FIGURE 1

LOCATION OF BOREHOLE SURVEY

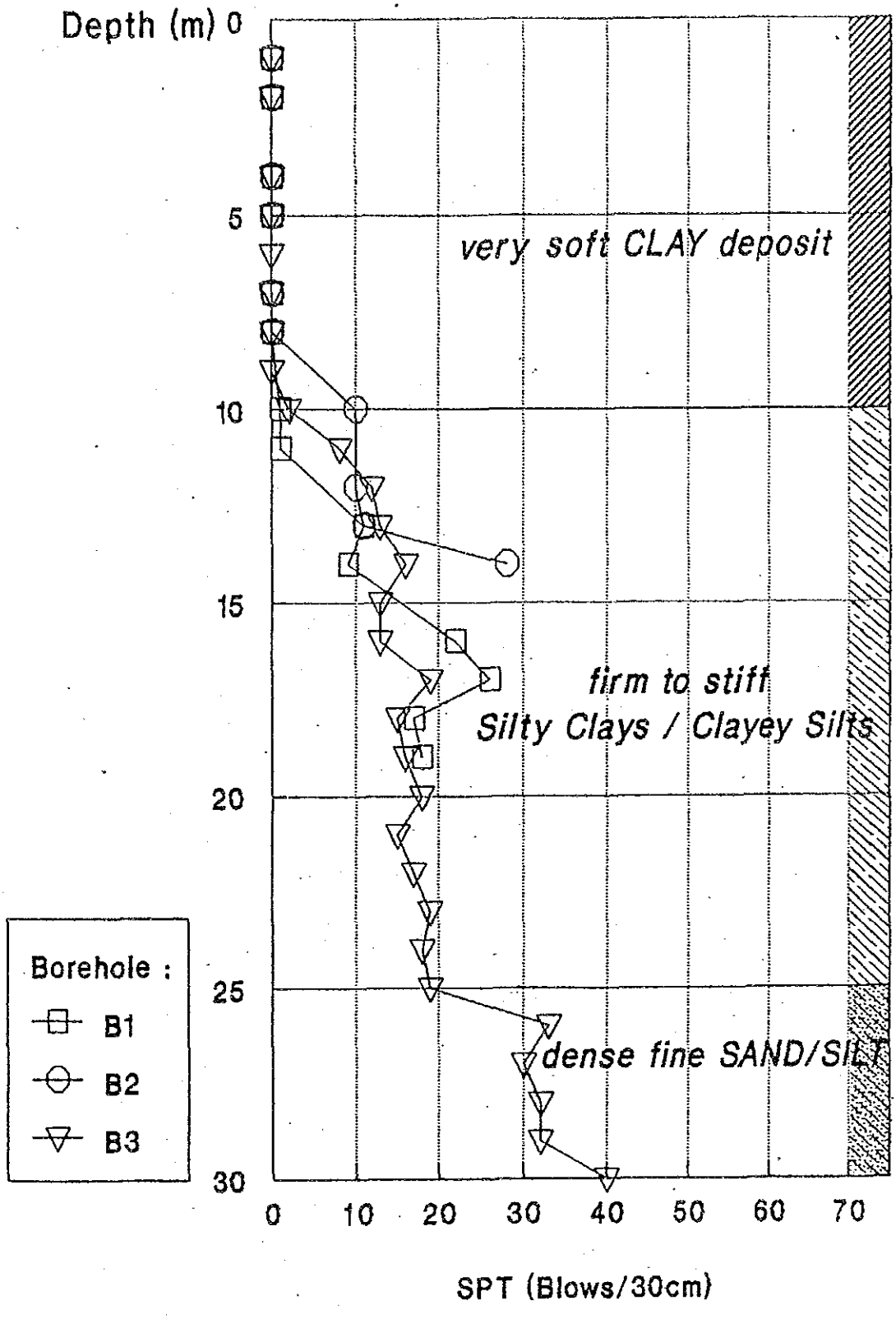

Depth (m)
0
5
10
15
20
25
30
very soft CLAY deposit
firm to stiff
Silty Clays / Clayey Silts
dense fine SAND/SILT
Borehole :
B1
B2
B3
0
10
20
30
40
50
60
70
SPT (Blows/30cm)

Figure 2

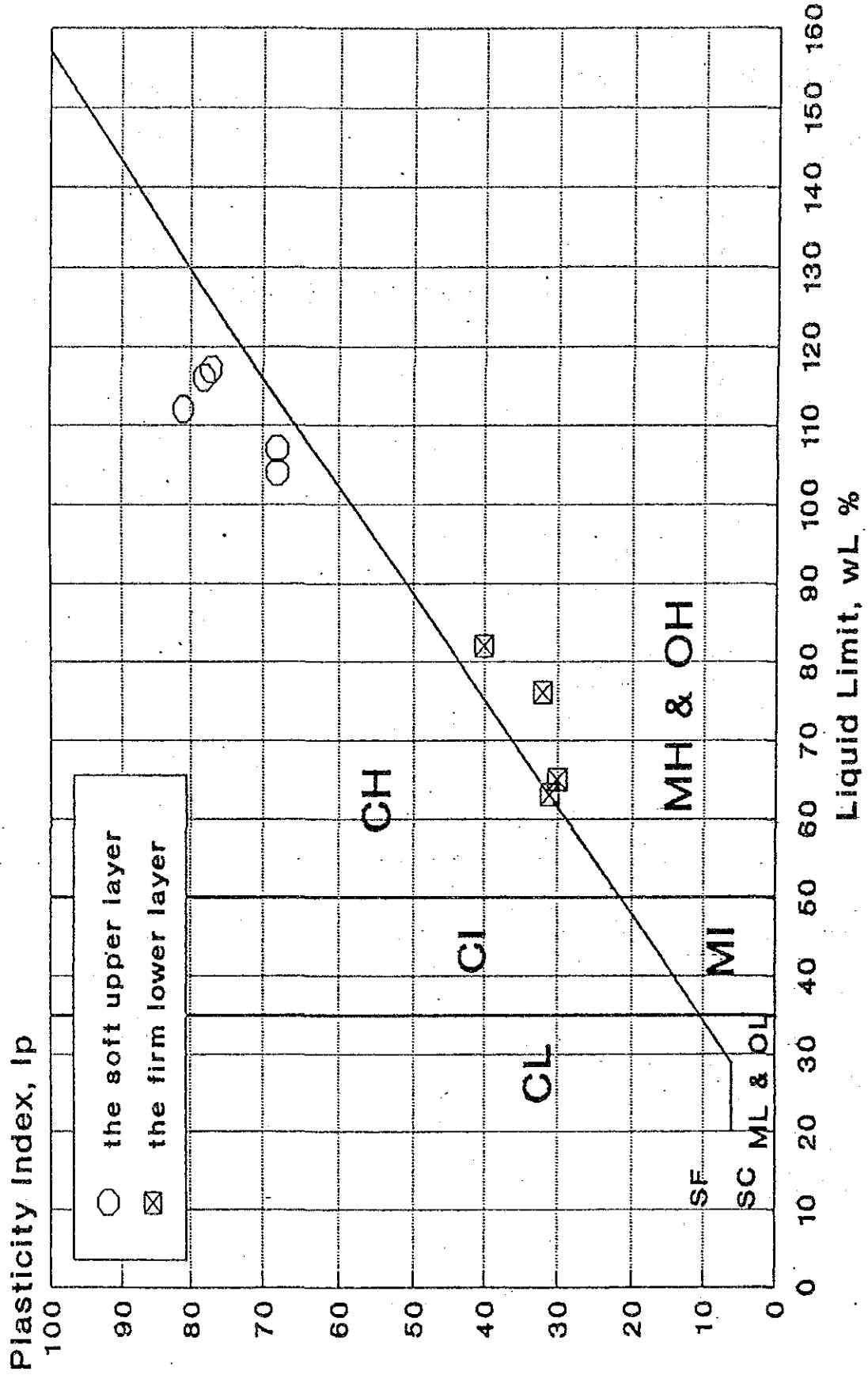

Plasticity Index, Ip
Liquid Limit, wL %
the soft upper layer
the firm lower layer
CH
CI
CL
MI
MH & OH
SF
SC
ML & OL
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160

Figure 3

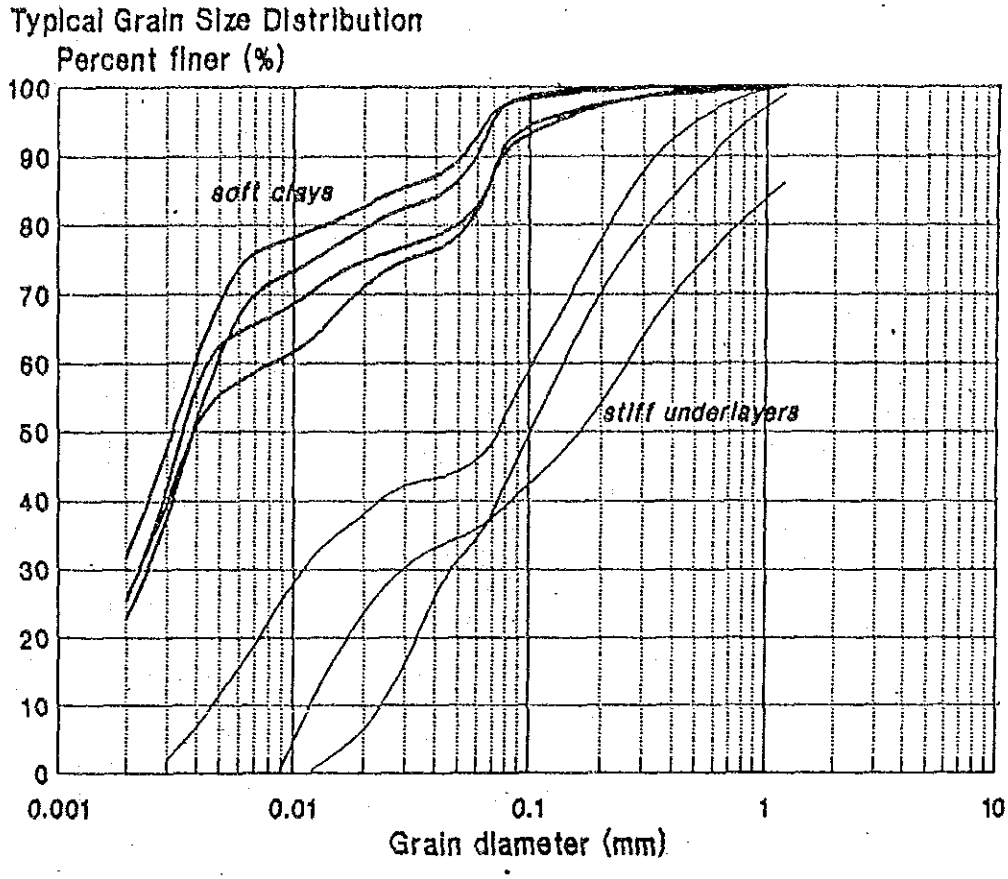

Typical Grain Size Distribution
Percent finer (%)
100
90
80
70
60
50
40
30
20
10
0
soft clays
stiff underlayers
0.001
0.01
0.1
1
10
Grain diameter (mm)

Figure 4

e - log p

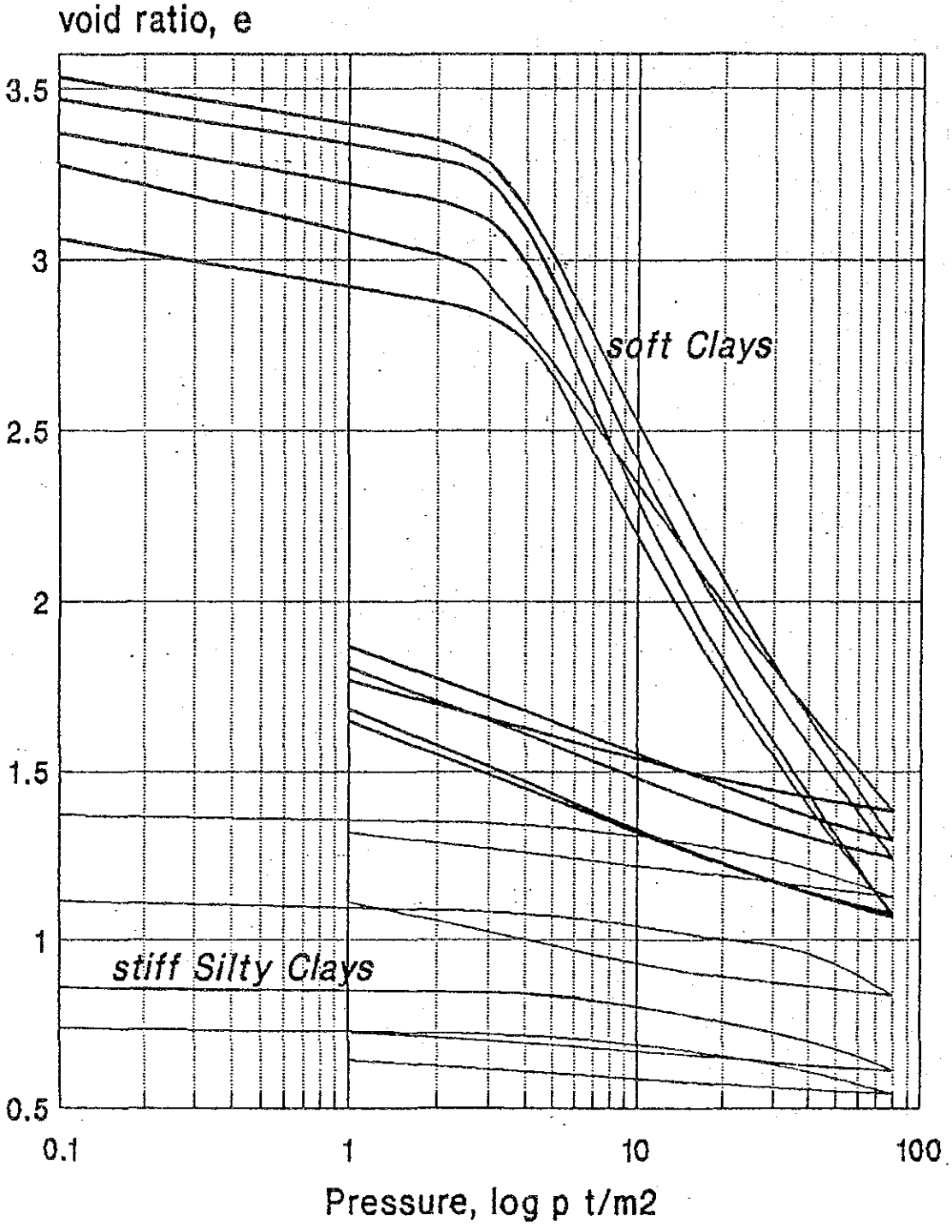


Figure 5

coefficient of consolidation, cv

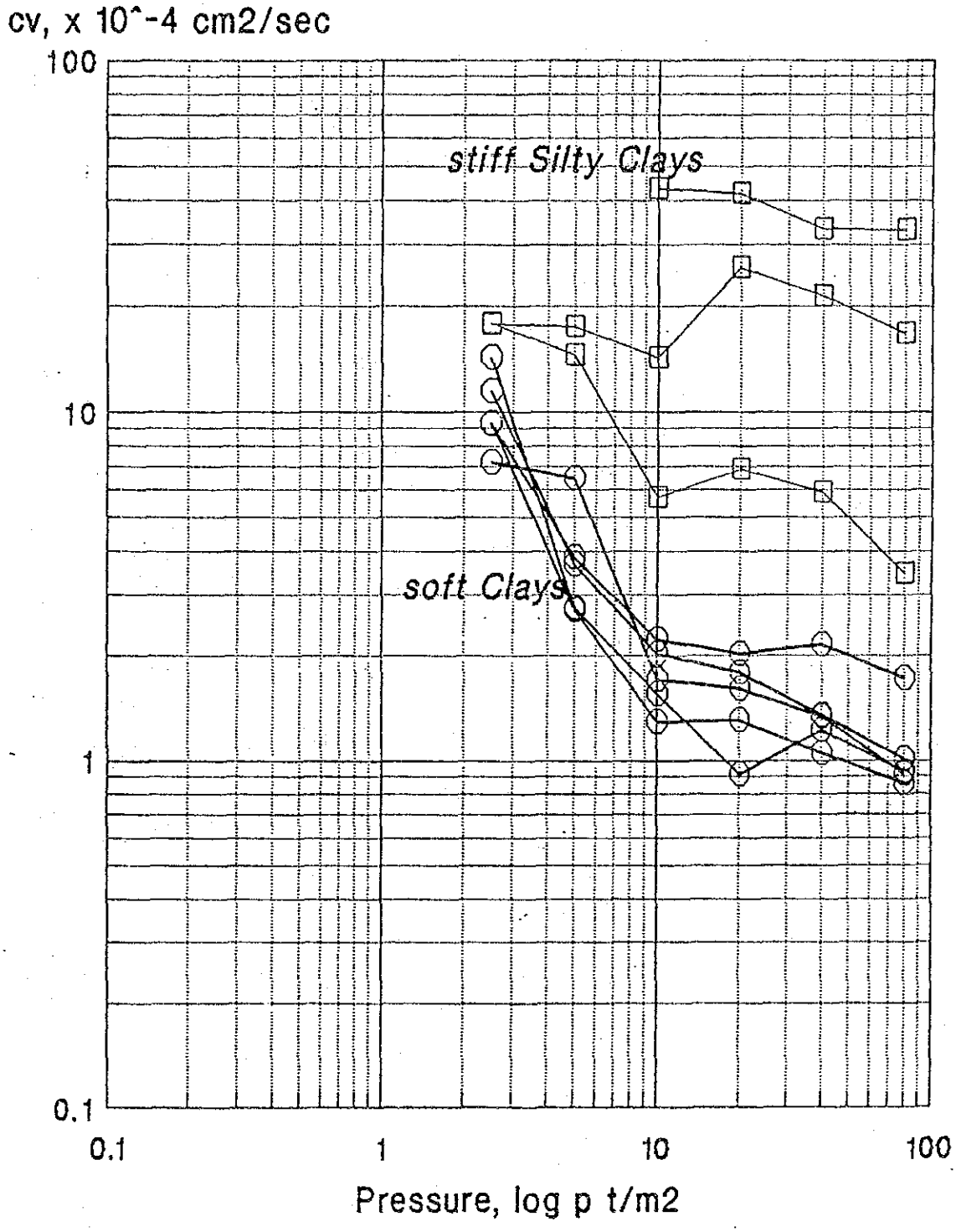
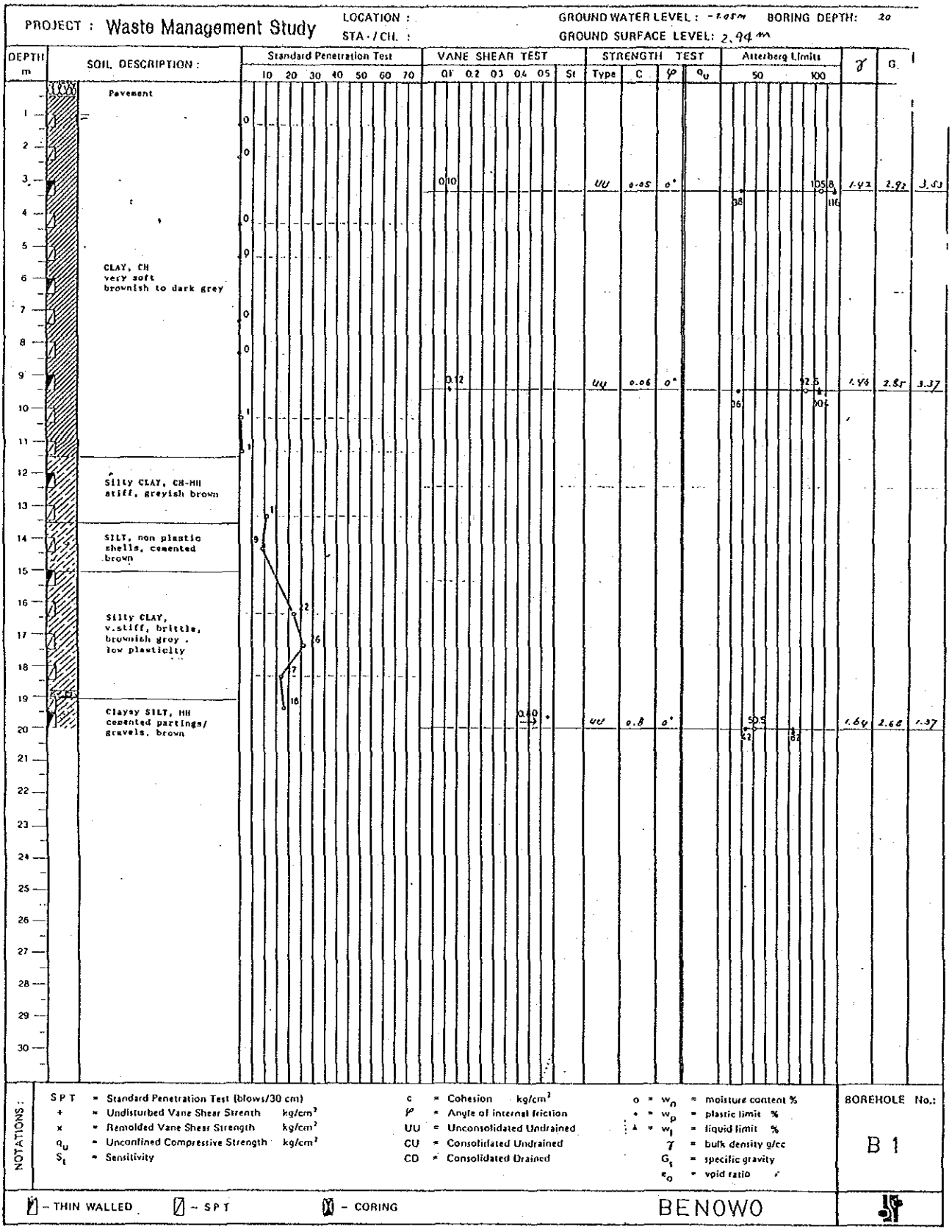
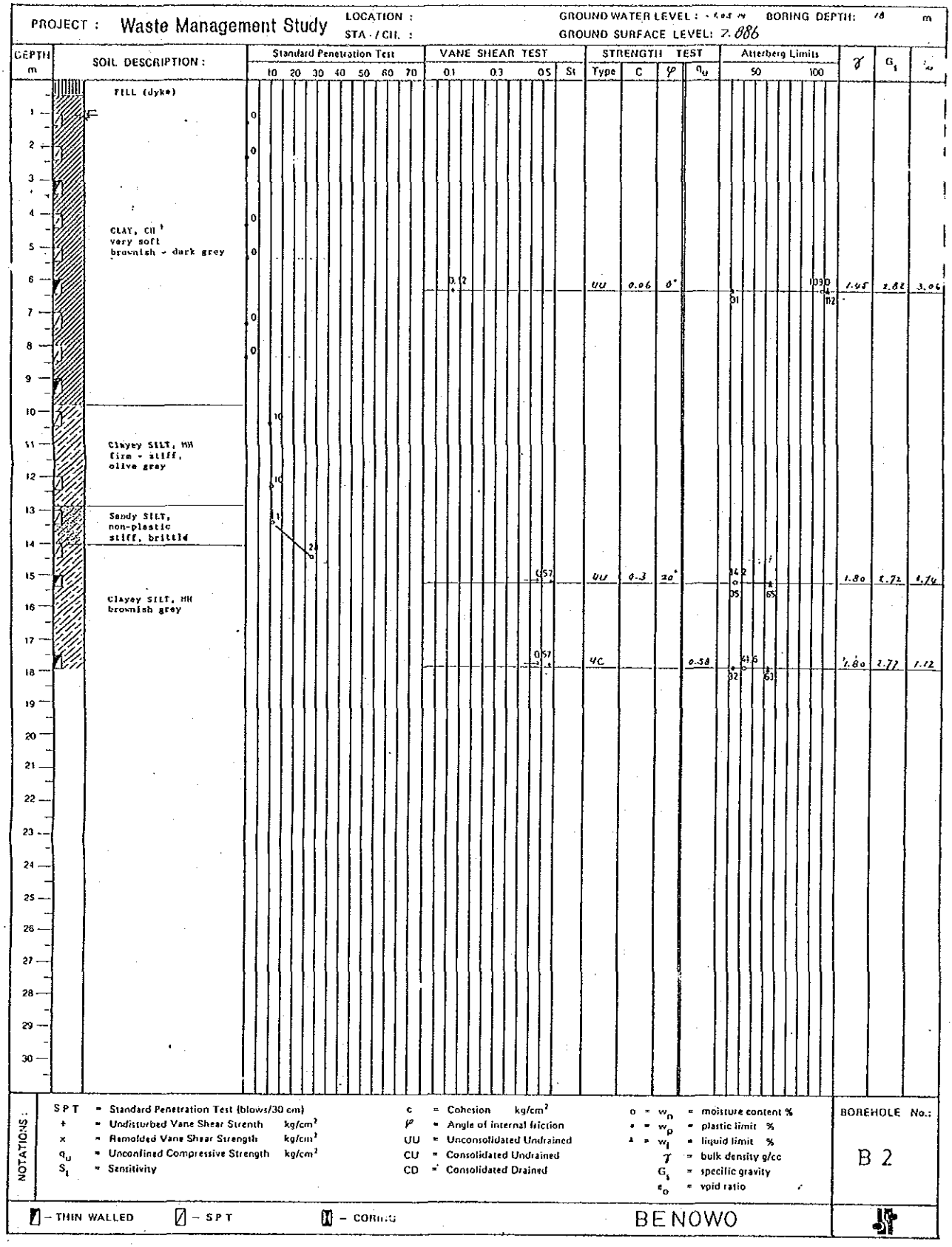
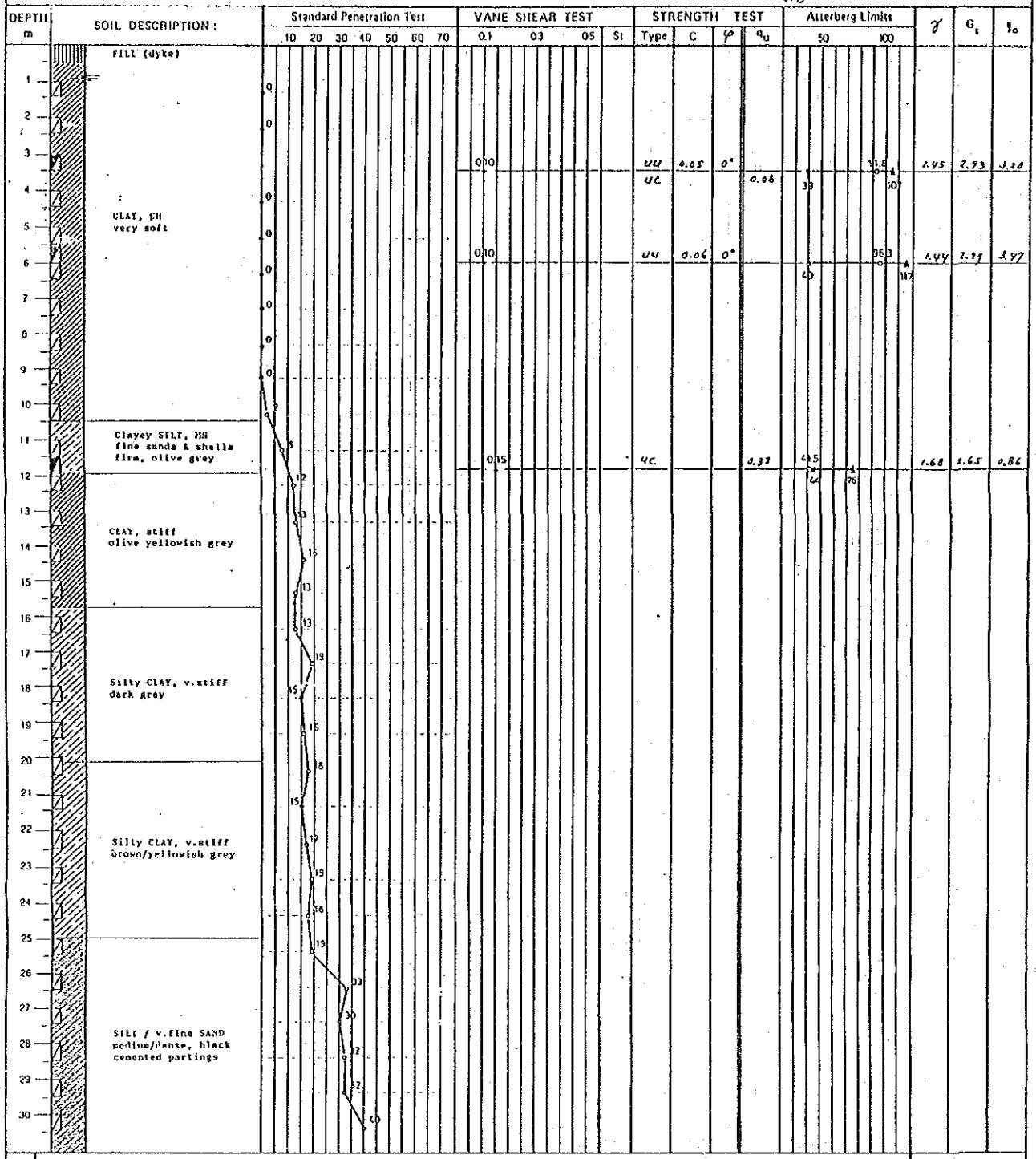


Figure 6


PROJECT : Waste Management Study
LOCATION :
STA. / CH. :
GROUND WATER LEVEL : -2.05m
BORING DEPTH: 20
GROUND SURFACE LEVEL: 2.94 m
DEPTH m
SOIL DESCRIPTION :
Standard Penetration Test
VANE SHEAR TEST
STRENGTH TEST
Atterberg Limits
Pavement
CLAY, CH very soft brownish to dark grey
Silty CLAY, CH-MH stiff, greyish brown
SILT, non plastic shells, cemented brown
Silty CLAY, v.stiff, brittle, brownish grey . low plasticity
Clayey SILT, MH cemented partings/ gravels, brown
UU
UU
UU
NOTATIONS :
SPT = Standard Penetration Test (blows/30 cm)
+ = Undisturbed Vane Shear Strenth kg/cm²
x = Remolded Vane Shear Strength kg/cm²
qu = Unconfined Compressive Strength kg/cm²
St = Sensitivity
c = Cohesion kg/cm²
φ = Angle of internal friction
UU = Unconsolidated Undrained
CU = Consolidated Undrained
CD = Consolidated Drained
o = wn = moisture content %
• = wp = plastic limit %
Δ = wl = liquid limit %
γ = bulk density g/cc
Gs = specific gravity
eo = void ratio
BOREHOLE No.:
B 1
THIN WALLED
SPT
CORING
BENOWO


PROJECT : Waste Management Study
LOCATION :
STA. / CH. :
GROUND WATER LEVEL :
GROUND SURFACE LEVEL: 7.886
BORING DEPTH: 18 m
DEPTH m
SOIL DESCRIPTION :
Standard Penetration Test
VANE SHEAR TEST
STRENGTH TEST
Atterberg Limits
FILL (dyke)
CLAY, CH
very soft
brownish - dark grey
Clayey SILT, MH
firm - stiff,
olive grey
Sandy SILT,
non-plastic
stiff, brittld
Clayey SILT, MH
brownish grey
Type
C
φ
qu
St
UU
0.06
6°
UU
0.3
20°
UC
0.58
NOTATIONS :
SPT = Standard Penetration Test (blows/30 cm)
+ = Undisturbed Vane Shear Strenth kg/cm²
x = Remolded Vane Shear Strength kg/cm²
qu = Unconfined Compressive Strength kg/cm²
Si = Sensitivity
c = Cohesion kg/cm²
φ = Angle of internal friction
UU = Unconsolidated Undrained
CU = Consolidated Undrained
CD = Consolidated Drained
o = wn = moisture content %
▪ = wp = plastic limit %
▲ = wl = liquid limit %
γ = bulk density g/cc
Gs = specific gravity
eo = void ratio
BOREHOLE No.:
B 2
THIN WALLED
SPT
CORING
BENOWO

PROJECT : Waste Management Study LOCATION : STA - / CH. : GROUND WATER LEVEL : -0.50 m BORING DEPTH: 30 m GROUND SURFACE LEVEL: 2.8



NOTATIONS :

SPT = Standard Penetration Test (blows/30 cm)
\+ = Undisturbed Vane Shear Strength kg/cm²
x = Remolded Vane Shear Strength kg/cm²
q_u = Unconfined Compressive Strength kg/cm²
S_t = Sensitivity

c = Cohesion kg/cm²
φ = Angle of internal friction
UU = Unconsolidated Undrained
CU = Consolidated Undrained
CD = Consolidated Drained

o = w_n = moisture content %
• = w_p = plastic limit %
Δ = w_l = liquid limit %
γ = bulk density g/cc
G_s = specific gravity
e_o = void ratio

BOREHOLE No.: B 3

▯ – THIN WALLED ▯ – SPT ▯ – CORING BENOWO

UNCONFINED COMPRESSION TEST

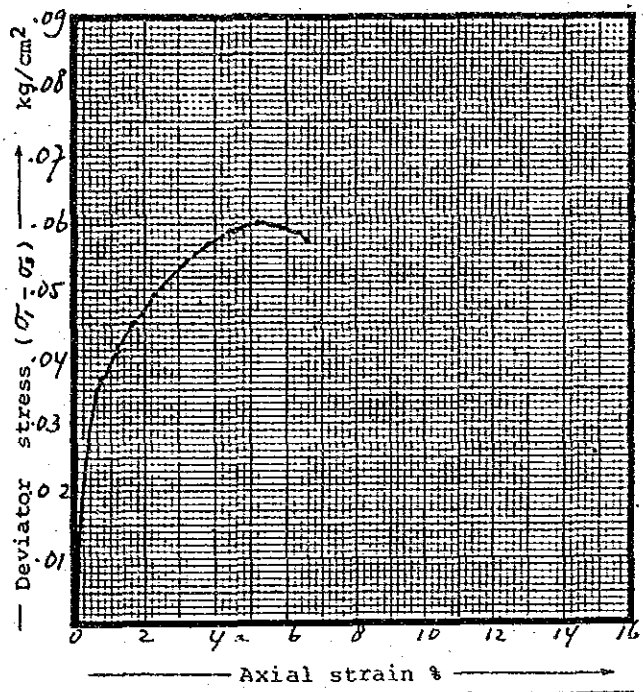
Project : Waste Management Study

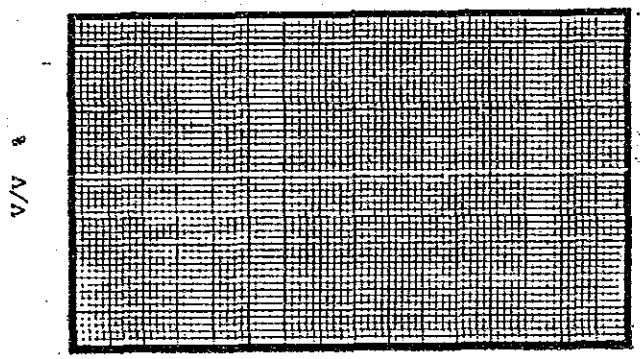
Location : Benowo

Bore hole : B3

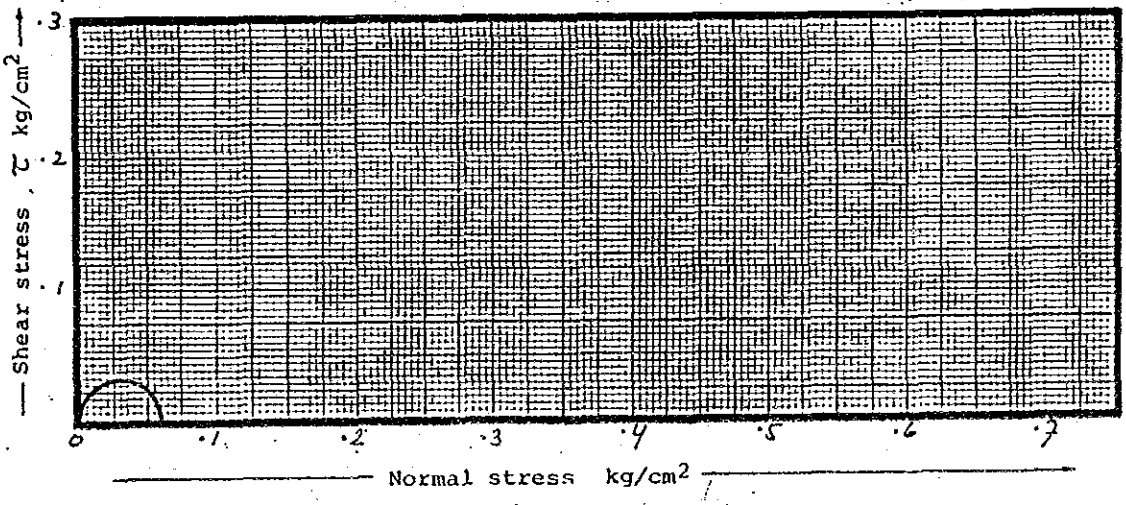
Sample depth : 3.00 - 3.50 m

Sample description : _____





Sample No	1		
Consolidation press kg/cm²	–		
Lateral press kg/cm²	–		
Deviator stress kg/cm²	0.06		
Volume change %			
Strain at Failure %	5.16		
Bulk density gr/cm³	1.46		
Initial void ratio			
Initial water content %			
Saturation %			
Specific gravity			
Cohesion kg/cm²	0.03		
Angle of internal friction φ	0°		



UNCONFINED COMPRESSION TEST

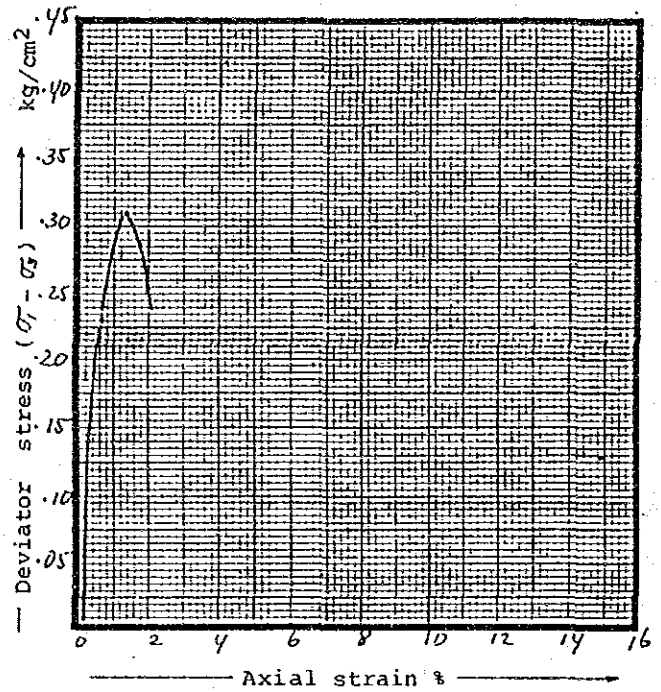
Project : Waste Management Study

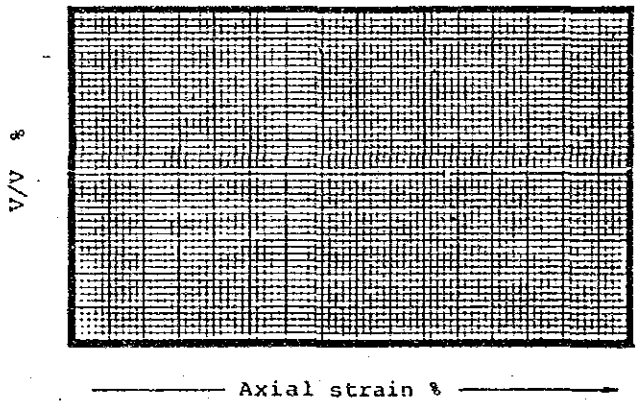
Location : Benowo

Bore hole : B-3

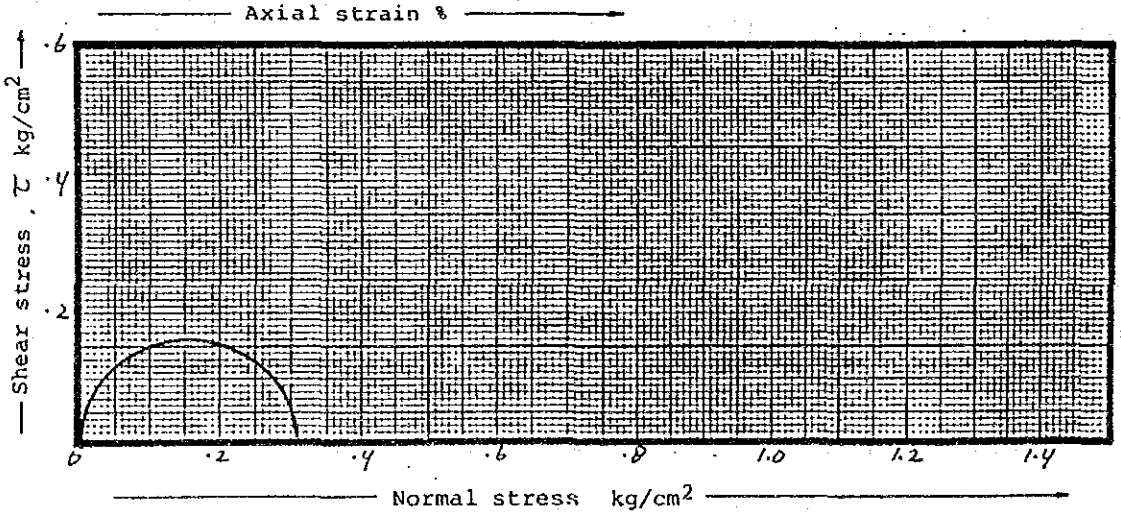
Sample depth : 11.50 - 12.00 m

Sample description : _____





Sample No	1		
Consolidation press kg/cm²	–		
Lateral press kg/cm²	–		
Deviator stress kg/cm²	0.31		
Volume change %			
Strain at Failure %	1.29		
Bulk density gr/cm³	1.68		
Initial void ratio			
Initial water content %			
Saturation %			
Specific gravity			
Cohesion kg/cm²	0.16		
Angle of internal friction φ	0°		



UNCONFINED COMPRESSION TEST

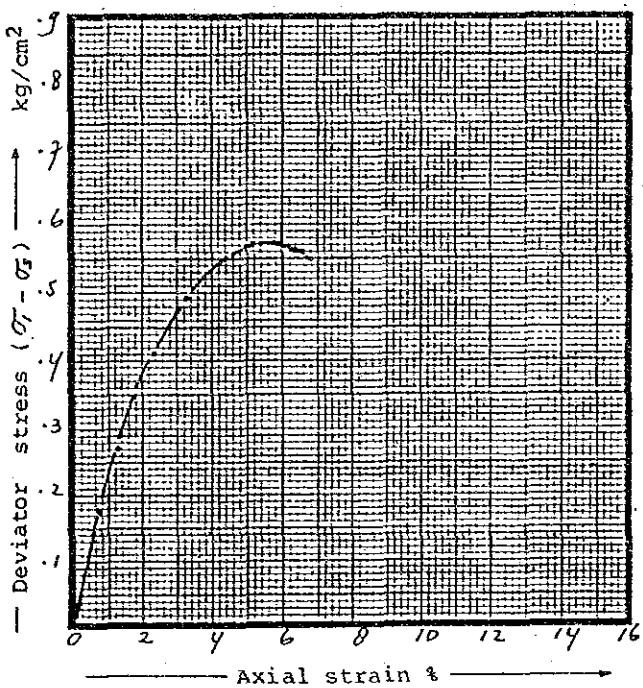
Project : Waste Management Study

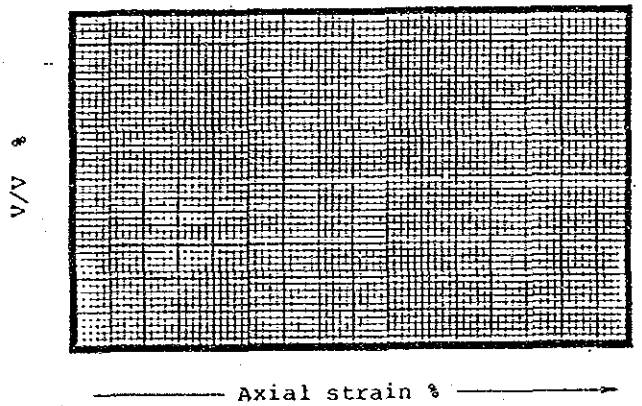
Location : Benowa

Bore hole : B2

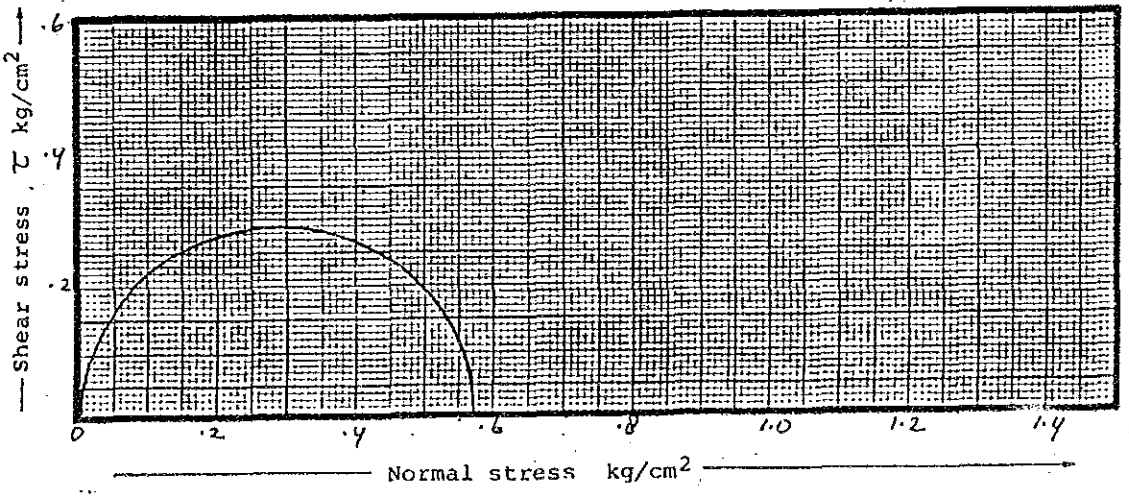
Sample depth : 17.50 - 18.00m.

Sample description : _____

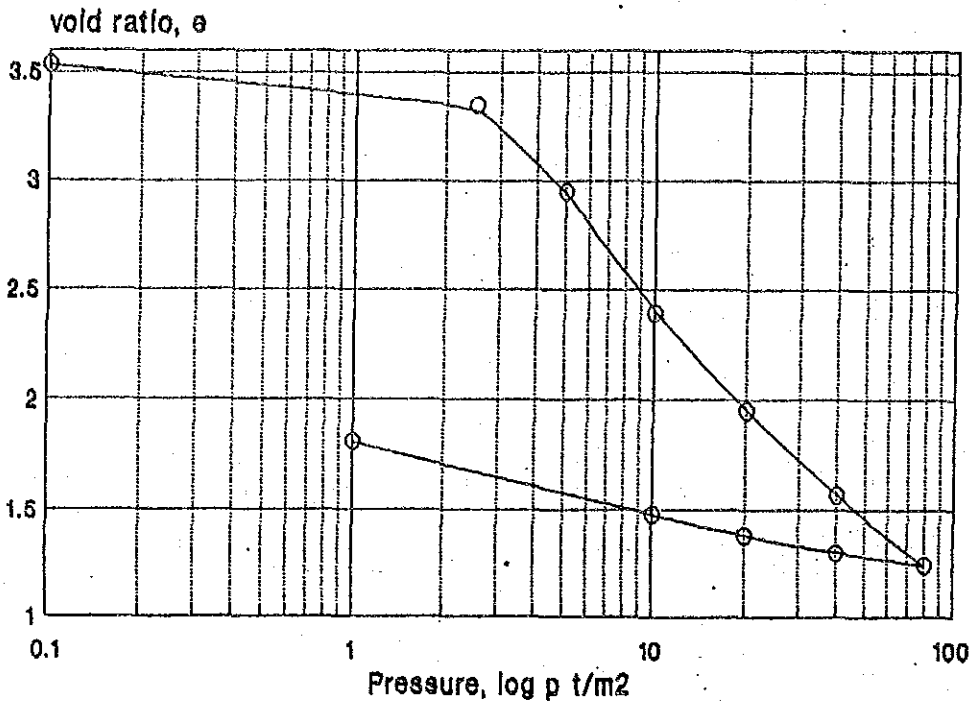


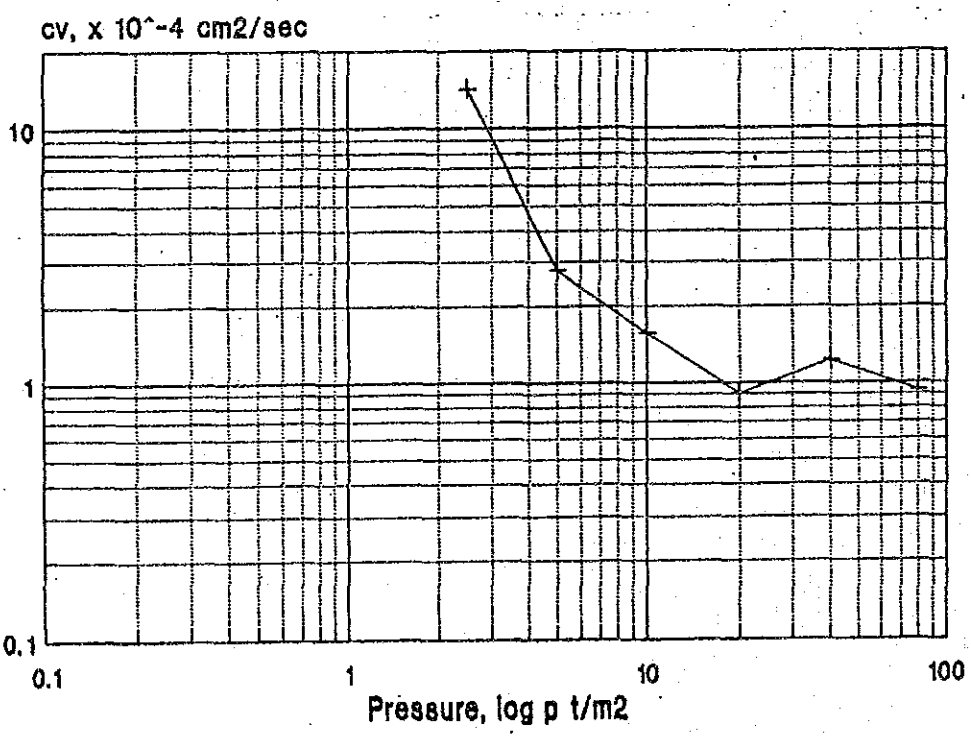


Sample No	1		
Consolidation press kg/cm²	–		
Lateral press kg/cm²	–		
Deviator stress kg/cm²	0.57		
Volume change %			
Strain at Failure %	5.16		
Bulk density gr/cm³	1.84		
Initial void ratio			
Initial water content %			
Saturation %			
Specific gravity			
Cohesion kg/cm²	0.29		
Angle of internal friction φ	0°		



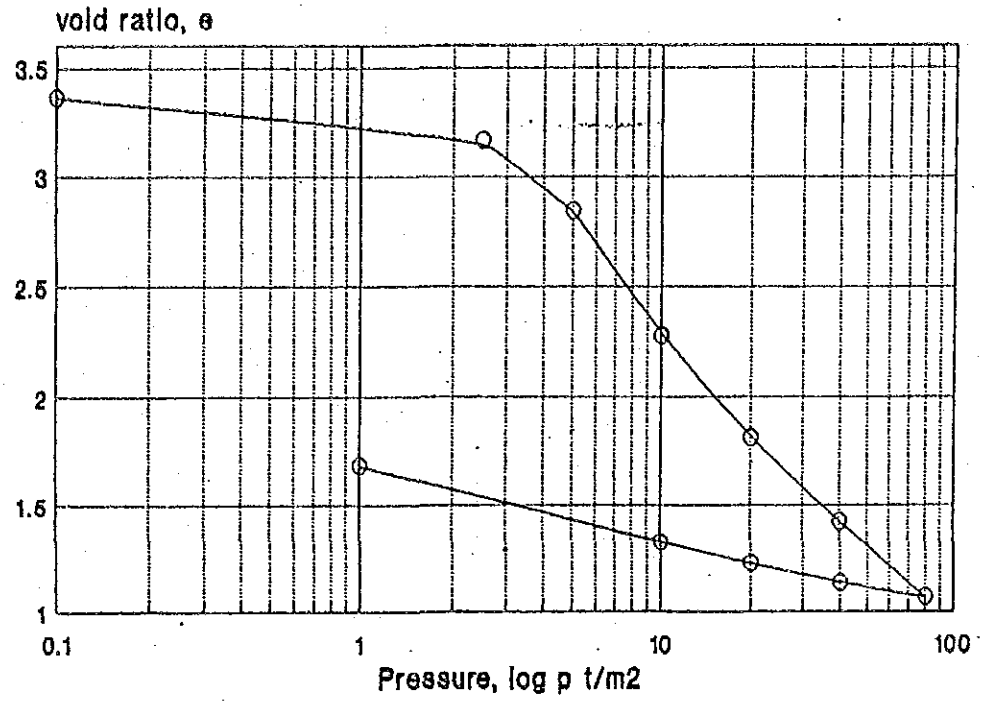
e - log p



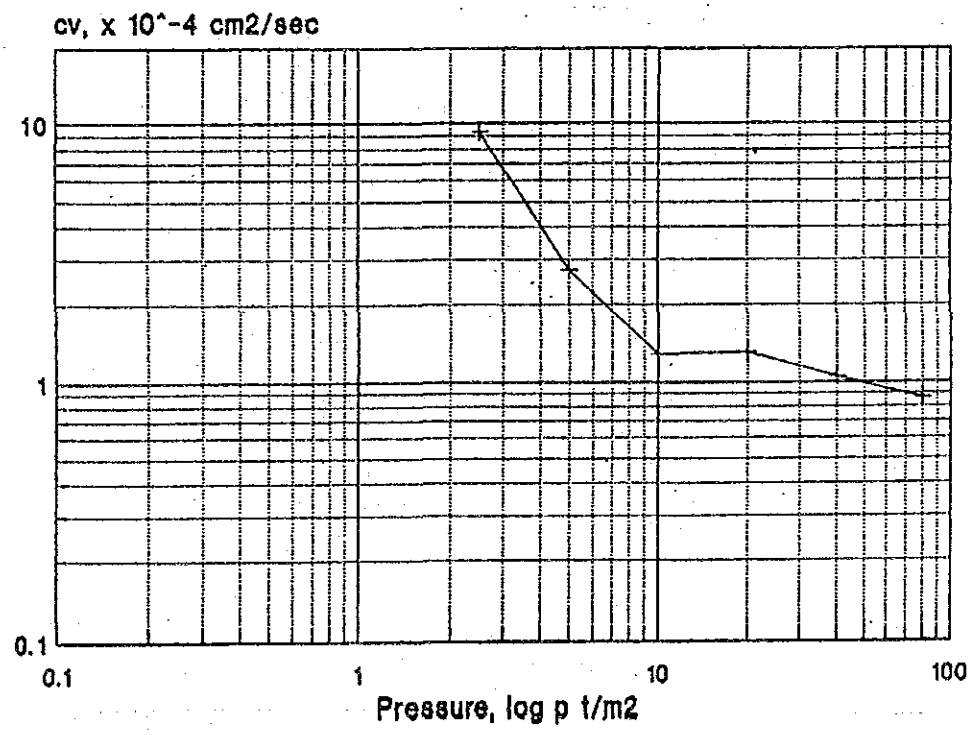


B1 : 3-3.50m

e - log p

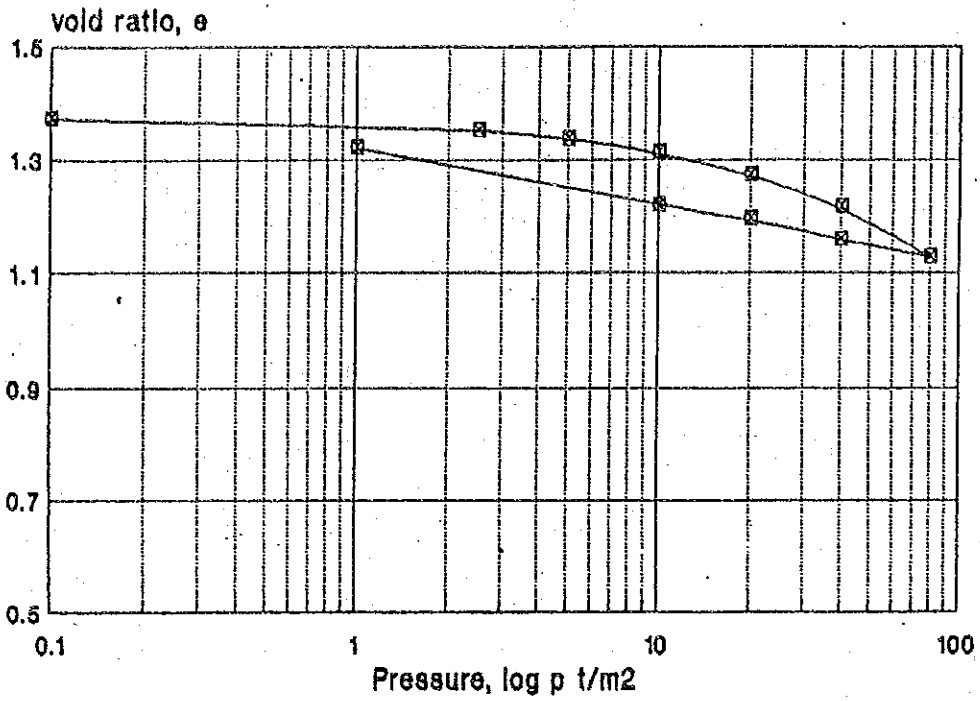


coefficient of consolidation, cv

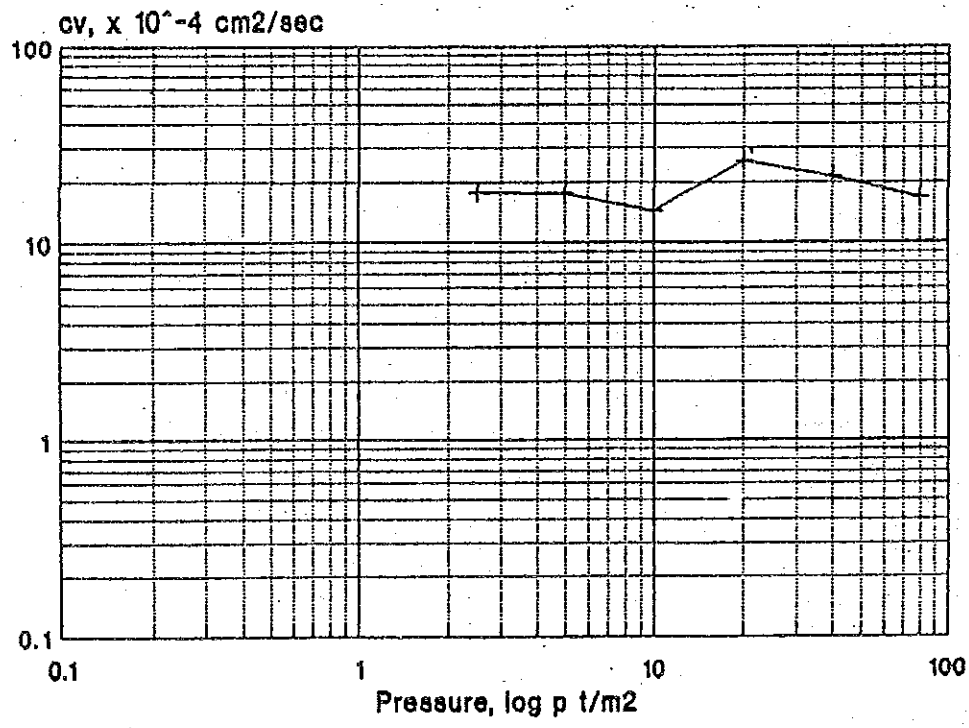


B1 : 9-9.50m

e - log p

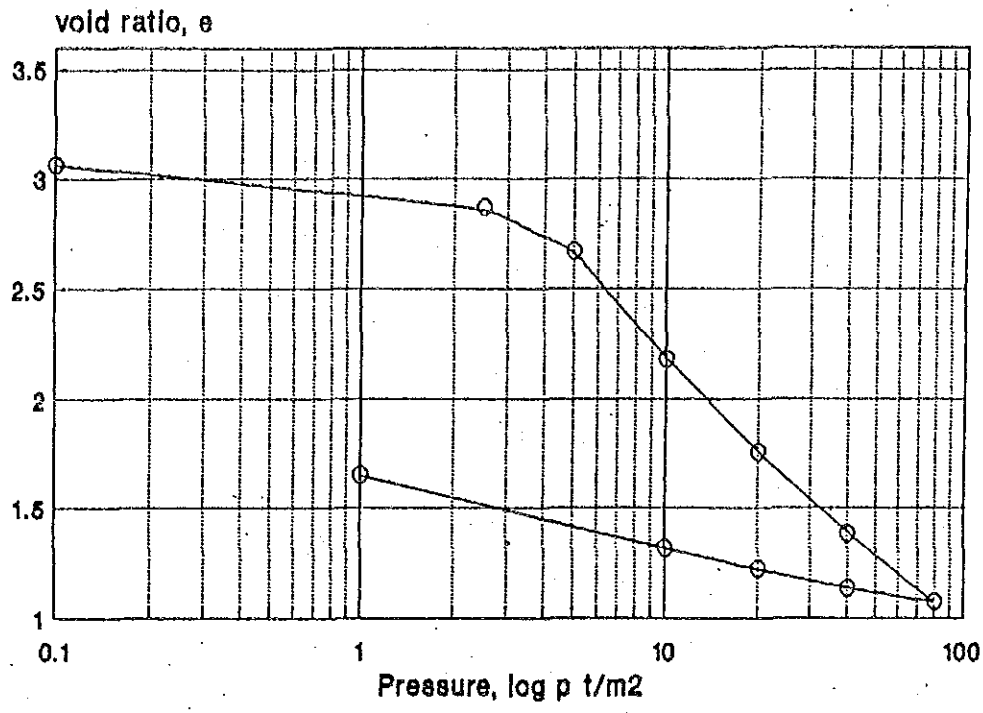


coefficient of consolidation, cv

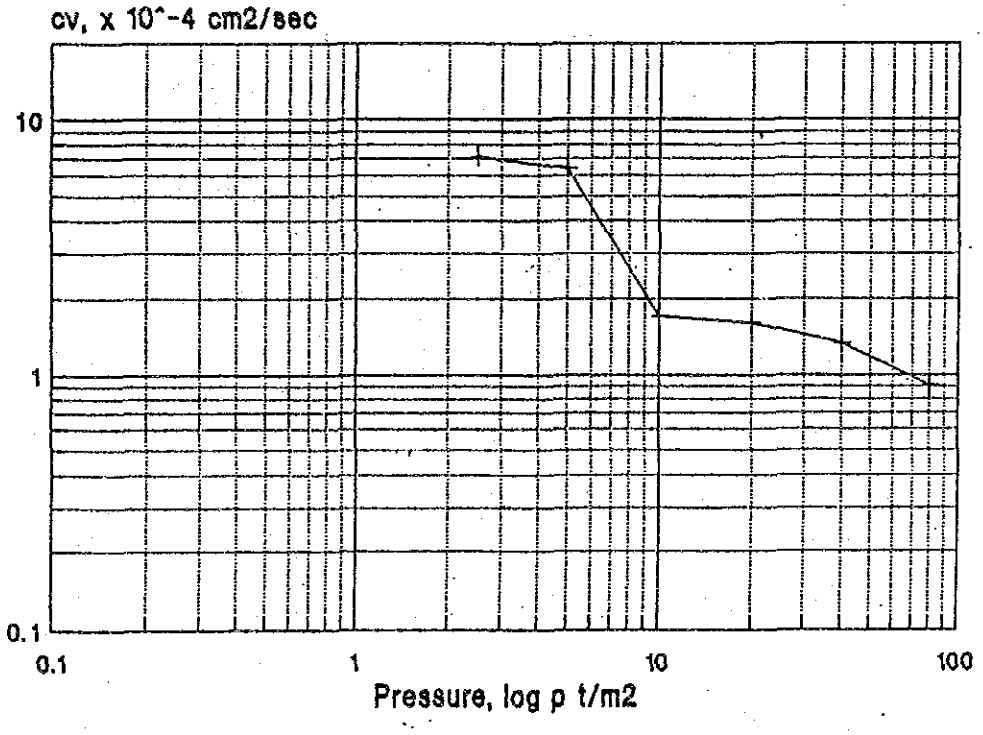


B1 : 19.50-19.80m

e - log p

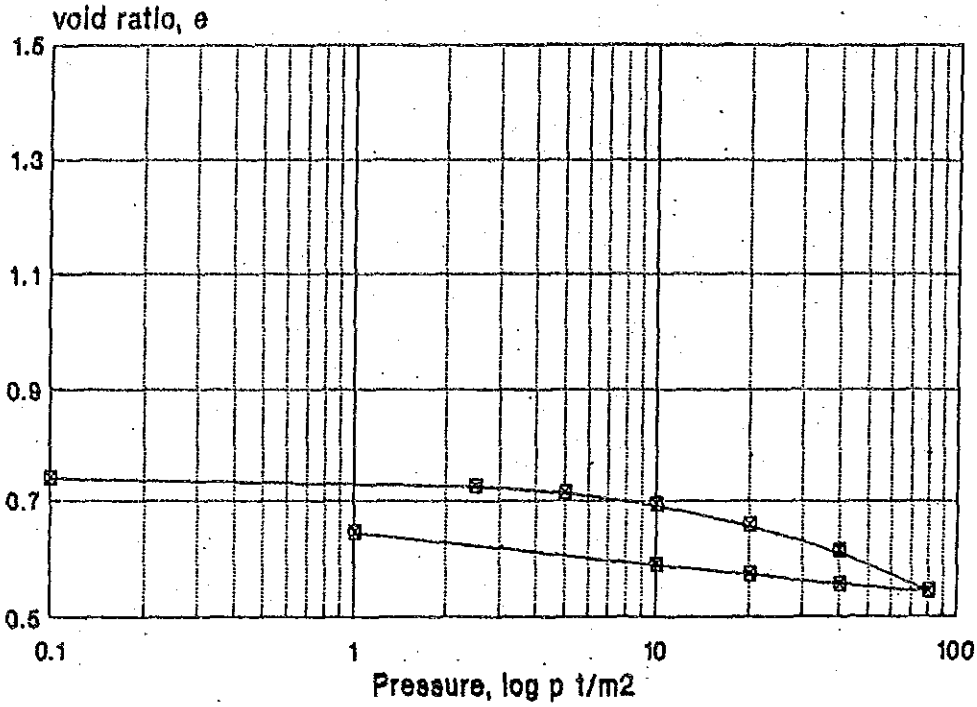


coefficient of consolidation, cv

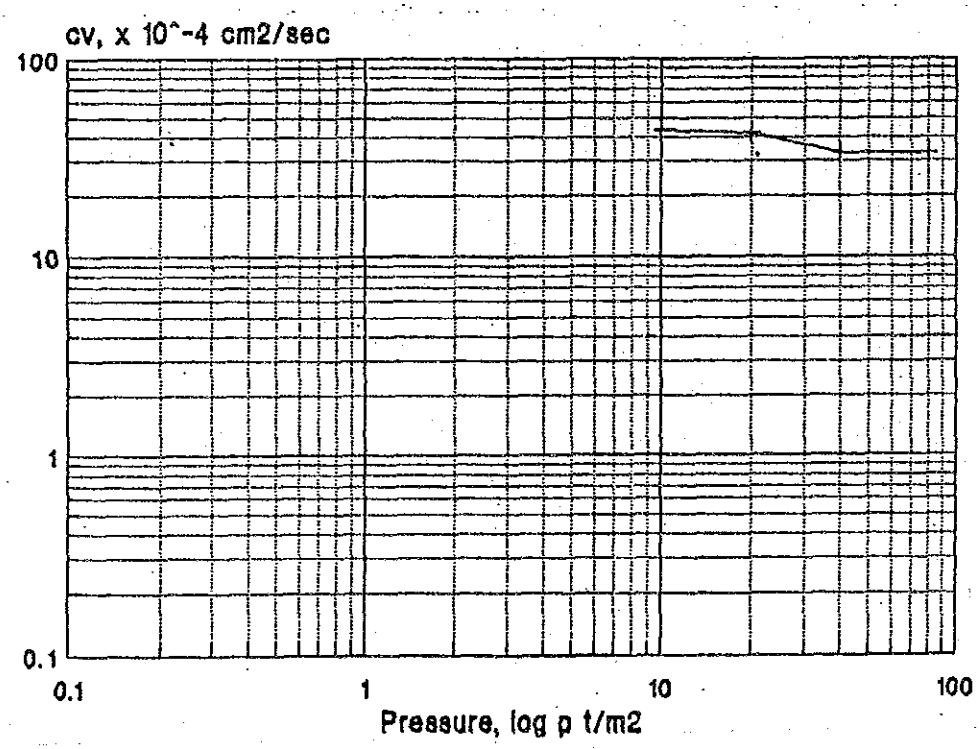


B2 : 6-6.50m

e - log p

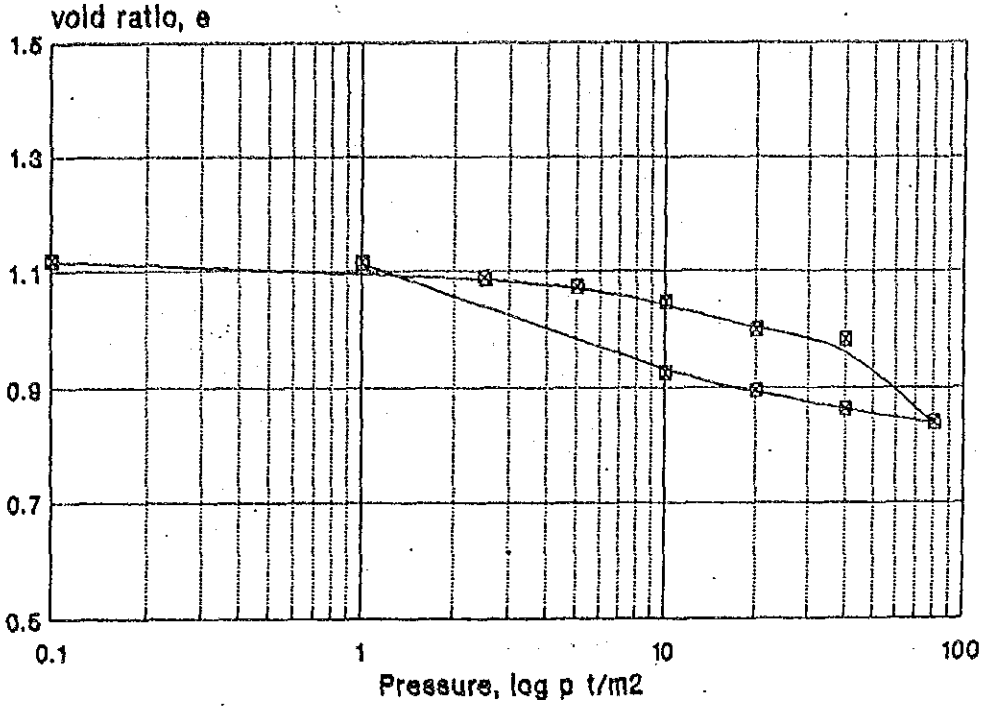


coefficient of consolidation, cv

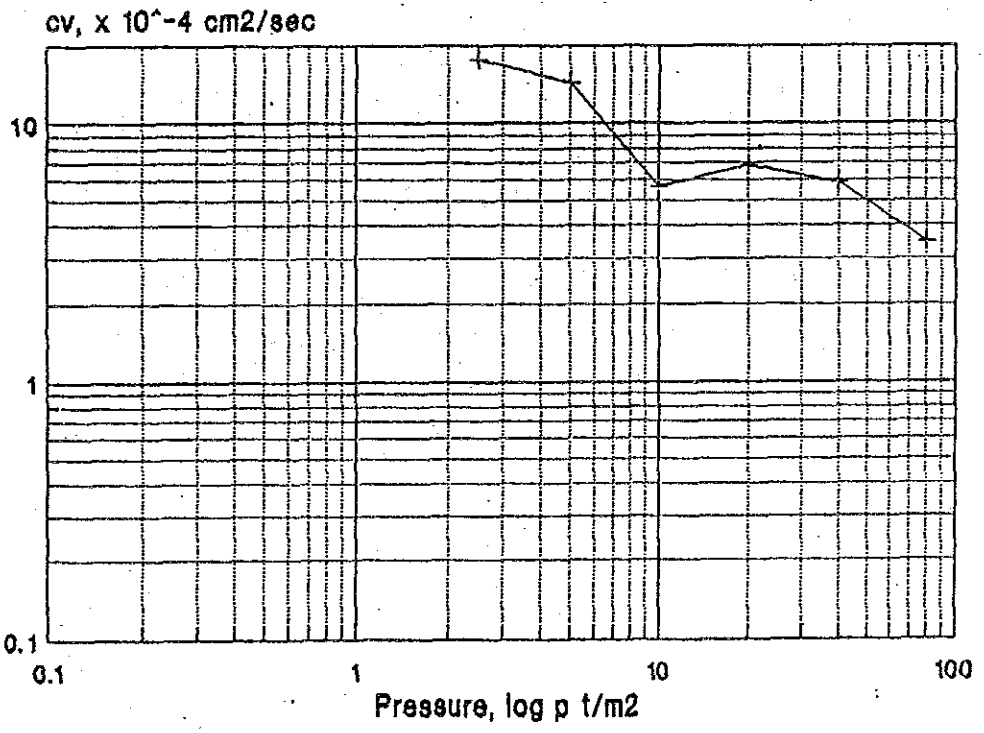


B2 : 15-15.30m

e - log p

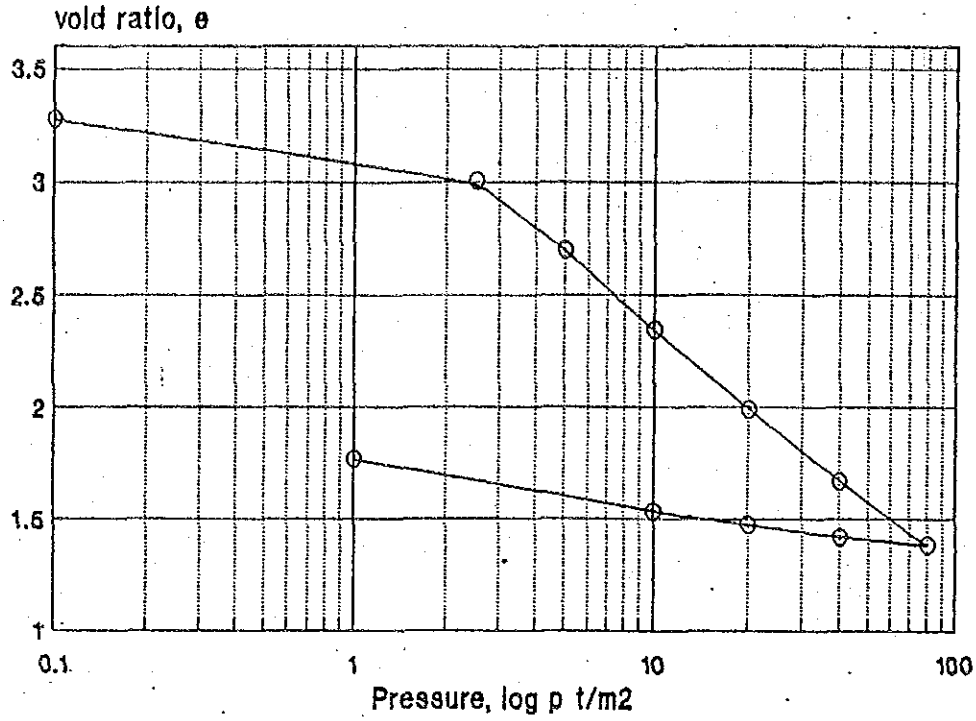


coefficient of consolidation, cv

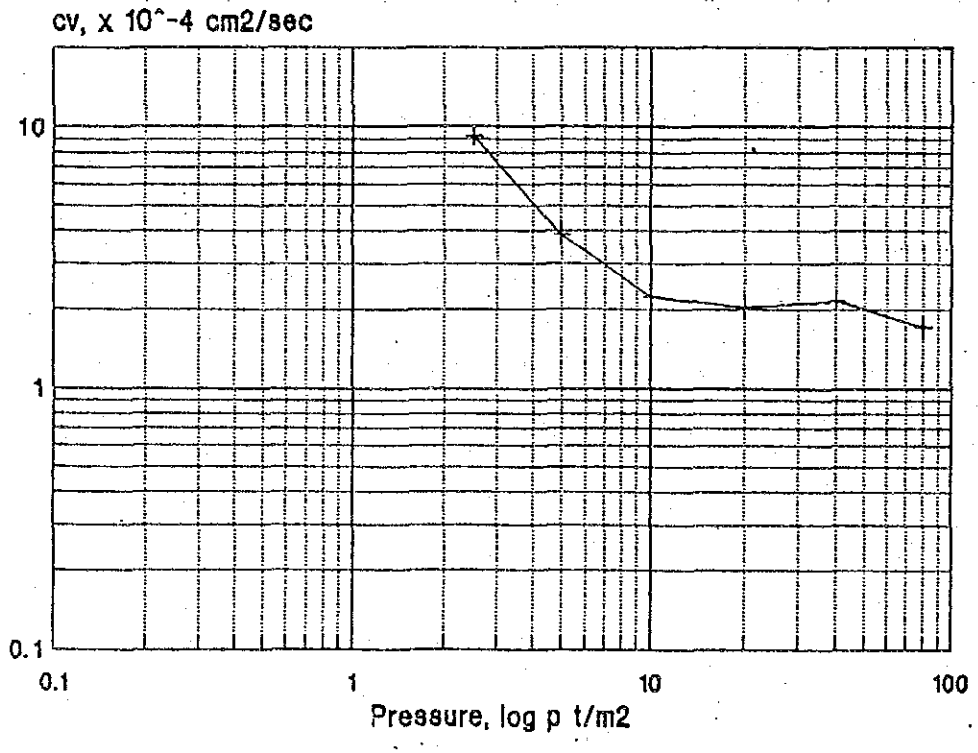


B2 : 17.50-18m

e - log p

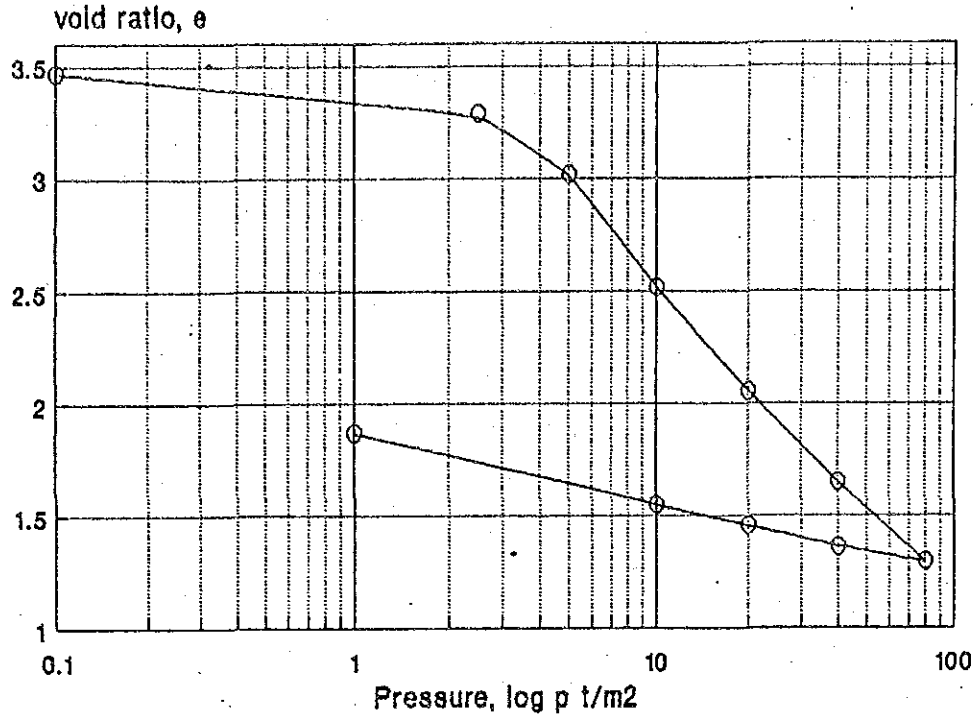


coefficient of consolidation, cv

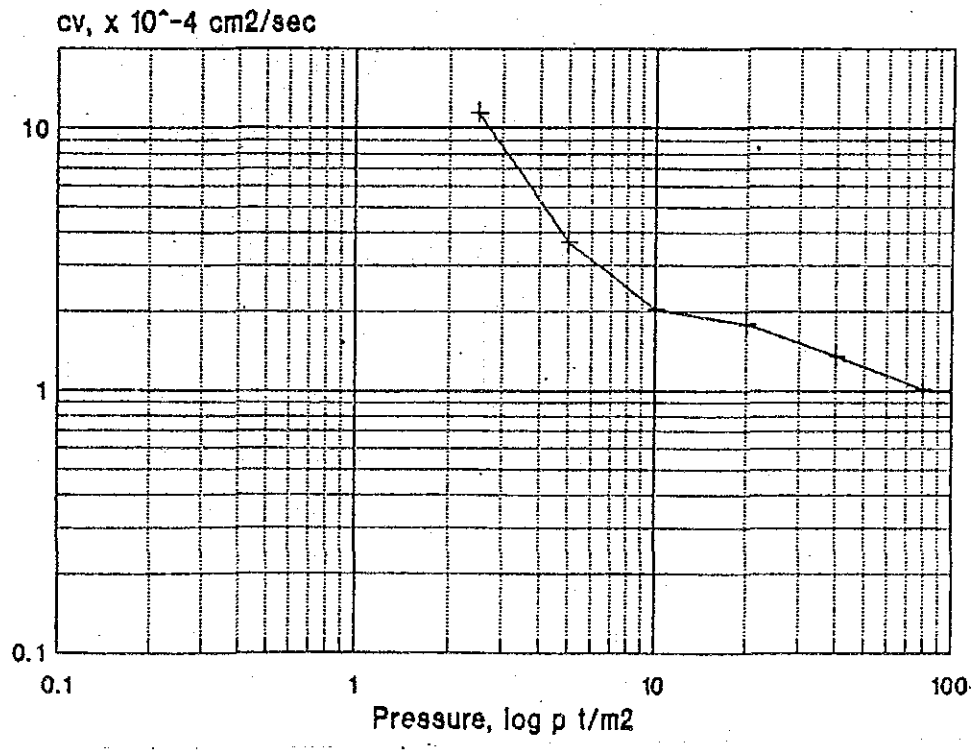


B3 : 3.0-3.50m

e - log p

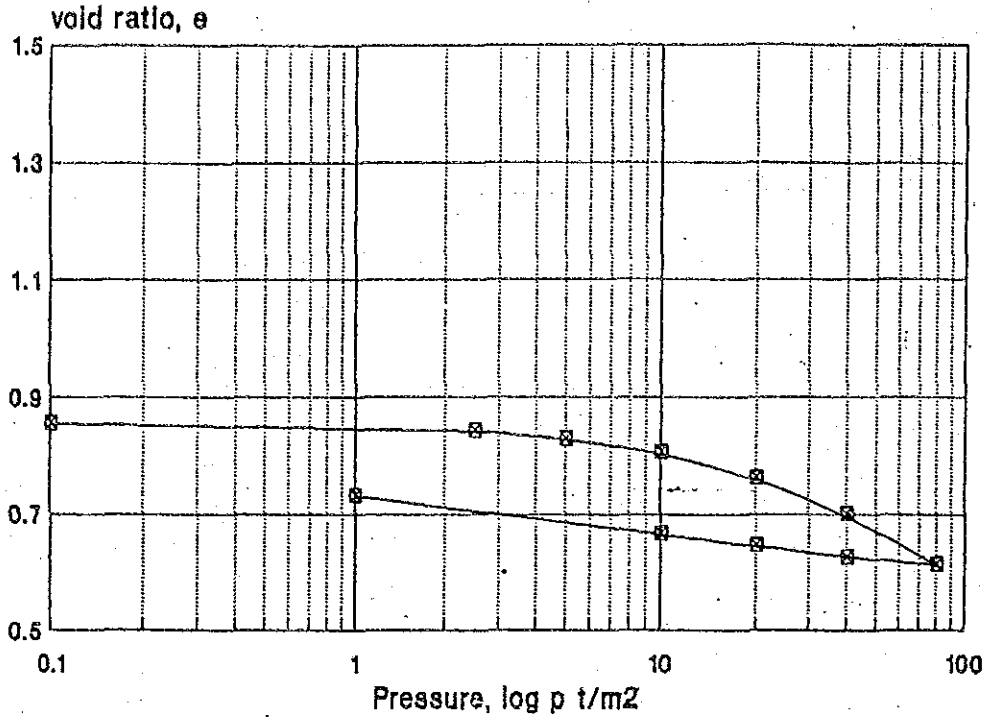


coefficient of consolidation, cv

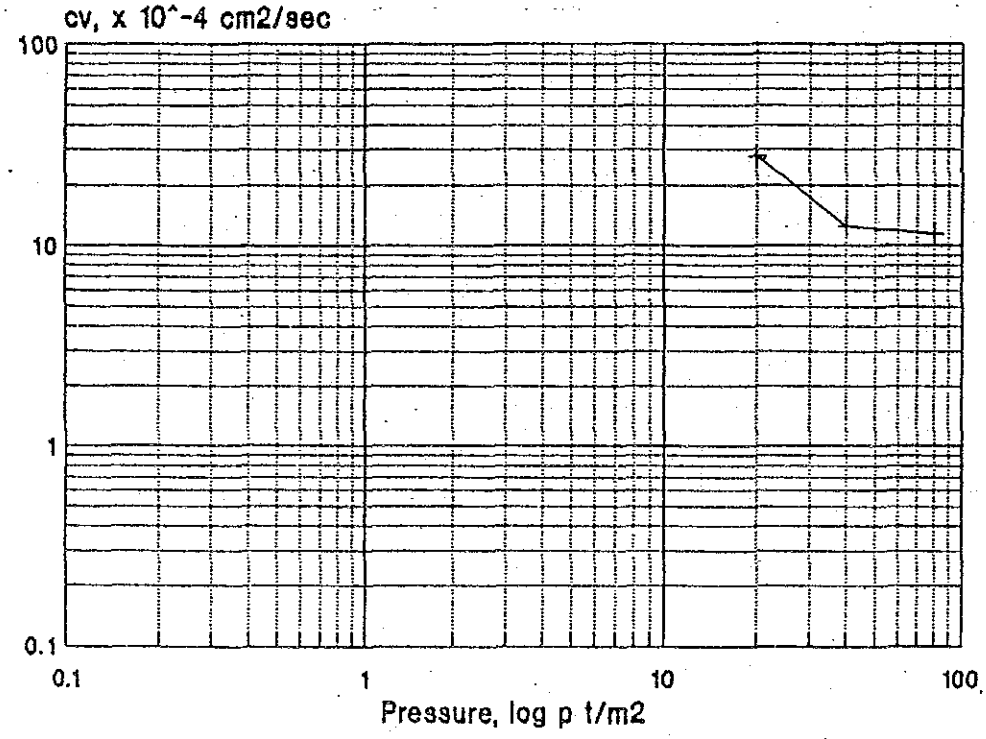


B3 : 5.50-6.0m

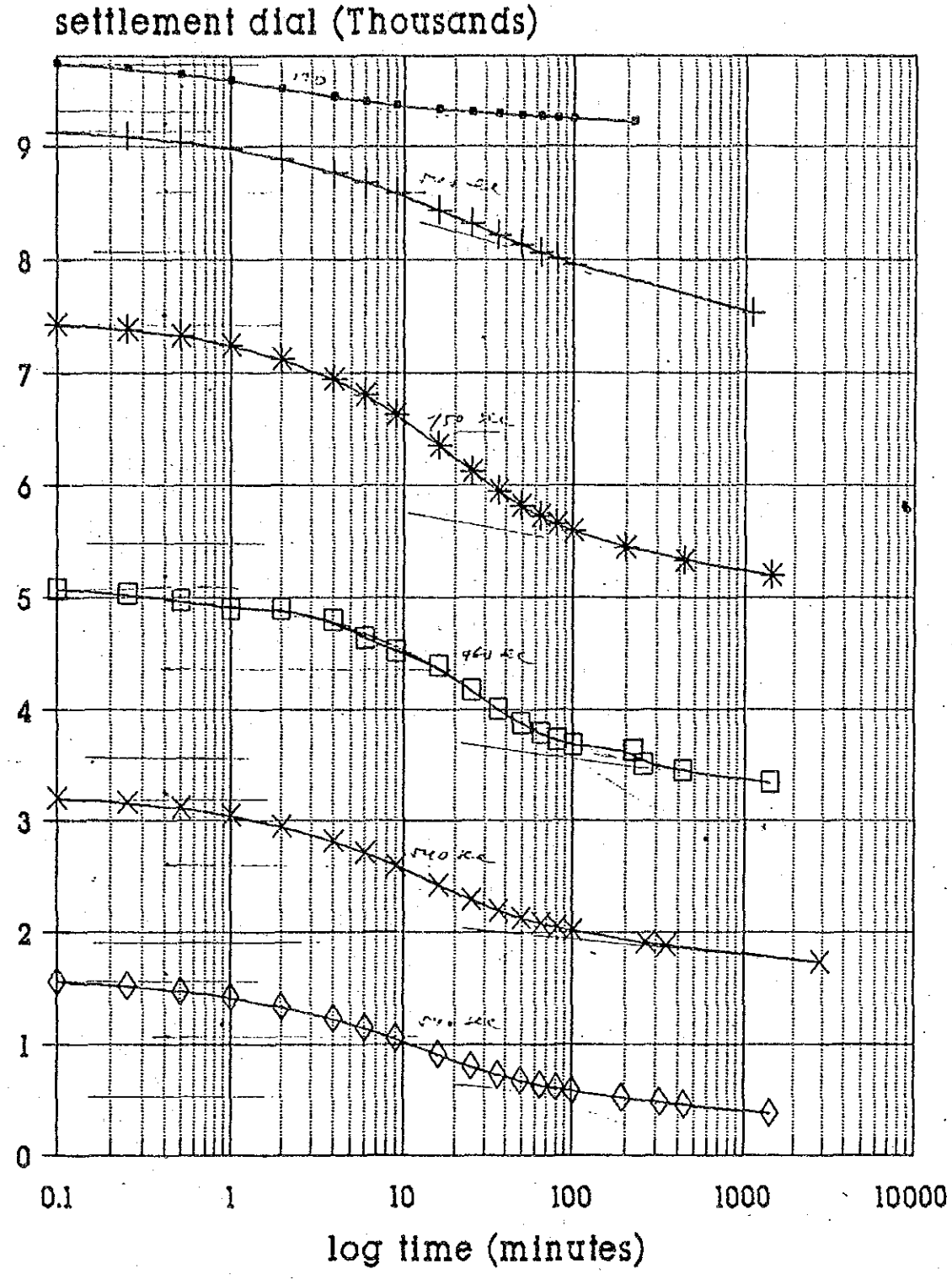
e - log p



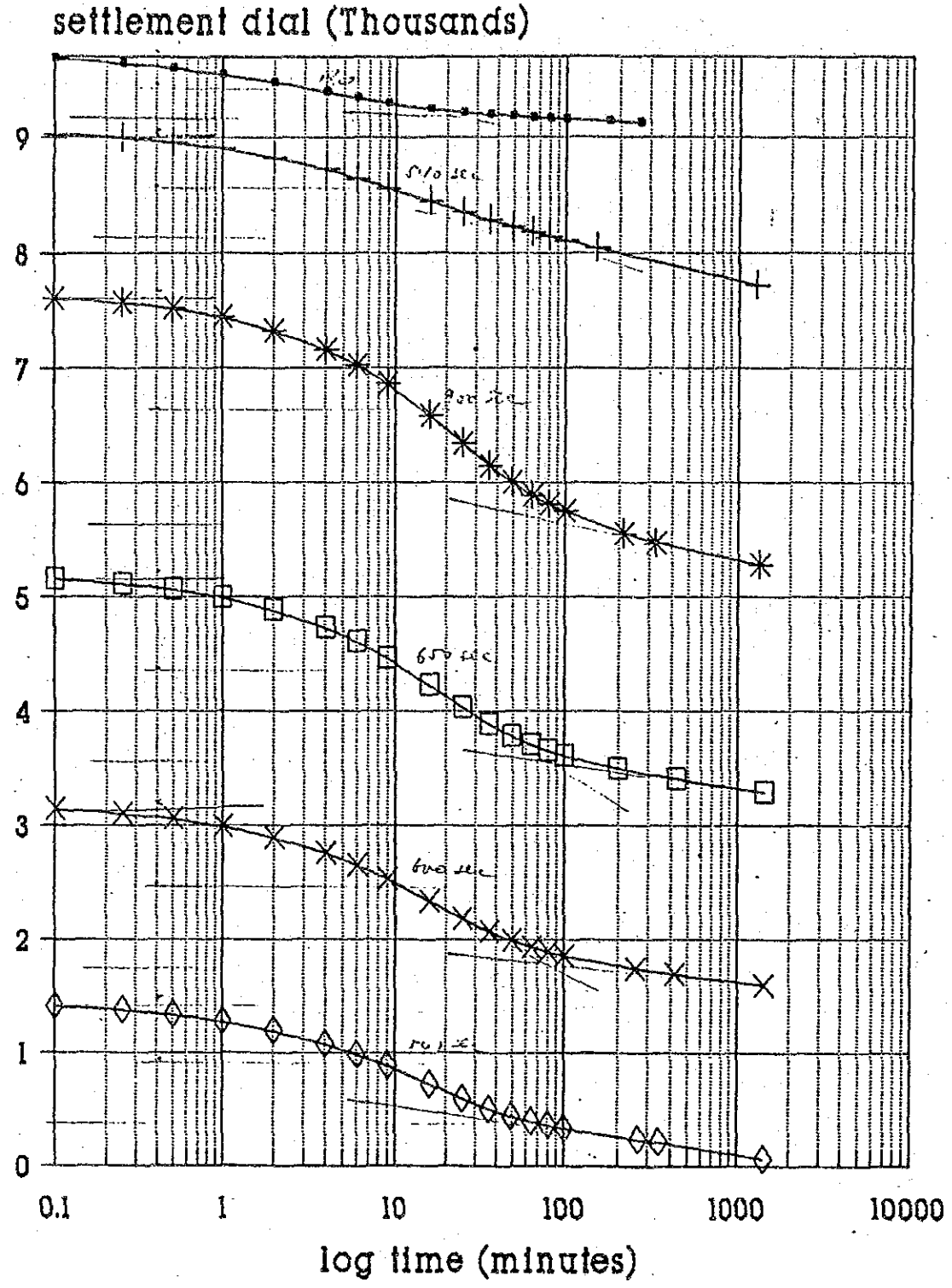
coefficient of consolidation, cv



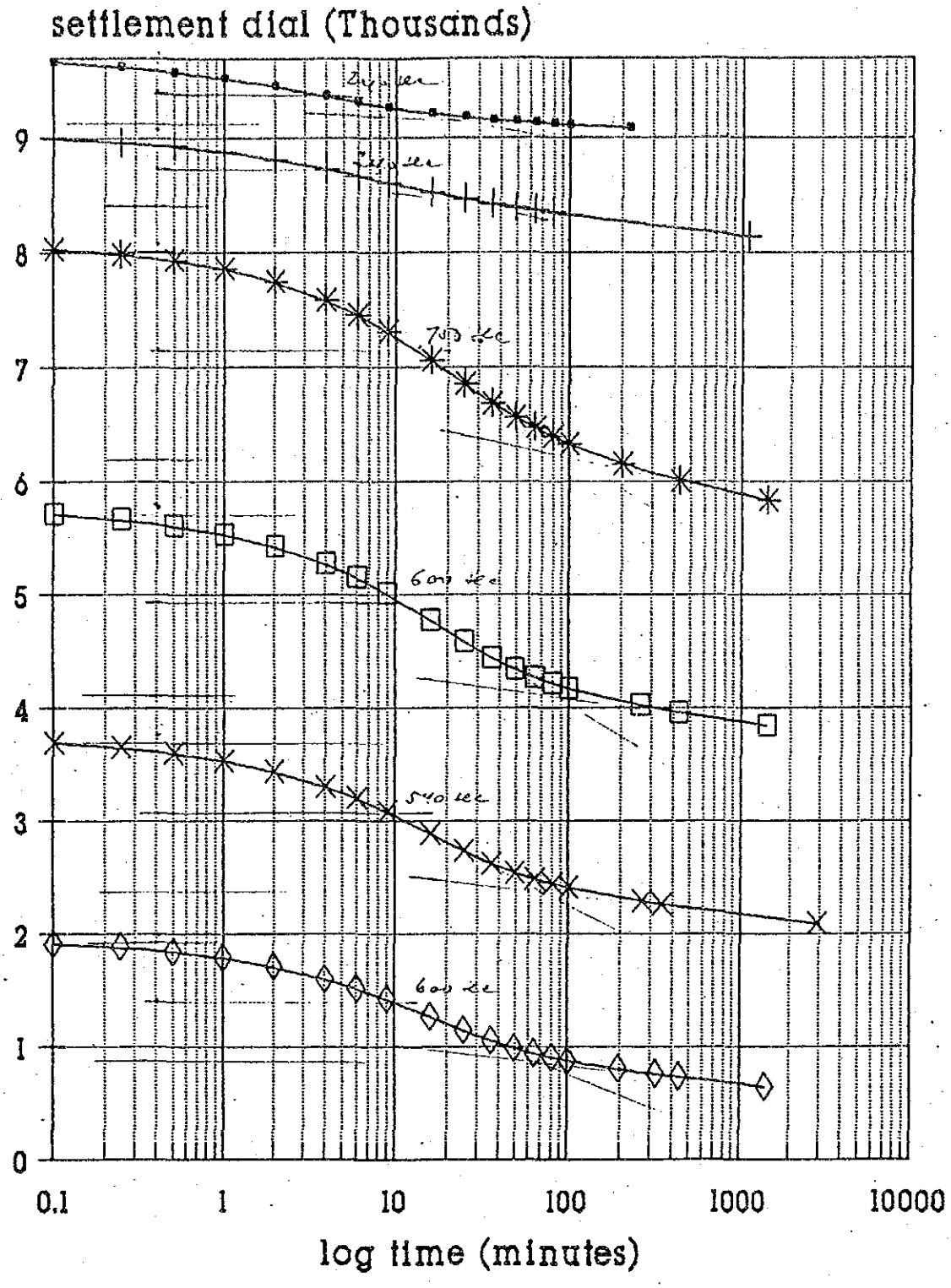
B3 : 11.50-12m


settlement dial (Thousands)
9
8
7
6
5
4
3
2
1
0
0.1
1
10
100
1000
10000
log time (minutes)

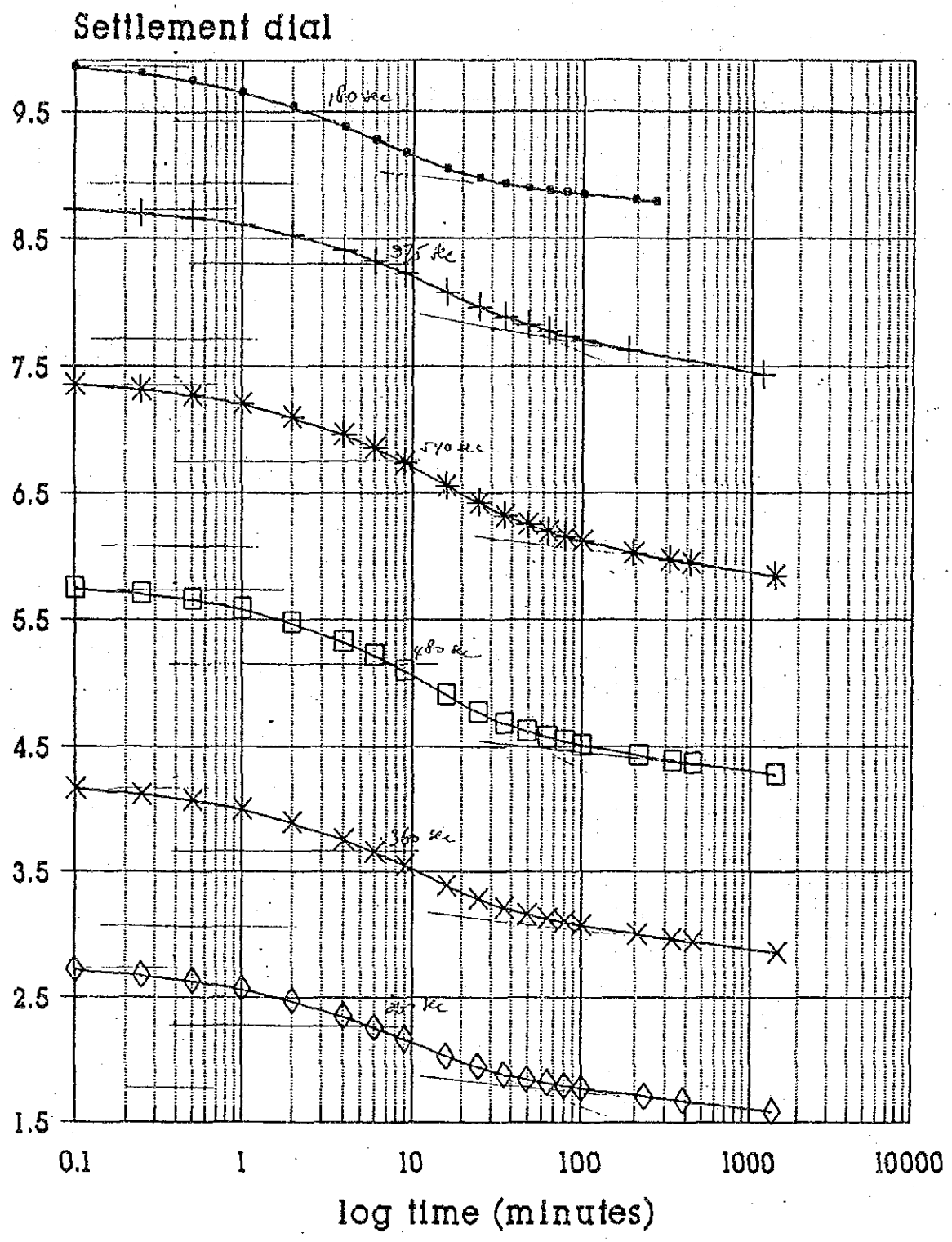
B1 : 3-3.50m


settlement dial (Thousands)
9
8
7
6
5
4
3
2
1
0
0.1
1
10
100
1000
10000
log time (minutes)

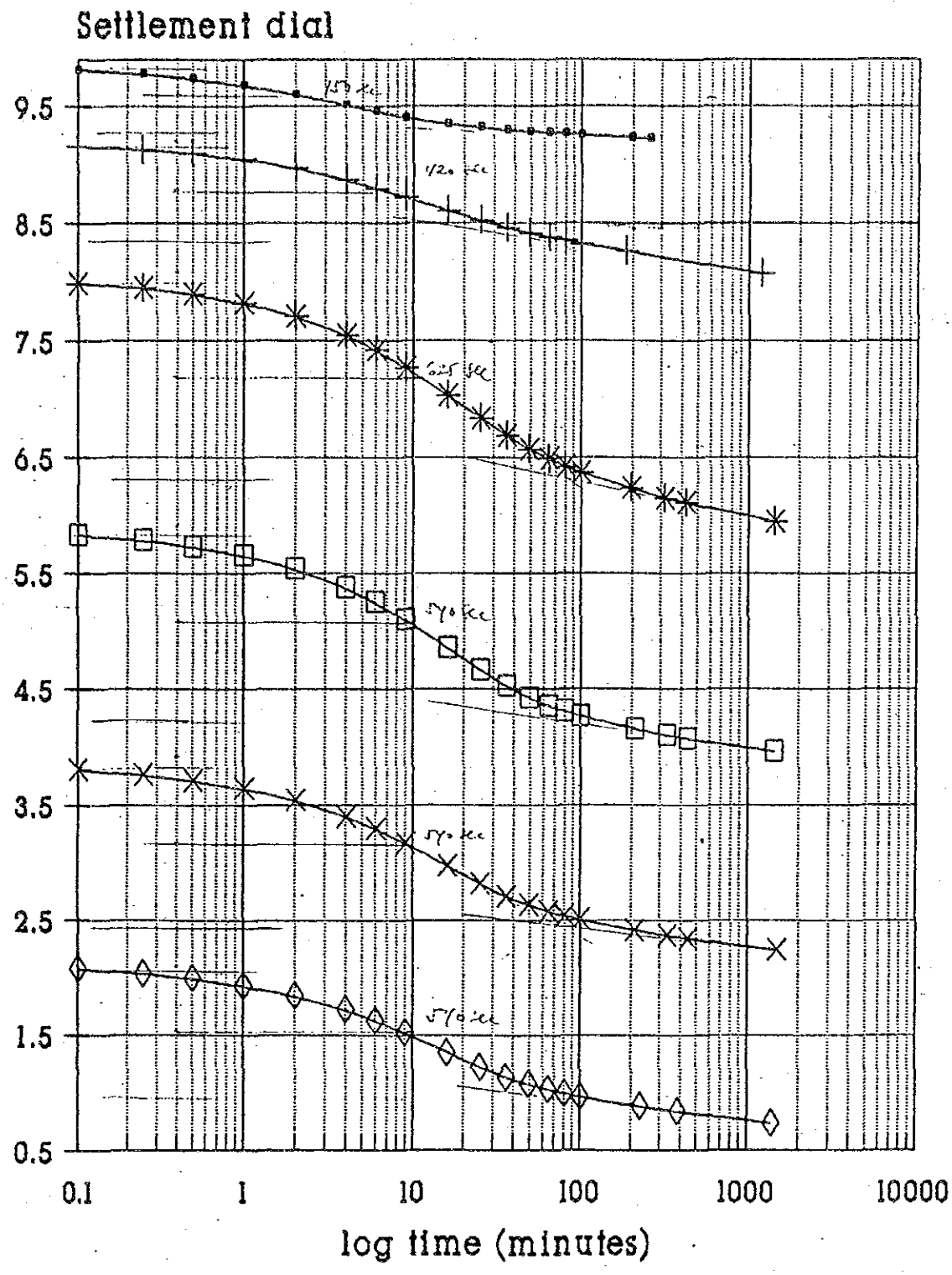
B1 : 9-9.50m


settlement dial (Thousands)
9
8
7
6
5
4
3
2
1
0
0.1
1
10
100
1000
10000
log time (minutes)

B2 : 6.0-6.50m


Settlement dial
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.1
1
10
100
1000
10000
log time (minutes)

B3 : 3.0-3.50m


Settlement dial
9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5
0.1
1
10
100
1000
10000
log time (minutes)

B3 : 5.50-6.0m

9.

LAND USE SURVEY

1. General Site Condition

1.1. Site Location

The proposed new Final Disposal Site (FDS) ordered to survey is located at the city edge of western developed area which is assigned by city authority. The activity in this area is not optimal yet and projected growth will be very slow because the ground condition is very bad (Ref. Geology Report). The Benowo FDS Location in the Surabaya Build Up Area is shown at Figure 1.

The survey area was conducted as requirement. It covers within a 500 meter radius of the new proposed disposal site as shown in Figure 2, including the Surabaya Base Map Grid System. Each grid original size is 50 cm by 50 cm in 1:5.000 scale map.

1.2. Typical Land Use Condition

Surround Benowo FDS, water pond is main livelihood for community in this area is dominant typical land use. There are many wind mills to arrange water circulation of the salt farm and the electricity tower across the land use area is influenced to propose the final disposal site.

Within the 500 meter radius only a few houses was build reasonly. Informal housing (without official permission) construct in this disposal area, at this location the population density is very low. We can find some dry land area in this area.

1.3. Site Measurement

The every land use area was measured with Computer Drafting Programme (AUTOCAD) from 1:5.000 final maps. The detail area measurement was shown at Figure 3 and total counted result describe as :

Ref.	Land Use Category	%	(Ha)
1.	Residential Lot or Area	0.074%	0.260
2.	Temporary Residential	0.580%	2.037
3.	Warehouse	0.296%	1.040
4.	Pond Area with No Usage	3.171%	11.130
5.	Fish Pond	23.618%	82.906
6.	Salt Pond	49.717%	174.520
7.	Pasture	1.775%	6.230
8.	Open Area with No Usage	0.339%	1.190
9.	River	0.003%	0.011
10.	Ditch	16.340%	57.360
11.	Road	0.002%	0.006
12.	Tread	4.085%	14.340
	Total		351.030

II. The Definition of Land Use Category

1. Residential Lot or Area (light orange)

   Individual house or a community which are build from brick masonry and the people lived in there for do our activity.

2. Temporary Residential lot or Area (dark pink)

   Individual house or a community which are build from woven bamboo or wood and the people lived in there for do our activity.

3. Warehouse (purple)

   There is a lot which build from woven bamboo or wood and used for temporary keeping the salt before they deliver/sold to the market.

4. Pond Area with No Usage (grey)

   There is only wet land, contain no water during survey period and not producing anything without any afford to this land, i.e : salt pond or fish pond.

5. Fish Pond (light green)

   There is land use for cultivation fish and any fisherment. As the other livelihood for community in this area.

6. Salt Pond (yellow)

   There is a lot which use for produce a salt with natural process, drying the sea water with sun heat.

7. Pasture (green)

   The land grows mainly by grass, and bush.

8. Open Area with no usage (dark orange)

   There is no building or any maintenance open area and no any plantation grow at that place, and the level are above high tide sea level.

9. River (Deep blue)

   River on target site, without lining/construction, which are naturaly formed and the flow direction very sensitive to sea level. No measurement to the width and depth of the channel.

10. Ditch (blue)

    Ditch around the salt pond which use for arrange the circulation water. Many wind mills are install at this irrigation side for supplying the sea water to the salt pond.

11. Road (red)

    Man made construction road and possible use for four wheels (or more) vehicle.

12. Tread (orange)

    Natural or minimum construction way only possible for walk and bicycle or uncontinue two wheel drive way.

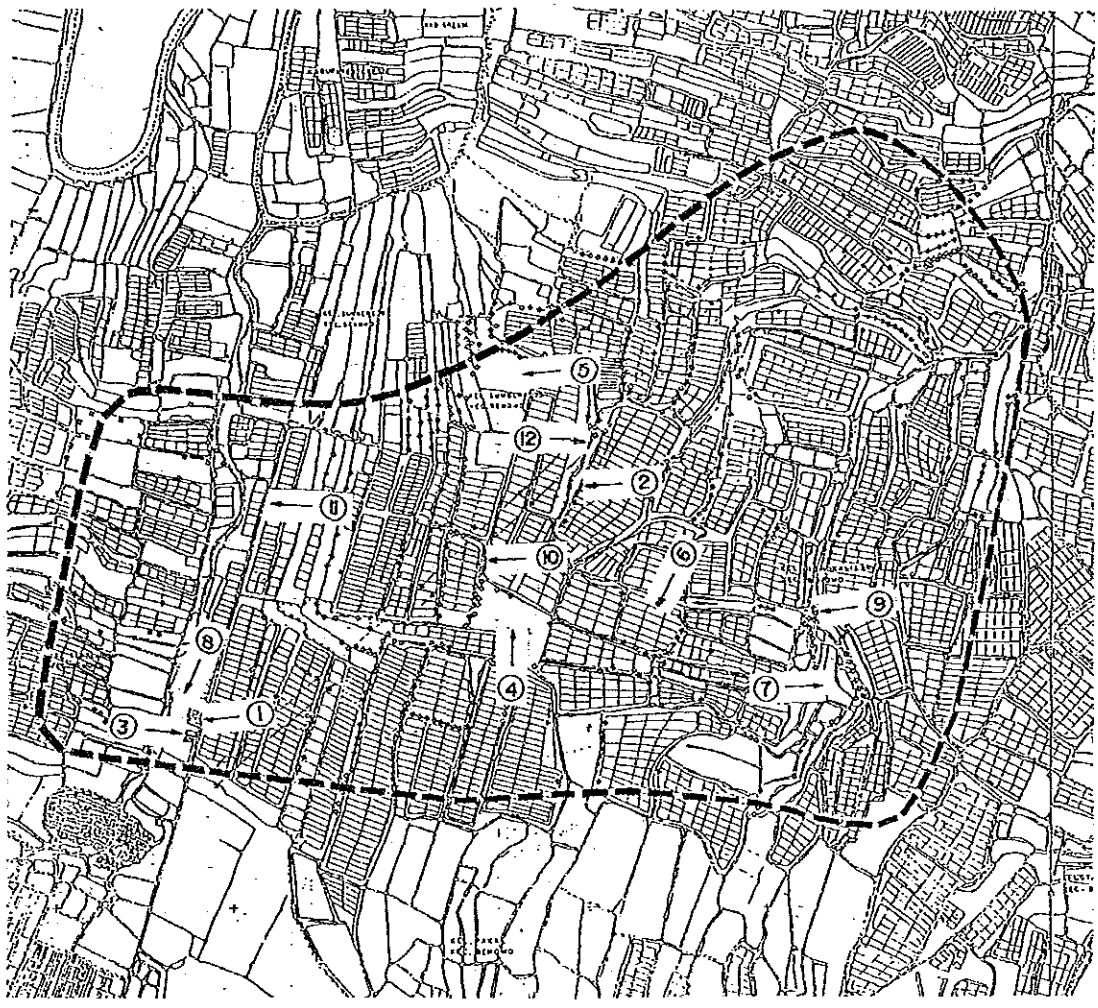
13. No colored (white)

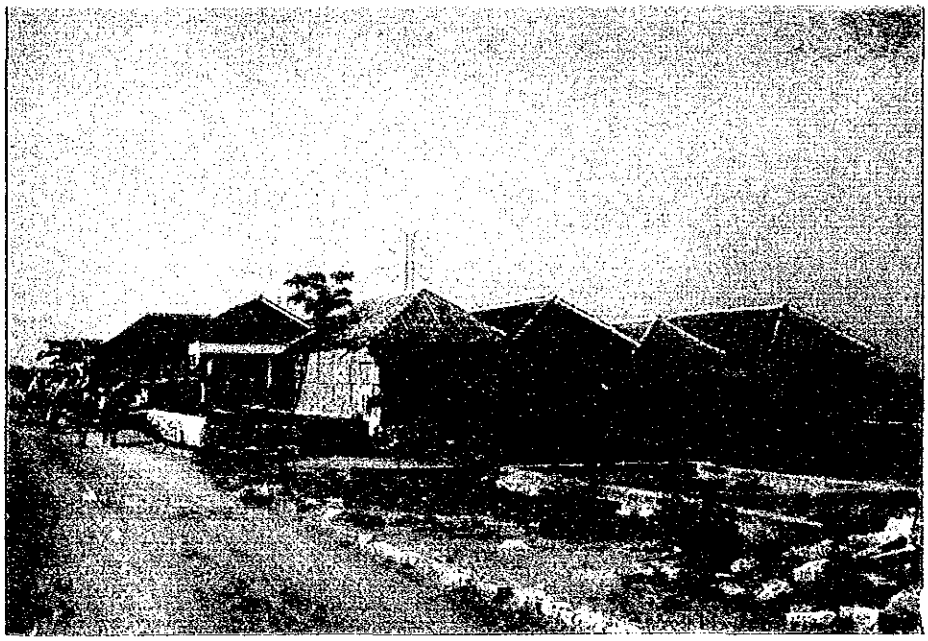
    Out of survey target area.

• Surabaya, November 1992 •

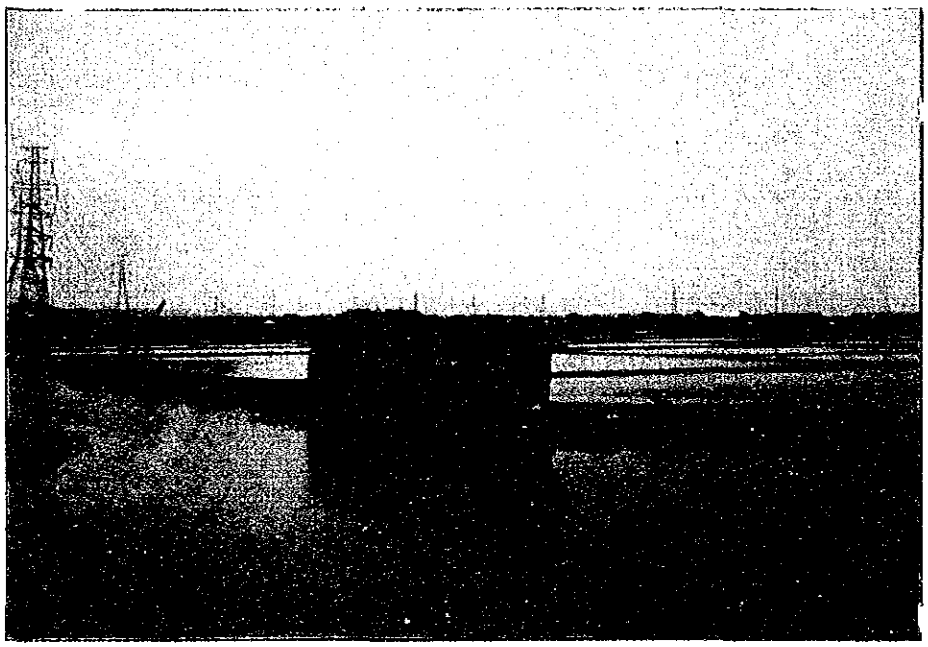
Figure 2
Benowo Final Disposal Land Use Survey Area on the Surabaya Base Map Official Grid System

The Maps of Benowo Typical Land Use Pictures Shutting Points

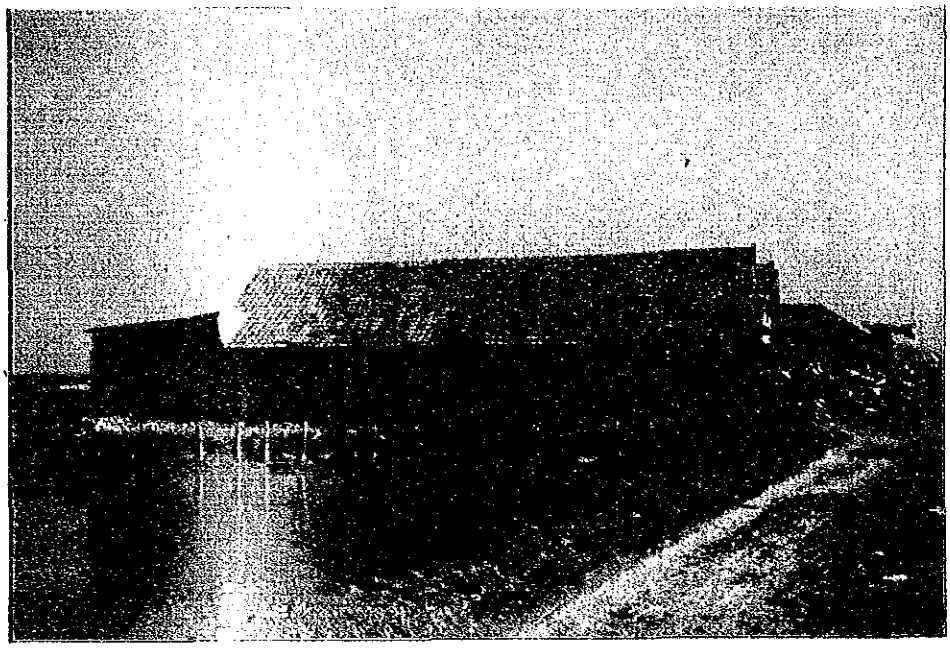




1. Residential Lot or Area



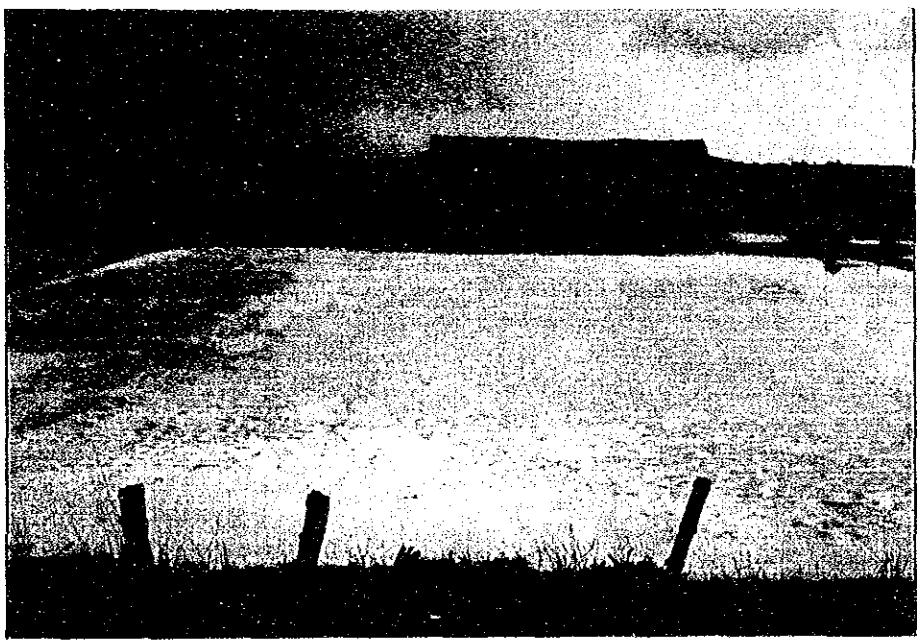
2. Temporary Residential Lot or Area



3. Warehouse

4. Pond with No Usage

5. Fish Pond

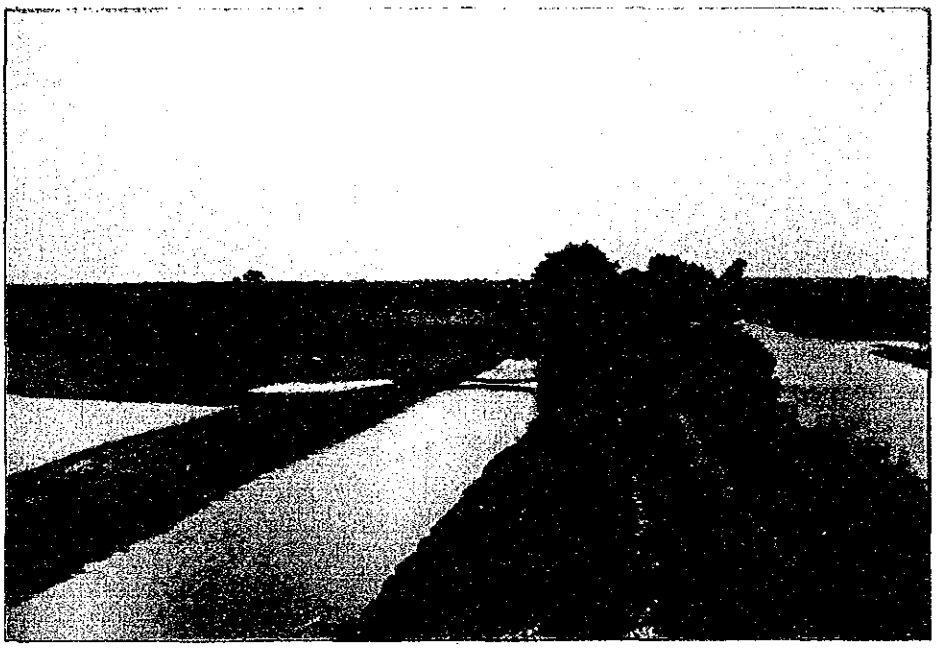


6. Salt Pond

7. Pasture

8. Open Area with No Usage

9. River



10. Ditch

11. Road

12. Tread

10.

HOUSEHOLD QUESTIONNAIRE SURVEY RESULTS

REMARKS

Number : Number of Response

Row % : The percentage of all 3 income categories (H, M, L) for 1 classification of answer

Column % : The percentage of all classification of answers for each income category

Total % : The percentage of all 3 income categories (H, M, L) for all classification of answers

Sample

Income Category (H, L, M)

Classification of Answer		Number / Row % / Column % / Total %	High Income H	Low Income L	Middle Income M	Row Totals
	0-300 m	1	11 42.3 55.0 7.3	15 57.7 30.6 9.9	0 0.0 0.0 0.0	26 17.2
	> 300-1000 m	2	9 19.6 45.0 6.0	26 56.5 53.1 17.2	11 23.9 13.4 7.3	46 30.5
	> 1000 m	3	0 0.0 0.0 0.0	8 10.1 16.3 5.3	71 89.9 86.6 47.0	79 52.3
		Column Totals	20 13.2	49 32.5	82 54.3	151 100.0

Questionnaire Format

Interview No.:_____

HOUSEHOLD QUESTIONNAIRE SURVEY ON SOLID WASTE SERVICE

Kecamatan :
Kelurahan :
RW :
RT :
Surveyor :
Survey date :
Nearest Depo/LPS : _____ m from the house to a. Depo b. LPS (check a or b)

A. About Household

1. Type of House :
   1-1) a. Permanent
   b. Semi-permanent
   c. Temporary
   1-2) a. Independent house with yard
   b. Independent house without yard
   c. Apartment house
   d. Others ( )

2. Number of people living in the house (including servants)

   Number : _____

3. Number of households in the house

   Number : _____

4. Average monthly income of the household

   Rp _____ per month

   a. 49,999 or less
   b. 50,000 ~ 99,999
   c. 100,000 ~ 499,999
   d. 500,000 ~ 999,999
   e. 1,000,000 ~ 1,999,999

f. 2,000,000 ~ 4,999,999
g. 5,000,000 ~ 9,999,999
h. 10,000,000 or more

5. Do you have a water supply from PDAM ?
   a. Yes
   b. No

6. Monthly Average Amount paid for the following services:
   a. Electricity : Rp _____/month
   b. Garbage collection service fee to KMS : Rp _____/month
   c. Garbage collection service fee to RT/RW : Rp _____/month
   d. PDAM : Rp _____/month
   e. Other fees paid to RT/RW : Rp _____/month
      (please mention: .....)

B. Solid Waste Collection Service

7. Do you have garbage collection service ?
   a. Yes
   b. No

8. Who collects your garbage ?
   a. Dinas Kebersihan
   b. RW
   c. RT
   d. Yourself
   e. Others (specify: .....)
   f. I do not know

9. Are you willing to pay more for better collection service ?
   a. No
   b. Yes
      How much more ? Rp _____ more + Item 6 c Rp _____ = Total Rp _____

10. How often is your garbage collected ?
    a. Everyday
    b. 6 days a week
    c. 5 days a week

d. 4 days a week
e. 3 days a week
f. 2 days a week
g. 1 day a week
h. Less than once a week
i. None
j. I do not know

11. Do you think RT/RW should continue to provide garbage collection service in the future, or should KMS provide the service in the future ?
a. RT/RW should continue to provide the service in the future.
b. KMS should provide the service in the future
c. It does not matter
Give a reason for your choice :

_____

_____

_____

12-1) Where do you place your garbage, inside or outside the house ?
a. Inside
b. Outside

12-2) What containers do you use for storage of garbage ?
a. Concrete bin
b. Tin container
c. Plastic bin
d. Plastic bag
e. Small container (0.6 ~1.0 m^3) placed in roadside
f. Large container of Depo/LPS (over 6 m^3)
g. Others (.....)

13-1) What time in a day do you discharge your garbage ?
a. Before 05:59
b. 06:00 - 08:59
c. 09:00 - 11:59
d. 12:00 -14:59
e. 15:00 - 17:59
f. After 18:00

g. Not fixed

13-2) How often do you discharge your garbage ?

a. Once a day
b. Twice a day
c. More than twice a day
d. Not decided

14-1) Do you separate wet garbage from dry one ?

a. Yes
b. No

14-2) Do you think that the separated waste is separately collected by collection workers ?

a. Yes
b. No
c. I do not know

15-1) Are there Depo/LPS near your house ?

a. Yes
b. No
c. I do not know

15-2) Are there any problems with the Depo/LPS ?

a. Yes
b. No

15-3) If yes, in the question 15-2, what are those problems ?
(Mutiple answers are possible.)

a. Bad smell
b. Ugly in sight
c. Waste water flows to the roadside.
d. Garbage trucks disturb traffic.
e. Garbage trucks are noisy.
f. Others (.....)

15-4) Do you have any suggestions to improve or eliminate the above-mentioned problem(s) ?
Suggestions :

16-1) Who is sweeping streets near your house?

a. Dinas Kebersihan
b. RW/RT
c. Yourself
d. Nobody
e. I do not know

16-2). How often are streets near your house swept?

a. Once a week
b. Twice a week
c. Three times a week
d. Four times a week or more
e. I do not know

16-3) Do you think your neighborhood is clean ?

a. Very clean
b. Clean
c. A little dirty
d. Dirty

Nearest Depo : _____ m from the house

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

NEAREST DEPO- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-300 m	1	11 42.3 55.0 7.3	15 57.7 30.6 9.9	0 0.0 0.0 0.0	26 17.2
> 300-1000 m	2	9 19.6 45.0 6.0	26 56.5 53.1 17.2	11 23.9 13.4 7.3	46 30.5
> 1000 m	3	0 0.0 0.0 0.0	8 10.1 16.3 5.3	71 89.9 86.6 47.0	79 52.3
	Column Totals	20 13.2	49 32.5	82 54.3	151 100.0

No. of No Answer : 60

Nearest LPS : _____ m from the house

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
NEAREST LPS - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-300 m	1	1 20.0 100.0 1.8	4 80.0 7.3 7.1	0 0.0 0.0 0.0	5 8.9
> 300-1000 m	2	0 0.0 0.0 0.0	42 100.0 76.4 75.0	0 0.0 0.0 0.0	42 75.0
> 1000 m	3	0 0.0 0.0 0.0	9 100.0 16.4 16.1	0 0.0 0.0 0.0	9 16.1
	Column Totals	1 1.8	55 98.2	0 0.0	56 100.0

No. of No Answer : 155

1. Type of House :

1-1) a. Permanent
b. Semi-permanent
c. Temporary

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
TYPE OF HOUSE (1) - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Permanent	A	21 13.4 100.0 10.0	56 35.7 52.8 26.5	80 51.0 95.2 37.9	157 74.4
Semi-permanent	B	0 0.0 0.0 0.0	37 90.2 34.9 17.5	4 9.8 4.8 1.9	41 19.4
Temporary	C	0 0.0 0.0 0.0	13 100.0 12.3 6.2	0 0.0 0.0 0.0	13 6.2
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

1. Type of House :

1-2) a. Independent House with yard
b. Independent House wihtout yard
c. Apartment House
d. Others

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
TYPE OF HOUSE (2) - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
I.H. with Yard	A	20 23.5 95.2 10.0	38 44.7 38.0 18.9	27 31.8 33.8 13.4	85 42.3
I.H. without Yard	B	0 0.0 0.0 0.0	60 53.6 60.0 29.9	52 46.4 65.0 25.9	112 55.7
Apartment House	C	1 25.0 4.8 0.5	2 50.0 2.0 1.0	1 25.0 1.3 0.5	4 2.0
Others	D	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	21 10.4	100 49.8	80 39.8	201 100.0

No. of No Answer : 10

2. Number of people living in the house (including servants)

Number : _____

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

NO OF PEOPLES IN THE HOUSE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
1-3 peoples	1	0 0.0 0.0 0.0	14 46.7 13.2 6.6	16 53.3 19.0 7.6	30 14.2
4-7 peoples	2	14 10.2 66.7 6.6	73 53.3 68.9 34.6	50 36.5 59.5 23.7	137 64.9
8 peoples/more	3	7 15.9 33.3 3.3	19 43.2 17.9 9.0	18 40.9 21.4 8.5	4 4 20.9
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

3. Number of households in the house

   Number : _____

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

NO OF HOUSEHOLD IN THE HOUSE - (Y Axis)

Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
1	19 9.8 90.5 9.0	103 53.4 97.2 48.8	71 36.8 84.5 33.6	193 91.5
2	1 6.7 4.8 0.5	3 20.0 2.8 1.4	11 73.3 13.1 5.2	15 7.1
3	1 33.3 4.8 0.5	0 0.0 0.0 0.0	2 66.7 2.4 0.9	3 1.4
Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

4. Average monthly income of the household
   Rp _____ per month

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
MONTHLY INCOME - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
49.999, -/less	A	0 0.0 0.0 0.0	13 100.0 12.3 6.2	0 0.0 0.0 0.0	13 6.2
50,000-99.000, -	B	0 0.0 0.0 0.0	46 85.2 43.4 21.8	8 14.8 9.5 3.8	54 25.6
100th-499.999, -	C	3 2.6 14.3 1.4	47 40.5 44.3 22.3	66 56.9 78.6 31.3	116 55.0
500th-999.999, -	D	10 52.6 47.6 4.7	0 0.0 0.0 0.0	9 47.4 10.7 4.3	19 9.0
1ml-1.999.999, -	E	7 87.5 33.3 3.3	0 0.0 0.0 0.0	1 12.5 1.2 0.5	8 3.8
2ml-4.999.999, -	F	1 100.0 4.8 0.5	0 0.0 0.0 0.0	0 0.0 0.0 0.0	1 0.5
5ml-9.999.999, -	G	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
10million/more	H	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

5. Do you have a water supply from PDAM?

   a. Yes
   b. No

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WATER SUPPLY FROM PDAM - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	A	21 19.1 100.0 10.0	32 29.1 30.2 15.2	57 51.8 67.9 27.0	110 52.1
No	B	0 0.0 0.0 0.0	74 73.3 69.8 35.1	27 26.7 32.1 12.8	101 47.9
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

6. Monthly Average Amount paid for:
   a) Electricity : Rp _____ / month

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
MONTHLY ELECTRICITY FEE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-15,000	1	0 0.0 0.0 0.0	86 61.4 95.6 44.1	54 38.6 64.3 27.7	140 71.8
>15th-75,000	2	5 12.8 23.8 2.6	4 10.3 4.4 2.1	30 76.9 35.7 15.4	39 20.0
>75,000	3	16 100.0 76.2 8.2	0 0.0 0.0 0.0	0 0.0 0.0 0.0	16 8.2
	Column Totals	21 10.8	90 46.2	84 43.1	195 100.0

No. of No Answer : 16

6. Monthly Average Amount paid for:

b) Garbage collection service fee to KMS:

Rp _____ / month

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

GARBAGE COL.SVC FEE TO KMS - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-500	1	0 0.0 0.0 0.0	80 58.8 75.5 39.4	56 41.2 73.7 27.6	136 67.0
>500-1,500	2	18 31.6 85.7 8.9	19 33.3 17.9 9.4	20 35.1 26.3 9.9	57 28.1
>1,500	3	3 30.0 14.3 1.5	7 70.0 6.6 3.4	0 0.0 0.0 0.0	10 4.9
	Column Totals	21 10.3	106 52.2	76 37.4	203 100.0

No. of No Answer : 8

6. Monthly Average Amount paid for:
   c) Garbage collection service fee to RT/RW:
   Rp _____ / month

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
GARBAGE COL.SVC FEE TO RT/RW - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-500	1	0 0.0 0.0 0.0	64 81.0 60.4 36.4	15 19.0 30.6 8.5	79 44.9
>500-1,500	2	0 0.0 0.0 0.0	35 53.8 33.0 19.9	30 46.2 61.2 17.0	65 36.9
>1,500	3	21 65.6 100.0 11.9	7 21.9 6.6 4.0	4 12.5 8.2 2.3	32 18.2
	Column Totals	21 11.9	106 60.2	49 27.8	176 100.0

No. of No Answer : 35

6. Monthly Average Amount paid for:
   d) PDAM: Rp _____ / month

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
MONTHLY PDAM FEE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-5,000	1	0 0.0 0.0 0.0	8 36.4 25.0 7.3	14 63.6 25.0 12.8	22 20.2
>5th-20,000	2	8 11.4 38.1 7.3	23 32.9 71.9 21.1	39 55.7 69.6 35.8	70 64.2
>20,000	3	13 76.5 61.9 11.9	1 5.9 3.1 0.9	3 17.6 5.4 2.8	17 15.6
	Column Totals	21 19.3	32 29.4	56 51.4	109 100.0

No. of No Answer : 102

6. Monthly Average Amount paid for:

e) Other fees paid to RT/RW:
Rp _____ / month

* for security, death allowances, etc.

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

OTHER FEES PAID TO RT/RW - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-1,000	1	0 0.0 0.0 0.0	50 56.8 90.9 38.5	38 43.2 70.4 29.2	88 67.7
>1th-5,000	2	1 5.0 4.8 0.8	5 25.0 9.1 3.8	14 70.0 25.9 10.8	20 15.4
>5,000	3	20 90.9 95.2 15.4	0 0.0 0.0 0.0	2 9.1 3.7 1.5	22 16.9
	Column Totals	21 16.2	55 42.3	54 41.5	130 100.0

No. of No Answer : 81

6. Additional: Total Cost of All services i.e.: Electricity, Garbage Collection service fee to KMS, Garbage Collection service fee to RT/RW, PDAM, Other fees paid to RT/RW

(the sum of all those service fee)

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

TOTAL COST OF ALL SERVIES - (Y Axis)

	Number Row % Column % Total %	*High* Income H	*Low* Income L	*Middle* Income M	Row Totals
0-25,000	1	0 0.0 0.0 0.0	92 62.6 86.8 43.6	55 37.4 65.5 26.1	147 69.7
>25th-100,000	2	3 6.5 14.3 1.4	14 30.4 13.2 6.6	29 63.0 34.5 13.7	46 21.8
>100,000	3	18 100.0 85.7 8.5	0 0.0 0.0 0.0	0 0.0 0.0 0.0	18 8.5
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

B. Solid Waste Collection Service

7. Do you have garbage collection service?

   a. Yes
   b. No

INCOME STRATA - (X Axis)

---- by ----

GARBAGE COLLECTION SERVICE- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	1	20 10.4 95.2 9.5	95 49.2 89.6 45.0	78 40.4 92.9 37.0	193 91.5
No	2	1 5.6 4.8 0.5	11 61.1 10.4 5.2	6 33.3 7.1 2.8	18 8.5
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

8. Who collects your garbage?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WHO COLLECTS YOUR GARBAGE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Dinas Kebersihan	A	0 0.0 0.0 0.0	1 100.0 0.9 0.5	0 0.0 0.0 0.0	1 0.5
RW	B	1 20.0 4.8 0.5	4 80.0 3.8 1.9	0 0.0 0.0 0.0	5 2.4
RT	C	20 11.0 95.2 9.5	84 46.4 79.2 39.8	77 42.5 91.7 36.5	181 85.8
Yourself	D	0 0.0 0.0 0.0	17 70.8 16.0 8.1	7 29.2 8.3 3.3	24 11.4
Others	E	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
I Do Not Know	F	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

9. Are you willing to pay more for better collection service?

a. Yes
b. No

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
WILLINGNESS TO PAY MORE- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
No	A	9 6.0 42.9 4.3	67 44.4 63.2 31.8	75 49.7 89.3 35.5	151 71.6
Yes	B	12 20.0 57.1 5.7	39 65.0 36.8 18.5	9 15.0 10.7 4.3	60 28.4
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

9. In case of Yes, how much more?

Rp _____ more

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WILLINGNESS TO PAY MORE AS MUCH AS - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
0-500	1	0 0.0 0.0 0.0	36 87.8 97.3 66.7	5 12.2 83.3 9.3	41 75.9
>500-1,000	2	11 84.6 100.0 20.4	1 7.7 2.7 1.9	1 7.7 16.7 1.9	13 24.1
>1,000	3	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	11 20.4	37 68.5	6 11.1	54 100.0

No. of No Answer : 157

10. How often is your garbage collected?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

GARBAGE COLLECTION FREQUENCY- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Everyday	A	21 18.9 100.0 10.0	76 68.5 71.7 36.0	14 12.6 16.7 6.6	111 52.6
6 days a week	B	0 0.0 0.0 0.0	1 100.0 0.9 0.5	0 0.0 0.0 0.0	1 0.5
5 days a week	C	0 0.0 0.0 0.0	4 50.0 3.8 1.9	4 50.0 4.8 1.9	8 3.8
4 days a week	D	0 0.0 0.0 0.0	1 100.0 0.9 0.5	0 0.0 0.0 0.0	1 0.5
3 days a week	E	0 0.0 0.0 0.0	16 30.2 15.1 7.6	37 69.8 44.0 17.5	53 25.1
2 days a week	F	0 0.0 0.0 0.0	8 21.6 7.5 3.8	29 78.4 34.5 13.7	37 17.5
1 day a week	G	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
<1 time a week	H	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
None	I	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
I Do Not Know	J	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

11. Do you think RT/RW should continue to provide garbage collection service in the future, or should KMS provide the service in the future?

a. RT/RW should continue to provide the service in the future
b. KMS should provide the service in the future
c. It does not matter

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WHO SHOULD PROVIDE SERVICE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
by RT/RW	A	18 12.9 90.0 8.7	64 46.0 61.5 30.8	57 41.0 67.9 27.4	139 66.8
by KMS	B	0 0.0 0.0 0.0	5 100.0 4.8 2.4	0 0.0 0.0 0.0	5 2.4
It Does Not Matter	C	2 3.1 10.0 1.0	35 54.7 33.7 16.8	27 42.2 32.1 13.0	64 30.8
	Column Totals	20 9.6	104 50.0	84 40.4	208 100.0

No. of No Answer : 3

JULY 1992 - SOLID WASTE MANAGEMENT IMPROVEMENT FOR SURABAYA

Cross Tabulation

11. Give a reason for your Choice :

INCOME STRATA - (X Axis)

-------- BY --------

REASON FOR YOUR CHOICE - (Y Axis)

Number Row% *Column %* Total %	High Income H	Low Income L	Middle Income M	Row Totals
A	13 36.11 *81.25* 8.18	15 41.67 *22.73* 9.43	8 22.22 *10.39* 5.03	36 22.64
B	0 0.00 *0.00* 0.00	0 0.00 *0.00* 0.00	37 100.00 *48.05* 23.27	37 23.27
C	1 2.38 *6.25* 0.63	34 80.95 *51.52* 21.38	7 16.67 *9.09* 4.40	42 26.42
D	2 5.26 *12.50* 1.26	16 42.11 *24.24* 10.06	20 52.63 *25.97* 12.58	38 23.90
E	0 0.00 *0.00* 0.00	1 16.67 *1.52* 0.63	5 83.33 *6.49* 3.14	6 3.77
Column Totals	16 10.06	66 41.51	77 48.43	159 100.00

Note:

A = RT/RW should continue to provide the service in the future, because it is easy to contact and control them.

B = RT/RW should continue to provide the service in the future, because they could serve faster as they live close to the neighborhood.

C = RT/RW should continue to provide the service in the future, because they have been carrying out their duty quite well, smoothly and satisfactorily so far.

D = It does not matter who collects the garbage, because what we want is a good collection service and a clean environment.

E = Others

No.of No Answer: 52

* There are 49 respondents who answered question number 11 but did not give any reason for their choice.

12-1) Where do you place your garbage, inside or outside the house?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WHERE DO YOU PLACE THE GARBAGE - (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Inside the house	A	2 6.9 9.5 0.9	24 82.8 22.6 11.4	3 10.3 3.6 1.4	29 13.7
Outside the house	B	19 10.4 90.5 9.0	82 45.1 77.4 38.9	81 44.5 96.4 38.4	182 86.3
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

12-2) What containers do you use for storage of garbage?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

CONTAINERS TO STORAGE GARBAGE- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Concrete Bin	A	17 14.5 81.0 8.1	23 19.7 21.7 10.9	77 65.8 91.7 36.5	117 55.5
Tin Container	B	1 4.2 4.8 0.5	21 87.5 19.8 10.0	2 8.3 2.4 0.9	24 11.4
Plastic Bin	C	1 2.8 4.8 0.5	34 94.4 32.1 16.1	1 2.8 1.2 0.5	36 17.1
Plastic Bag	D	1 5.3 4.8 0.5	16 84.2 15.1 7.6	2 10.5 2.4 0.9	19 9.0
Small Container	E	0 0.0 0.0 0.0	1 100.0 0.9 0.5	0 0.0 0.0 0.0	1 0.5
Large Container	F	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Others	G	1 7.1 4.8 0.5	11 78.6 10.4 5.2	2 14.3 2.4 0.9	14 6.6
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

13-1) What time in a day do you discharge your garbage?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

GARBAGE DISCHARGING TIME- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
<05:59	A	0 0.0 0.0 0.0	7 77.8 6.6 3.3	2 22.2 2.4 0.9	9 4.3
06:00-08:59	B	19 25.0 90.5 9.0	40 52.6 37.7 19.0	17 22.4 20.2 8.1	76 36.0
09:00-11:59	C	1 1.4 4.8 0.5	26 37.7 24.5 12.3	42 60.9 50.0 19.9	69 32.7
12:00-14:59	D	0 0.0 0.0 0.0	7 36.8 6.6 3.3	12 63.2 14.3 5.7	19 9.0
15:00-17:59	E	1 16.7 4.8 0.5	4 66.7 3.8 1.9	1 16.7 1.2 0.5	6 2.8
>18:00	F	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Not Fixed	G	0 0.0 0.0 0.0	22 68.8 20.8 10.4	10 31.3 11.9 4.7	32 15.2
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

13-2) How often do you discharge your garbage?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

GARBAGE DISCHARGING FREQUENCY- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
1x a day	A	20 20.8 95.2 9.5	52 54.2 49.5 24.8	24 25.0 28.6 11.4	96 45.7
2x a day	B	1 1.5 4.8 0.5	20 30.3 19.0 9.5	45 68.2 53.6 21.4	66 31.4
>2x a day	C	0 0.0 0.0 0.0	9 69.2 8.6 4.3	4 30.8 4.8 1.9	13 6.2
Not Decided	D	0 0.0 0.0 0.0	24 68.6 22.9 11.4	11 31.4 13.1 5.2	35 16.7
	Column Totals	21 10.0	105 50.0	84 40.0	210 100.0

No. of No Answer : 1

14-1) Do you separate wet garbage from dry one?

a. Yes
b. No

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WET/DRY GARBAGE SEPARATION- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	A	14 23.3 66.7 6.6	20 33.3 18.9 9.5	26 43.3 31.0 12.3	60 28.4
No	B	7 4.6 33.3 3.3	86 57.0 81.1 40.8	58 38.4 69.0 27.5	151 71.6
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

14-2) Do you think that the separated waste is separately collected by collection workers?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WASTE SEPARATELY COLLECTED OR NOT- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	A	11 78.6 52.4 5.3	2 14.3 1.9 1.0	1 7.1 1.2 0.5	14 6.7
No	B	7 4.4 33.3 3.3	74 46.8 71.2 35.4	77 48.7 91.7 36.8	158 75.6
I Do Not Know	C	3 8.1 14.3 1.4	28 75.7 26.9 13.4	6 16.2 7.1 2.9	37 17.7
	Column Totals	21 10.0	104 49.8	84 40.2	209 100.0

No. of No Answer : 2

15-1) Are there Depo/LPS near your house?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

DEPO/LPS NEAR YOUR HOUSE- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	A	18 81.8 85.7 8.6	2 9.1 1.9 1.0	2 9.1 2.4 1.0	22 10.5
No	B	2 1.1 9.5 1.0	97 54.5 92.4 46.2	79 44.4 94.0 37.6	178 84.8
I Do Not Know	C	1 10.0 4.8 0.5	6 60.0 5.7 2.9	3 30.0 3.6 1.4	10 4.8
	Column Totals	21 10.0	105 50.0	84 40.0	210 100.0

No. of No Answer : 1

15-2) Are there any problems with the Depo/LPS?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

PROBLEMS WITH DEPO/LPS- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Yes	A	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
No	B	21 10.1 100.0 10.1	102 49.3 100.0 49.3	84 40.6 100.0 40.6	207 100.0
	Column Totals	21 10.1	102 49.3	84 40.6	207 100.0

No. of No Answer : 4

15-3) If yes, what are those problems?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

WHAT ARE THOSE PROBLEMS- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Bad Smell	A	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Ugly in Sight	B	0 0.0 0.0 0.0	1 100.0 9.1 1.4	0 0.0 0.0 0.0	1 1.4
Waste Water flows	C	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Truck disturb Traffic	D	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Truck are noisy	E	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
Others	F	0 0.0 0.0 0.0	10 14.1 90.9 13.9	61 85.9 100.0 84.7	71 98.6
	Column Totals	0 0.0	11 15.3	61 84.7	72 100.0

No. of No Answer : 139

16-1) Who is sweeping streets near your house?

Cross Tabulation

INCOME STRATA - (X Axis)
---- by ----
WHO SWEEPING STREETS- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Dinas Kebersihan	A	5 18.5 23.8 2.4	22 81.5 20.8 10.4	0 0.0 0.0 0.0	27 12.8
RW/RT	B	0 0.0 0.0 0.0	12 70.6 11.3 5.7	5 29.4 6.0 2.4	17 8.1
Yourself	C	16 9.9 76.2 7.6	67 41.4 63.2 31.8	79 48.8 94.0 37.4	162 76.8
Nobody	D	0 0.0 0.0 0.0	3 100.0 2.8 1.4	0 0.0 0.0 0.0	3 1.4
I Do Not Know	E	0 0.0 0.0 0.0	2 100.0 1.9 0.9	0 0.0 0.0 0.0	2 0.9
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

16-2) How often are streets near your house swept?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

STREETS SWEEPING FREQUENCY- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
1x a week	A	11 68.8 61.1 5.3	0 0.0 0.0 0.0	5 31.3 6.0 2.4	16 7.7
2x a week	B	0 0.0 0.0 0.0	3 8.1 2.8 1.4	34 91.9 40.5 16.3	37 17.8
3x a week	C	1 6.7 5.6 0.5	7 46.7 6.6 3.4	7 46.7 8.3 3.4	15 7.2
4x a week/more	D	6 4.4 33.3 2.9	93 67.9 87.7 44.7	38 27.7 45.2 18.3	137 65.9
I Do Not Know	E	0 0.0 0.0 0.0	3 100.0 2.8 1.4	0 0.0 0.0 0.0	3 1.4
	Column Totals	18 8.7	106 51.0	84 40.4	208 100.0

No. of No Answer : 3

16-3) Do you think your neighborhood is clean?

Cross Tabulation

INCOME STRATA - (X Axis)

---- by ----

NEIGHBORHOOD CLEAN OR NOT- (Y Axis)

	Number Row % Column % Total %	High Income H	Low Income L	Middle Income M	Row Totals
Very Clean	A	1 33.3 4.8 0.5	1 33.3 0.9 0.5	1 33.3 1.2 0.5	3 1.4
Clean	B	20 10.2 95.2 9.5	98 50.0 92.5 46.4	78 39.8 92.9 37.0	196 92.9
A Little Dirty	C	0 0.0 0.0 0.0	7 58.3 6.6 3.3	5 41.7 6.0 2.4	12 5.7
Dirty	D	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0
	Column Totals	21 10.0	106 50.2	84 39.8	211 100.0

LIST OF SUGGESTIONS TO IMPROVE OR ELIMINATE PROBLEMS WITH DEPO/LPS

(QUESTION NO.15-4)

① from High-Income Residents

Number of Suggestions: 1 (one) only.

Suggestion: *The garbage hauling trucks should be shut (covered) to avoid the garbage from spreading everywhere and causing bad smell.*

② from Middle-Income Residents

Number of Suggestions: 9 (nine) only.

Suggestion:

* *The location of Depo/LPS should be a good distance from housing and schools.* (2)
* *The hauling frequency at Depo/LPS should be increased.* (5)
* *Number of Depo/LPS should be proportional with the number of hauling vehicles.* (1)
* *We should make ditches around the LPS to avoid the waste water from flowing to the roadside.* (1)

③ from Low-Income Residents

Number of Suggestions: 1 (one) only.

Suggestion: *Number of Depo should be increased.*