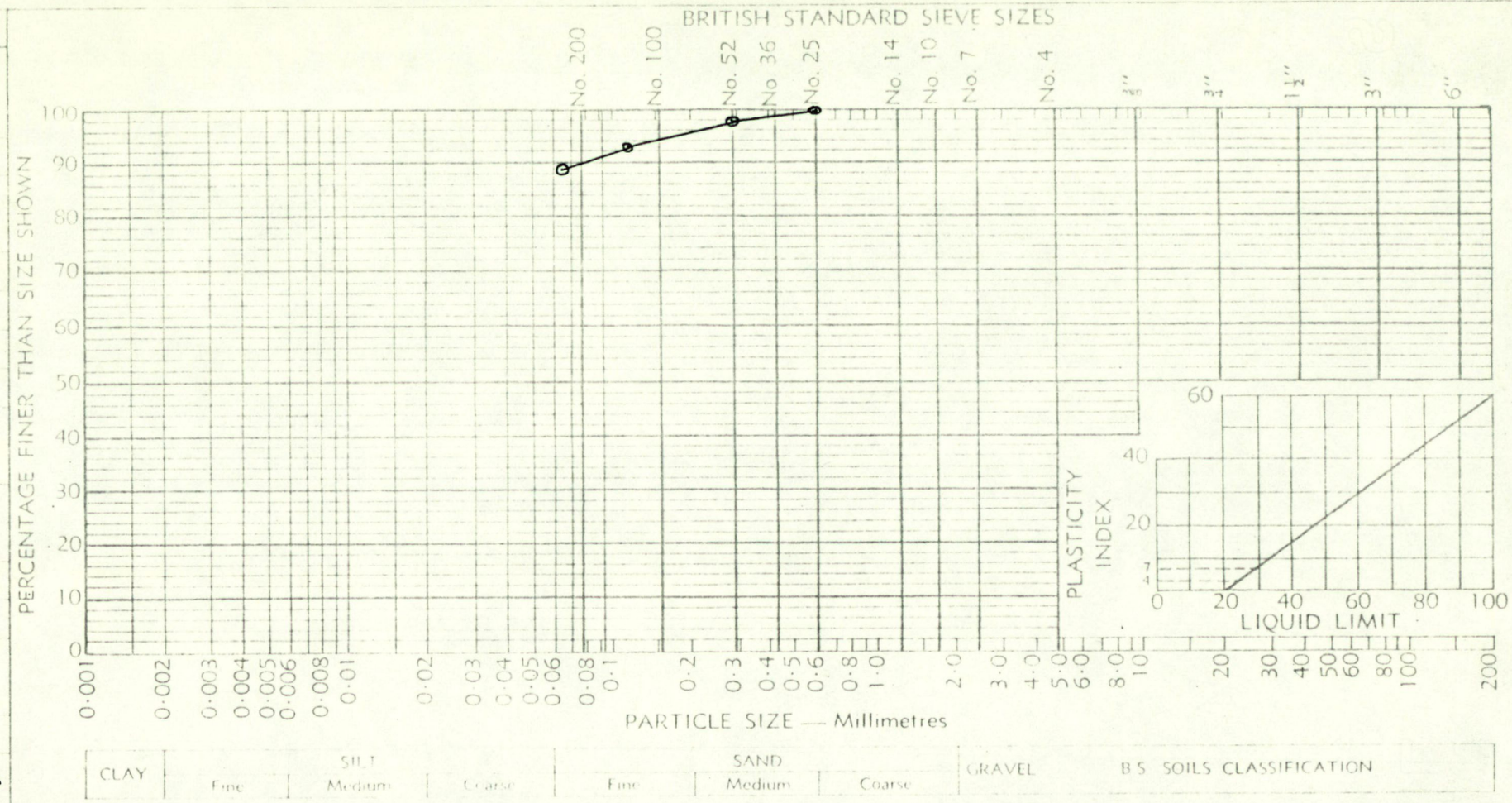
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CST 213 PROJECT: Port of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 15 TESTED BY: D.R.M. SHEET: 15

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
# 600µm	100
# 300 "	98
# 150 "	93
# 63 "	89
0·0	
0·0	
0·0	
0·0	



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 7 355 to 695 m.m.

Soft River Mud

Remarks:

S.G. | Colour Wet | Checked by:

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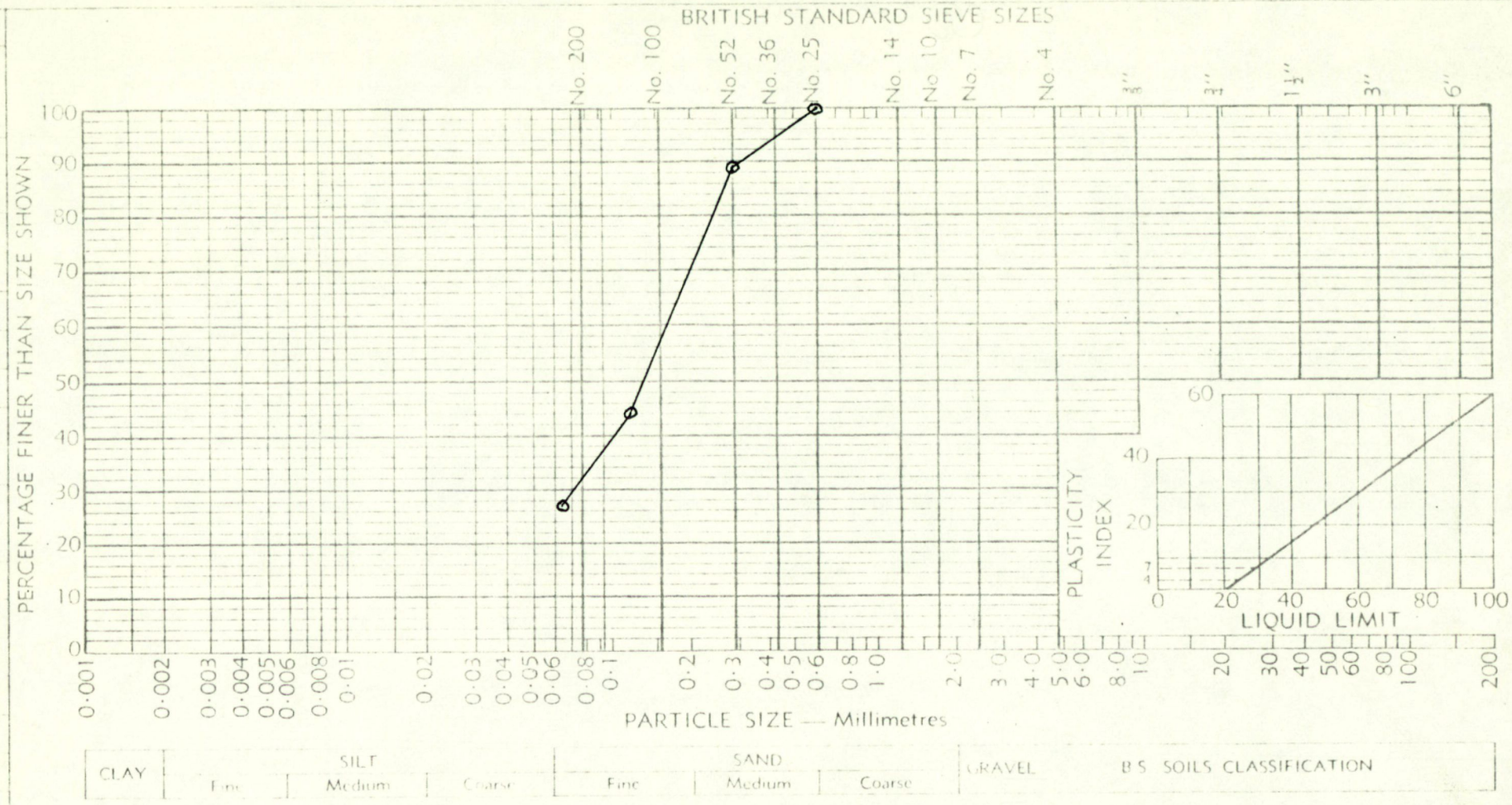
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 26.10.78

SAMPLE NO: 16 TESTED BY: D.R.M. SHEET: 16

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300 "	89
150 "	44
63 "	27



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 7 695 to 850 m.m.

Fine Sand and River Mud.

Remarks:

S.G. Colour Wet Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study. Sheet: 38

Sample No. Tube 8

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube empty	
110		
	River Mud and Fine Sand. w: 72.7%	1.68
410		
	Fine to medium Sand. w: 20.9%	1.92
755		
	River Mud and Fine Sand. w: 65.9 %	1.50
785		

REMARKS: _____

TESTED BY: DRmoore. CHECKED BY: _____

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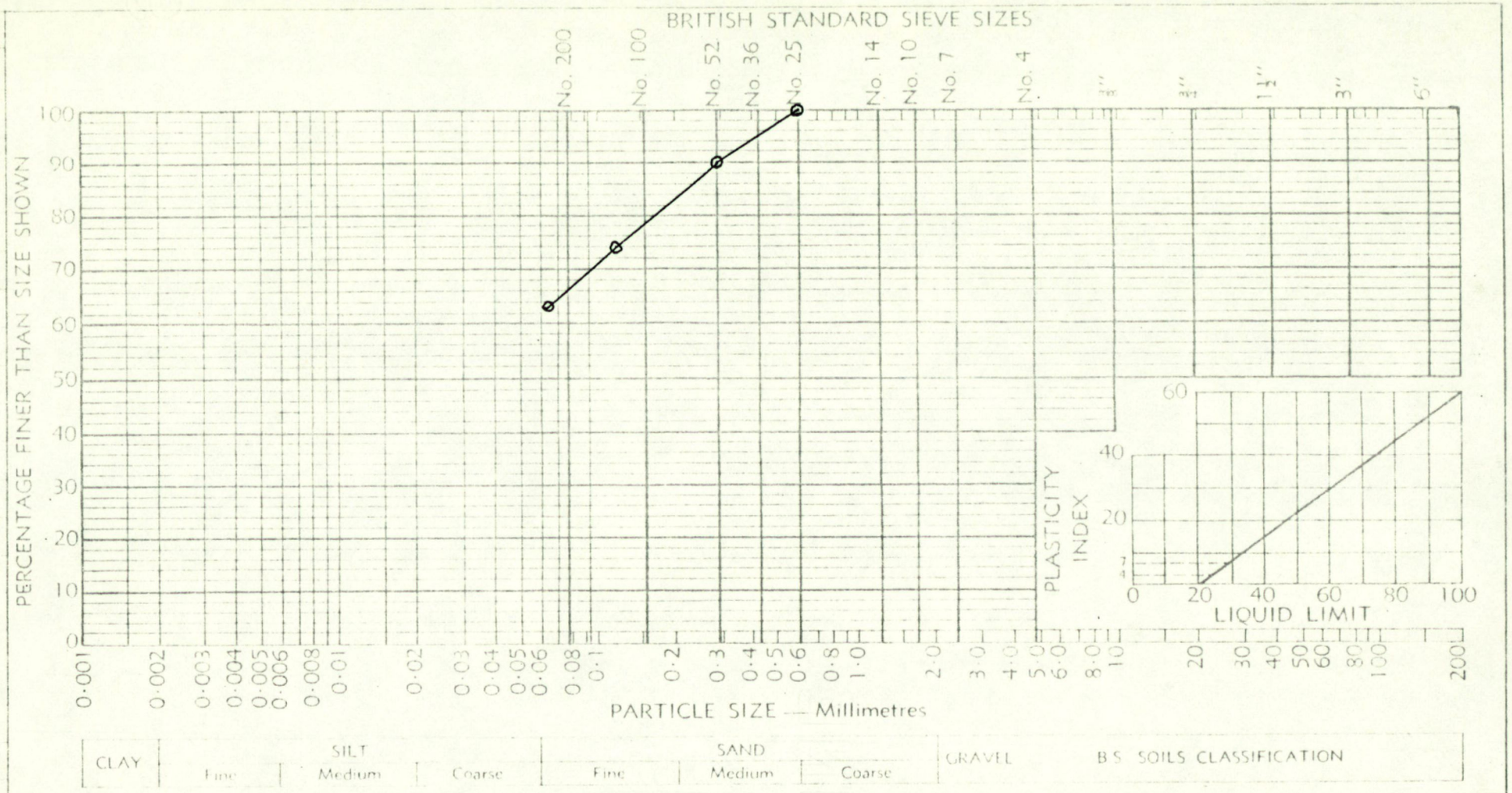
SOIL MECHANICS LABORATORY - PARTICLE SIZE CLASSIFICATION

JOB 213 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 17 TESTED BY: D.R.M. SHEET: 17

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 μm	100
300 "	90
150 "	74
63 "	66
0·0	
0·0	
0·0	
0·0	



Liquid Limit	(LL)
Plastic Limit	(PL)
Plasticity Index	(PI)
Shrinkage	(%)
Effective Size	(m.m.)
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification. Tube 8 110 to 410 m.m.

River Mud with fine Sand.

Remarks:

S.G | Colour Wet | Checked by:

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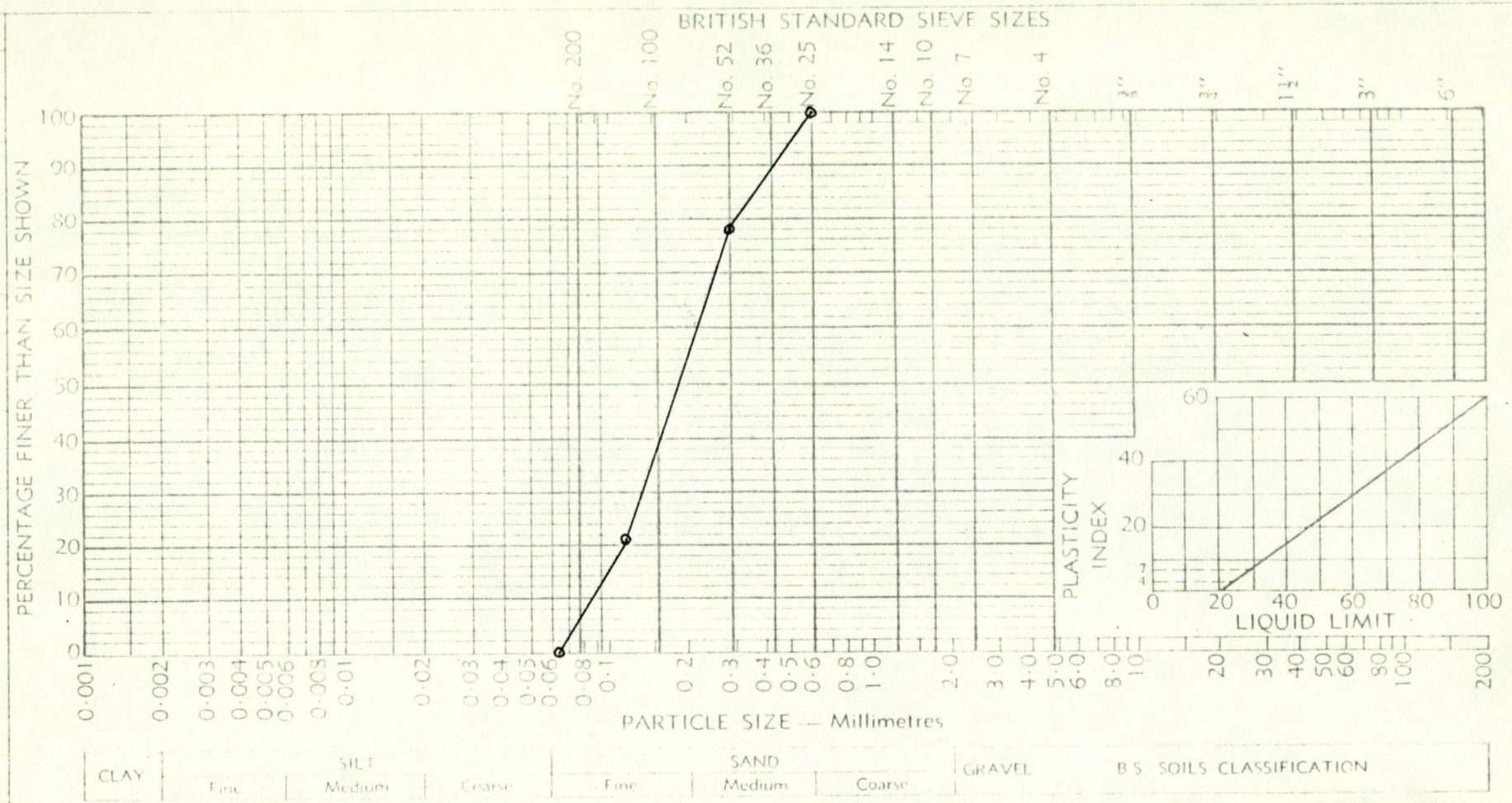
SOIL MECHANICS LABORATORY — PARTICLE SIZE CLASSIFICATION

JOB NO: 2/3 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 18 TESTED BY: D.R.M. SHEET: 18

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	78
150 "	21
63 "	0
0·0	
0·0	
0·0	
0·0	



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 8 410 to 755 m.m.

Fine to Medium Sand.

Remarks:

S.G. | Colour Wet | Checked by:

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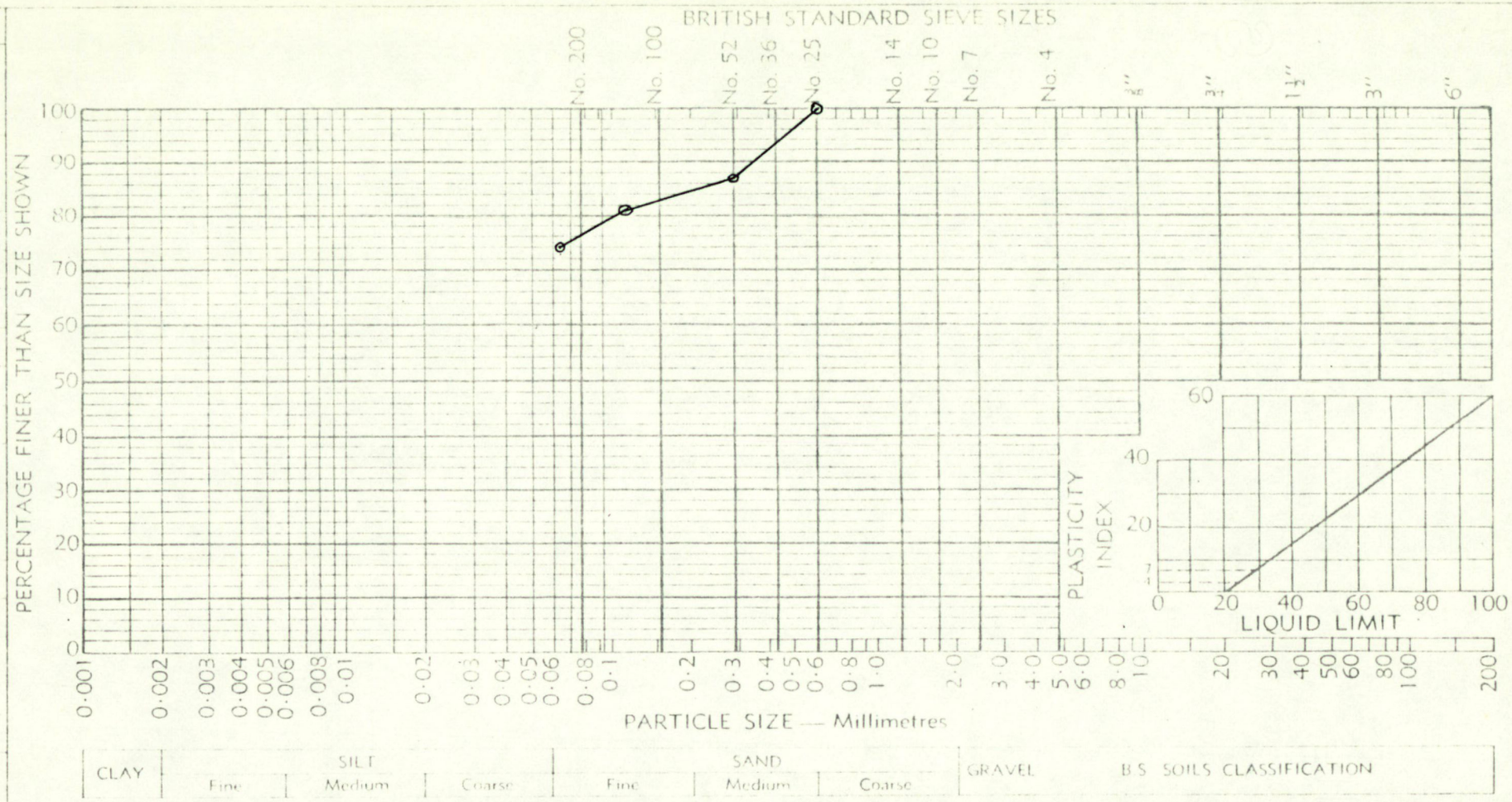
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CIT 213 PROJECT: Port of Brisbane Authority, DATE: 26.10.78

SAMPLE NO: 19 TESTED BY: D.R.M. SHEET: 19



ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
(I) 600 µm	100
(I) 300 "	87
(P) 150 "	81
(P) 63 "	74

Liquid Limit (LL)	
Plastic Limit (PL)	
Plasticity Index (PI)	
Shrinkage (%)	
Effective Size (m.m.)	
Uniformity Coefficient (Cu.) $\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc) $\left(\frac{D30^2}{D10 \times D60}\right)$	

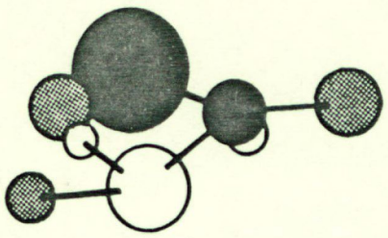
GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 8 755 to 785 m.m.

River Mud and fine Sand.

Remarks:

S.G. | Colour Wet | Checked by:



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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority. Date 27.10.78.

Clients Reference F-1-12. Brisbane River Study. Sheet: 39

Sample No. Tube 9.

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty.	
235	River Mud with fine Sand. w: 74.2 %	1.50
535	Stiff Grey Brown Clay. w: 31.7 %	1.84.
665		

REMARKS: _____

TESTED BY: D Moore. CHECKED BY: _____

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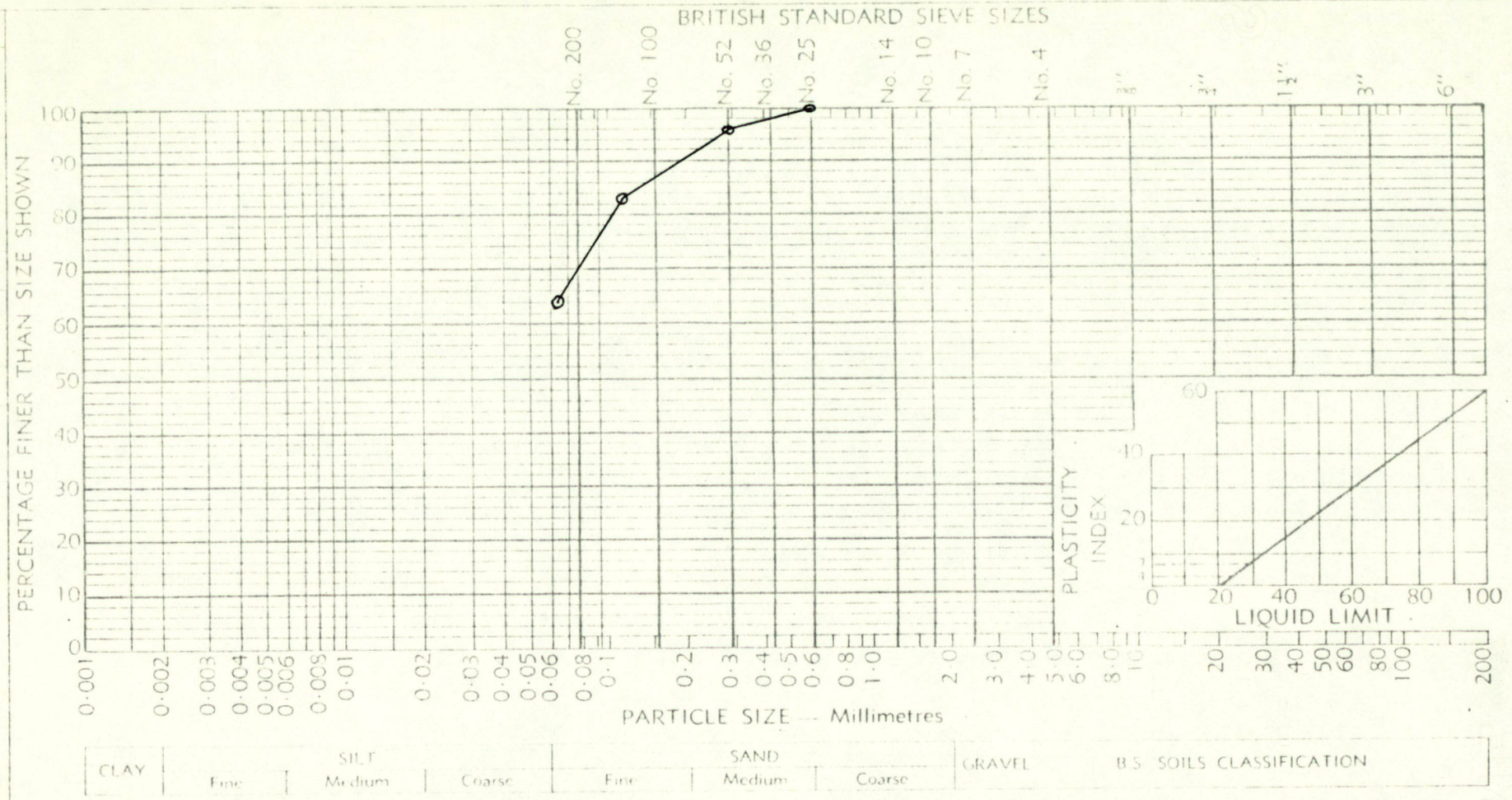
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CERT 213 PROJECT: Port of Brisbane Authority DATE: 26·10·78

SAMPLE NO: 20 TESTED BY: D.R.M. SHEET: 20

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
⅜"	
⅛"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
#1 600μm	100
#2 300 "	96
#3 150 "	83
#4 63 "	64



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 9 235 to 535 m.m.

River Mud with fine Sand.

Remarks:

S.G. Colour Wet Checked by:

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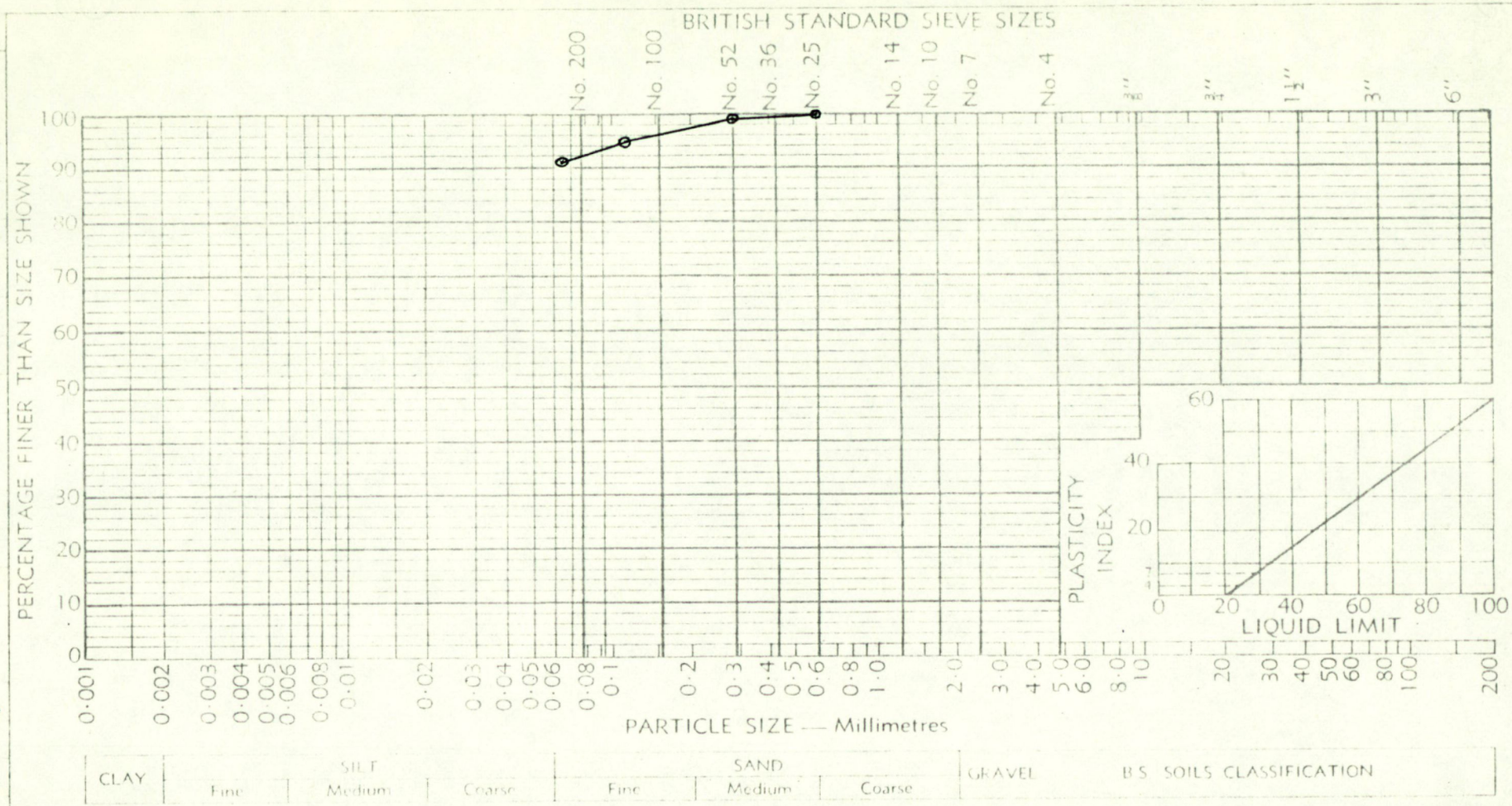
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

DET 2/3 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 21 TESTED BY: D.R.M. SHEET: 21

ANAYLSIS

Sieve or Particle Size	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	99
150 "	95
63 "	91



Liquid Limit	(LL)
Plastic Limit	(PL)
Plasticity Index	(PI)
Shrinkage	(%)
Effective Size	(mm)
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 9 535 to 665

Stiff grey brown clay.

Remarks:

S.G. Colour Wet Checked by:

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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study. Sheet: 40

Sample No. Tube 10.

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
210		
	River Mud with fine Sand w: 105.0 %	1.51
690		

REMARKS:

TESTED BY: D. Moore. CHECKED BY:

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SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

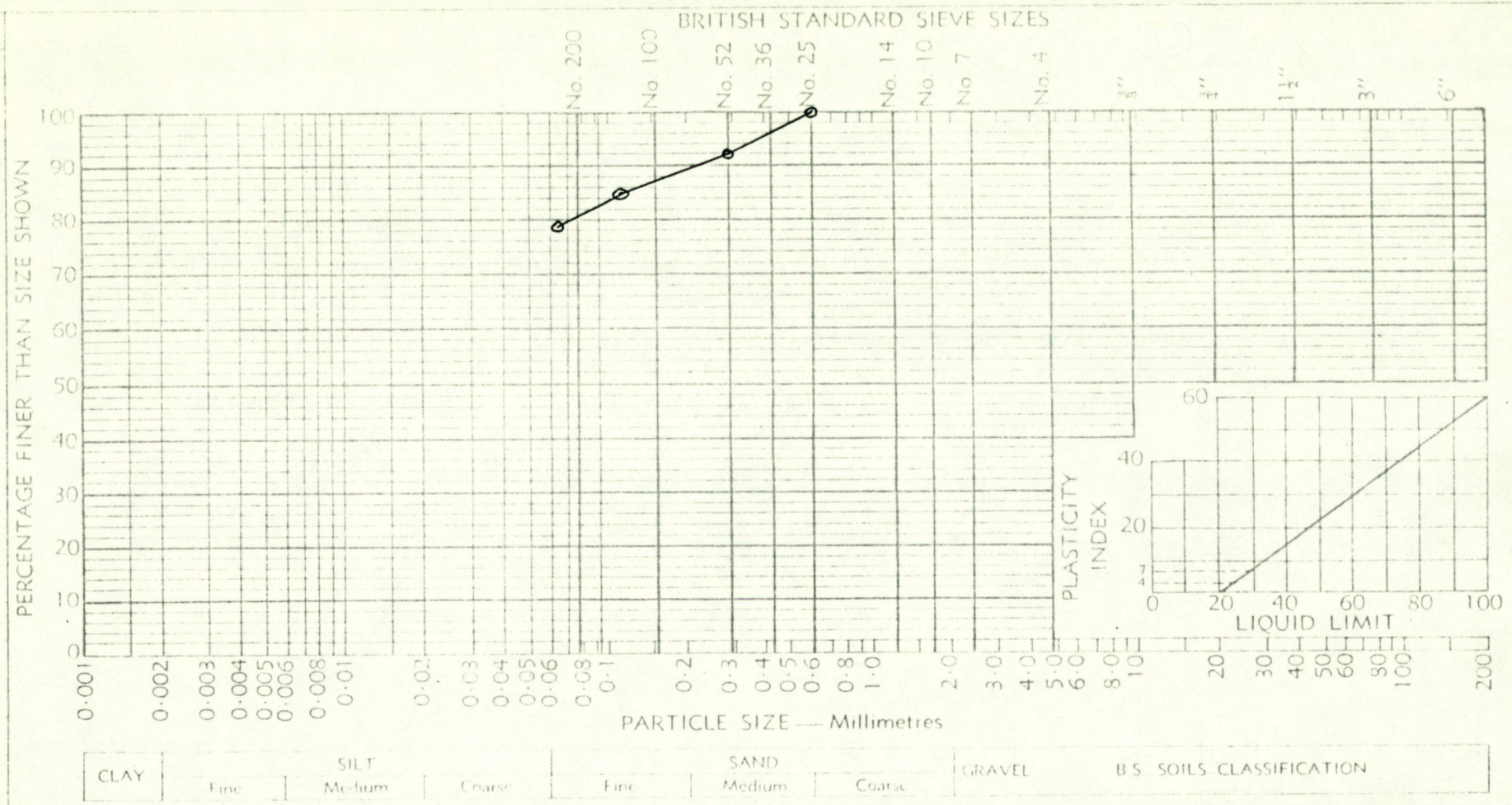
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CTT 2/3 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 22 TESTED BY: D.R.M. SHEET: 22

ANALYSIS

Sieve Particle B.S.	Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	92
150 "	85
63 "	79



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m m)	
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification Tube 10 210 to 690 m.m.

River mud with fine Sand.

Remarks:

S.G | Colour Wet | Checked by:

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G.P.O. BOX 2434, BRISBANE, QUEENSLAND, AUSTRALIA, 4001.

SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12. Brisbane River Study. Sheet: 41

Sample No. Tube IIA

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
675		
	Soft River Mud with fine Sand. w: 79.5 %	*
735		
	Fine to medium Sand. w: 34.4 %	1.89
815		
	Soft River Mud. w: 113.6 %	1.35
905		

REMARKS: * Sample too soft to obtain bulk density.

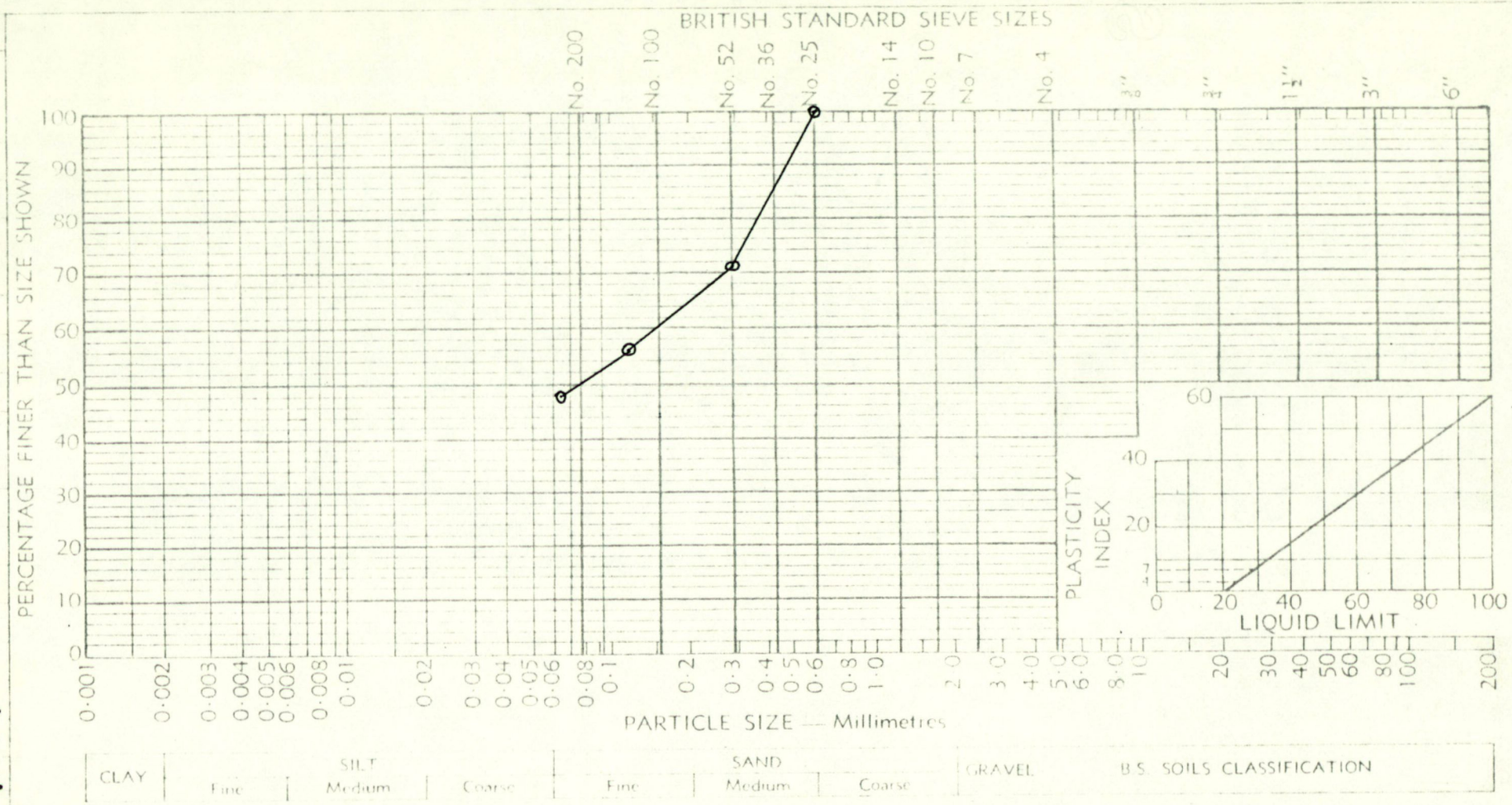
TESTED BY: D. Moore. CHECKED BY:

QUEENSLAND INSTITUTE OF TECHNOLOGY
SCHOOL OF ENGINEERING : DEPT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

BH 2/3 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 23 TESTED BY: D.R.M. SHEET: 23



ANALYSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
# 600µm	100
# 300 "	71
# 150 "	56
# 63 "	48

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(mm)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 11A 675 to 735 m.m.

Soft river mud with fine sand.

Remarks:

S.G | Colour Wet | Checked by:

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SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

SOIL TEST RESULTS - BRITISH CLASSIFICATION

TEST 213 PROJECT: Port of Brisbane Authority DATE: 27·10·78

SAMPLE NO: 24 TESTED BY: D.R.M. SHEET: 24

ANAYLSIS

Sieve or Particle Size B.S	% Passing
6"	
3"	
1½"	
⅜"	
⅝"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
# 600µm	100
# 300 "	58
# 150 "	31
# 63 "	21
0·0	
0·0	
0·0	
0·0	

BRITISH STANDARD SIEVE SIZES

200 No. 100 No. 52 No. 36 No. 25 No. 14 No. 10 No. 7 No. 4 8" 3" 1½" 3" 6"

PERCENTAGE FINER THAN SIZE SHOWN

100 90 80 70 60 50 40 30 20 10 0

0·001 0·002 0·003 0·004 0·005 0·006 0·008 0·01 0·02 0·03 0·04 0·05 0·06 0·08 0·1 0·2 0·3 0·4 0·5 0·6 0·8 1·0 2·0 3·0 4·0 5·0 6·0 8·0 10 20 30 40 50 60 80 100 200

PARTICLE SIZE — Millimetres

PLASTICITY INDEX

60 40 20 7 4

0 20 40 60 80 100

LIQUID LIMIT

CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit	(LL)
Plastic Limit	(PL)
Plasticity Index	(PI)
Shrinkage	(%)
Effective Size	(m.m.)
Uniformity Coefficient (Cu.)	$\left(\frac{D60}{D10}\right)$
Coefficient of Curvature (Cc.)	$\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 11A 735 to 815 m.m.

Fine to medium sand.

Remarks:

S.G | Colour Wet | Checked by:

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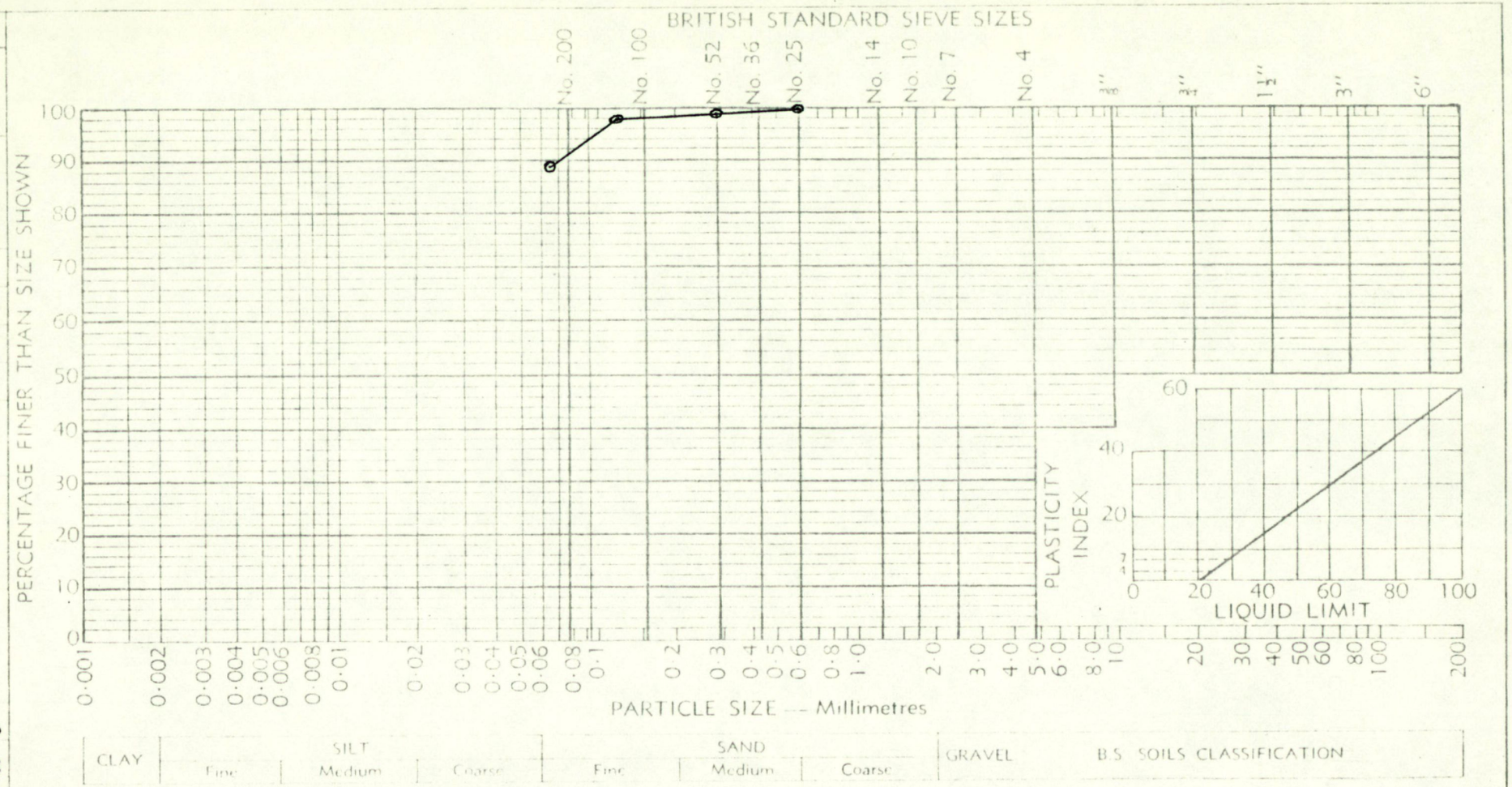
SOIL MECHANICS LABORATORY — SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 25 TESTED BY: D.R.M. SHEET: 25

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300µm	99
150µm	98
63µm	89
0·0	
0·0	
0·0	
0·0	



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m m)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

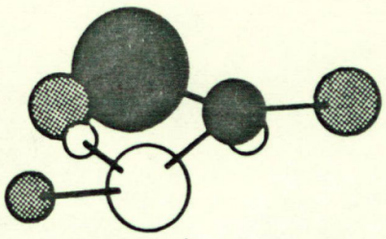
GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 11A 815 to 905 m.m.

Soft River Mud.

Remarks:

S.G. | Colour Wet | Checked by:



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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12 Brisbane River Study Sheet: 42

Sample No. Tube IIB

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty	
190		
	Soft River Mud.	1.43
	w: 97.7 %	
460		
	Soft Dark Grey Clay	1.56
	with fine Sand.	
	w: 71.9 %	
710		

REMARKS: _____

TESTED BY: D Moore. CHECKED BY: _____

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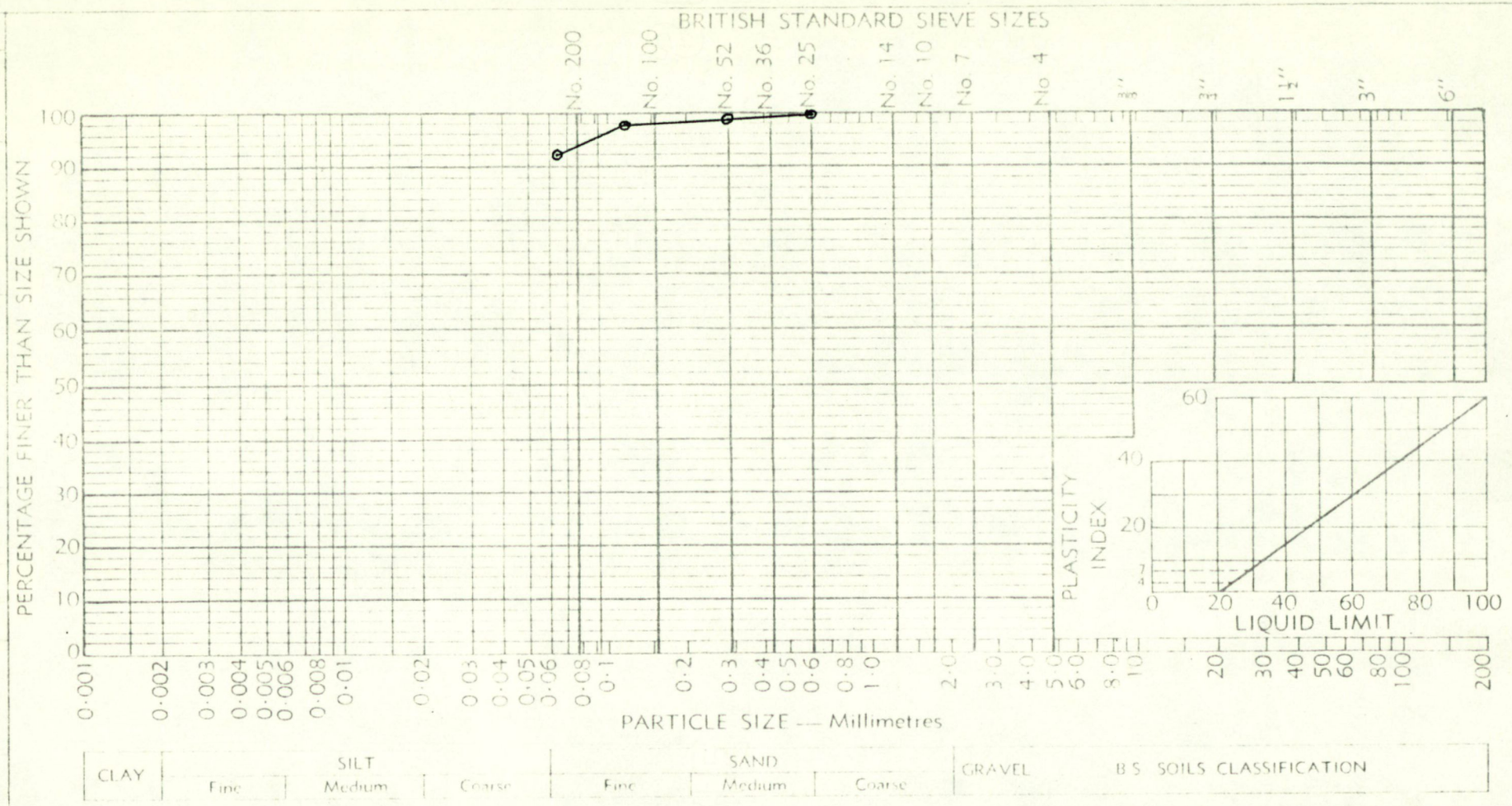
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 26 TESTED BY: D.R.M. SHEET: 26

ANALYSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
# 600 µm	100
# 300 "	99
# 150 "	98
# 63 "	92
0·0	
0·0	
0·0	
0·0	



CLAY	SILT			SAND			GRAVEL	B.S. SOILS CLASSIFICATION
	Fine	Medium	Coarse	Fine	Medium	Coarse		

Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 11B 190 to 460 m.m.

Soft River Mud

Remarks:

S.G | Colour Wet | Checked by:

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SCHOOL OF ENGINEERING DEPT OF CIVIL ENGINEERING

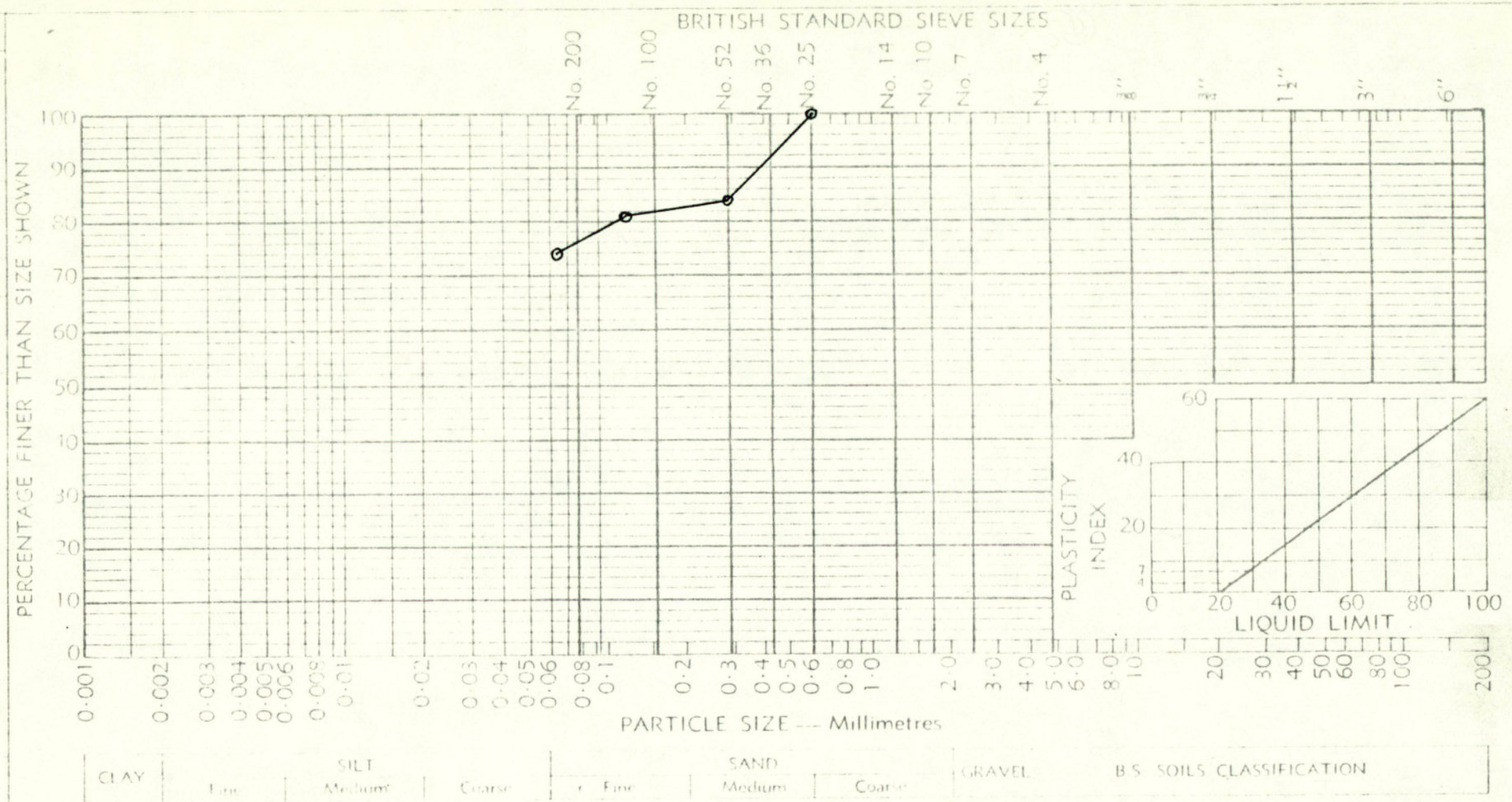
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

JOB NO: 213 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 27 TESTED BY: D.R.M. SHEET: 27

ANAYLSIS

Sieve or Particle Size BS	% Passing
6"	
3"	
1½"	
⅜"	
⅝"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600 µm	100
300 "	84
150 "	81
63 "	74



Liquid Limit	(LL)	
Plastic Limit	(PL)	
Plasticity Index	(PI)	
Shrinkage	(%)	
Effective Size	(m.m.)	
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$	
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$	

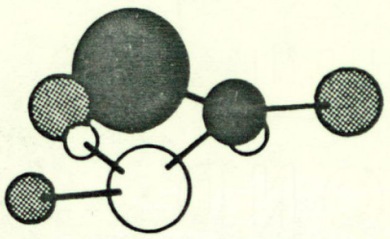
GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 11B 460 to 710 m.m.

Soft Dark Grey Clay with fine Sand.

Remarks:

S.G. | Colour Wet | Checked by



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SOIL MECHANICS LABORATORY

C.E.T. 213 Project Port of Brisbane Authority Date 27.10.78

Clients Reference F-1-12. Brisbane River Study. Sheet: 43.

Sample No. Tube 12A

DEPTH FROM TOP OF TUBE (mm)	DESCRIPTION OF EACH HORIZON	BULK DENSITY (t/m^3)
	Tube Empty.	
390	Gravel and Sand.	1.73
665	Soft River Mud. w: 127.7 %	1.40
900		

REMARKS:

TESTED BY: D. Mason CHECKED BY:

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GEO-ORTHEST BRISBANE [illegible]
GPO BOX 1434 BRISBANE QLD 4001 TELEPHONE [illegible]
SCHOOL OF ENGINEERING DEPT. OF CIVIL ENGINEERING

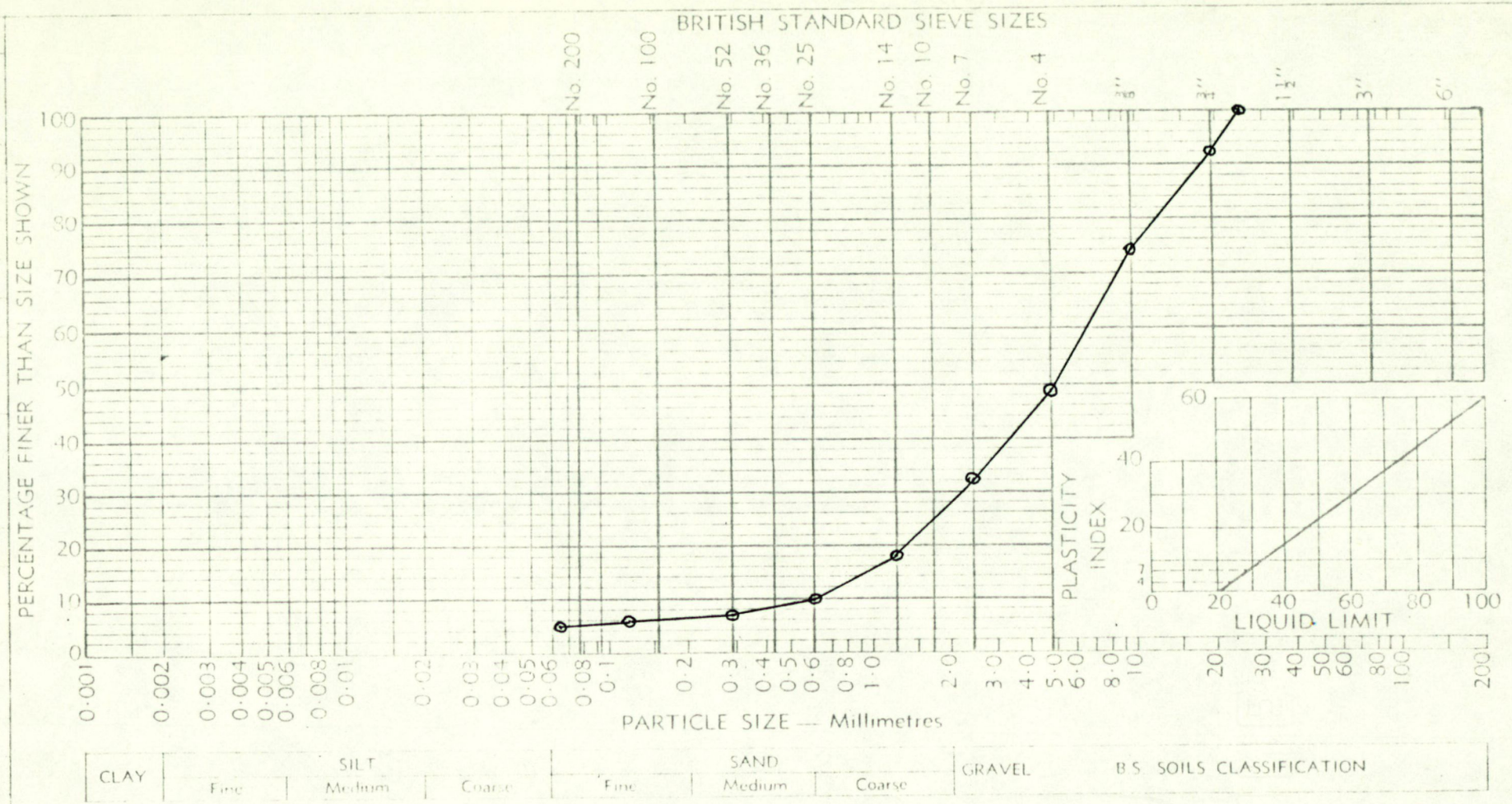
SOIL MECHANICS LABORATORY - PARTICLE SIZE CLASSIFICATION

CERT. 213 PROJECT: Port of Brisbane Authority DATE: 27.10.78

SAMPLE NO: 28 TESTED BY: D.A.M. SHEET: 28

ANAYLSIS

Sieve or Particle Size B.S.	% Passing
6"	
3"	
1½"	100
1"	92
¾"	74
4	49
7	32
10	-
14	18
25	
36	
52	
100	
200	
600 µm	10
300 "	7
150 "	6
63 "	5
0·0	
0·0	
0·0	
0·0	



CLAY	SILT Fine	SILT Medium	SILT Coarse	SAND Fine	SAND Medium	SAND Coarse	GRAVEL	B.S. SOILS CLASSIFICATION

Liquid Limit (LL)
Plastic Limit (PL)
Plasticity Index (PI)
Shrinkage ( )
Effective Size (m.m.)

Uniformity Coefficient (Cu.) $\left(\frac{D60}{D10}\right)$

Coefficient of Curvature (Cc.) $\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 12 A 390 to 665 m.m.

Gravel and sand

Remarks:

S.G | Colour Wet | Checked by:

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GEOTECHNICAL LABORATORY
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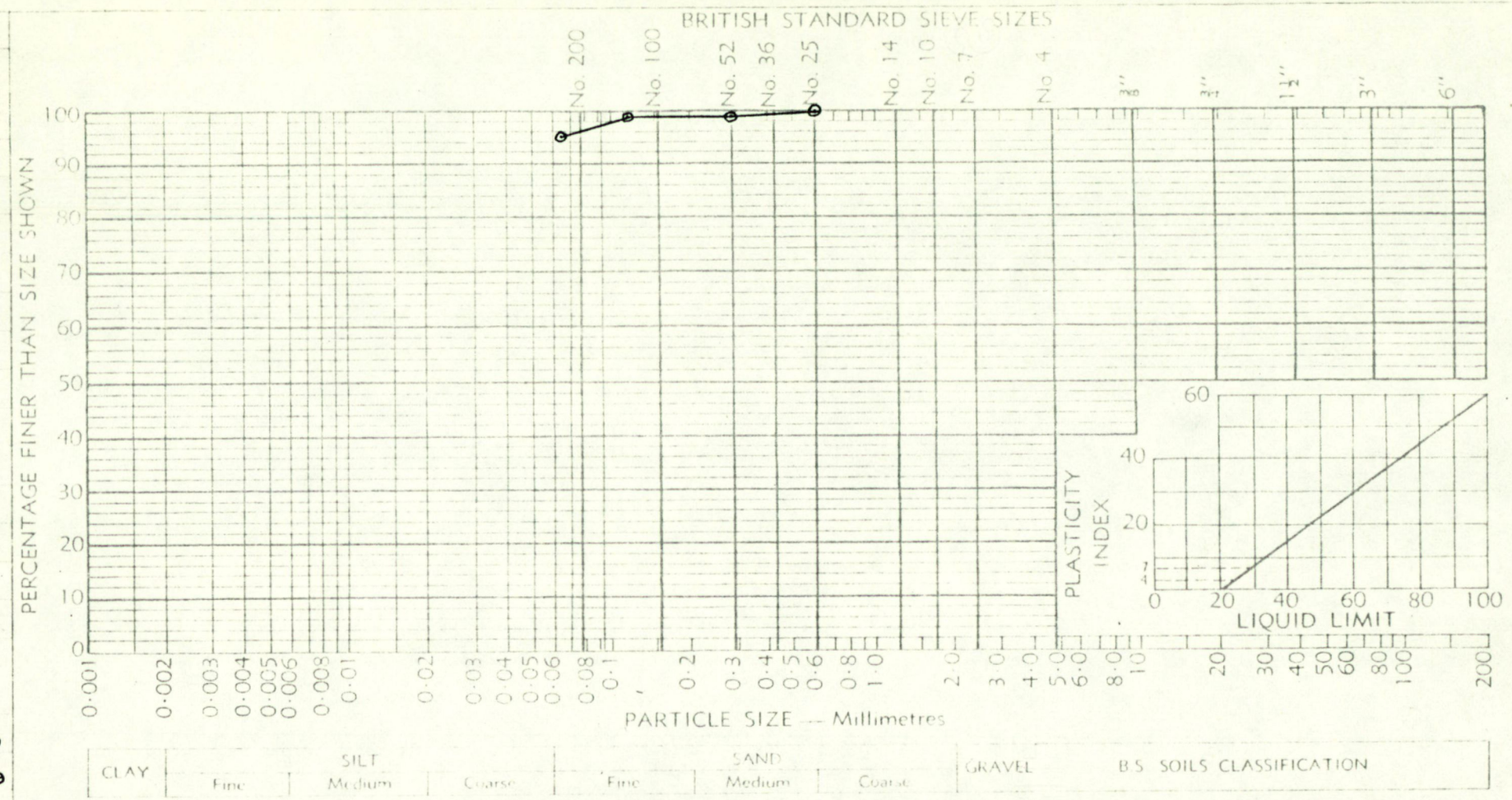
SOIL MECHANICS LABORATORY - SOIL CLASSIFICATION

CET 213 PROJECT: Port of Brisbane Authority DATE: 27.10.76

SAMPLE NO: 29 TESTED BY: D.R.M. SHEET: 29

ANAYLSIS

Sieve or Particle Size	% Passing
6"	
3"	
1½"	
¾"	
⅜"	
4	
7	
10	
14	
25	
36	
52	
100	
200	
600µm	100
300µm	99
150µm	99
63µm	97



Liquid Limit	(LL)
Plastic Limit	(PL)
Plasticity Index	(PI)
Shrinkage	(%)
Effective Size	(m.m.)
Uniformity Coefficient (Cu)	$\left(\frac{D60}{D10}\right)$
Coefficient of Curvature (Cc)	$\left(\frac{D30^2}{D10 \times D60}\right)$

GRADING	%
Gravel	
Coarse Sand	
Medium Sand	
Fine Sand	
Silt	
Clay	

Classification: Tube 12A 665 to 900 m.m.

Soft River Mud.

Remarks:

S.G. · Colour Wet

Checked by:

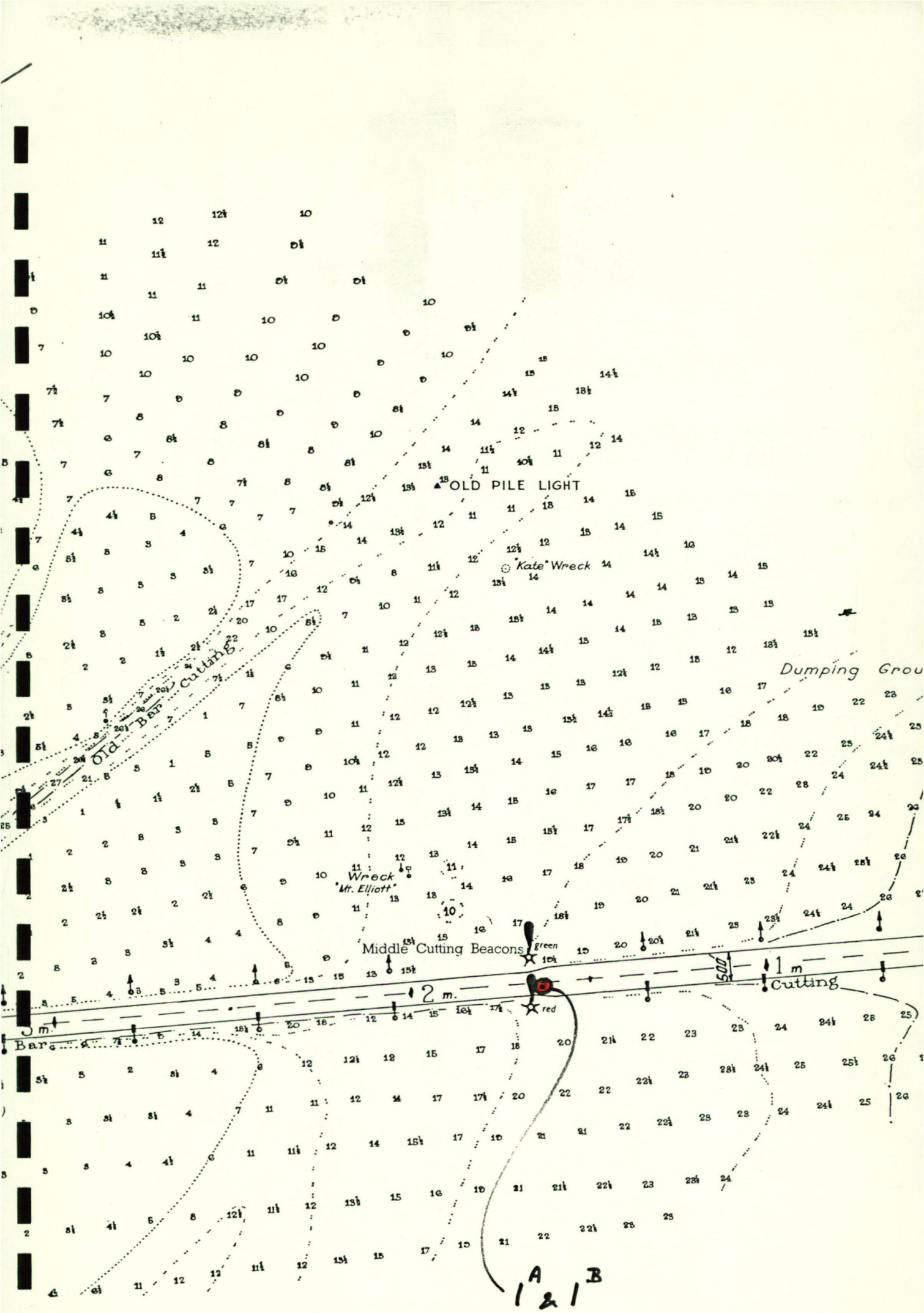
BRISBANE RIVER STUDY
BED CORES TAKEN 18 & 19 Sept. 1978

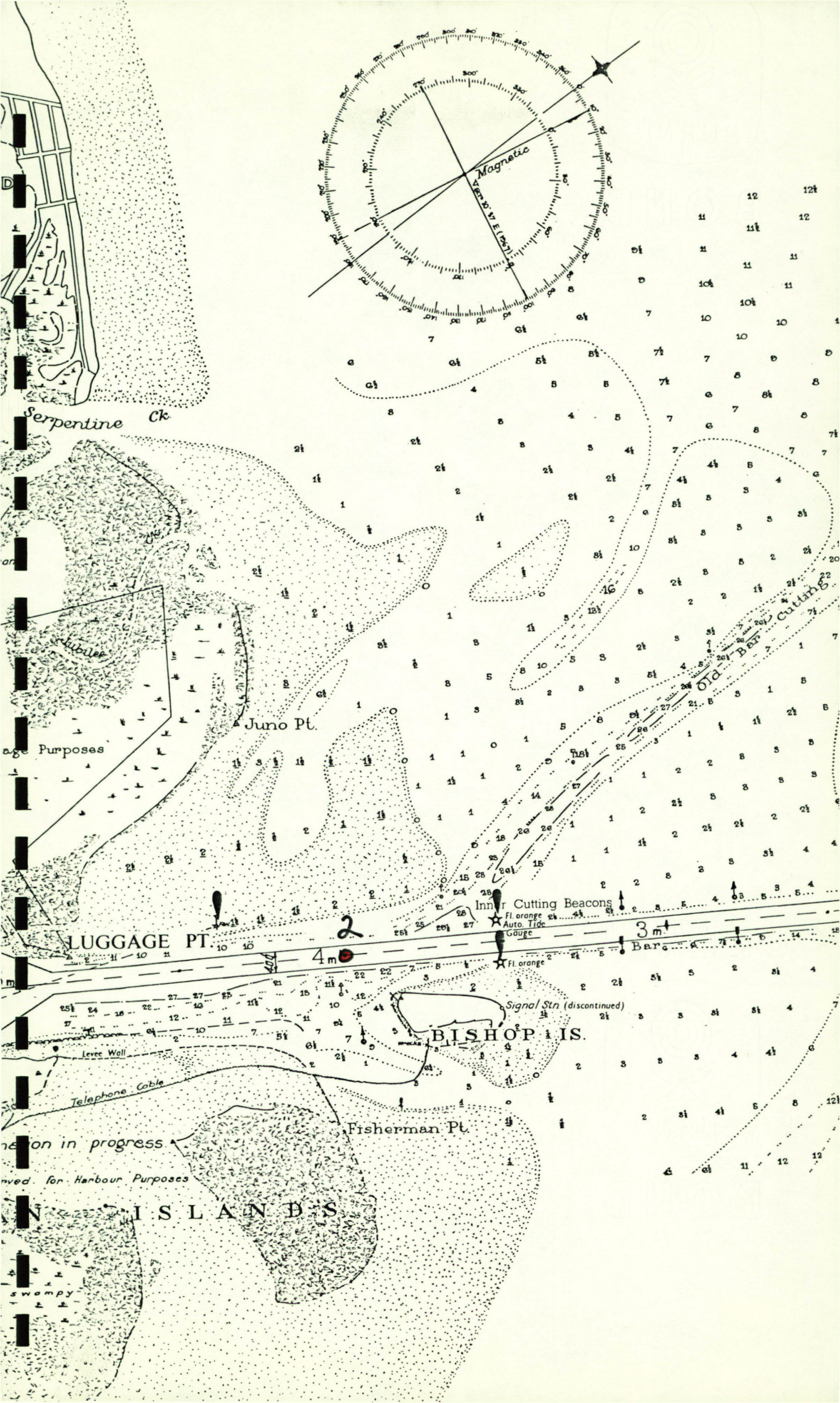
This work was carried out in accordance with HRS manuscript notes dated April '78.

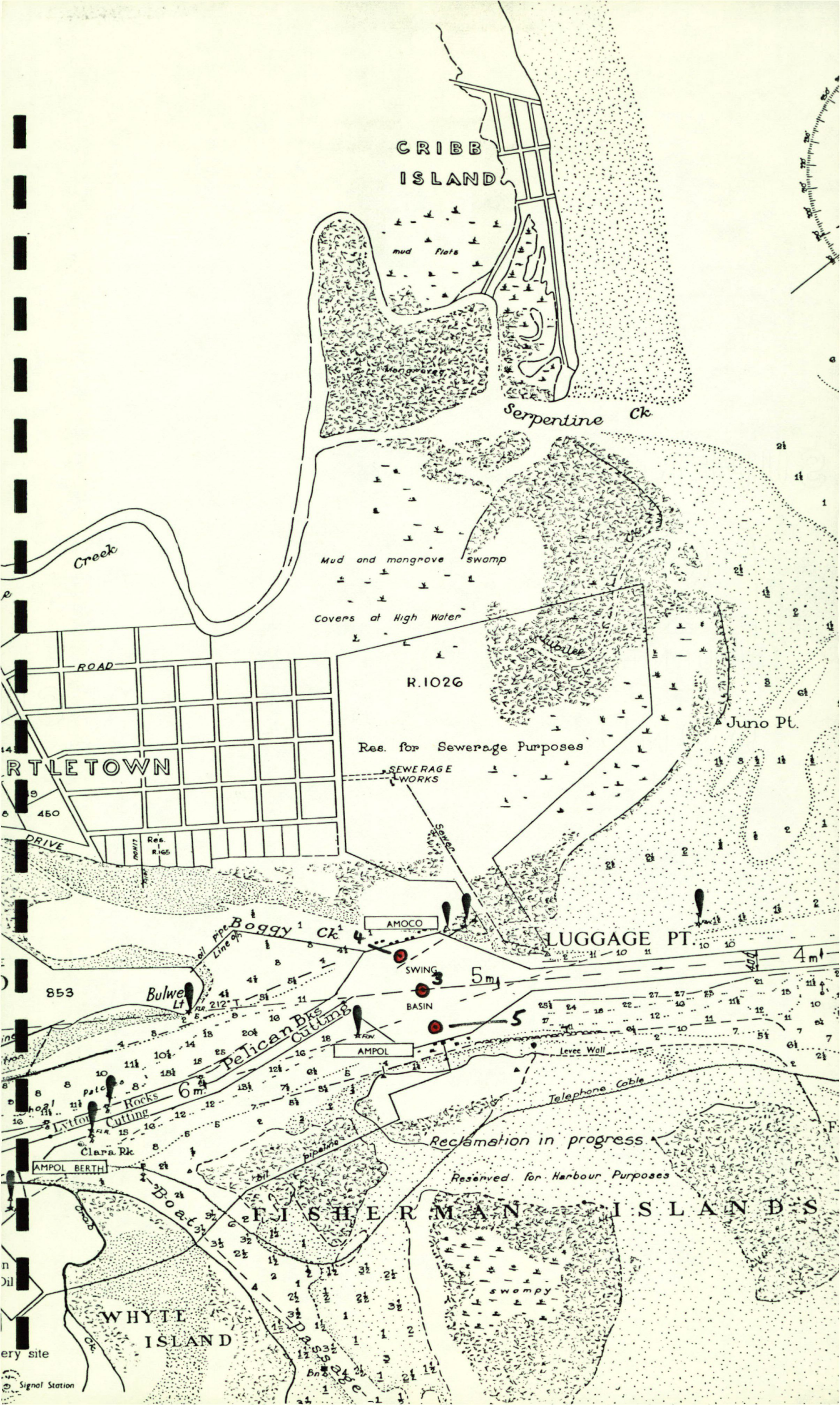
DATE	TIME	Nº	LOCATION (See also attached drawings)	WATER DEPTH	LOCAL TIDE LEVEL	BED LEVEL	
						LWD	AHD
18/9/78	1240	1^A	Middle Cutting Beacons	13·3	1·0	12·3	13·5
	1310	1^B	" " "	13·3	0·8	12·5	13·7
	1130	2	Off. upstream end of Bishop Island	14·4	1·5	12·9	14·1
	1100	3	Centre of Swing Basin	14·5	1·7	12·8	14·0
	1000	4	Offsite AMOCO crude wharf	14·9	2·0	12·9	14·1
	1040	5	" AMPOL " "	15·8	1·9	13·9	15·1
19/9/78	0945	6	Centre of Pinkenba Swing Basin	12·4	1·8	10·6	11·8
	0920	7	Offsite Austral Pacific wharf	13·8	1·7	12·1	13·3
	1045	8	Lower Hamilton Reach	12·8	2·1	10·7	11·9
	1100	9	Offsite CXD Brewing Wharf	12·0	2·1	9·9	11·1
	1130	10	Upper Hamilton Reach.	12·2	2·2	10·0	11·2
	1205	11^A	Burlimbra Reach	12·8	2·1	10·7	11·9
	1215	11^B	" "	12·6	2·1	10·5	11·7
	1305	12^A	South Brisbane Reach	10·0	2·0	8·0	9·2
	–	12^B	(No Sample)	–	–	–	–

All levels in metres

Sample 12 – Nº 12^A recovered only a half length core of mud. Four further attempts were made to obtain full cores in this area, the boat being repositioned twice, without success. Material brought up on the slide on one attempt suggested that the core was sitting on a bed of sand and gravel, and this was confirmed by a broken slide.


OLD PILE LIGHT
"Kate" Wreck
Old Bar Cutting
Dumping Grou
Wreck
"Mt. Elliott"
Middle Cutting Beacons
green
red
2 m.
1 m
Cutting
3m
Bar
500
1A & 1B


Magnetic
Serpentine Ck
Juno Pt.
Old Bar Cutting
Inner Cutting Beacons
Fl. orange
Auto. Tide
Gauge
Fl. orange
LUGGAGE PT.
4m
3m
Bar
Signal Stn (discontinued)
BISHOP I IS.
Levee Wall
Telephone Cable
Fisherman Pt.
ISLANDS
swampy


CRIBB ISLAND
mud flats
Mangroves
Serpentine Ck
Creek
Mud and mongrove swamp
Covers at High Water
ROAD
R.1026
Jubilee
Juno Pt.
Res. for Sewerage Purposes
SEWERAGE WORKS
Sewer
DRIVE
Res. R.165
POINT
AMOCO
Oil pipe Line
Boggy Ck
LUGGAGE PT.
SWING
BASIN
5m
4m
853
Bulwer Lt
FLR. 212° T.
Pelican Bks Cutting
AMPOL
Levee Wall
Telephone Cable
6m.
Clifton Cutting Rocks
Clara Rk
AMPOL BERTH
pipeline
Reclamation in progress
Reserved for Harbour Purposes
Boat
FISHERMAN ISLANDS
swampy
WHYTE ISLAND
Signal Station

DEPT. OF HARBOURS & MARINE QLD

BRISBANE RIVE

VICTORIA BRIDGE TO ENTRANCE BE

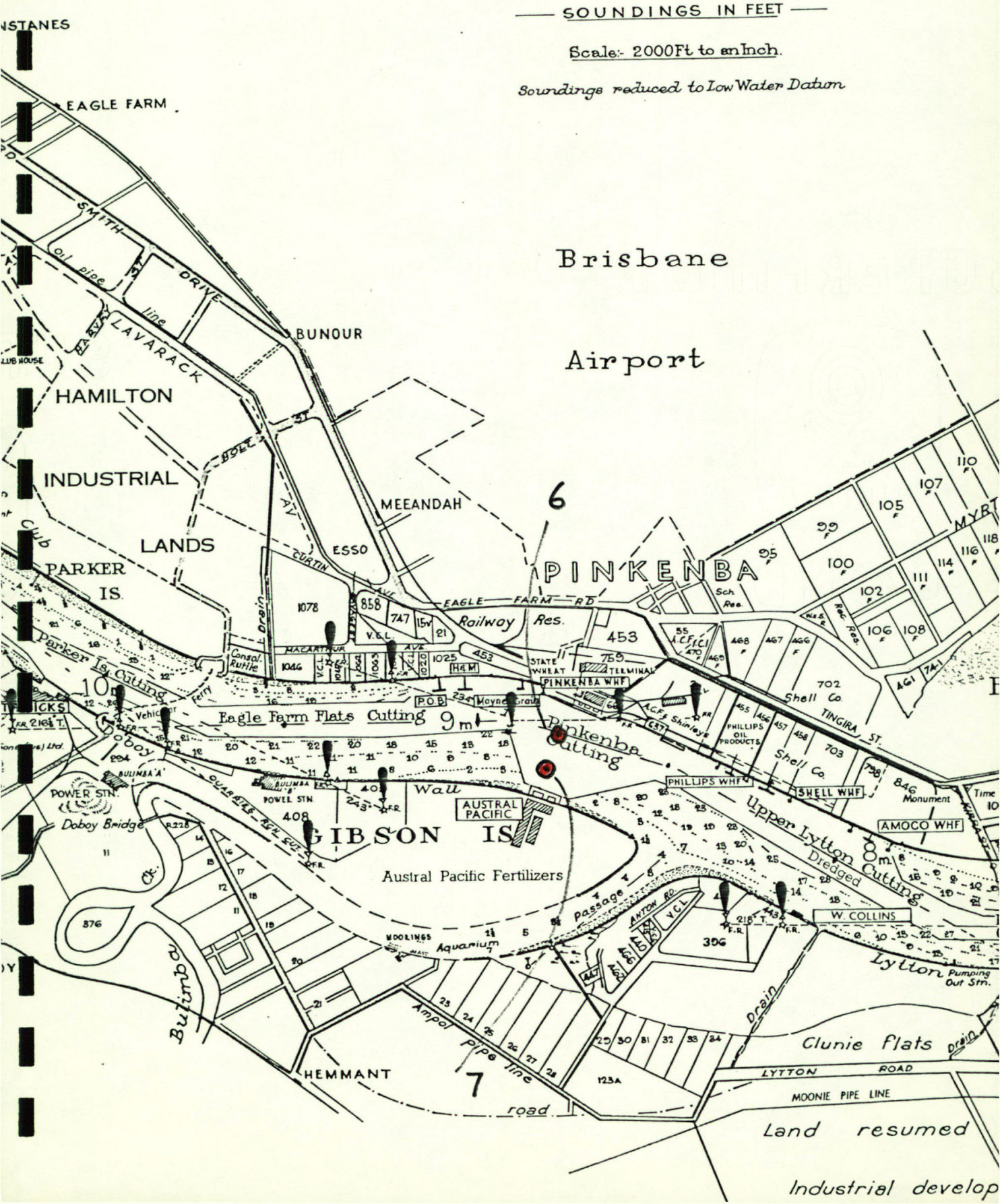
MILEAGES SHOWN ARE SEA MILES FROM ENTRANCE BEACC

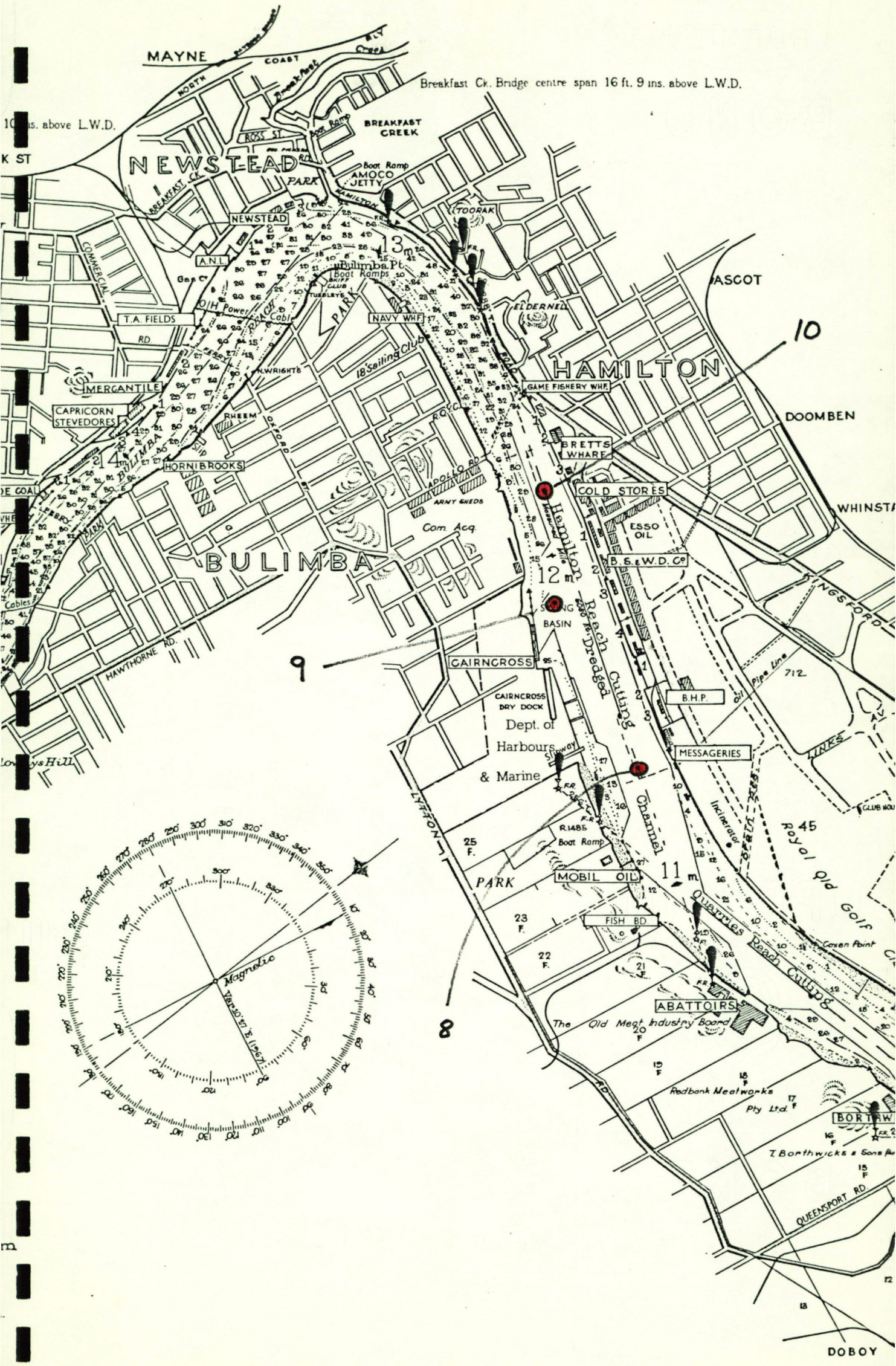
1975

SOUNDINGS IN FEET

Scale:- 2000Ft to an Inch.

Soundings reduced to Low Water Datum



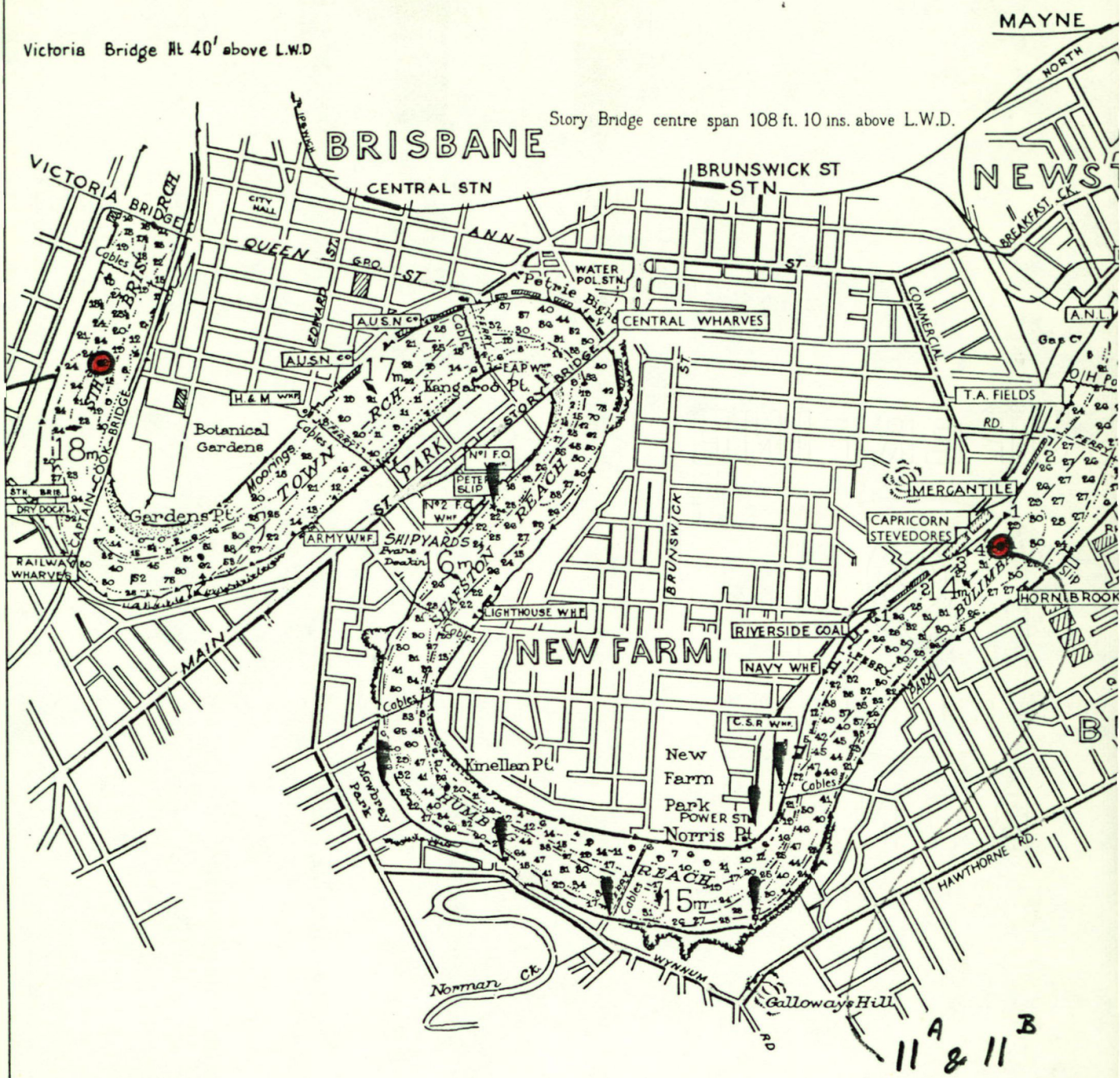


10 ins. above L.W.D.

K ST

nin.) from the Bar to Bulimba

Pt. swing basin to 40' &



NOTES

	Ft	Ins	
Maximum normal Spring rise	8	2	above datum
Mean Spring rise	6	7	" "
Mean Neap rise	5	3	" "
Minimum Neap range	3	4	
Mean Ht of Low water Springs	0	6	above datum.
Lowest recorded fall	0	0	below "