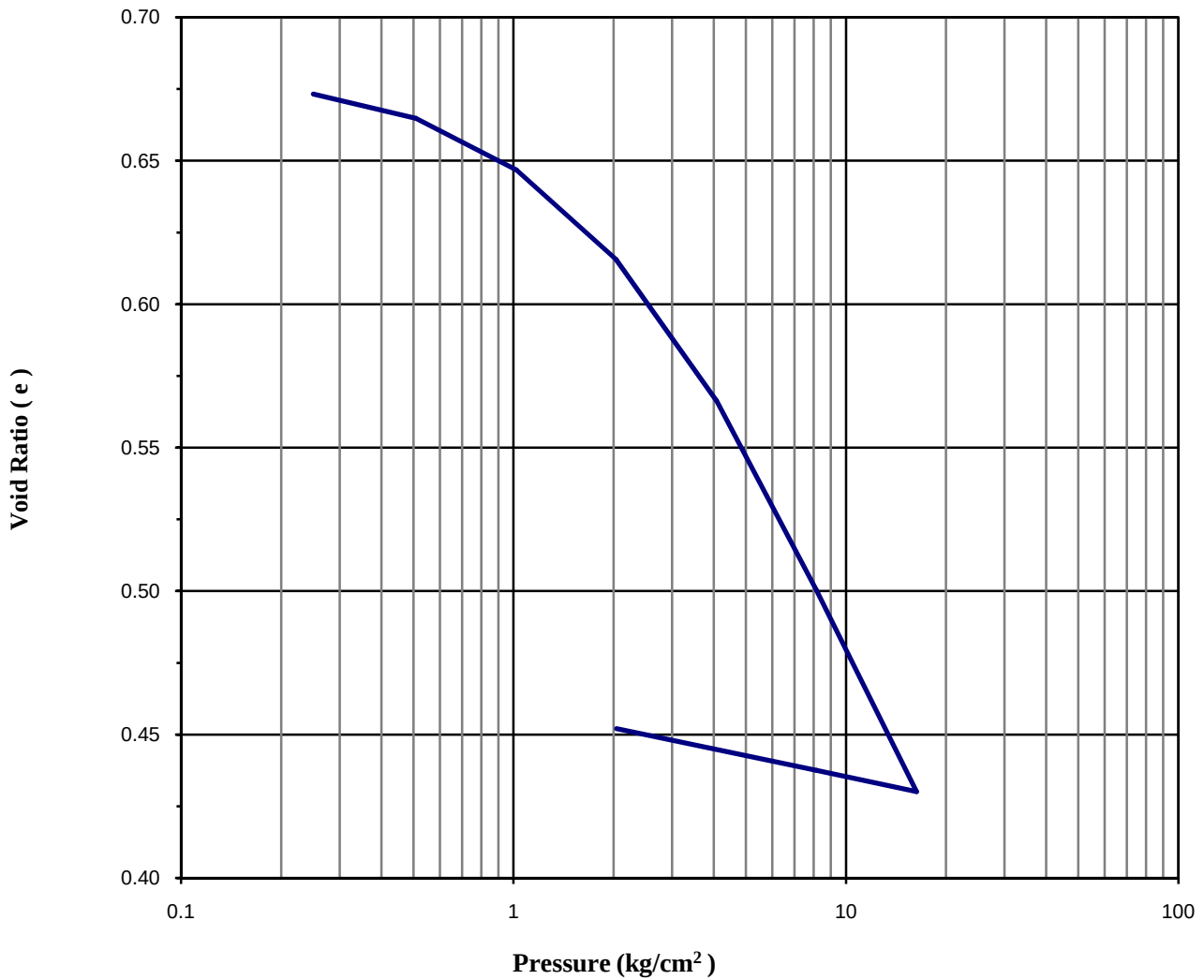


	SOIL ENGINEERING SERVICES (SES) خدمات مهندسی مکانیک خاک	
	PROJ NO: 1347-EE-PEP-GEO-001-B	REV: B
	SUBJECT: GEOTECHNICAL INVESTIGATION, PHASE I, FACTUAL REPORT, SOUTH ALUMINIUM SMELTER (SALCO) IRAN	

Enclosure W

Consolidation Tests



Borehole: BH-002	Depth (m) : 16.0-16.5	Date : 1394/02/15
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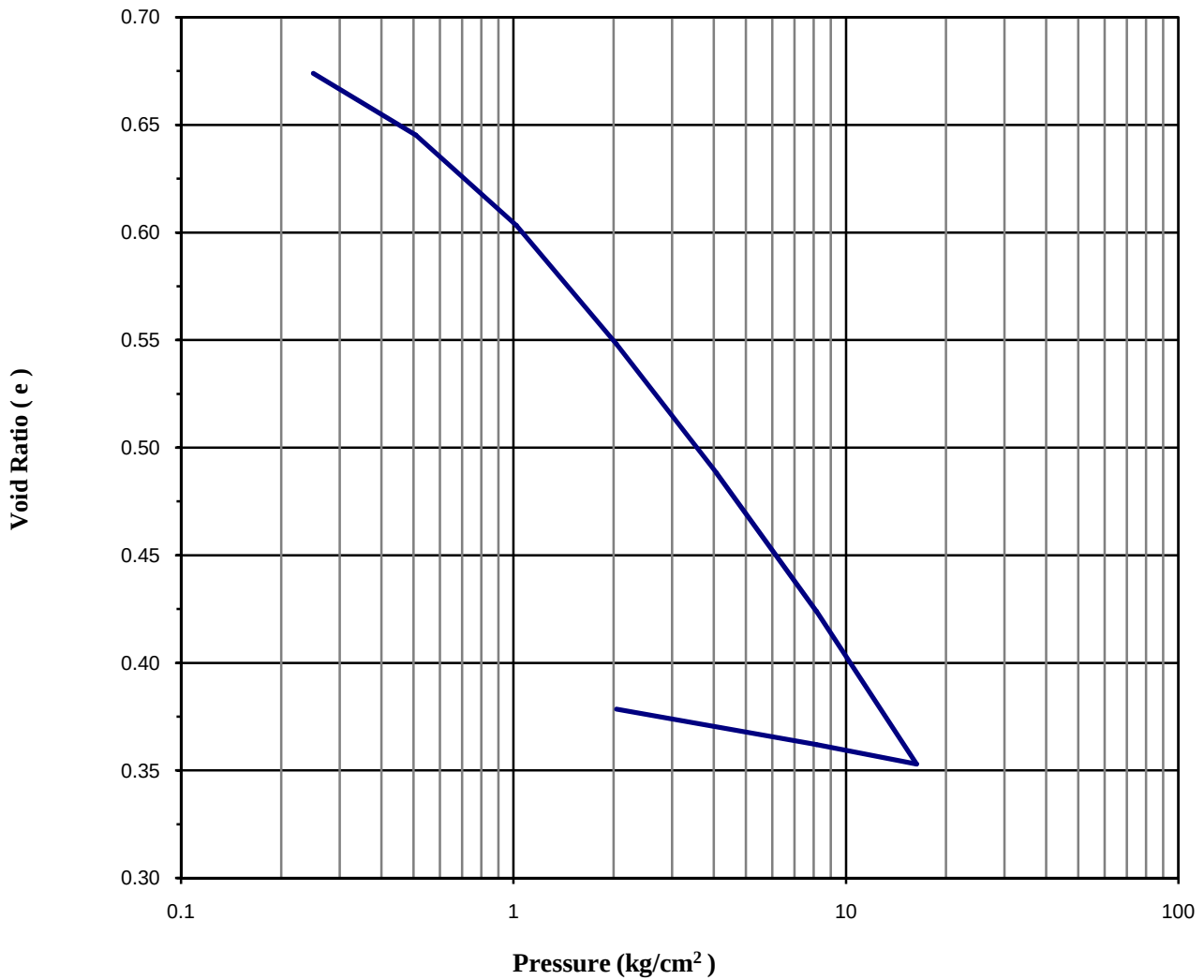
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	25	1.59	1.99

Gs :	2.73
e_0 :	0.69

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 1
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-008 **Depth (m) :** 8.00-8.50 **Date :** 1394/02/14

INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	26.9	1.56	1.98

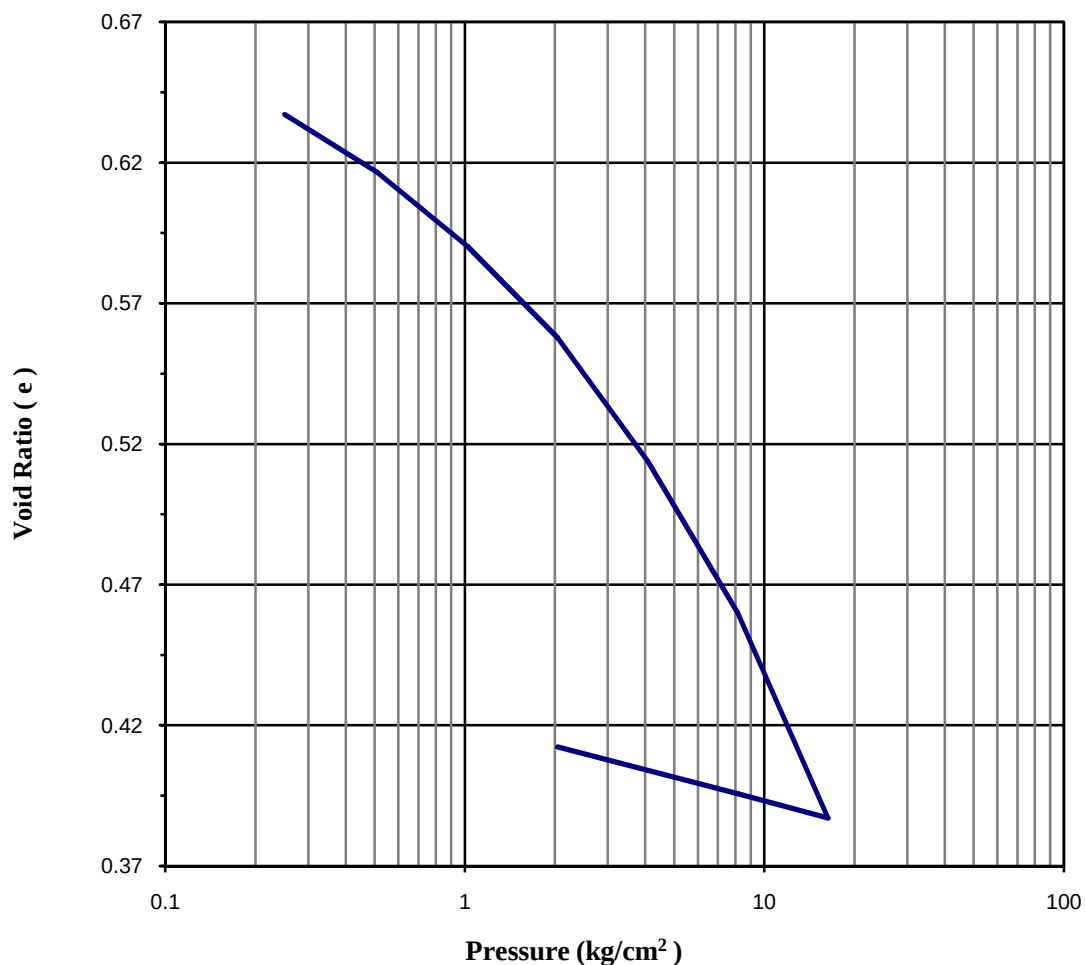
Gs : 2.71

e_0 : 0.71

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 2
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-008	Depth (m) : 14.00-14.50	Date : 1394/02/15
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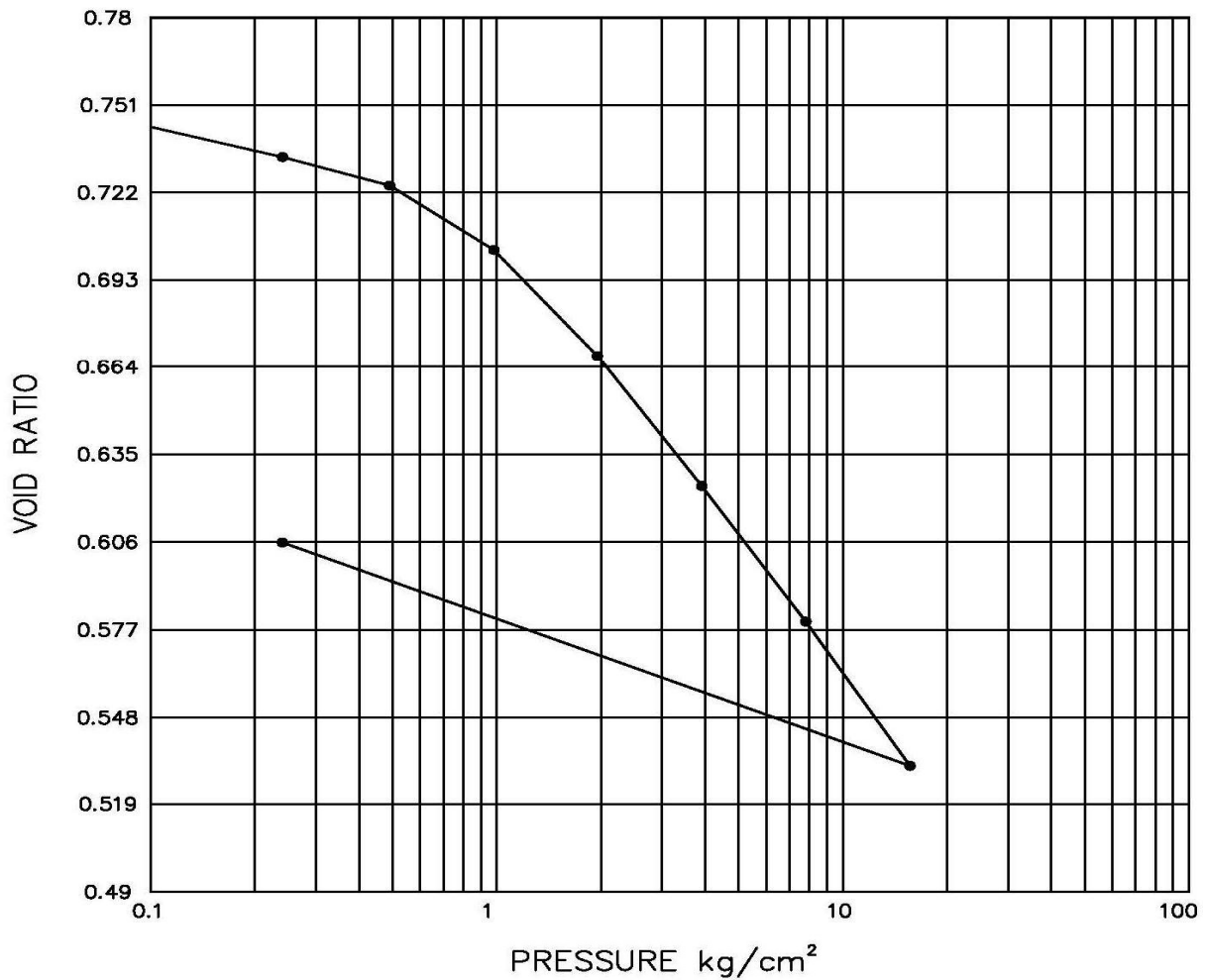
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	28.8	1.63	2.10

Gs :	2.72
e ₀ :	0.64

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 3
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-021	Depth (m) : 6.50-7.00	Date : 1394/02/15
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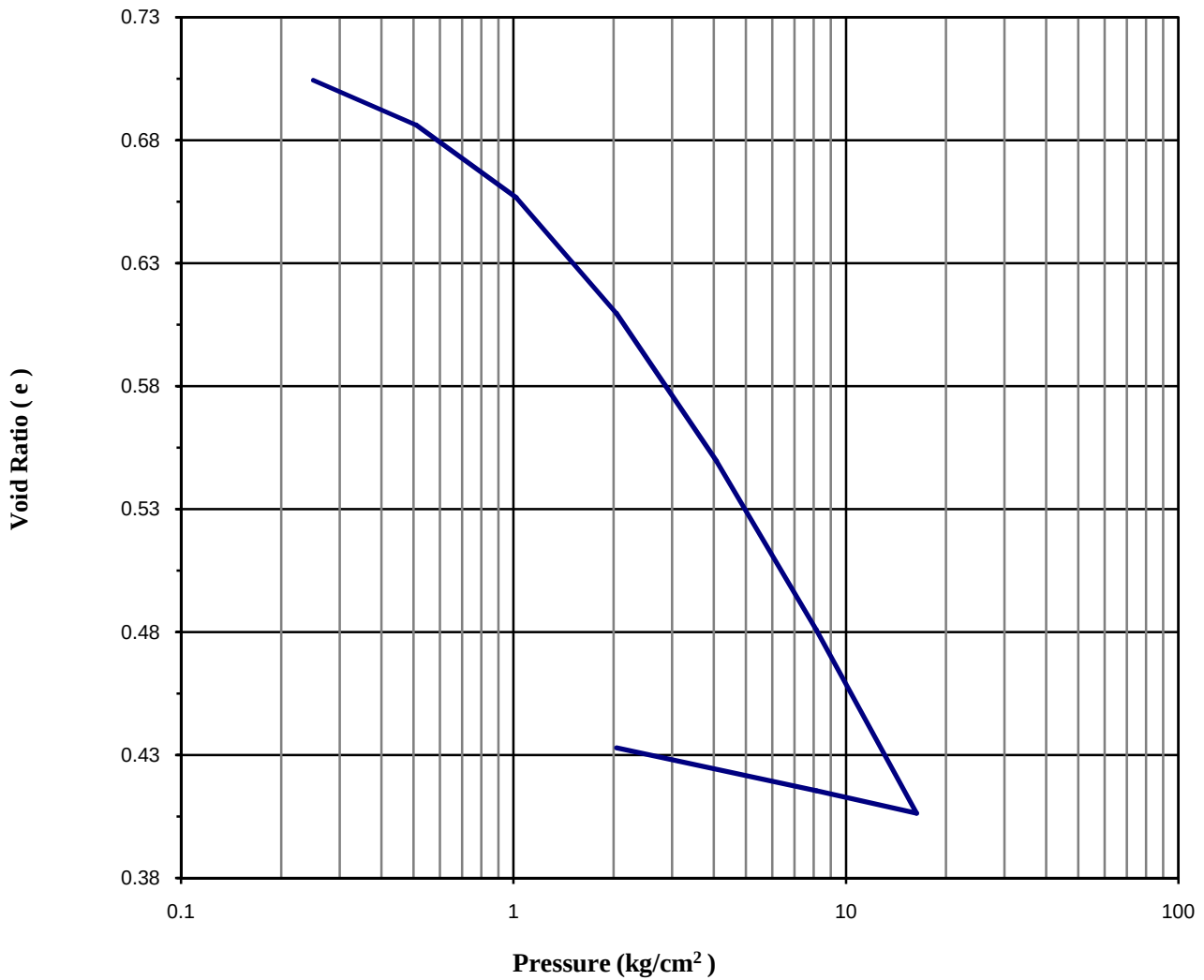
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
93	Undisturbed	26	1.55	1.95

Gs :	2.70
e ₀ :	0.74

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 4
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-021	Depth (m) : 24.00-24.50	Date : 1394/02/15
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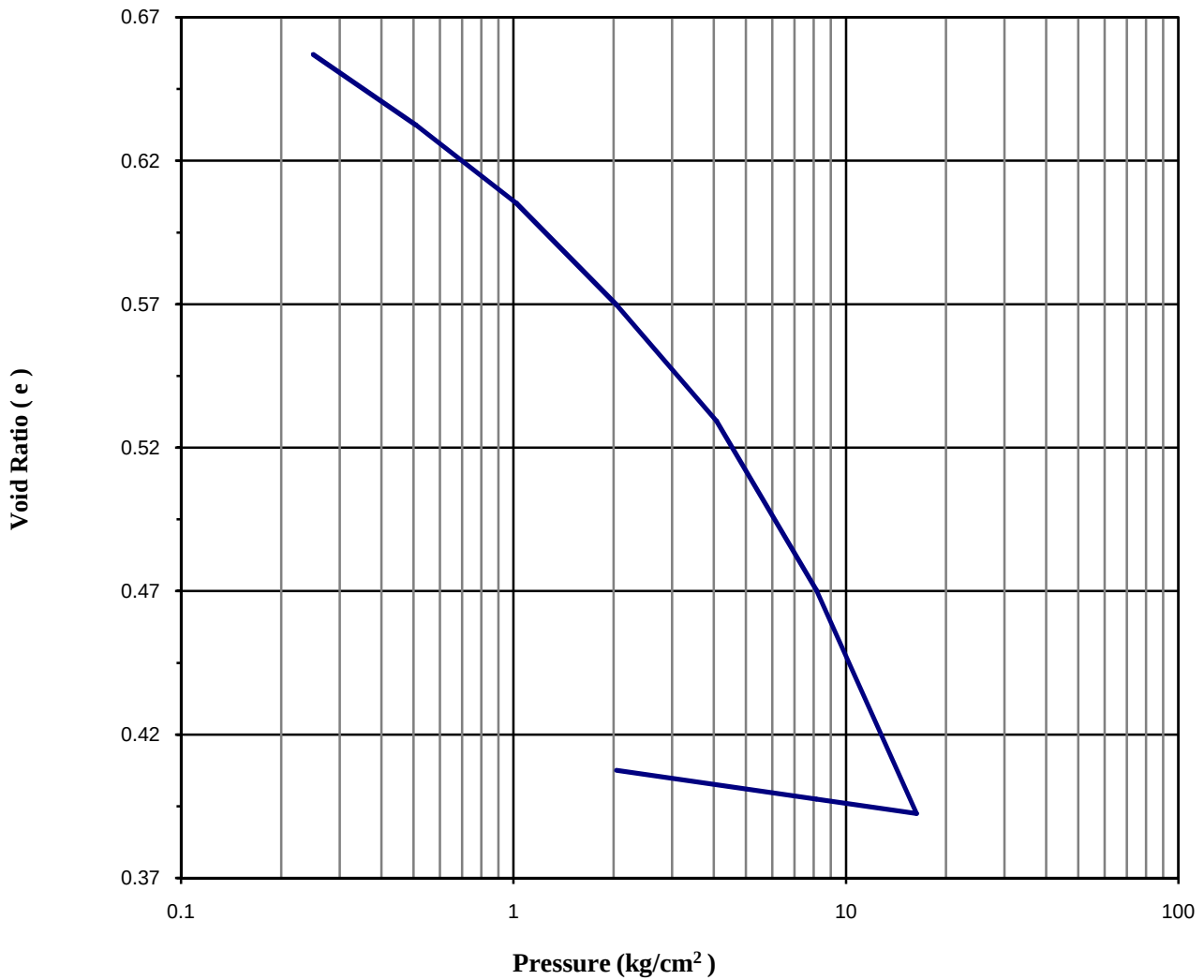
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26.5	1.54	1.95

Gs :	2.69
e ₀ :	0.72

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 5
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-025	Depth (m) : 3.00-3.50	Date : 1394/02/16
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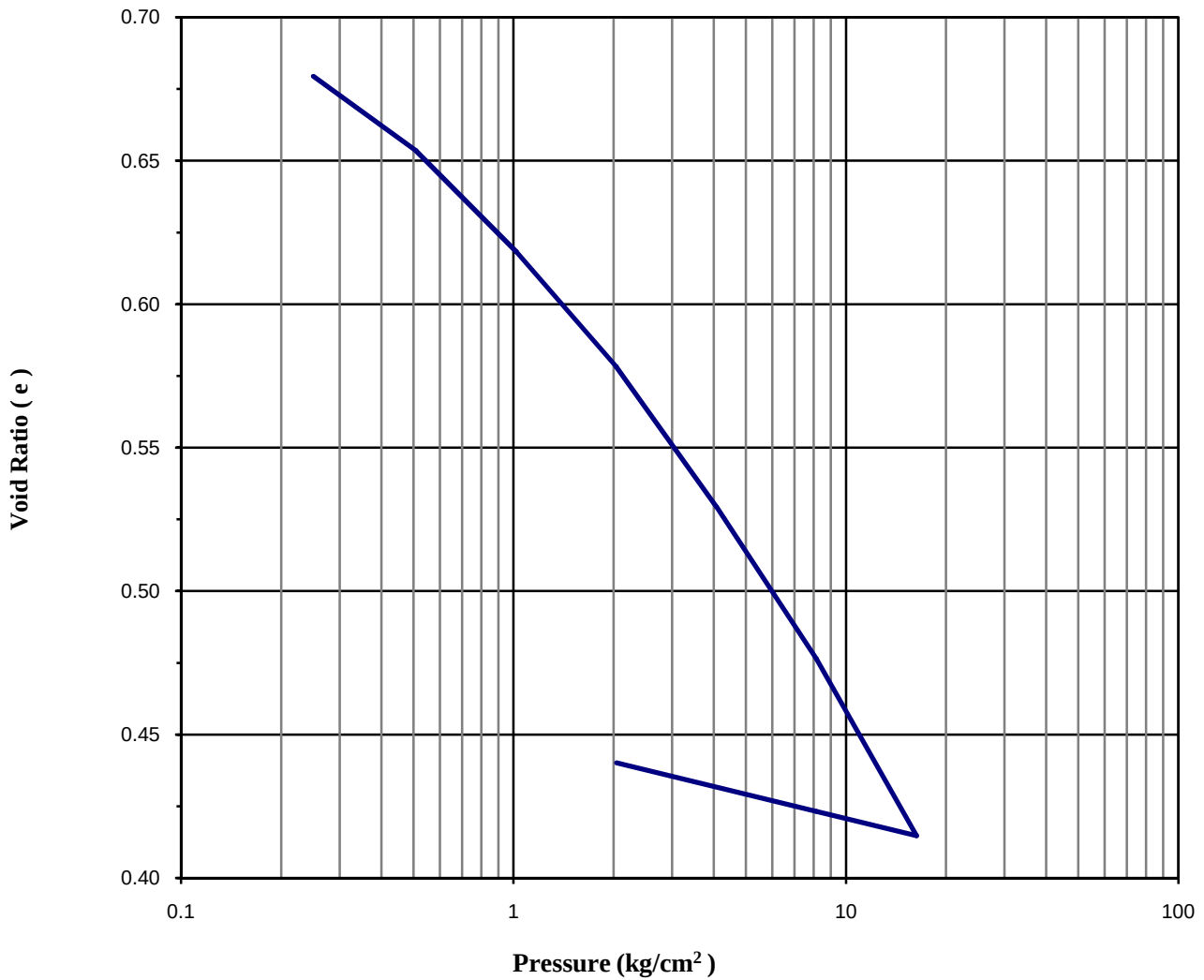
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	19	1.61	1.92

Gs :	2.74
e ₀ :	0.68

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 6
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-027	Depth (m) : 4.00-4.50	Date : 1394/02/16
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	24.5	1.59	1.98

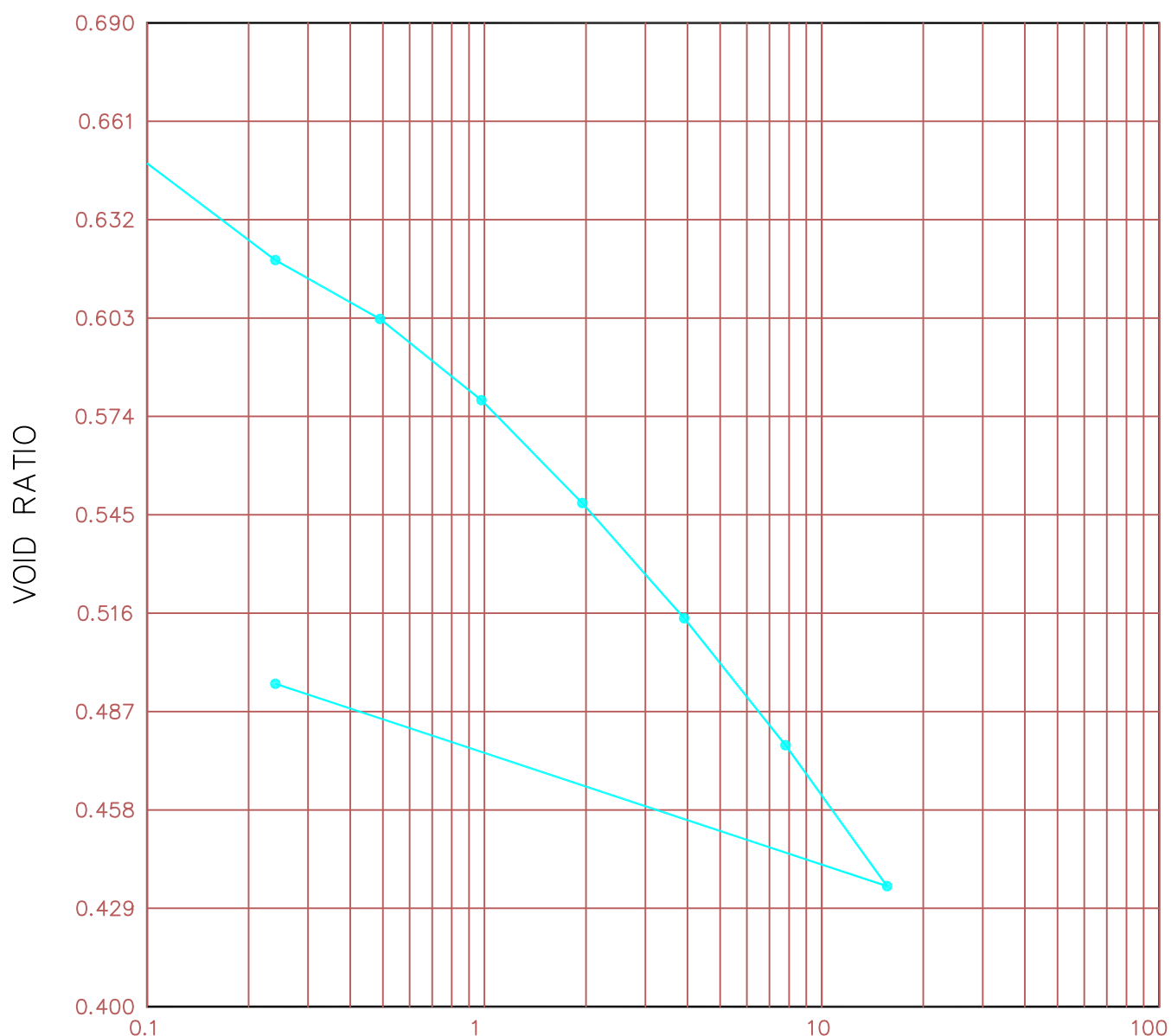
Gs :	2.73
e ₀ :	0.69

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 7
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-035	U07	19.50-20.00		UNDISTURBED	2.69	96

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
23	2.01	1.63	0.655	Sample was slightly dried

CONSOLIDATION TEST DATA

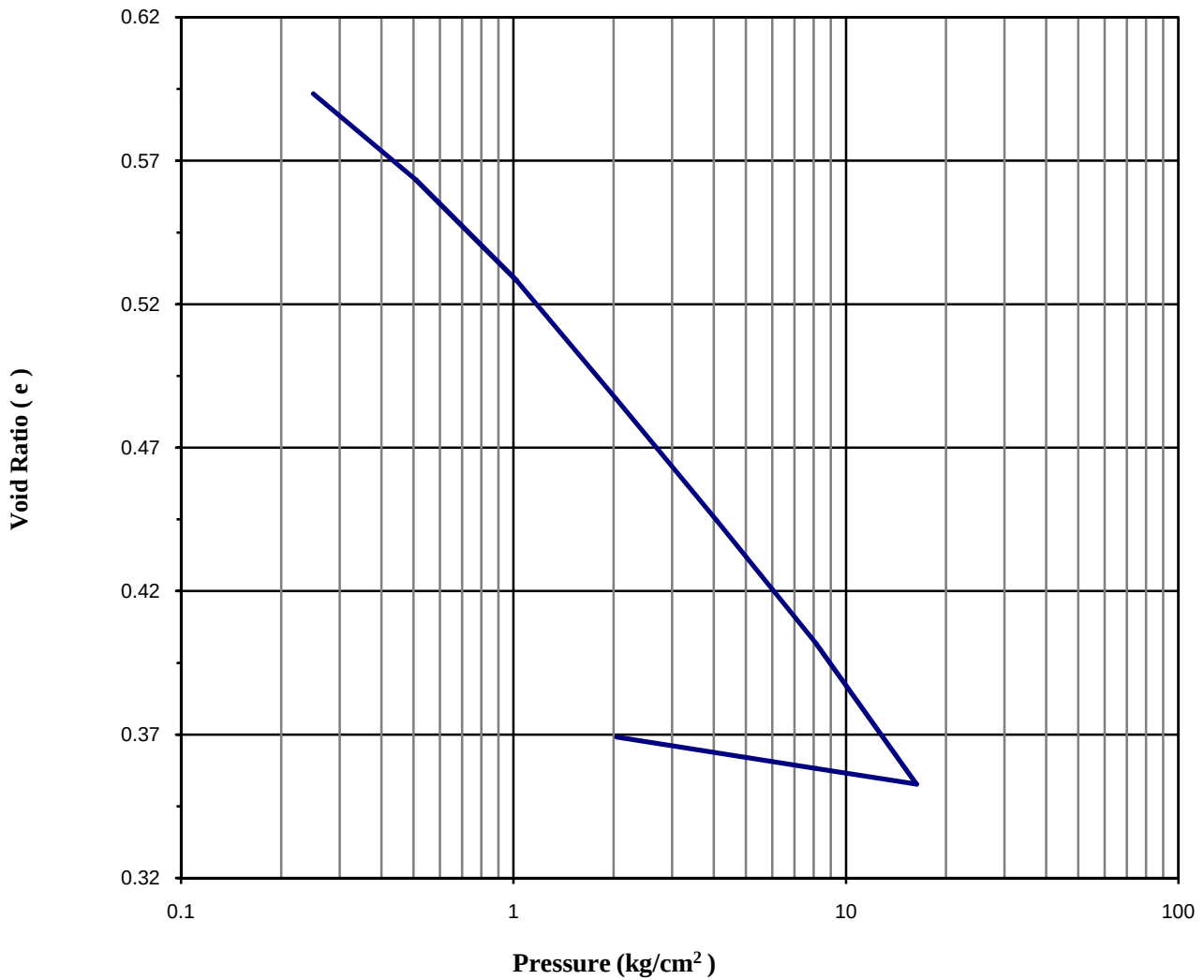


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
8

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-044	Depth (m) : 4.50-5.00	Date : 1394/02/16
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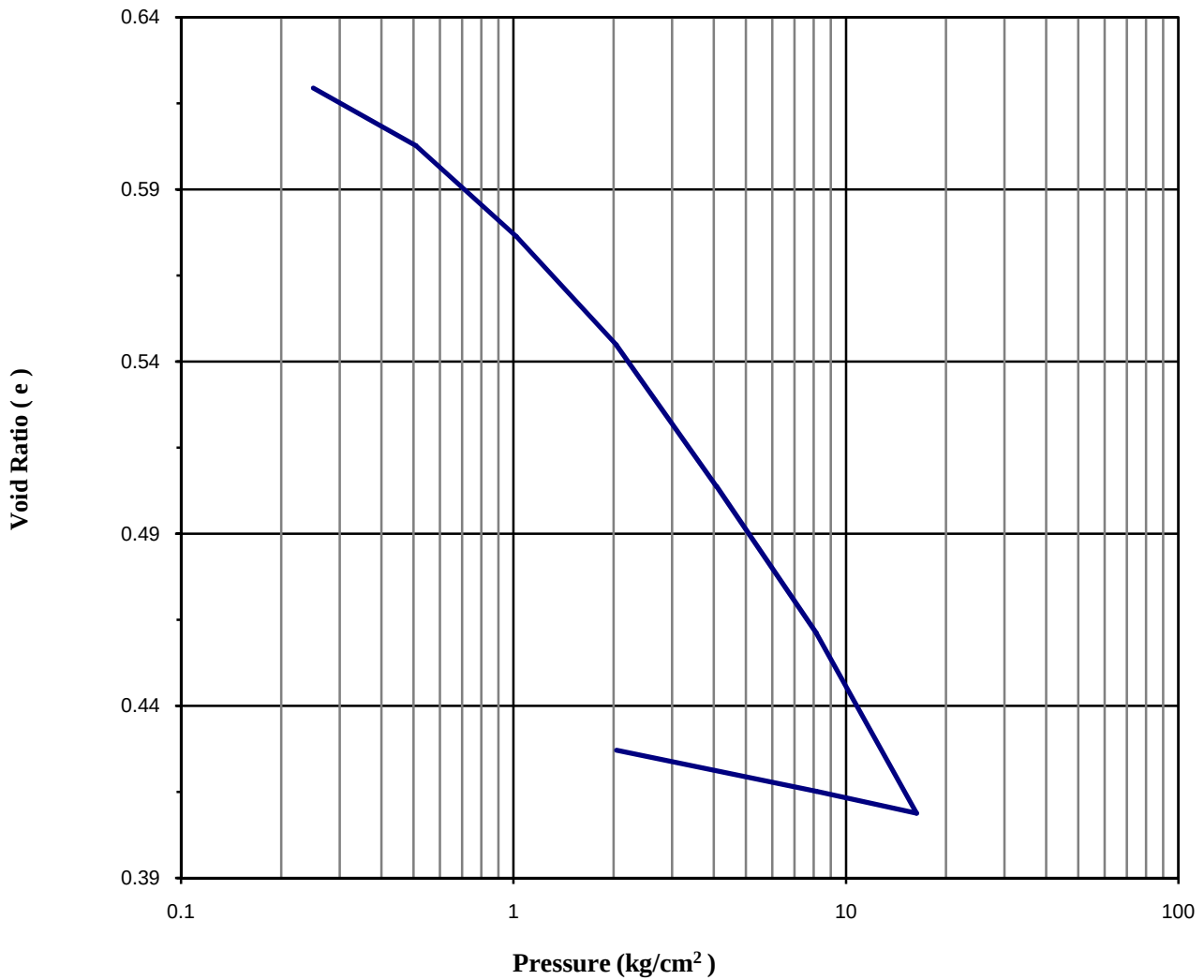
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	20.4	1.66	2.00

Gs :	2.73
e ₀ :	0.63

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 9
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-044	Depth (m) : 7.00-7.50	Date : 1394/02/15
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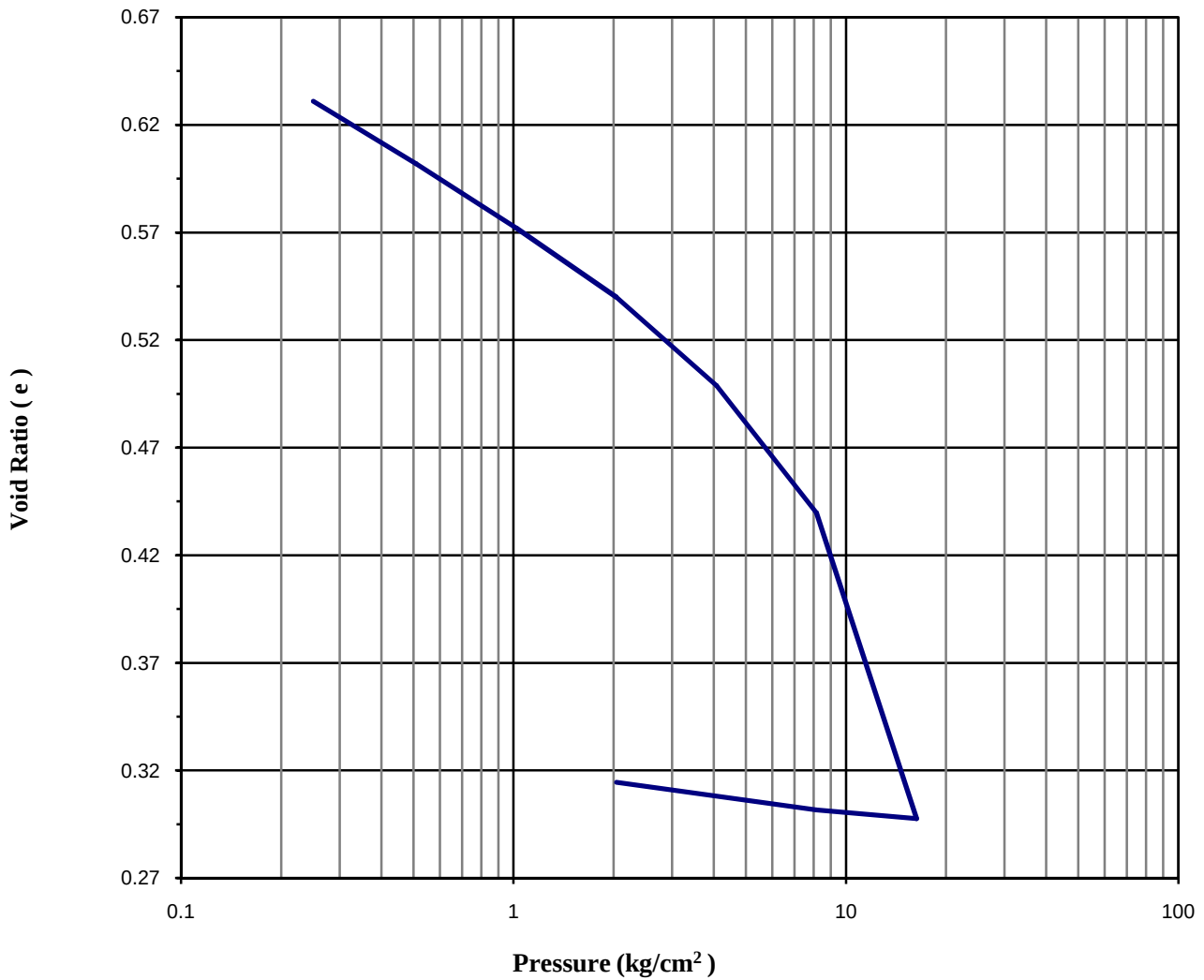
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	23.7	1.64	2.03

Gs :	2.72
e ₀ :	0.63

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 10
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-044	Depth (m) : 17.00-17.50	Date : 1394/02/14
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	25.5	1.63	2.05

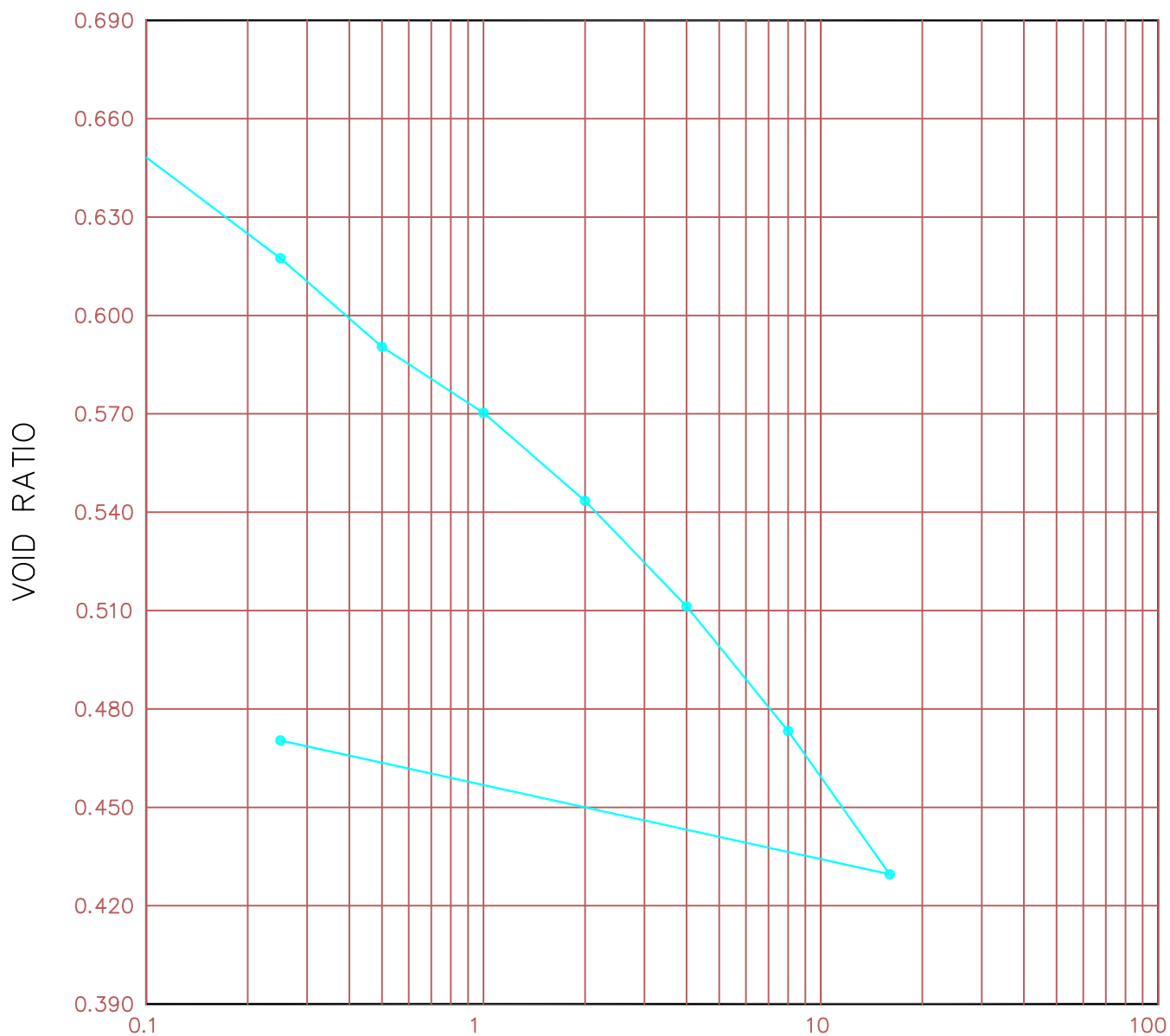
Gs :	2.71
e ₀ :	0.64

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 11
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-048	U01	7.50-7.90	<CL/ML>	UNDISTURBED	2.70	99

INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.02	1.63	0.658	Sample was slightly dried

CONSOLIDATION TEST DATA



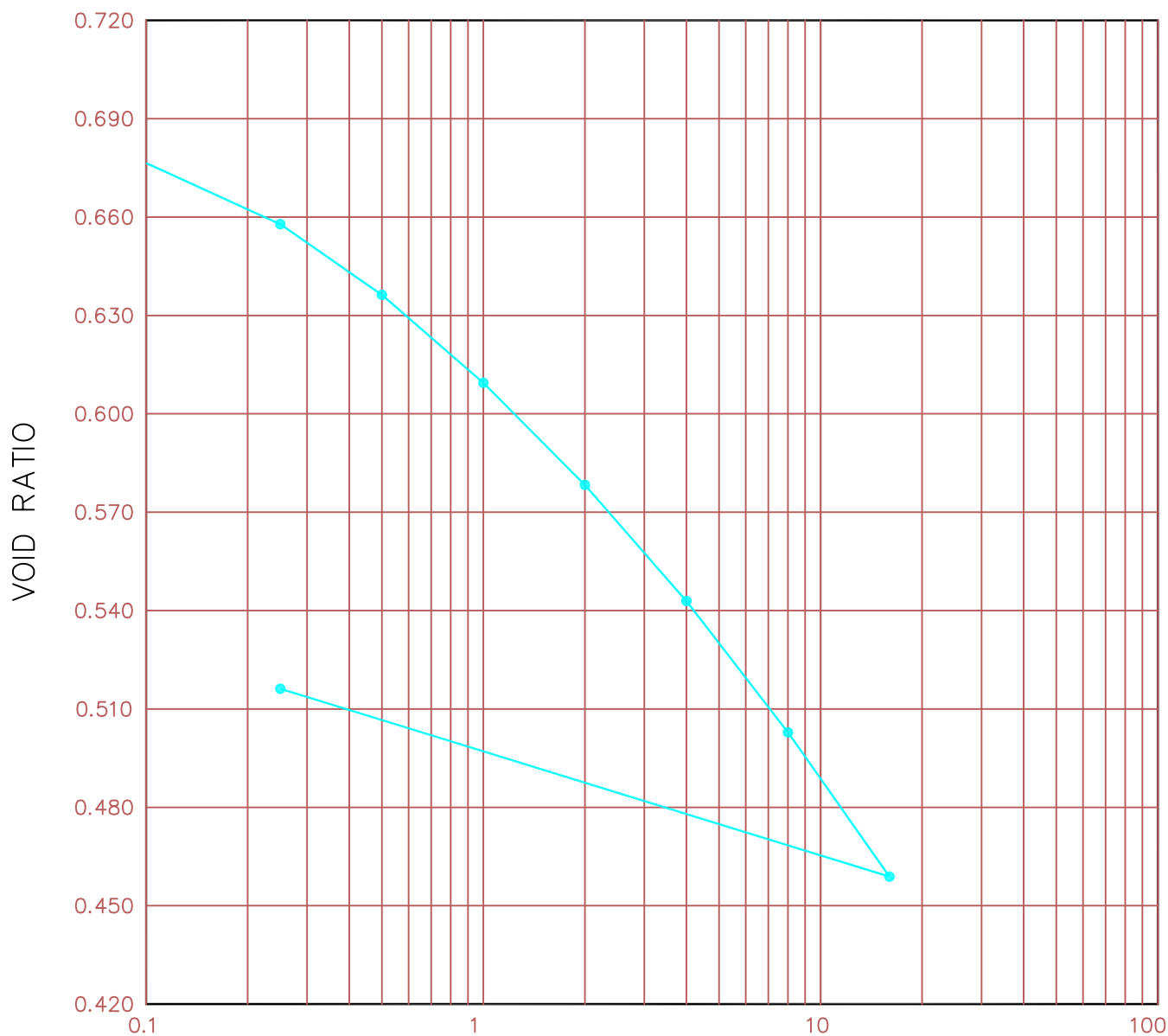
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
12

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-048	U05	17.50-17.95	<CL/ML>	UNDISTURBED	2.70	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.01	1.60	0.683	Sample was slightly dried

CONSOLIDATION TEST DATA



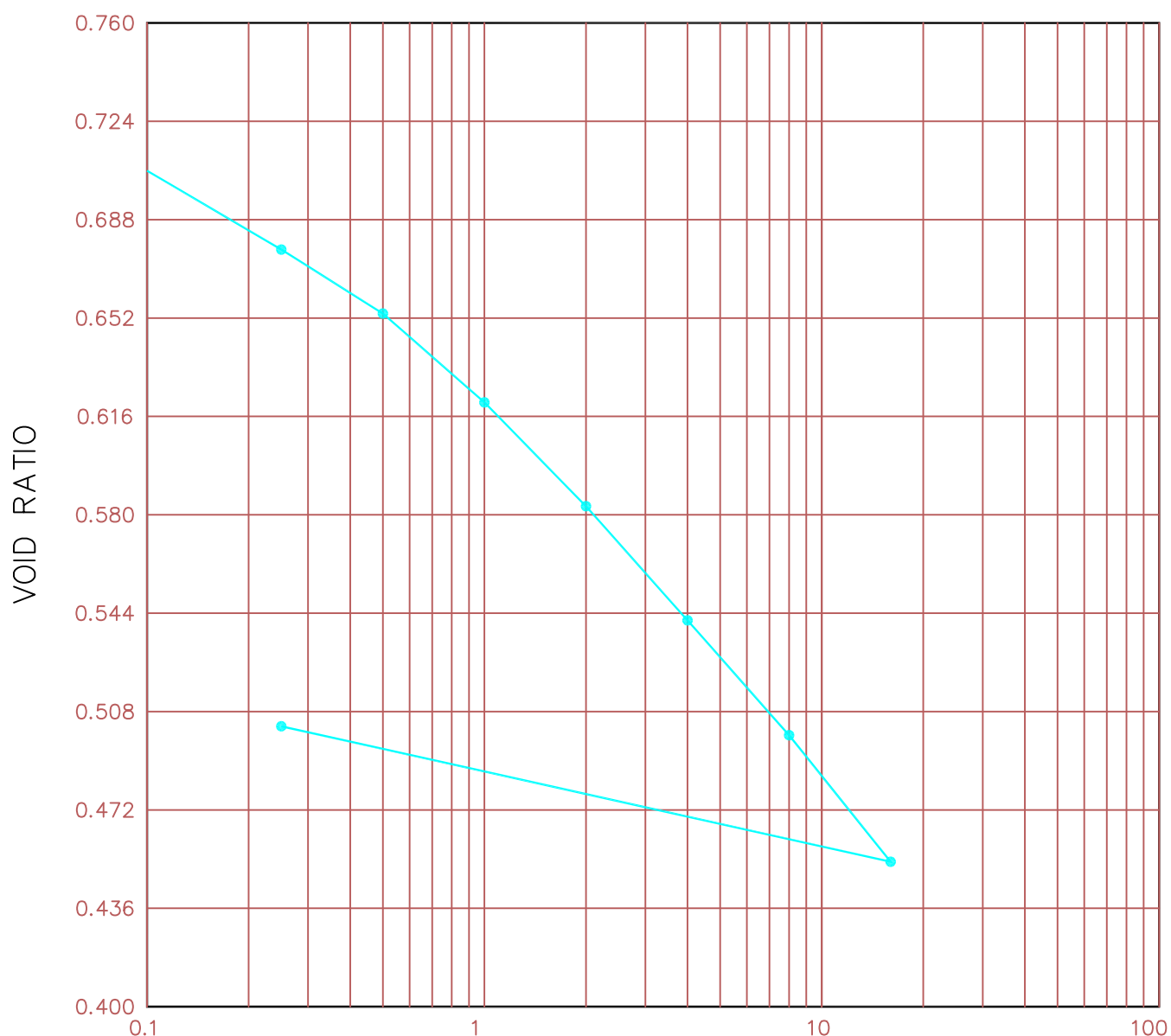
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
13

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-048	U08	25.00-25.45	<CL/ML>	UNDISTURBED	2.70	96

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	1.97	1.57	0.715	Sample was slightly dried

CONSOLIDATION TEST DATA



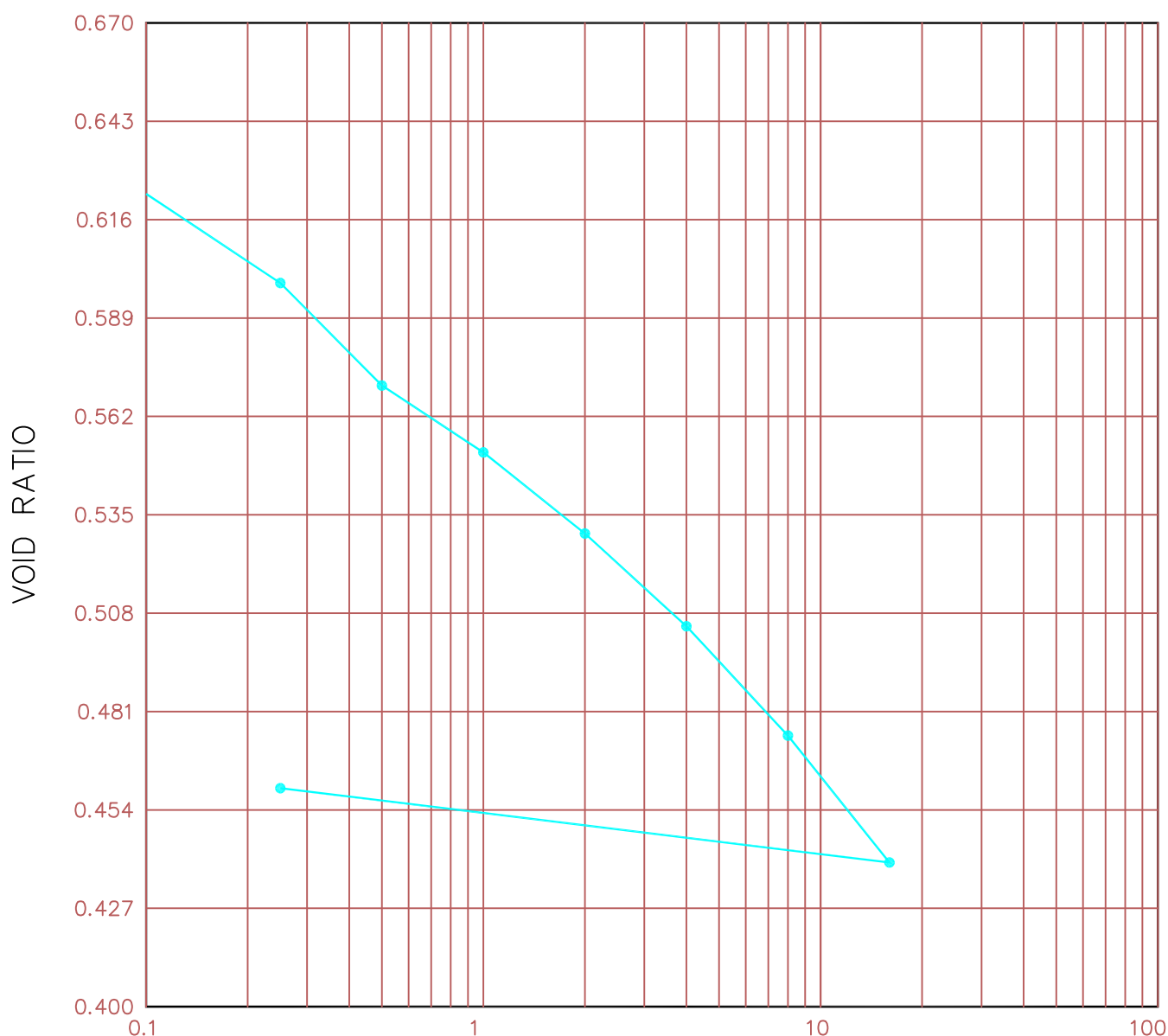
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
14

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-048	U14	40.00-40.25	<CL/ML>	UNDISTURBED	2.70	98

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
23	2.03	1.66	0.631	Sample was slightly dried

CONSOLIDATION TEST DATA



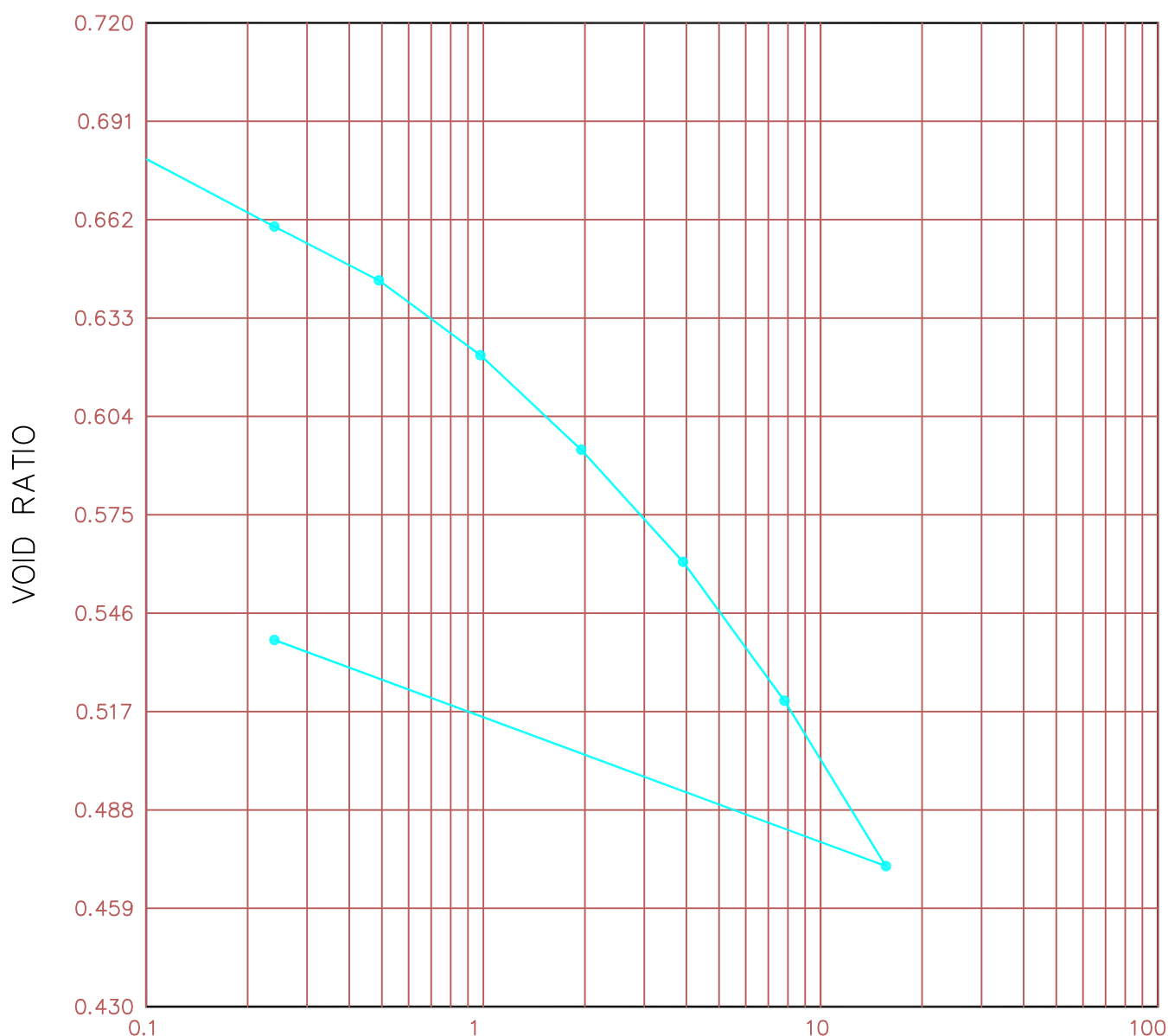
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
15

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-048	U16	45.00-45.25	<ML/CL>	UNDISTURBED	2.70	98

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.00	1.60	0.684	Sample was slightly dried

CONSOLIDATION TEST DATA

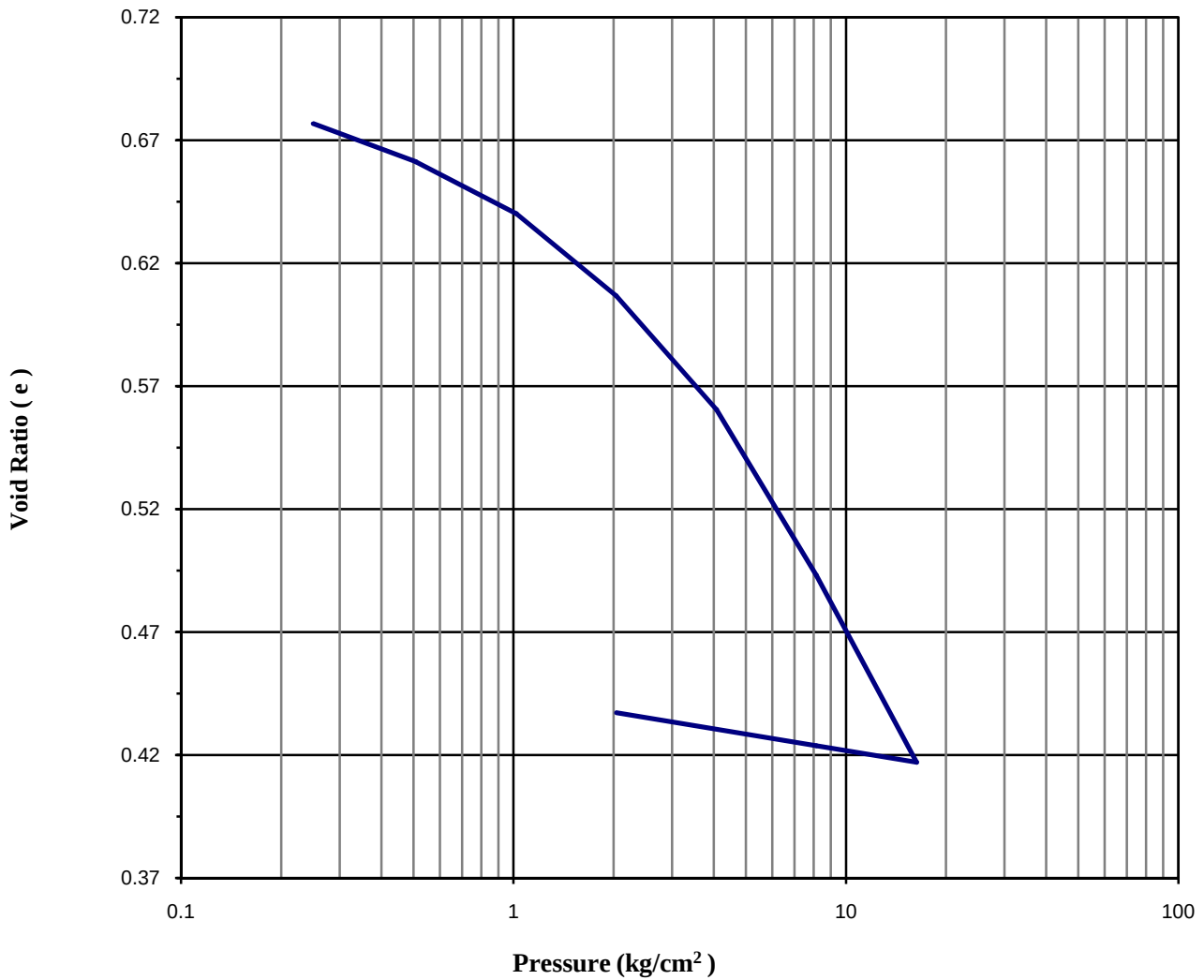


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
16

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-049	Depth (m) : 23.00-23.50	Date : 1394/02/18
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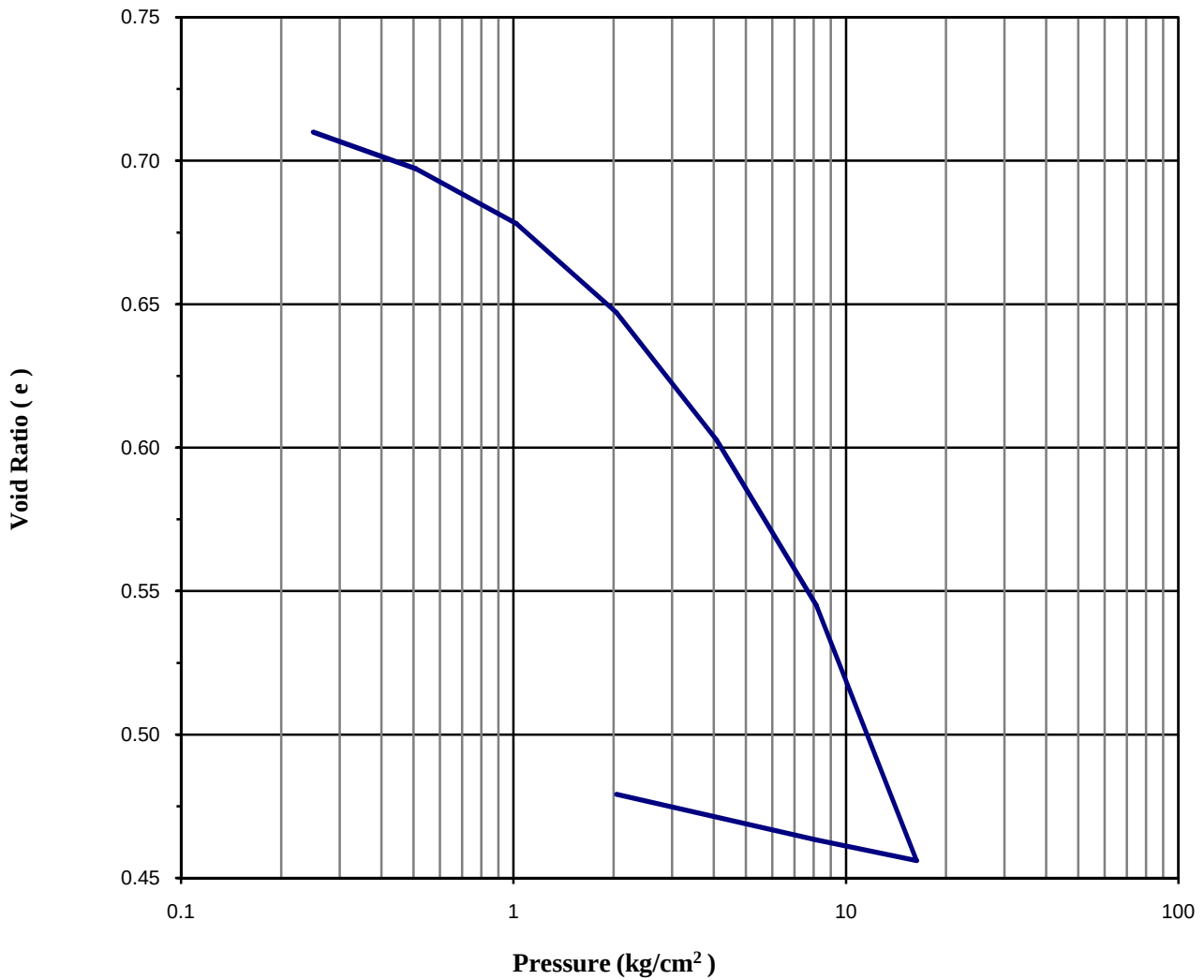
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	24	160	198.40

Gs :	2.73
e ₀ :	0.68

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 17
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-059	Depth (m) : 3.50-4.00	Date : 1394/02/14
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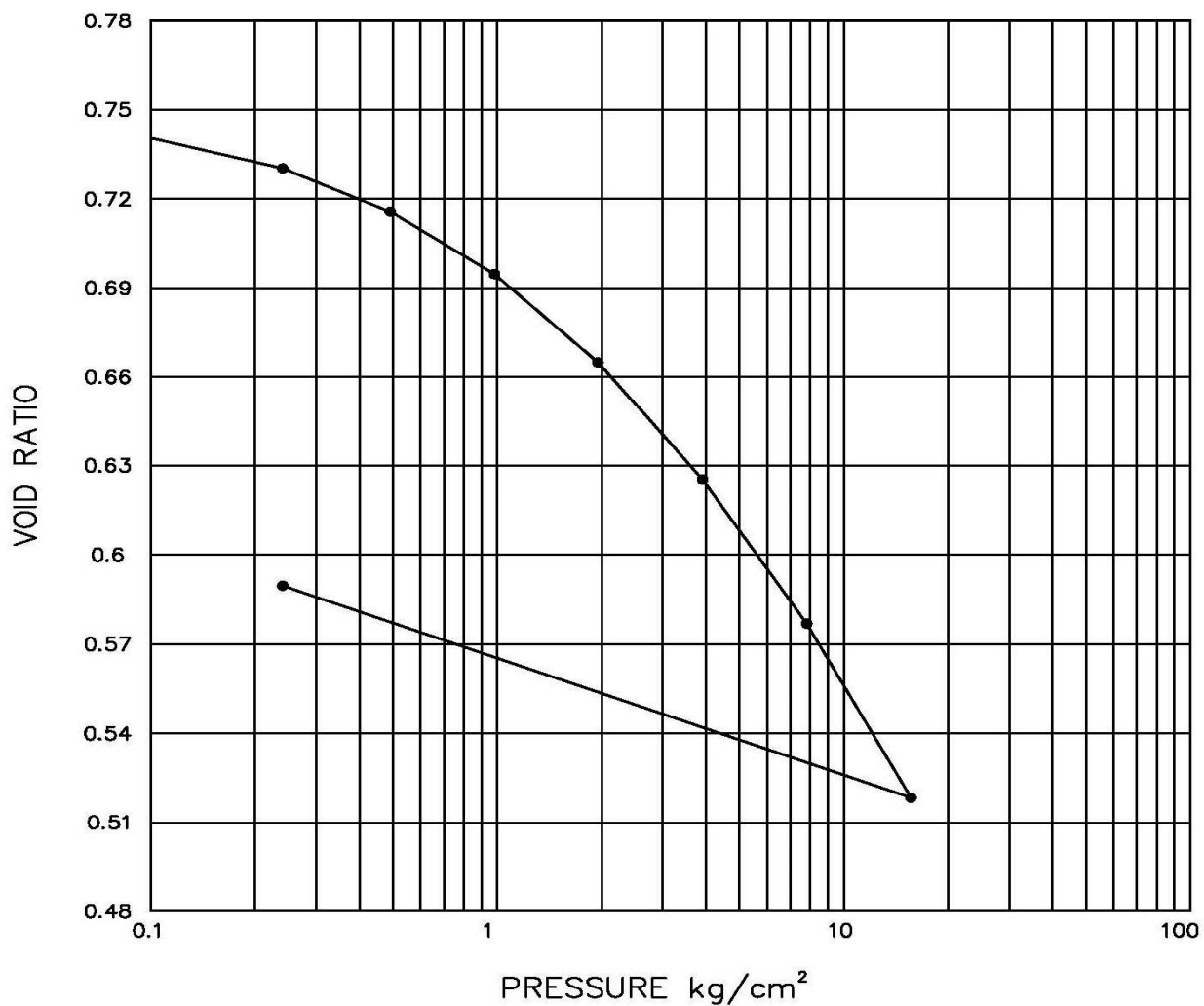
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	23.9	1.55	1.92

Gs :	2.70
e ₀ :	0.72

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 18
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-069 **Depth (m) :** 14.00-14.50 **Date :** 1394/02/15

INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
97	Undisturbed	27	1.55	1.97

Gs : 2.70.

e_0 : 0.74

CONSOLIDATION TEST DATA



PROJECT: SOUTH ALUMINUM SMELTER PLANT

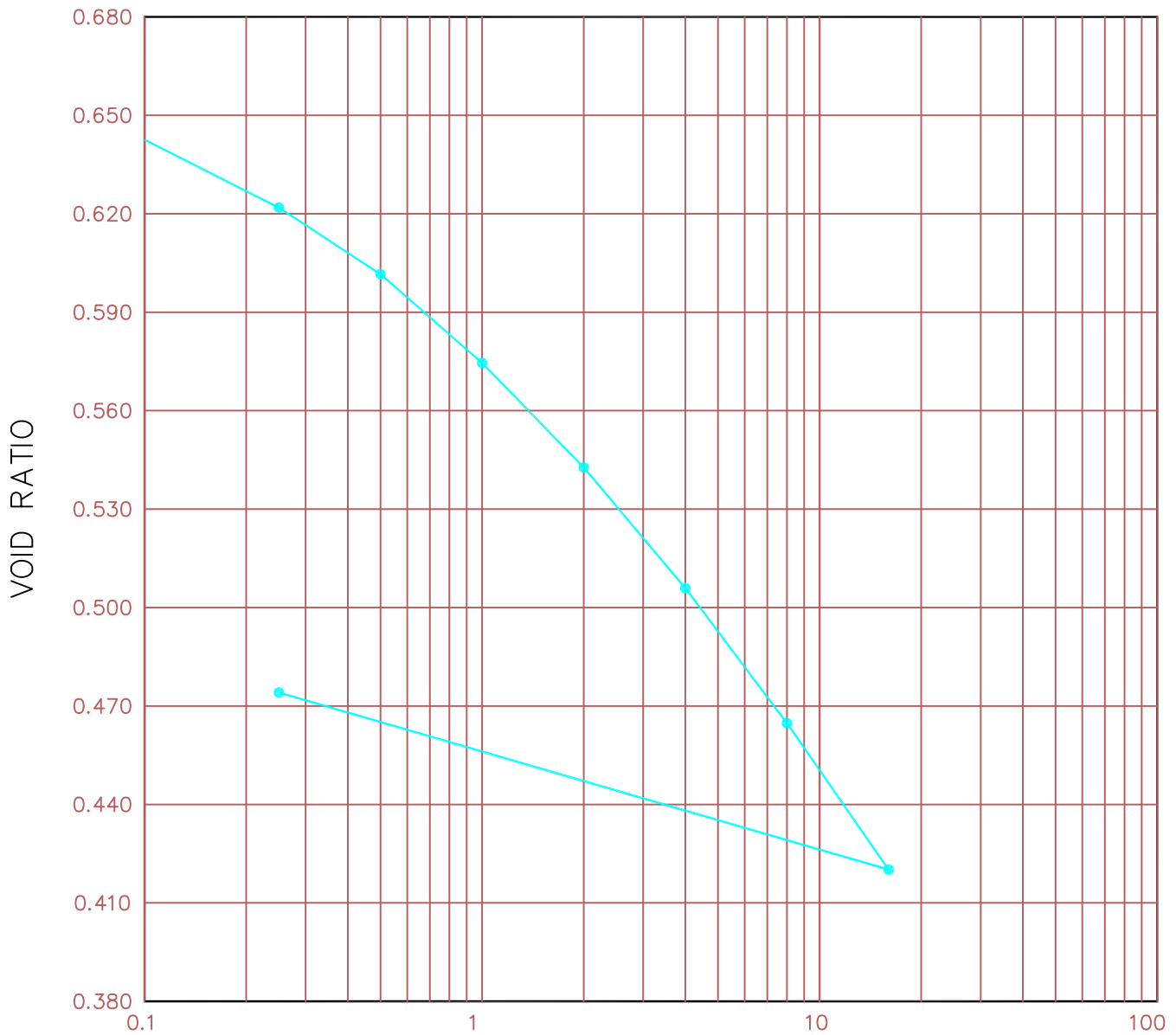
FIG. No.: 19

CLIENT : NFC

PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-073	U06	33.00-33.30	<CL>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.03	1.64	0.649	

CONSOLIDATION TEST DATA

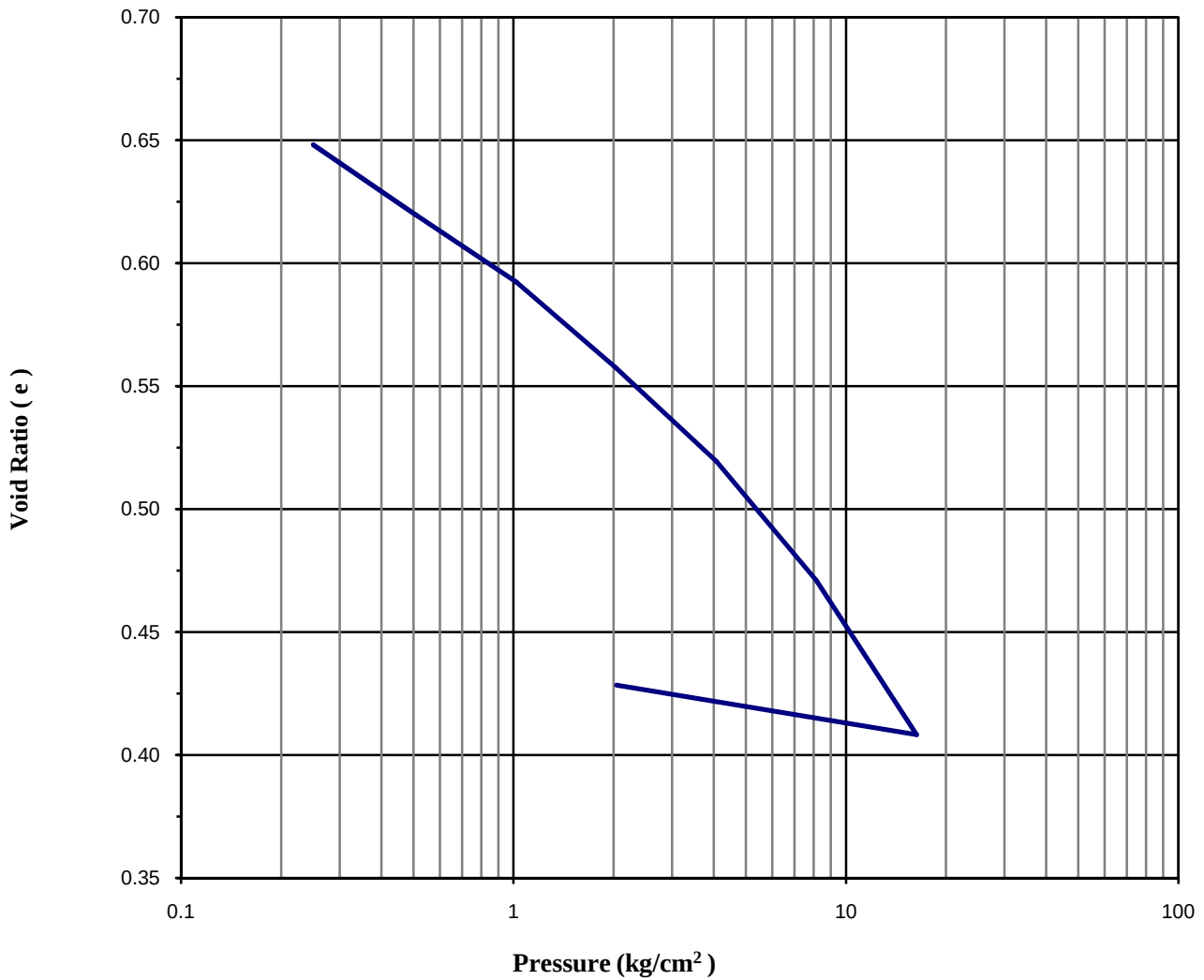


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
20

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-107	Depth (m) : 4.00-4.50	Date : 1394/02/16
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	20.2	1.6	1.92

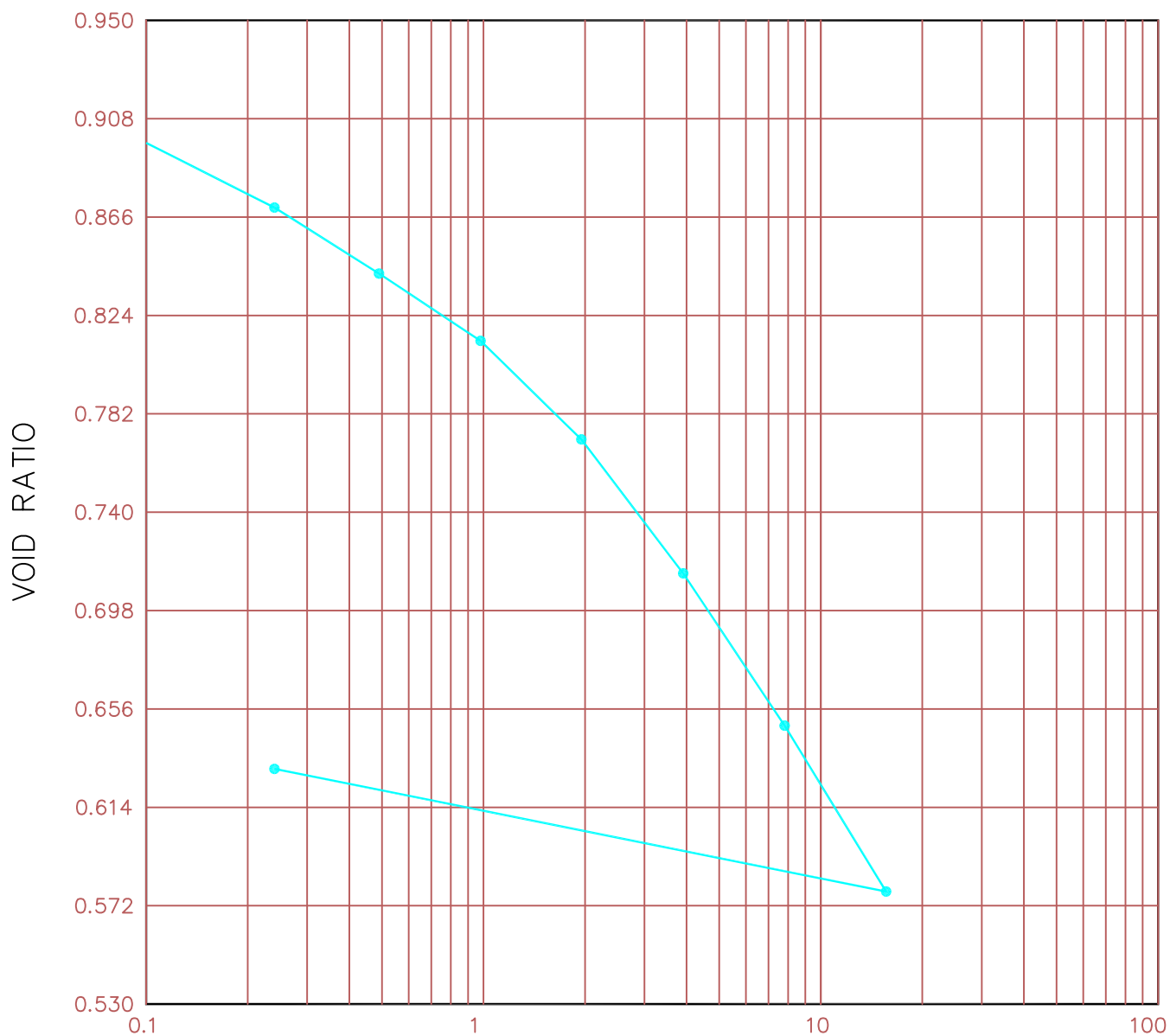
Gs :	2.71
e_0 :	0.67

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 21
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-109	U01	7.00-7.40	<ML/CL-ML/CL>	UNDISTURBED	2.70	86

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
29	1.83	1.42	0.904	

CONSOLIDATION TEST DATA



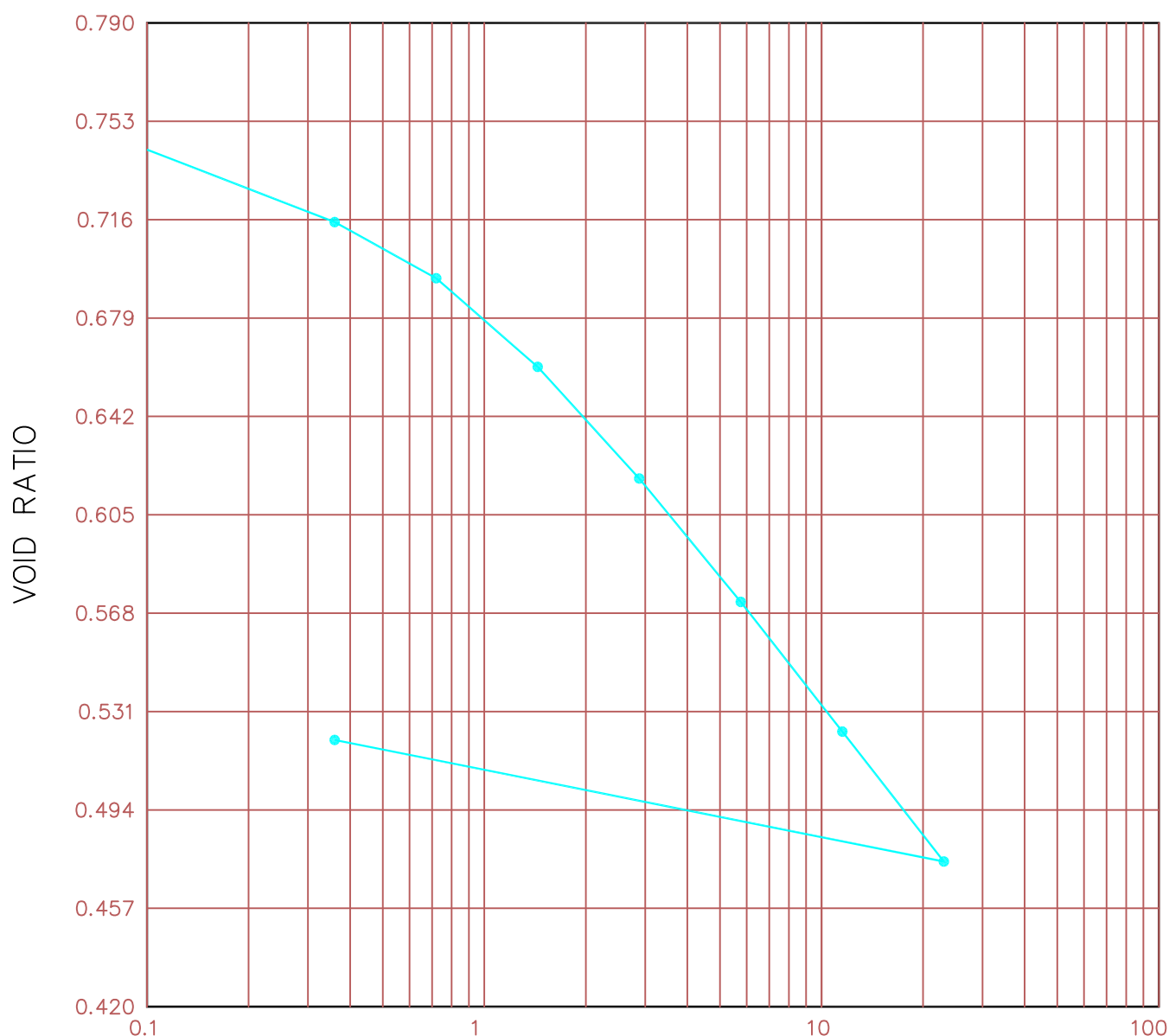
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
22

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-109	U02	9.00-9.40	<ML/CL>	UNDISTURBED	2.70	89

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	1.93	1.55	0.745	

CONSOLIDATION TEST DATA



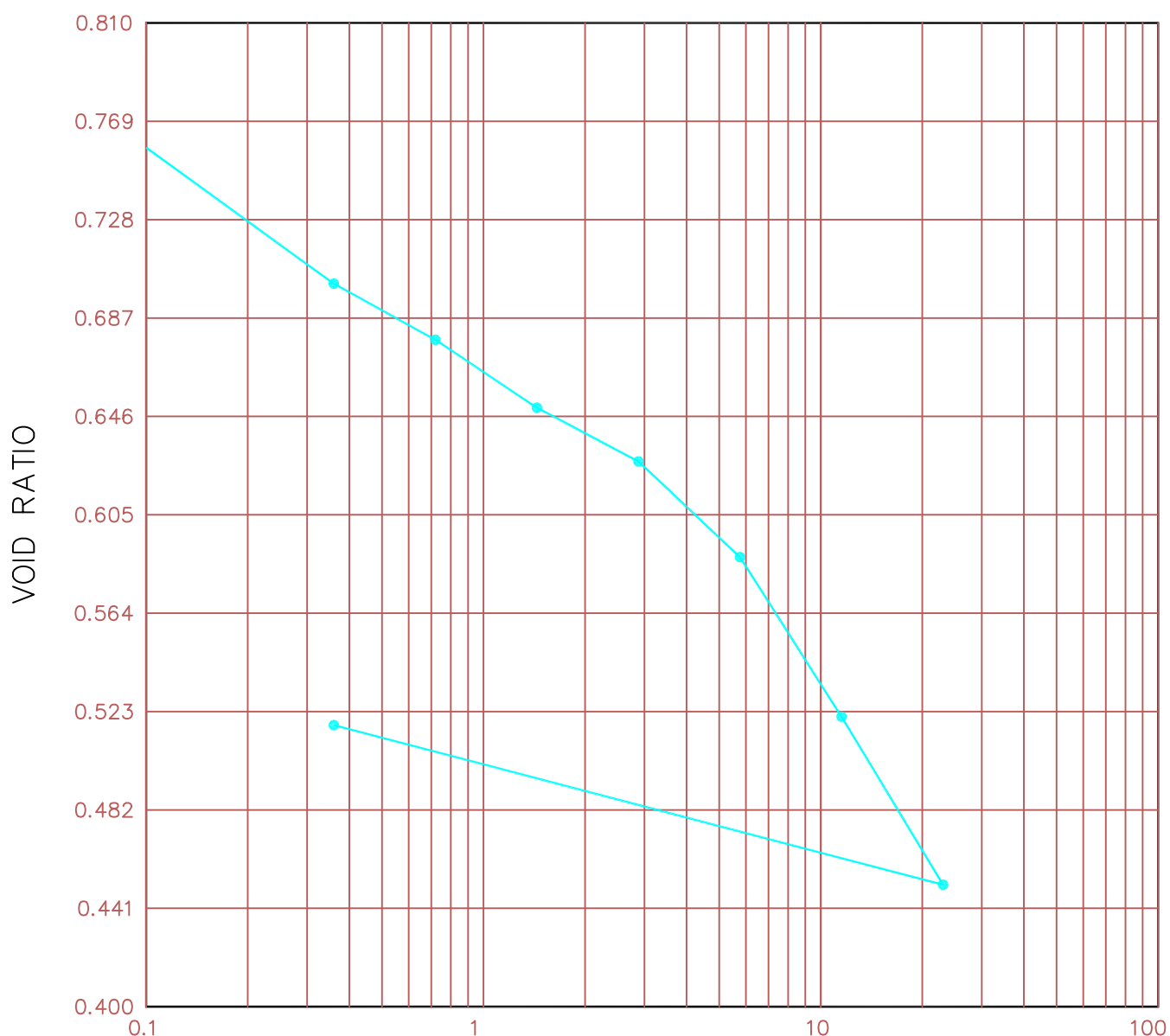
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
23

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-111	U04	12.50-12.95	<CL/ML>	UNDISTURBED	2.75	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
28	1.99	1.56	0.764	

CONSOLIDATION TEST DATA



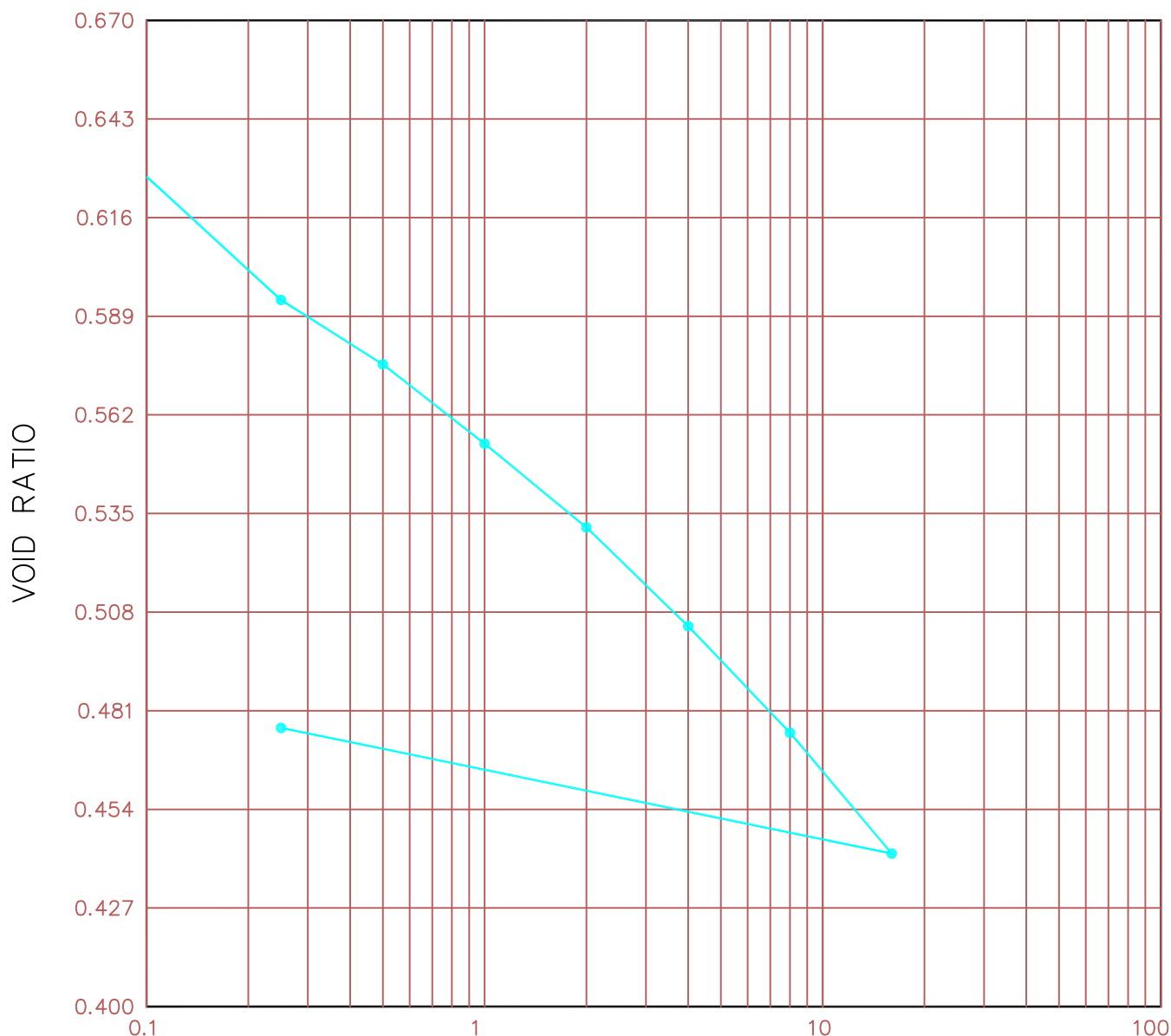
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
24

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-112	U02	10.00-10.55	<CL/ML>	UNDISTURBED	2.73	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
23	2.05	1.67	0.639	Sample was slightly dried

CONSOLIDATION TEST DATA



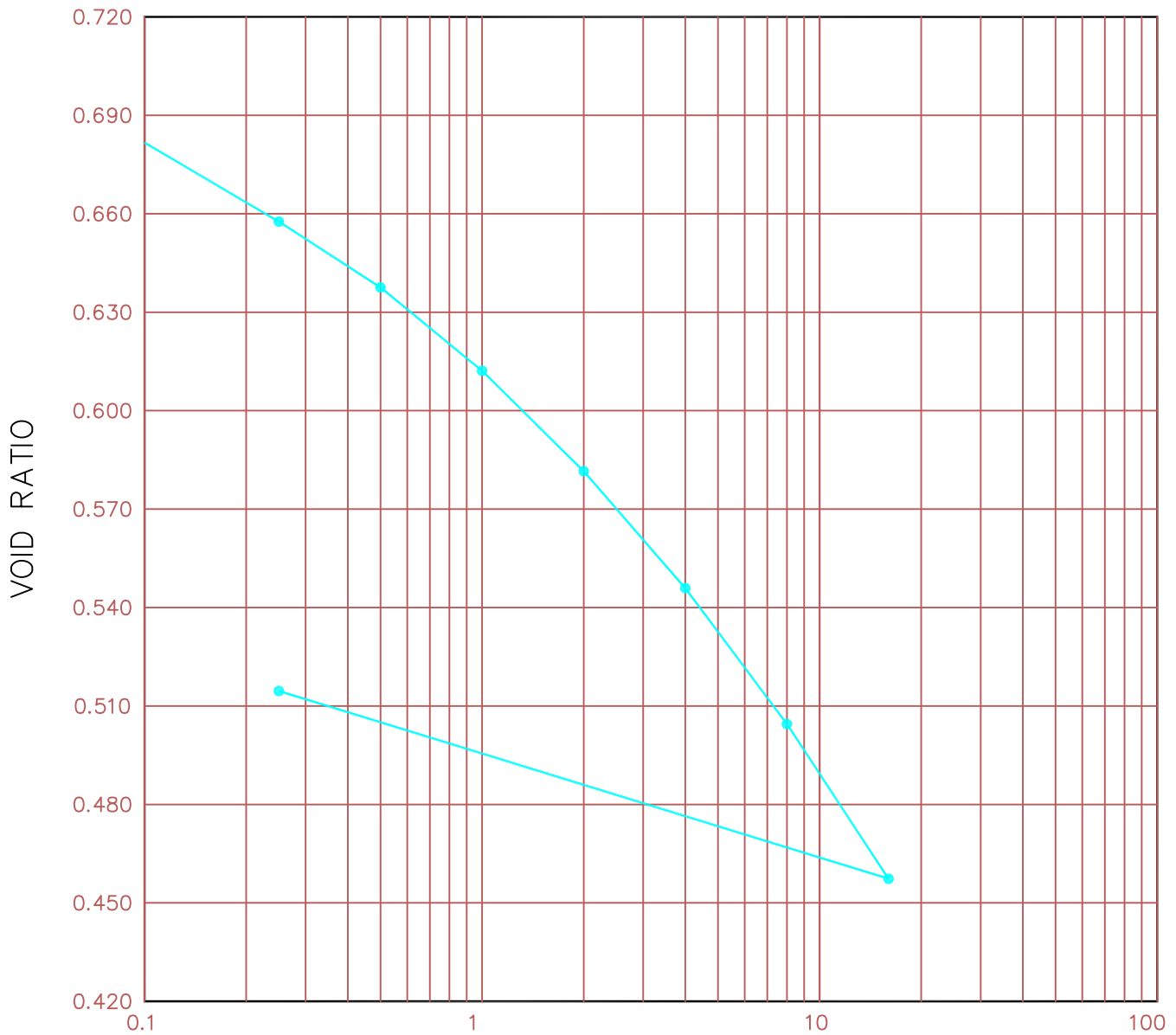
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
25

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-112	U04	15.00-15.60	<CL/ML>	UNDISTURBED	2.72	96

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.00	1.61	0.690	Sample was slightly dried

CONSOLIDATION TEST DATA



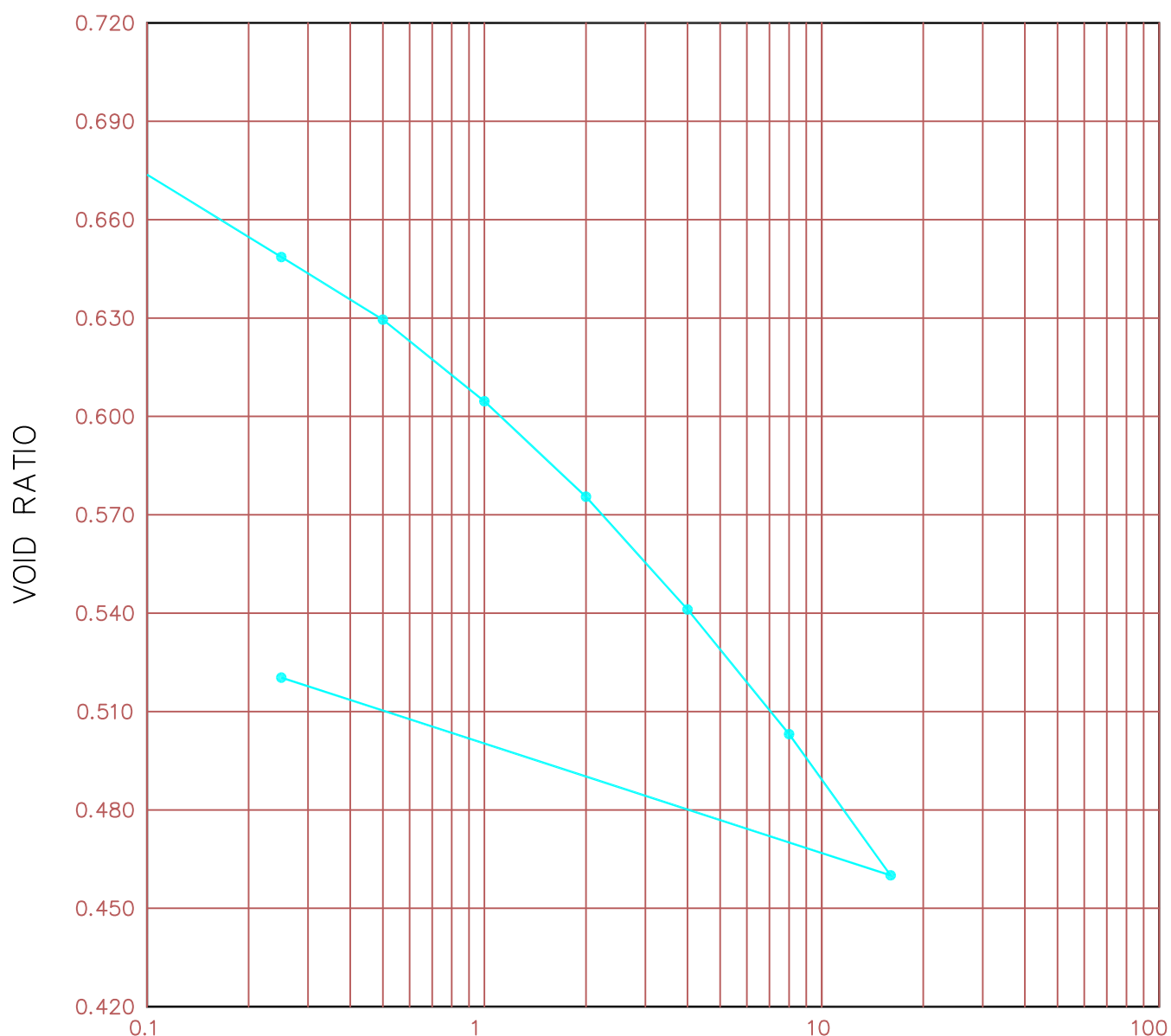
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
26

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-112	U09	27.50-27.80	<CL/ML>	UNDISTURBED	2.70	96

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	1.99	1.61	0.682	Sample was slightly dried

CONSOLIDATION TEST DATA

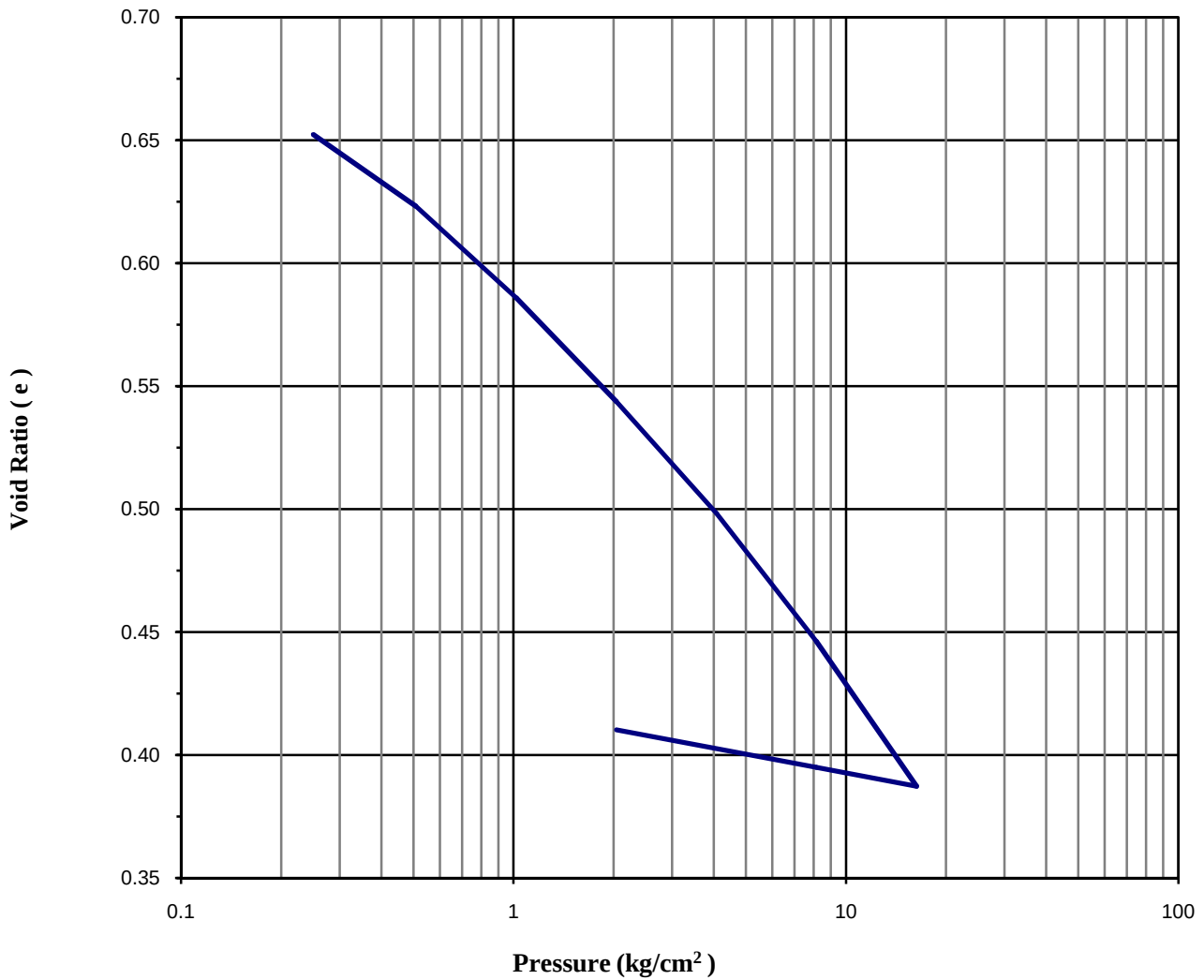


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
27

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-114	Depth (m) : 5.00-5.50	Date : 1394/02/16
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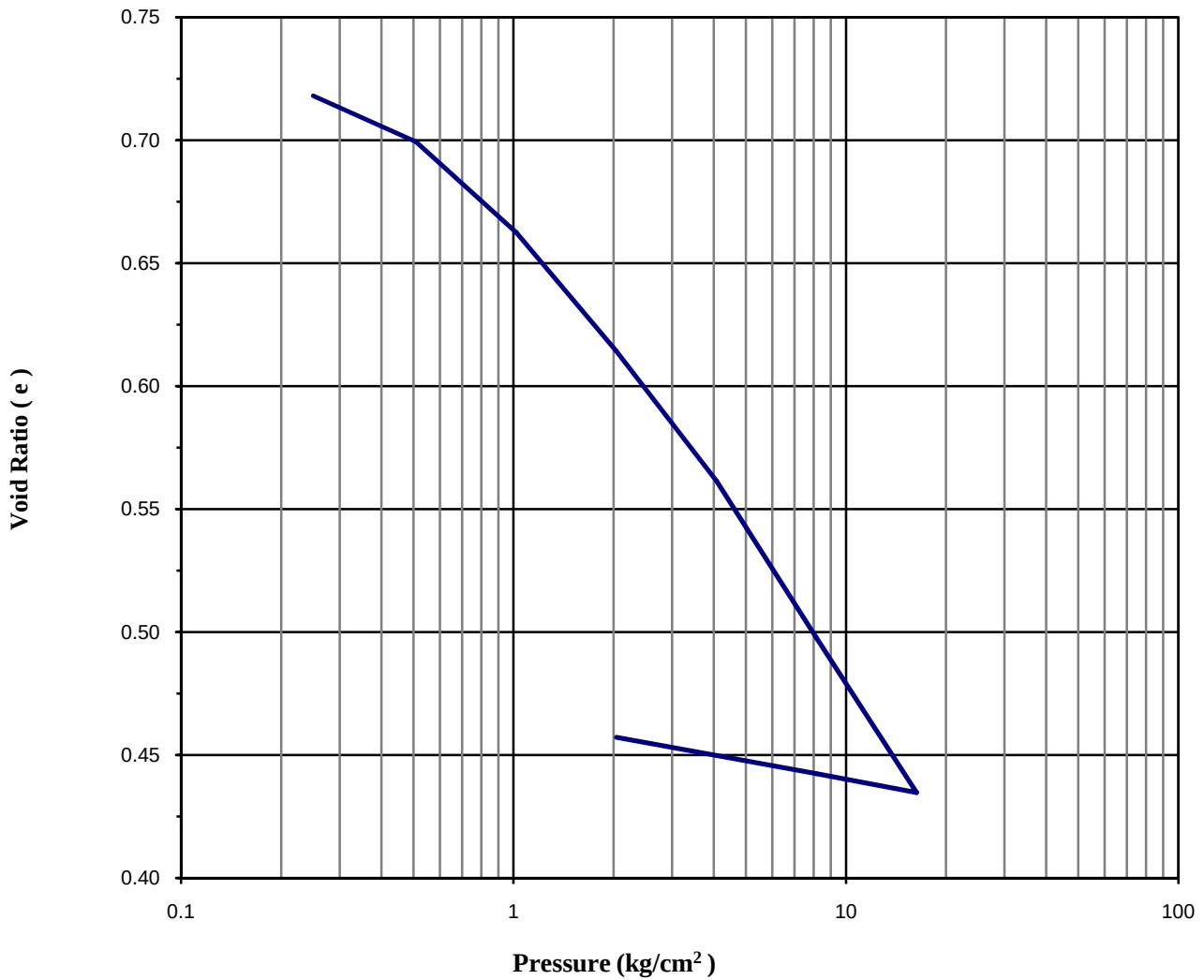
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	21.1	1.61	1.95

Gs :	2.73
e ₀ :	0.67

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 28
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-119	Depth (m) : 3.50-4.00	Date : 1394/02/16
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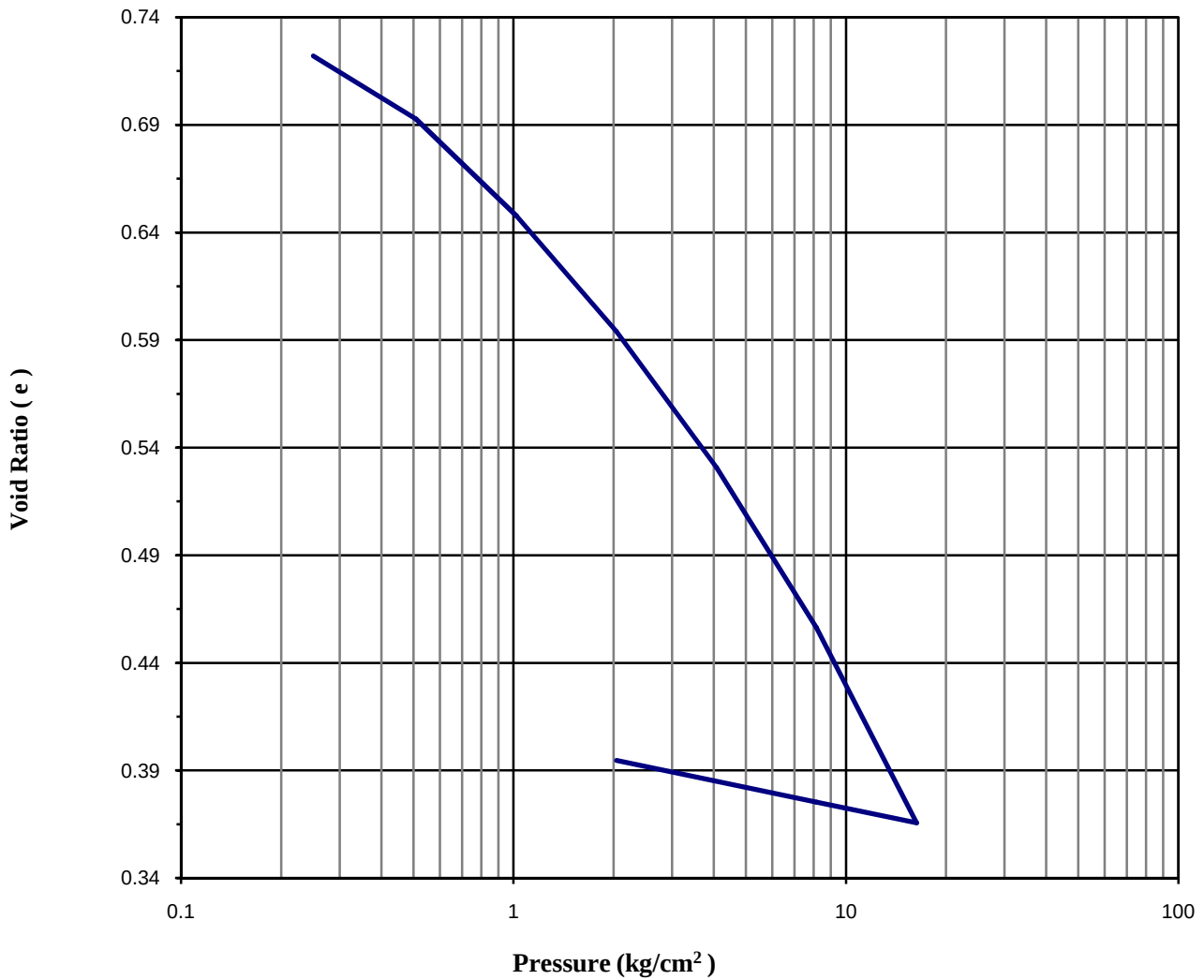
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	23	1.56	1.92

Gs :	2.74
e_0 :	0.73

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 29
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-119	Depth (m) : 6.00-6.50	Date : 1394/02/15
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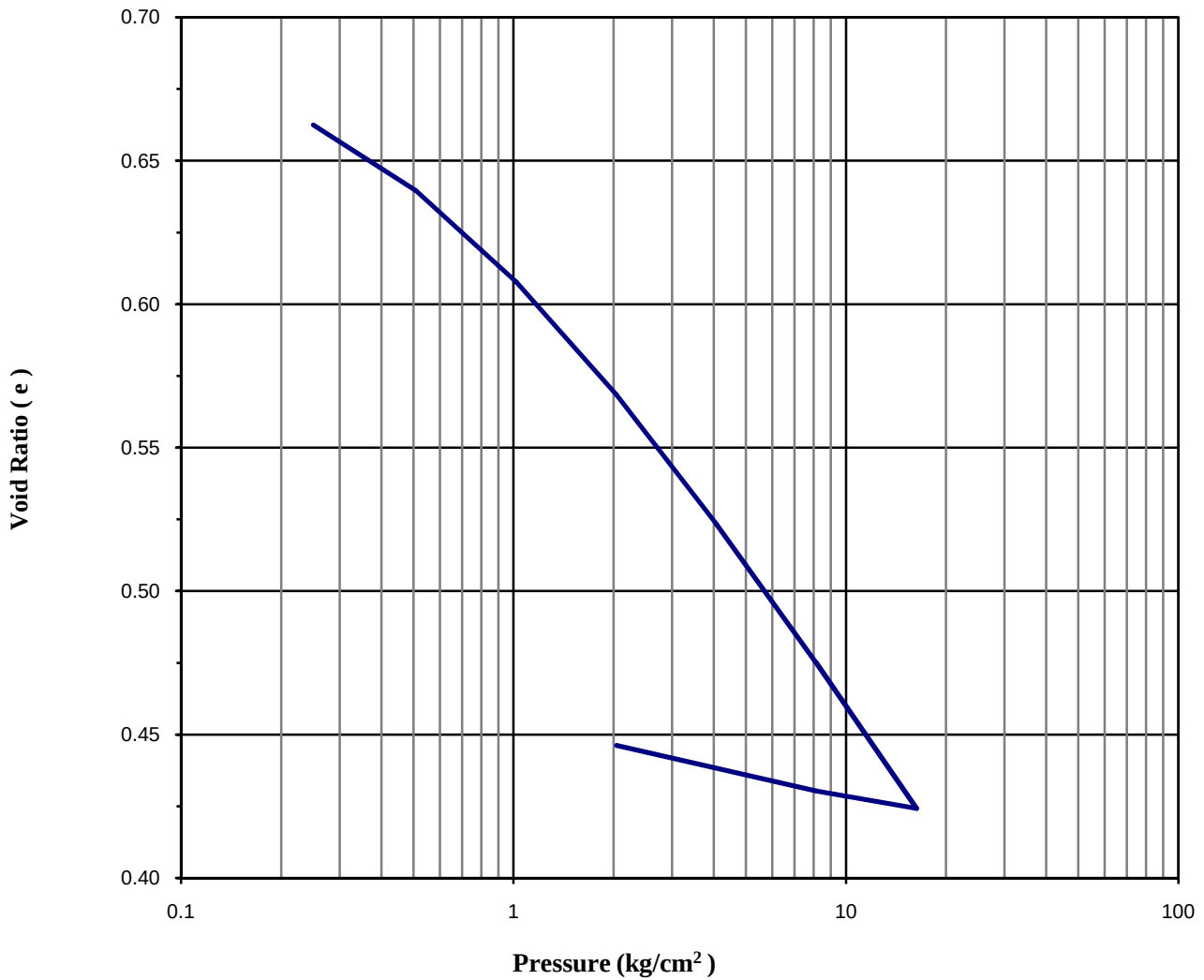
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26.1	1.53	1.93

Gs :	2.72
e ₀ :	0.75

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 30
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-119	Depth (m) : 21.00-21.50	Date : 1394/02/14
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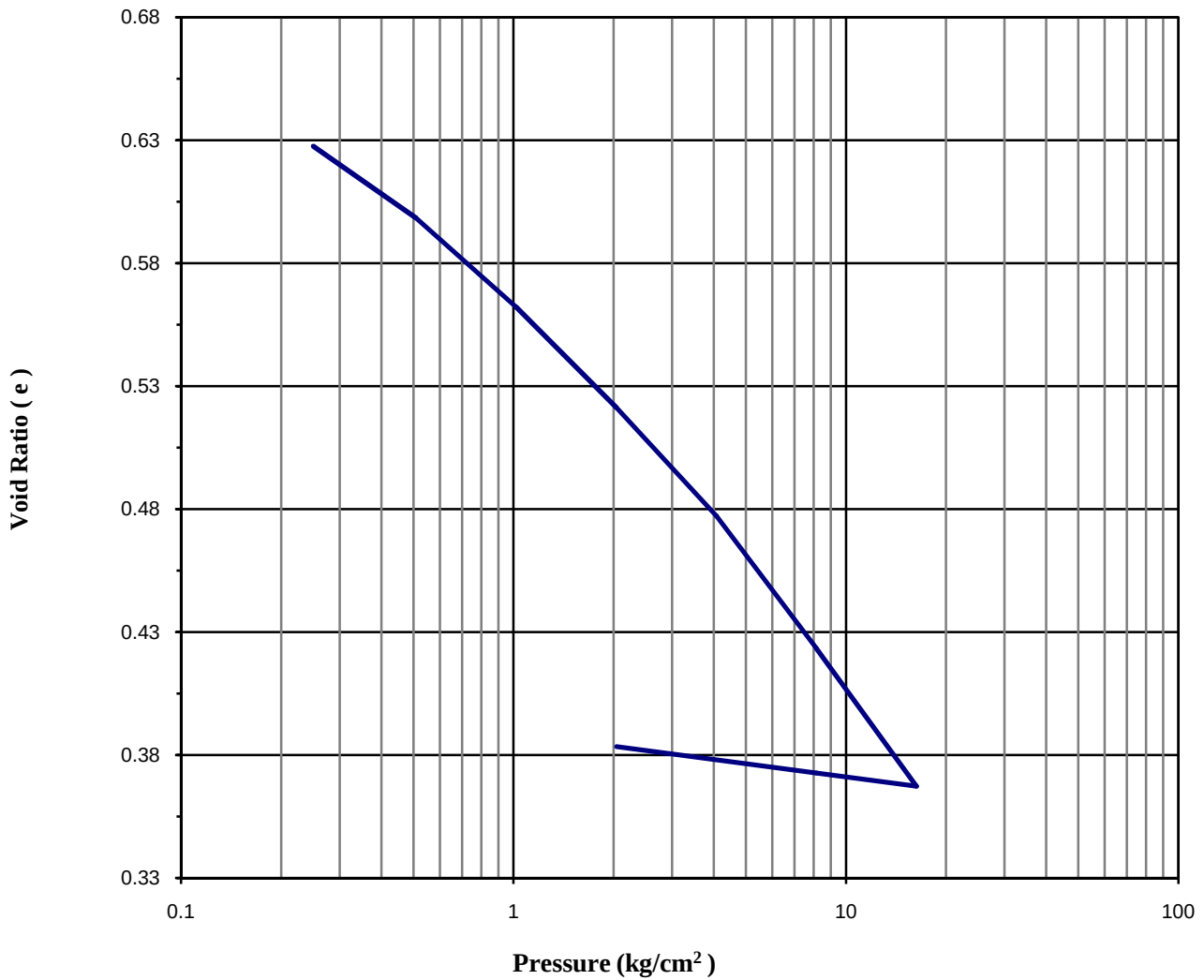
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	25	1.57	1.96

Gs :	2.67
e_0 :	0.68

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 31
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-119	Depth (m) : 26.00-26.5	Date : 1394/02/17
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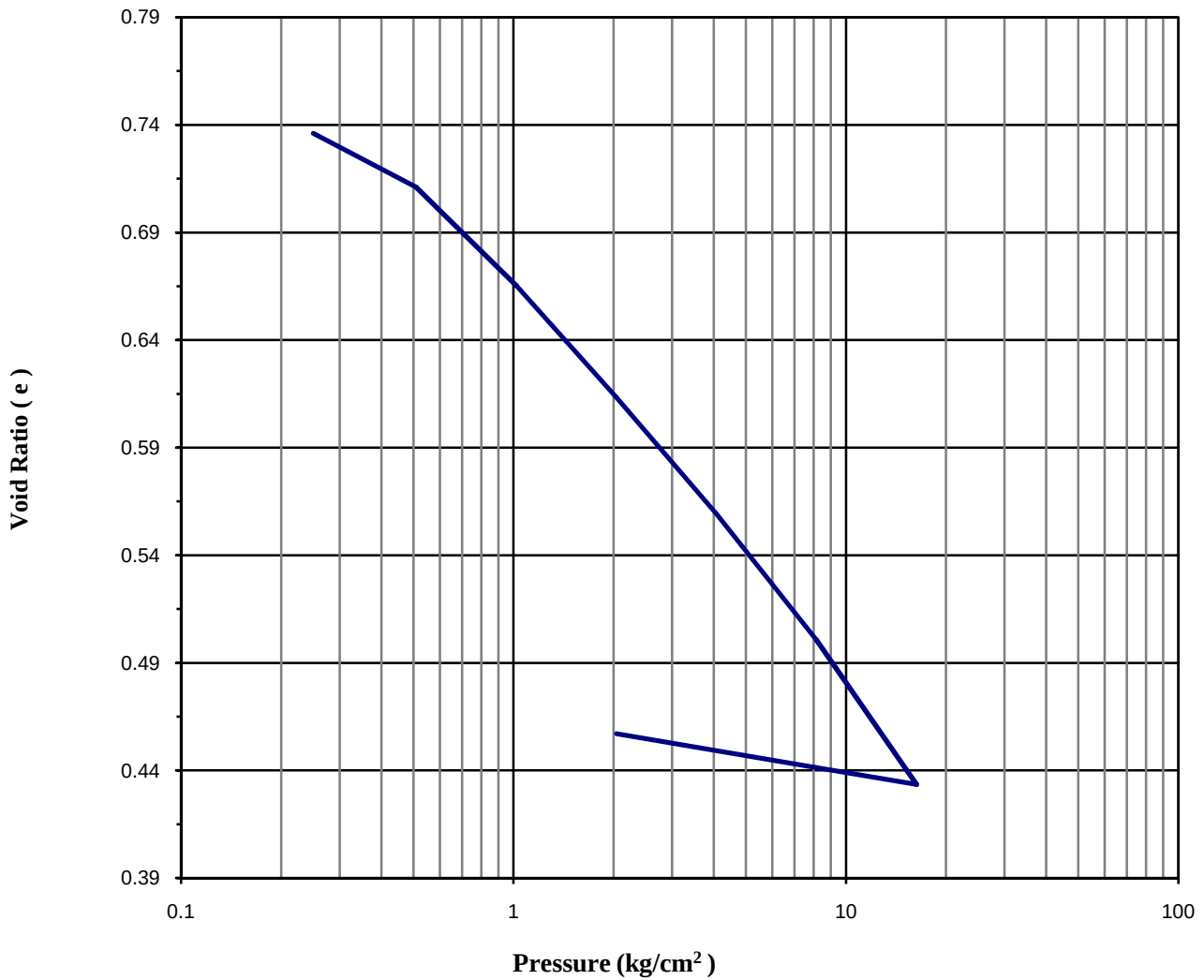
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	16.2	1.64	1.91

Gs :	2.73
e ₀ :	0.65

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 32
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-133	Depth (m) : 7.00-7.50	Date : 1394/02/17
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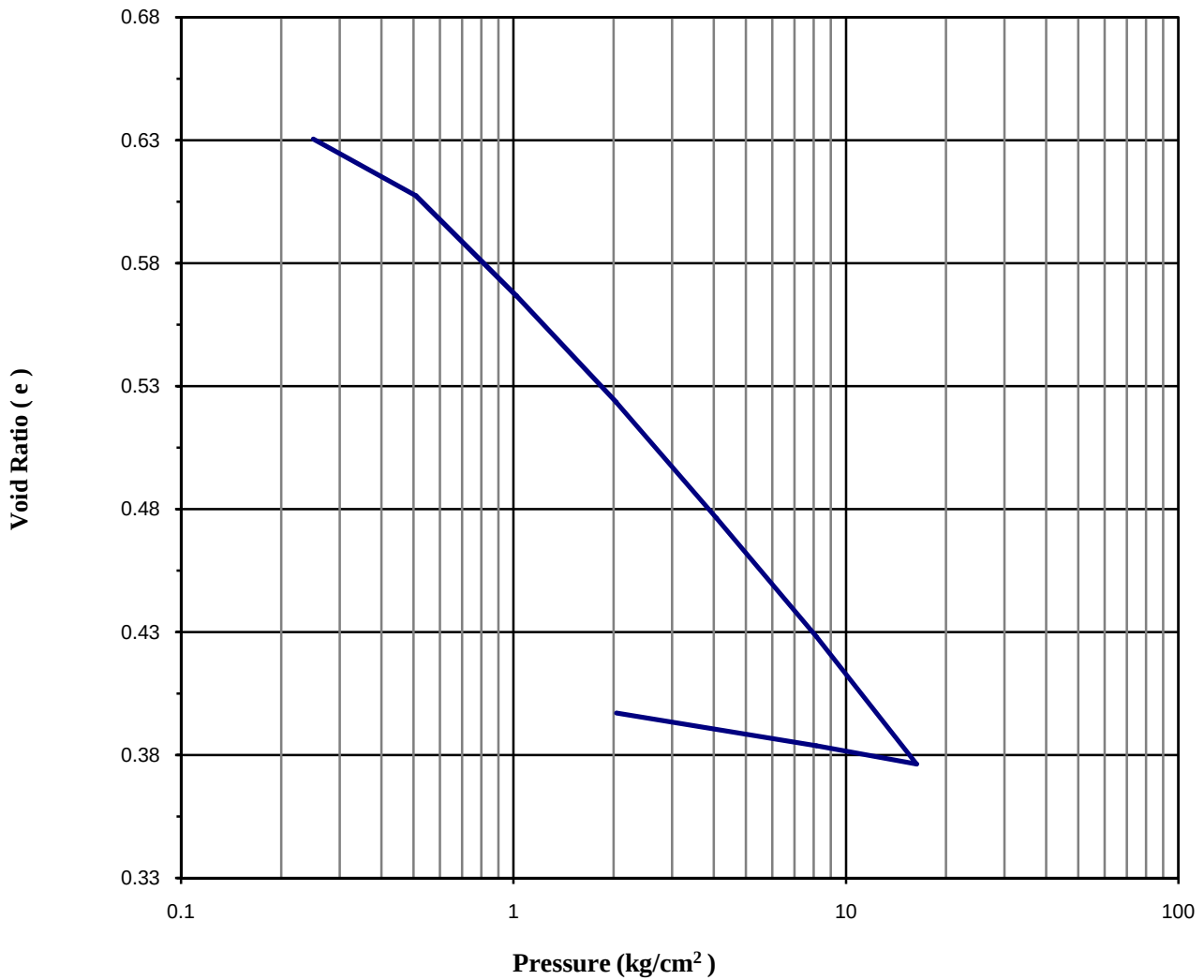
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	25.6	1.55	1.95

Gs :	2.75
e ₀ :	0.75

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 33
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-133	Depth (m) : 19.00-19.5	Date : 1394/02/16
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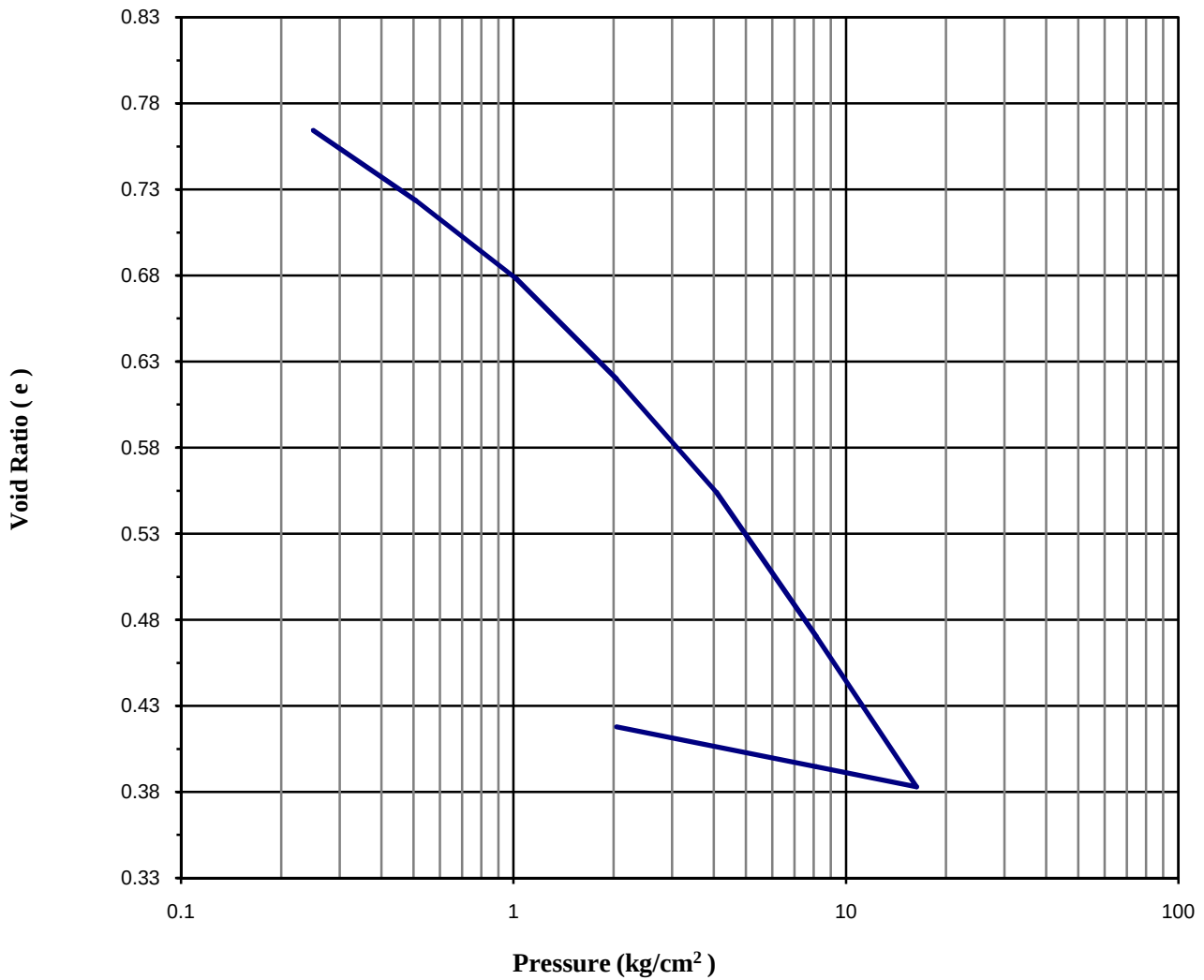
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	23.9	1.6	1.98

Gs :	2.71
e_0 :	0.67

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 34
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-139	Depth (m) : 10.00-10.50	Date : 1394/02/17
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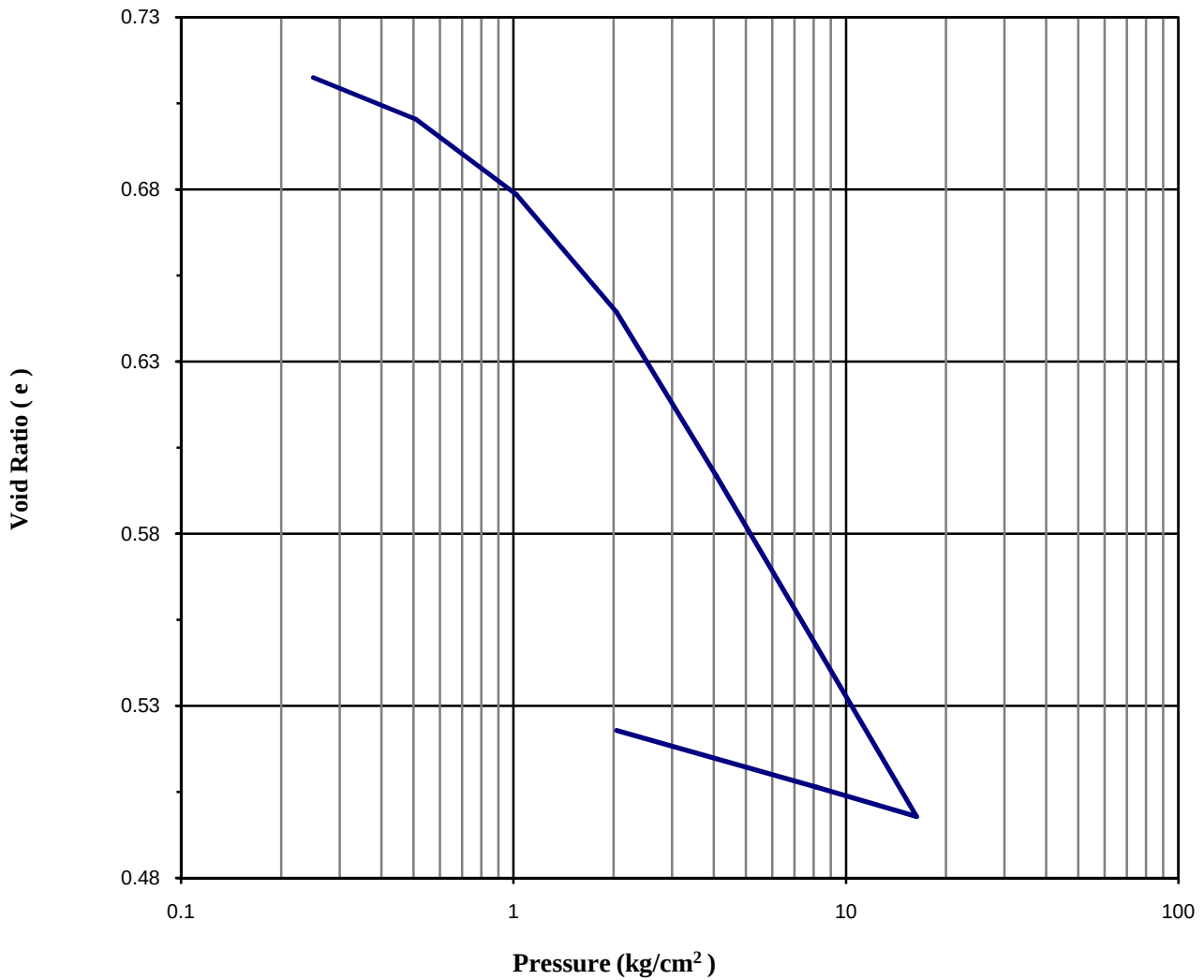
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	25.3	1.51	1.89

Gs :	2.73
e ₀ :	0.78

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 35
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-139	Depth (m) : 22.00-22.50	Date : 1394/02/16
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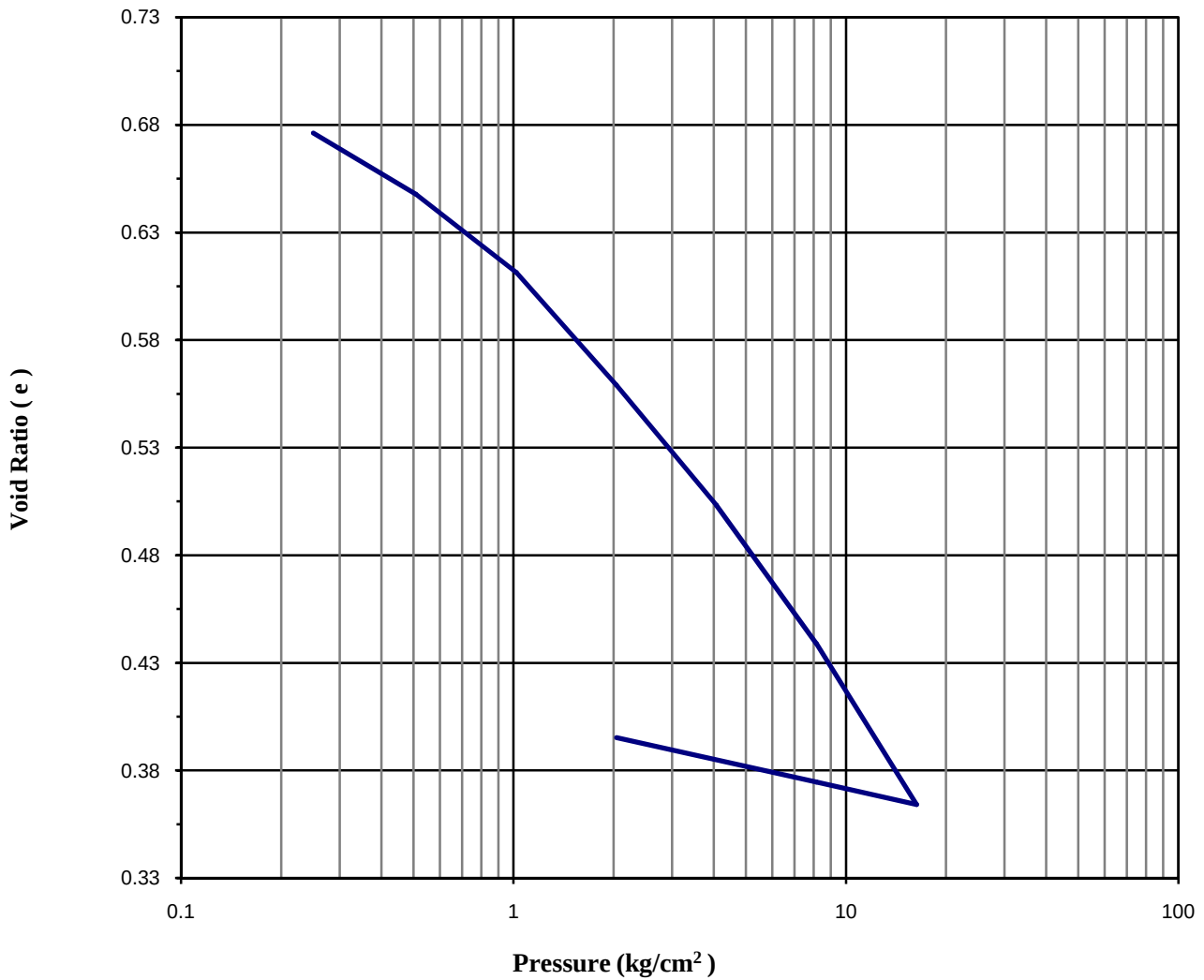
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	24.4	1.58	1.97

Gs :	2.75
e ₀ :	0.72

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 36
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-139	Depth (m) : 26.00-26.50	Date : 1394/02/16
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	25.3	1.56	1.95

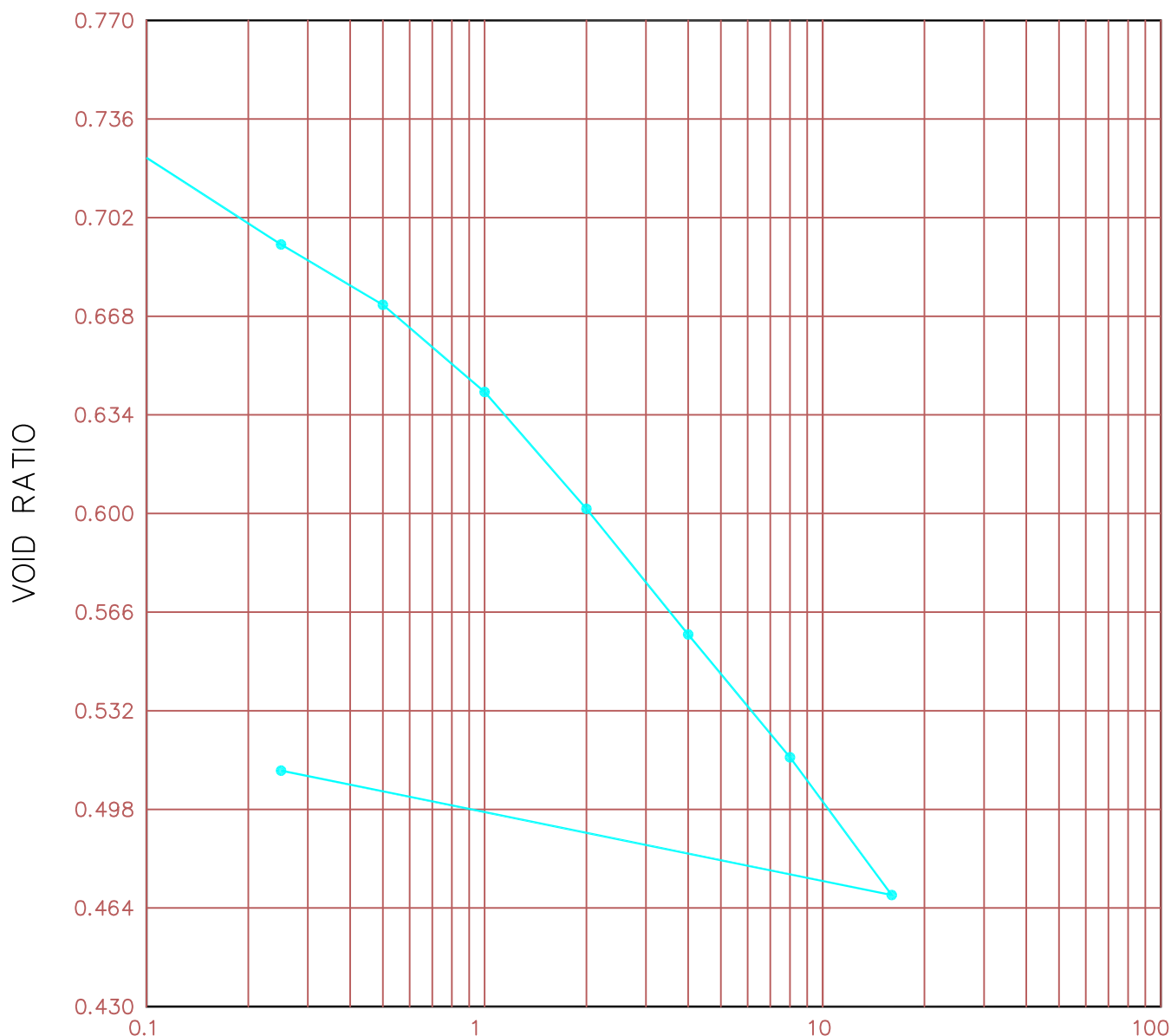
Gs :	2.71
e_0 :	0.72

CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 37
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-139	U21	48.00-48.50	<CL/ML>	UNDISTURBED	2.72	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
27	1.99	1.57	0.733	Sample was slightly dried

CONSOLIDATION TEST DATA



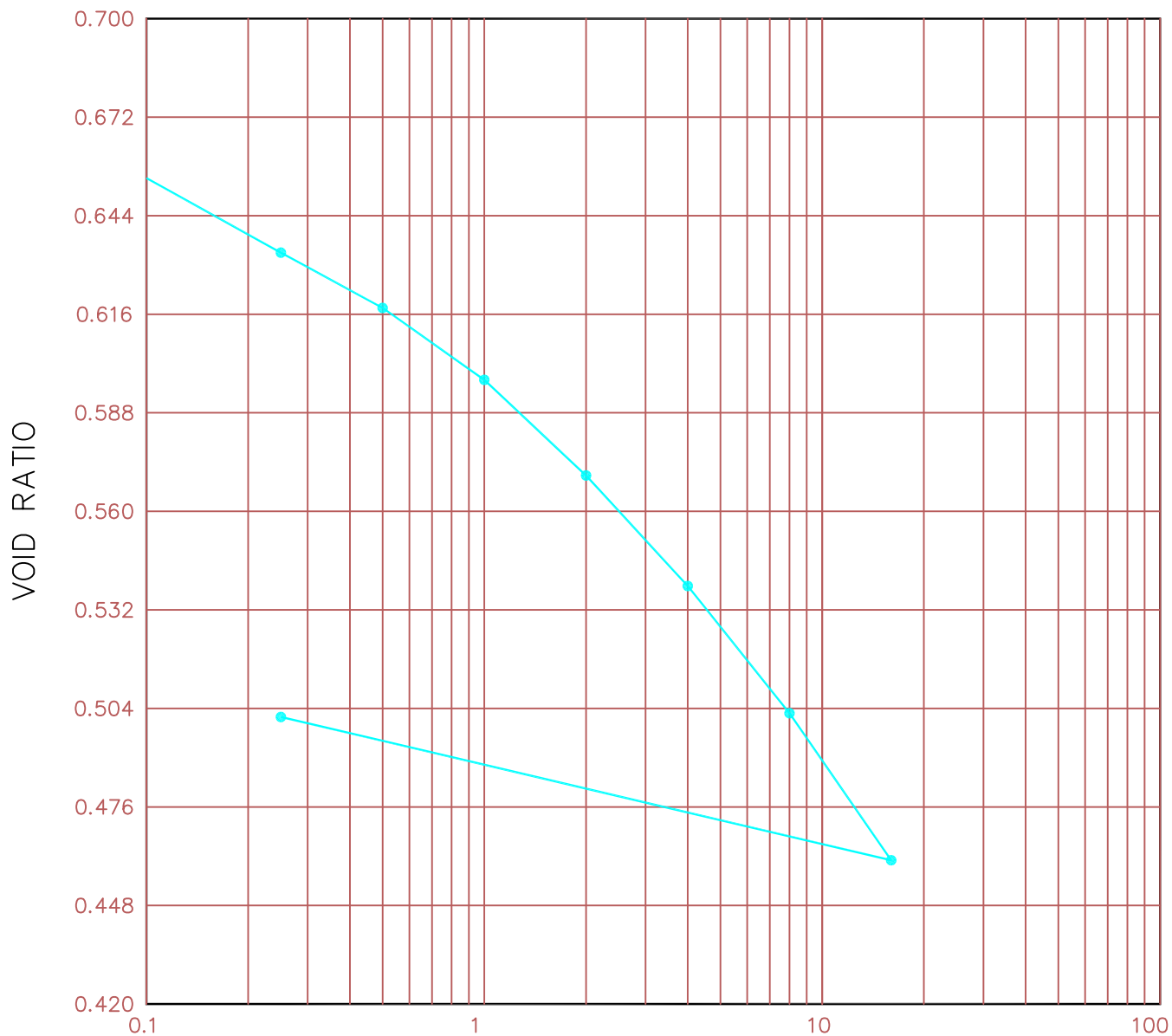
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
38

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-161	U01	8.00-8.25	<CL/CH>	UNDISTURBED	2.71	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.03	1.63	0.662	

CONSOLIDATION TEST DATA



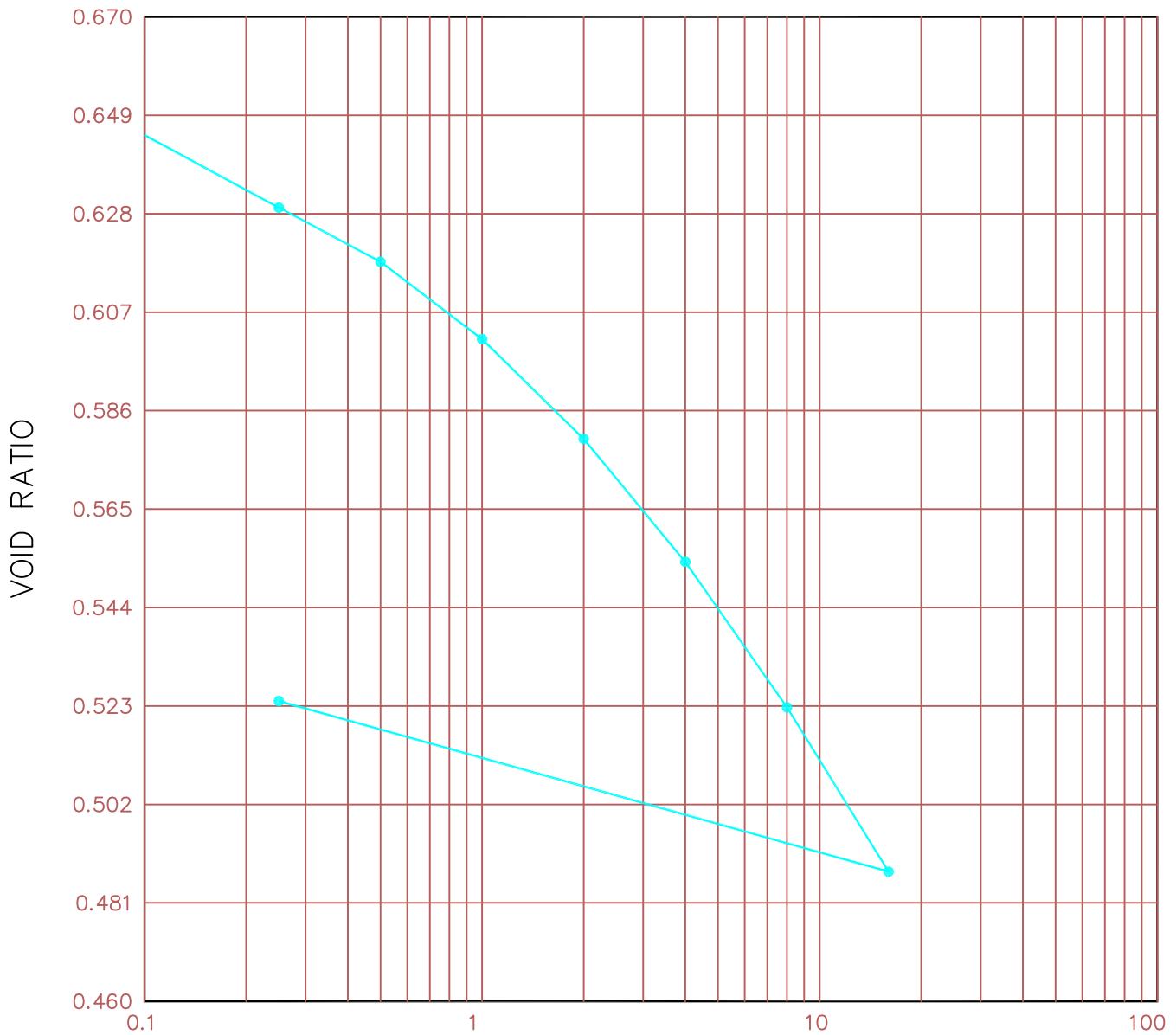
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
39

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-161	U05	18.00-18.20	<CL/ML>	UNDISTURBED	2.70	98

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.02	1.64	0.650	Sample was slightly dried

CONSOLIDATION TEST DATA



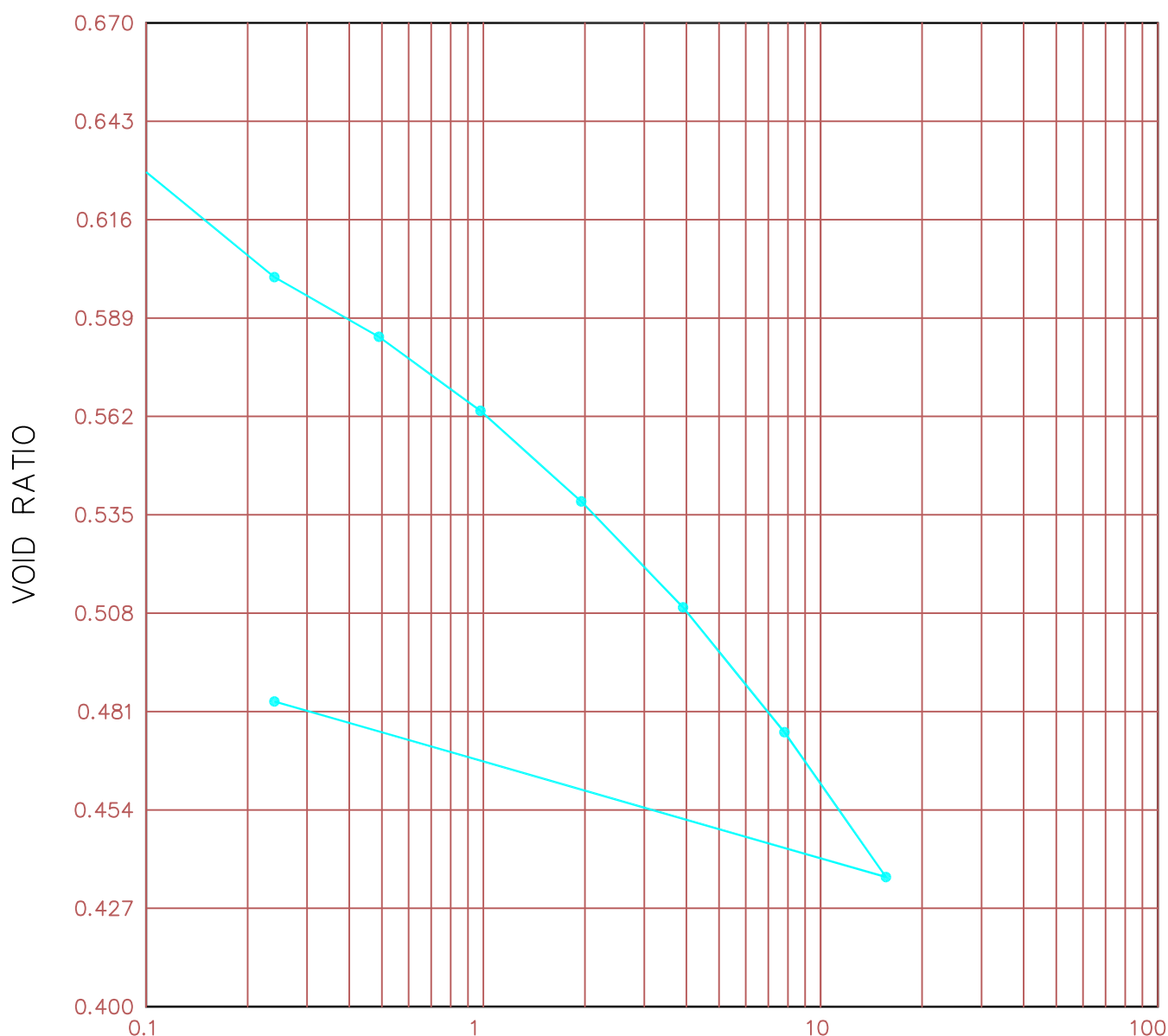
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
40

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-161	U09	28.00-28.55	<CL>	UNDISTURBED	2.70	98

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
23	2.03	1.65	0.635	Sample was slightly dried

CONSOLIDATION TEST DATA



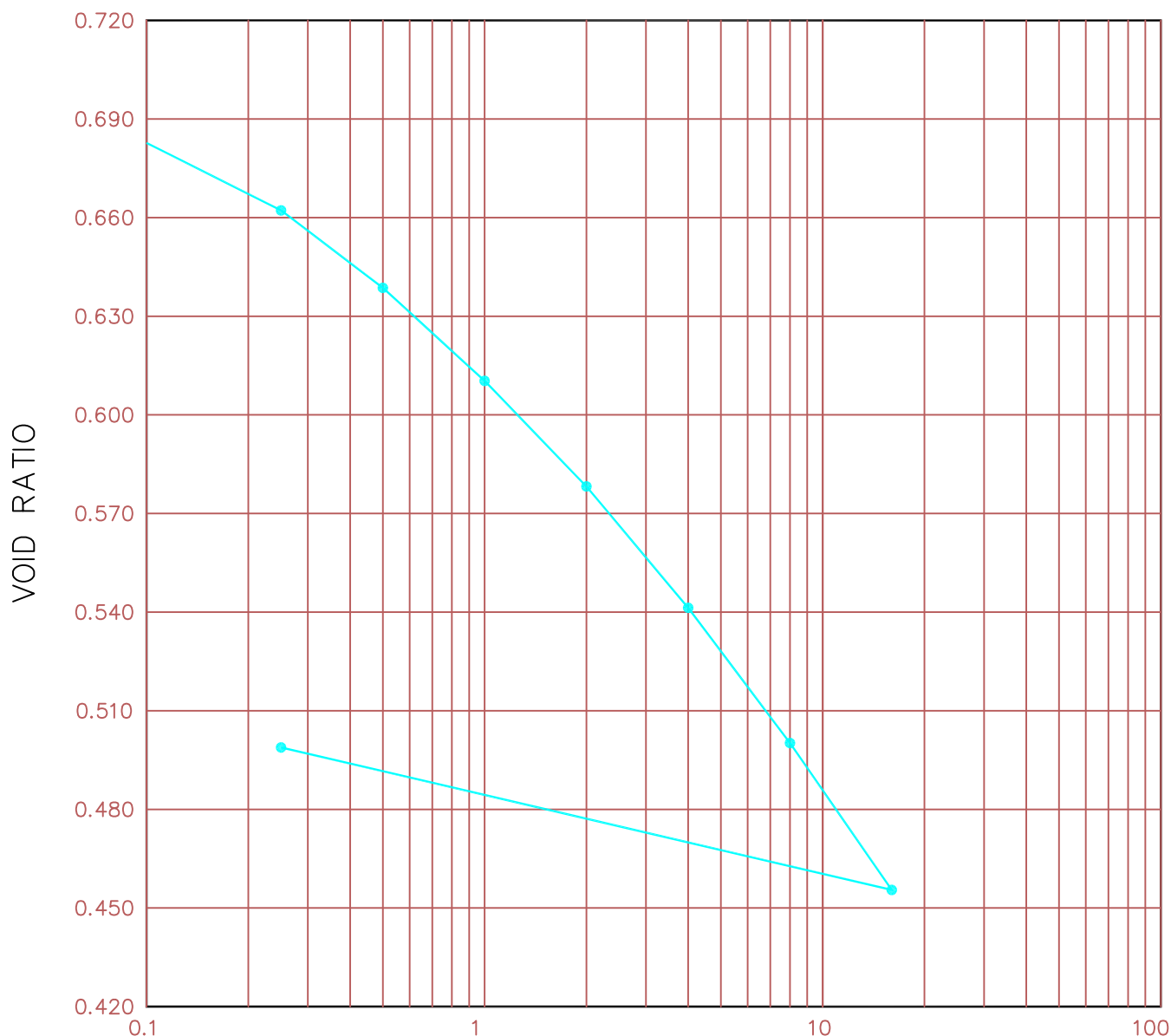
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
41

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-161	U13	38.00-38.50	<CL/ML>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.01	1.60	0.690	

CONSOLIDATION TEST DATA



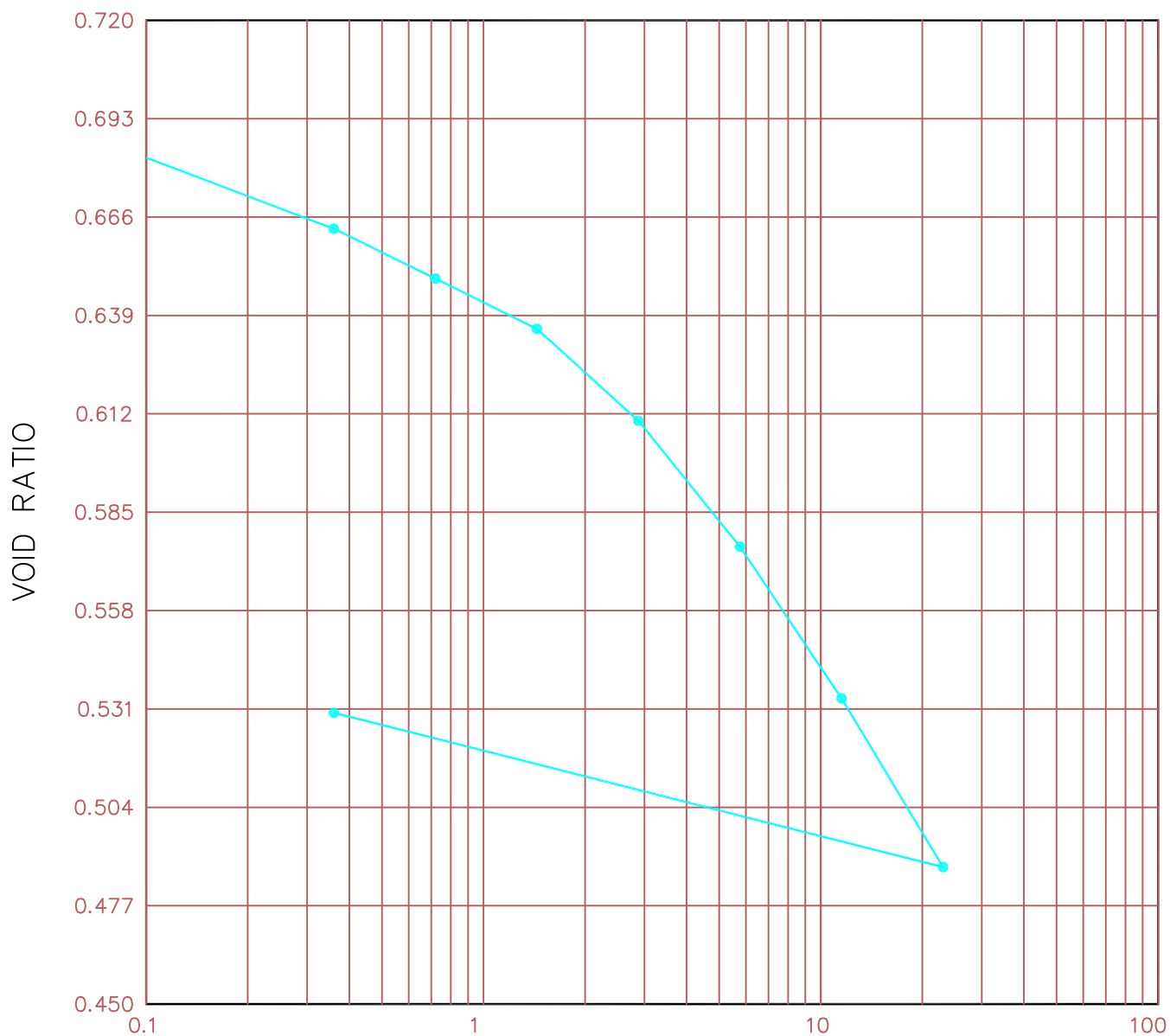
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
42

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-164	U01	5.50-6.00	<CL/ML>	UNDISTURBED	2.70	98

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.00	1.60	0.684	Sample was slightly dried

CONSOLIDATION TEST DATA



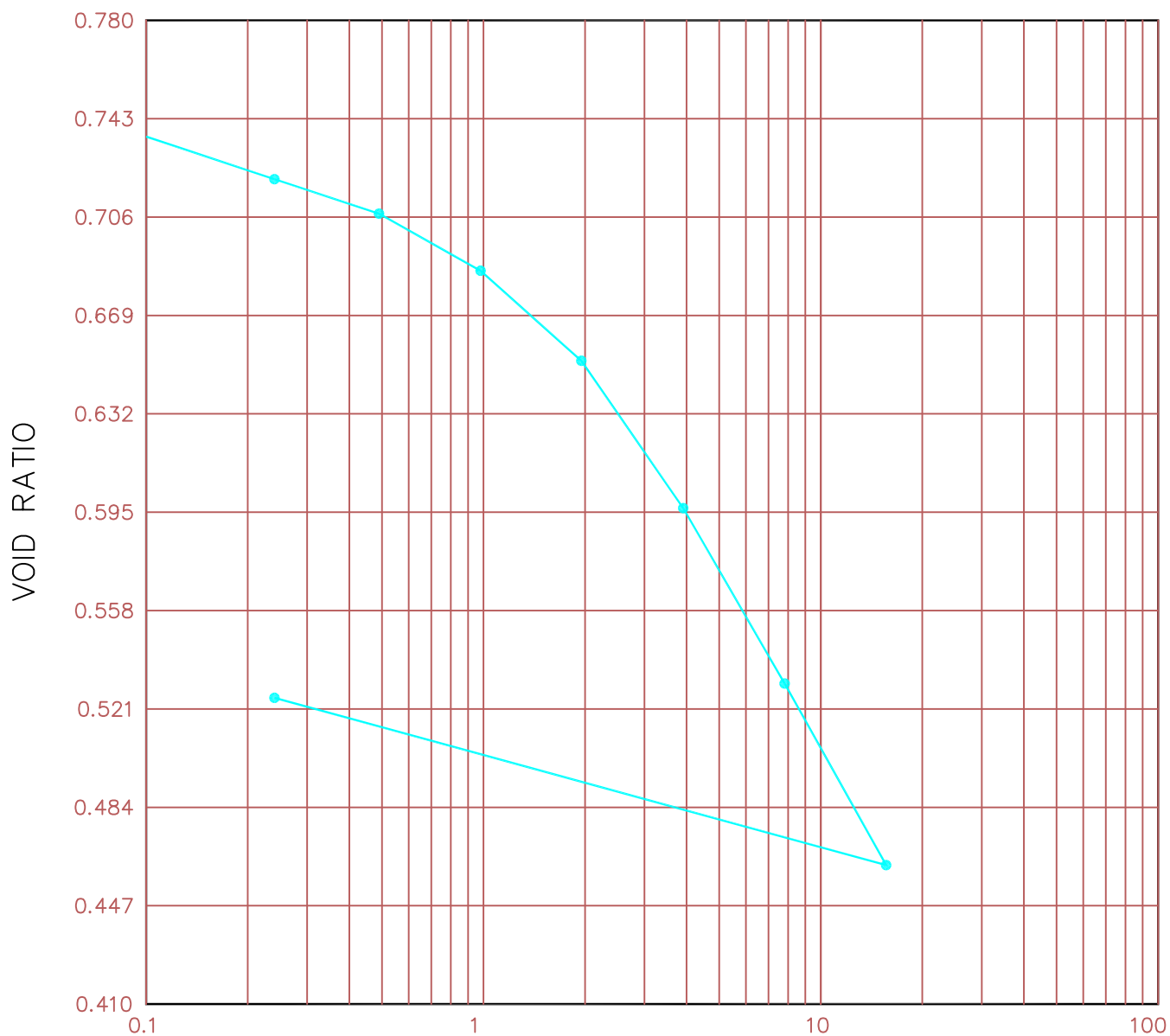
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
43

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-169	U03	9.50-10.00	<CL/ML>	UNDISTURBED	2.70	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
27	1.97	1.55	0.740	Sample was slightly dried

CONSOLIDATION TEST DATA

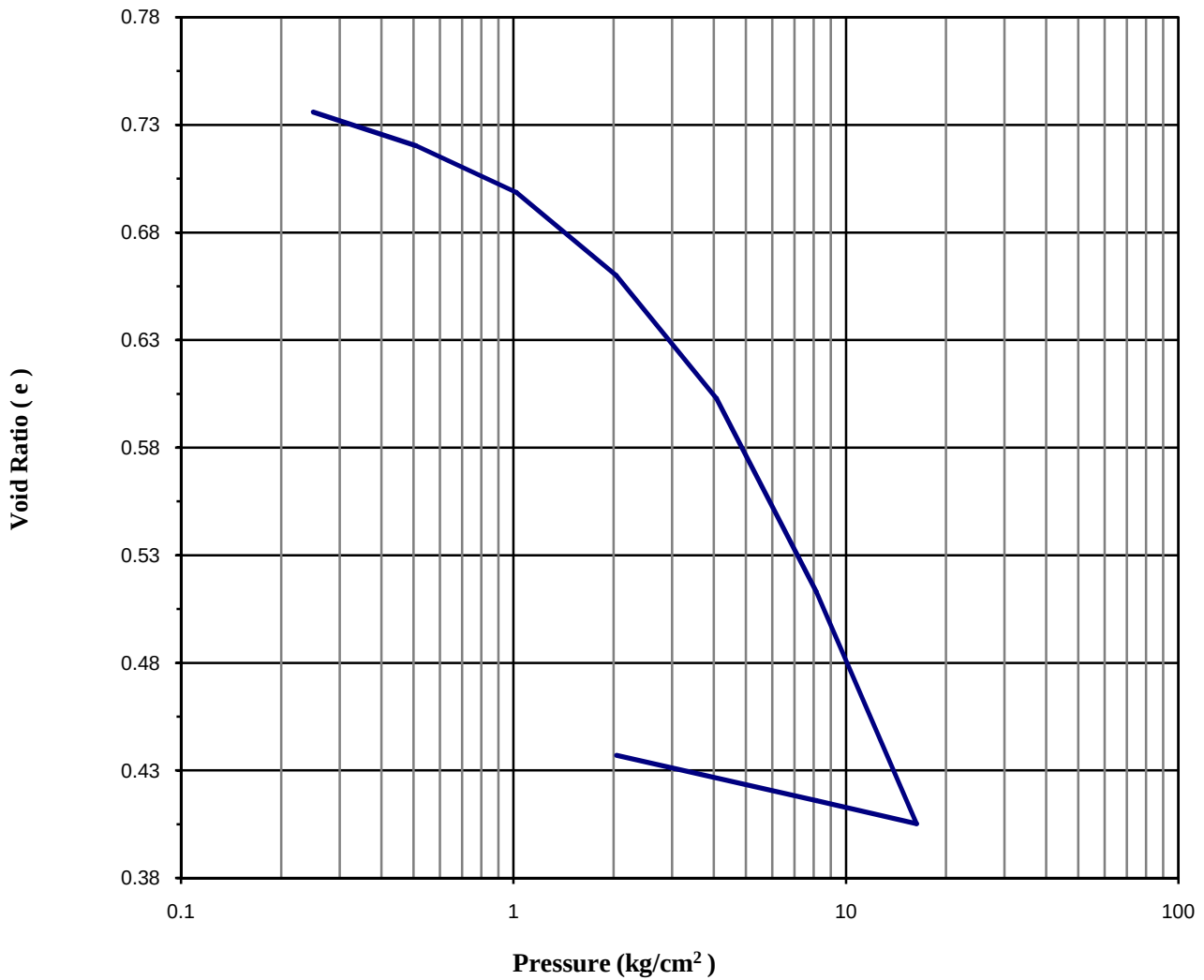


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
44

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-173	Depth (m) : 10.00-10.50	Date : 1394/02/17
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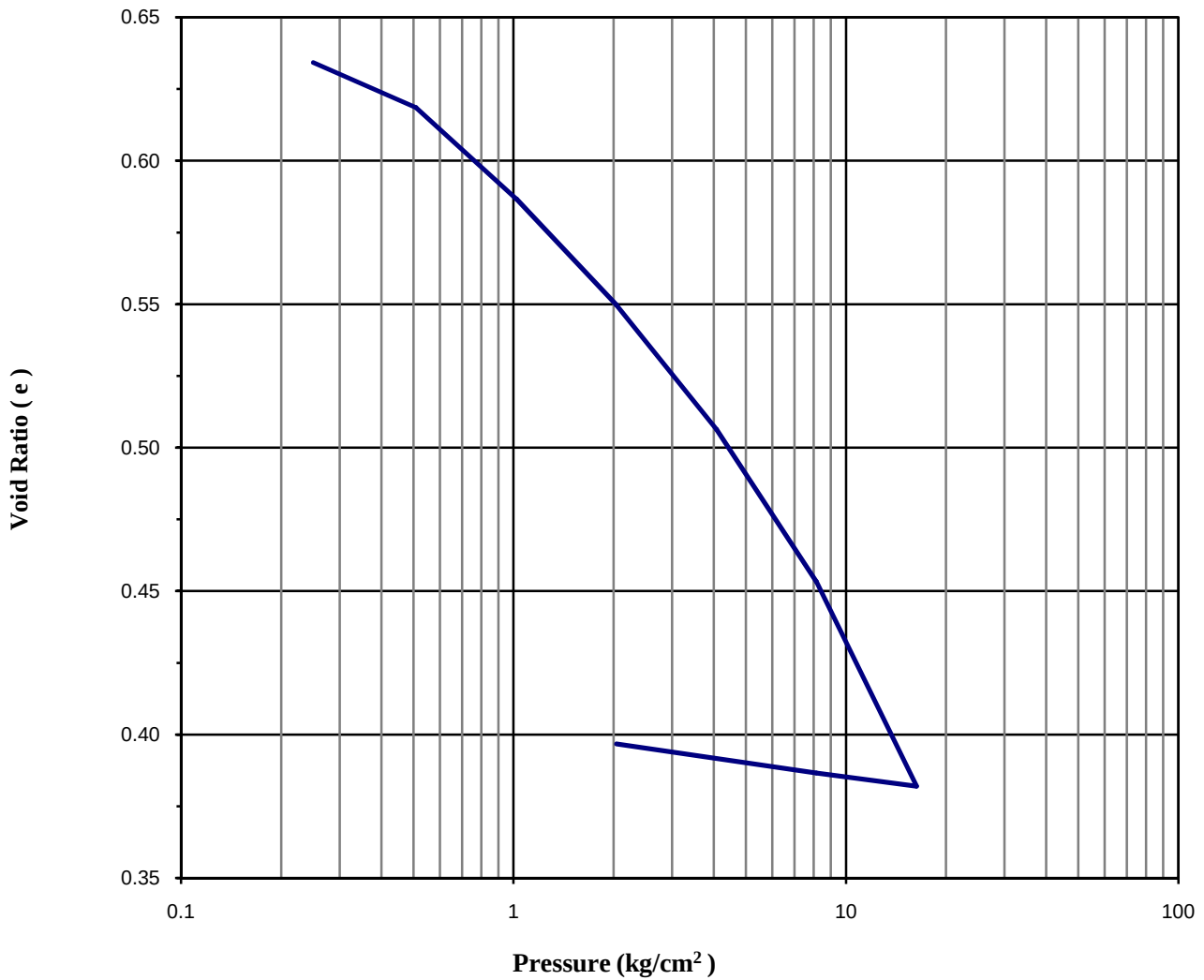
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26.2	1.53	1.93

Gs :	2.74
e ₀ :	0.76

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 45
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-173	Depth (m) : 28.00-28.40	Date : 1394/02/14
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	22	1.65	2.01

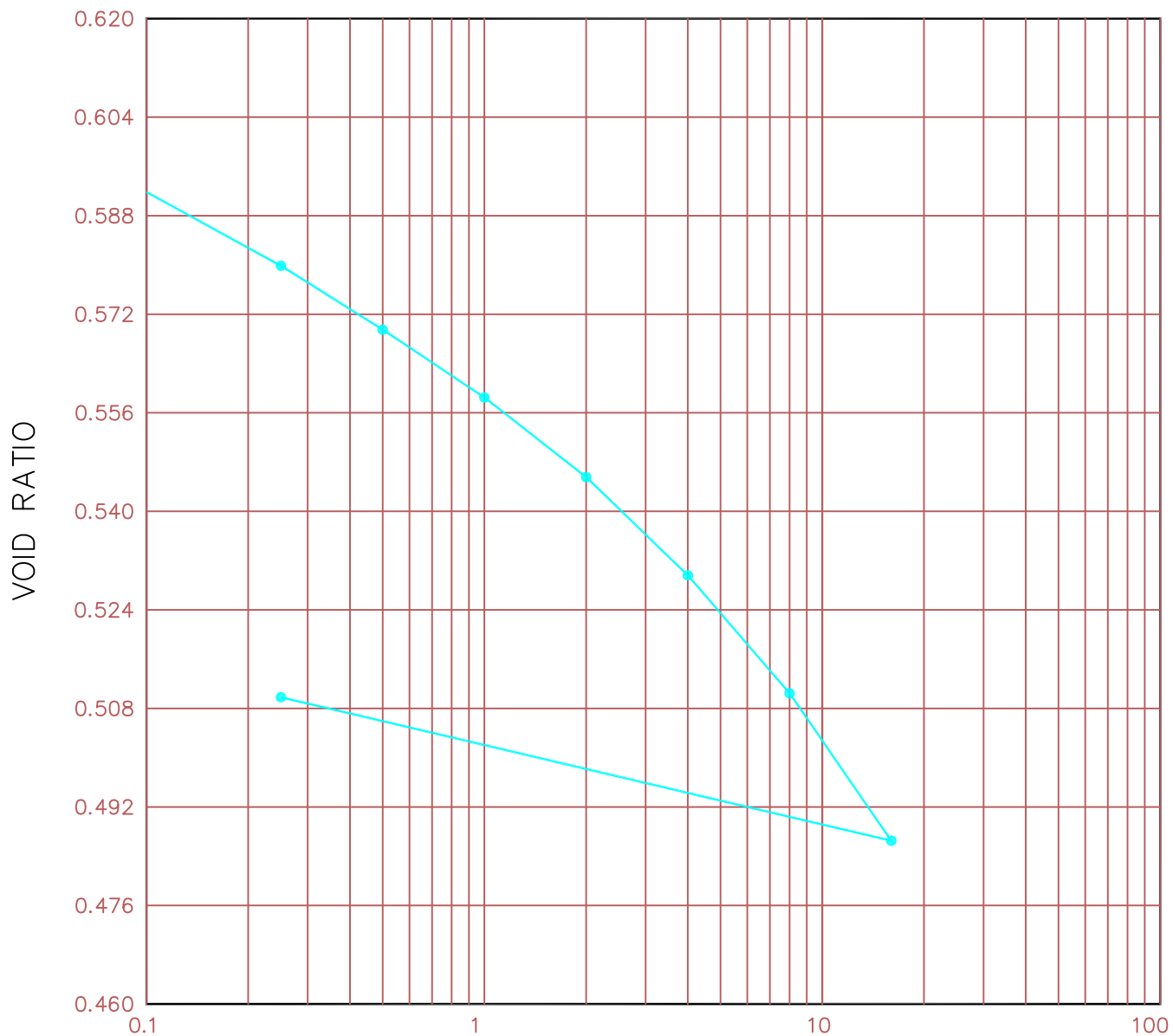
Gs :	2.74
e ₀ :	0.64

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 46
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-185	U01	3.50-4.00	<CL-ML/CL>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
22	2.06	1.69	0.596	

CONSOLIDATION TEST DATA



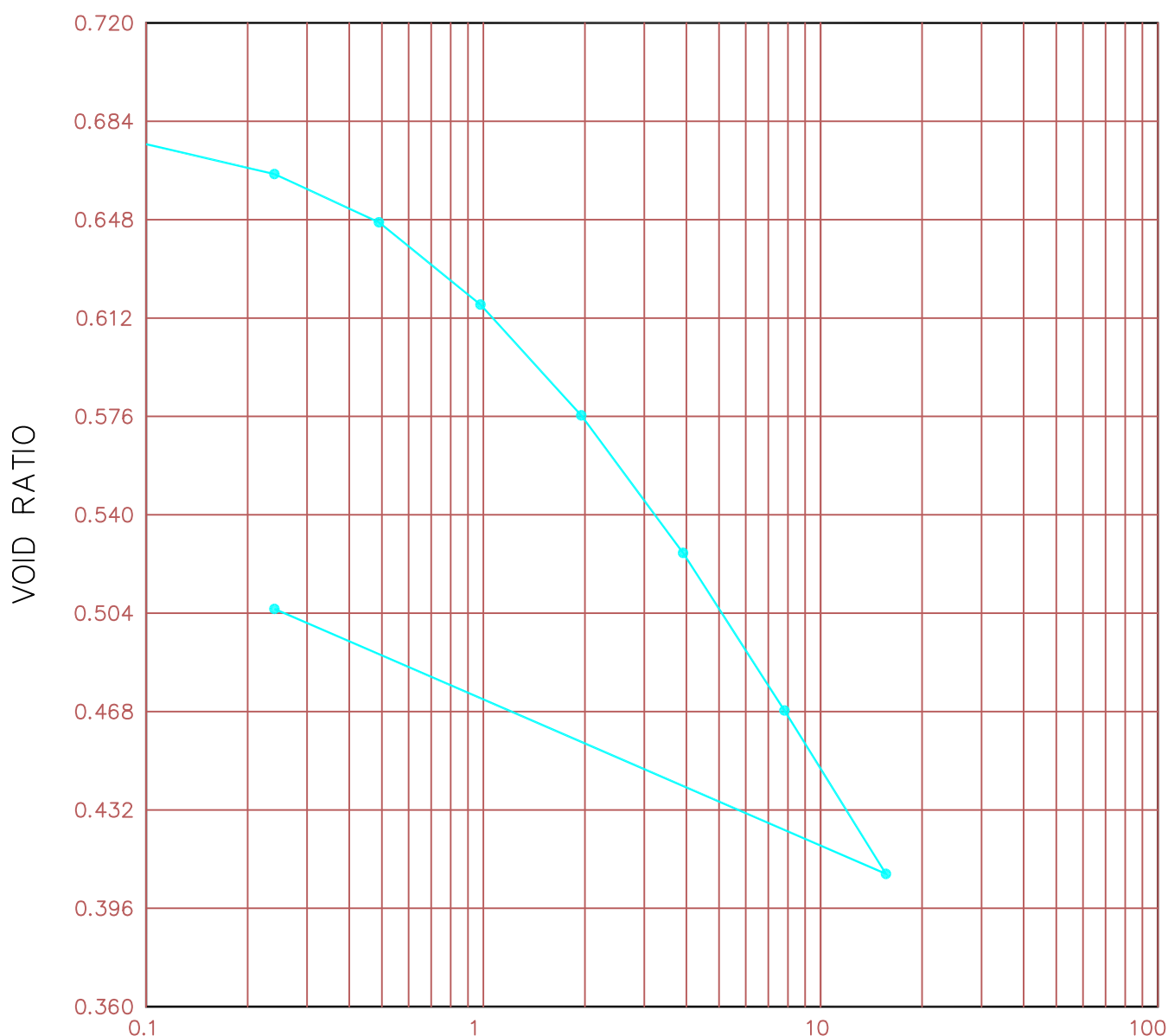
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
47

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-185	U12	25.50-26.00	<CL/ML>	UNDISTURBED	2.70	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.01	1.61	0.678	Sample was slightly dried

CONSOLIDATION TEST DATA



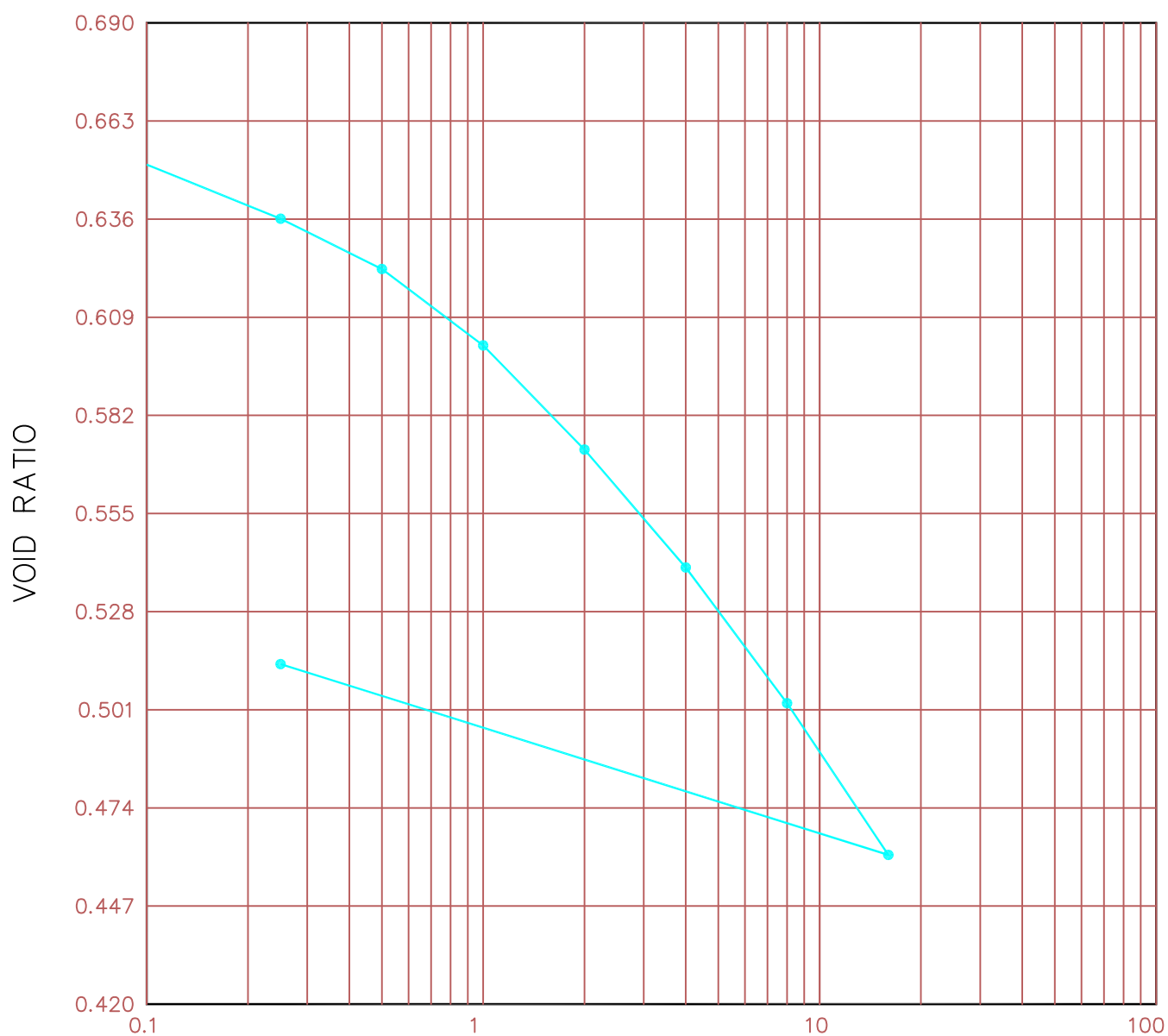
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
48

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-256	U01	7.50-8.30	<CL/ML>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.02	1.63	0.656	

CONSOLIDATION TEST DATA



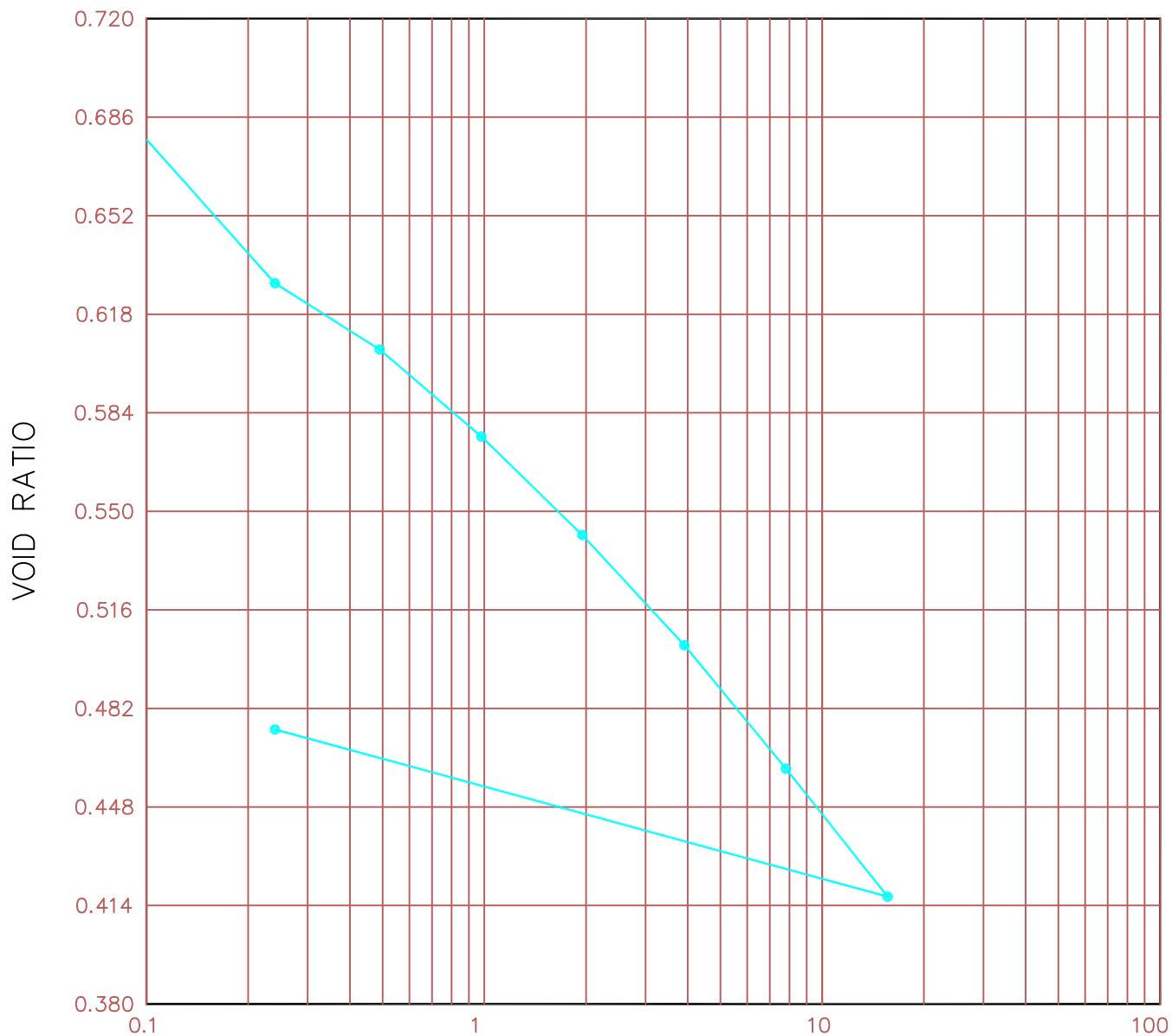
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
49

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-256	U03	12.50-13.00	<CL/ML>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.01	1.60	0.689	

CONSOLIDATION TEST DATA

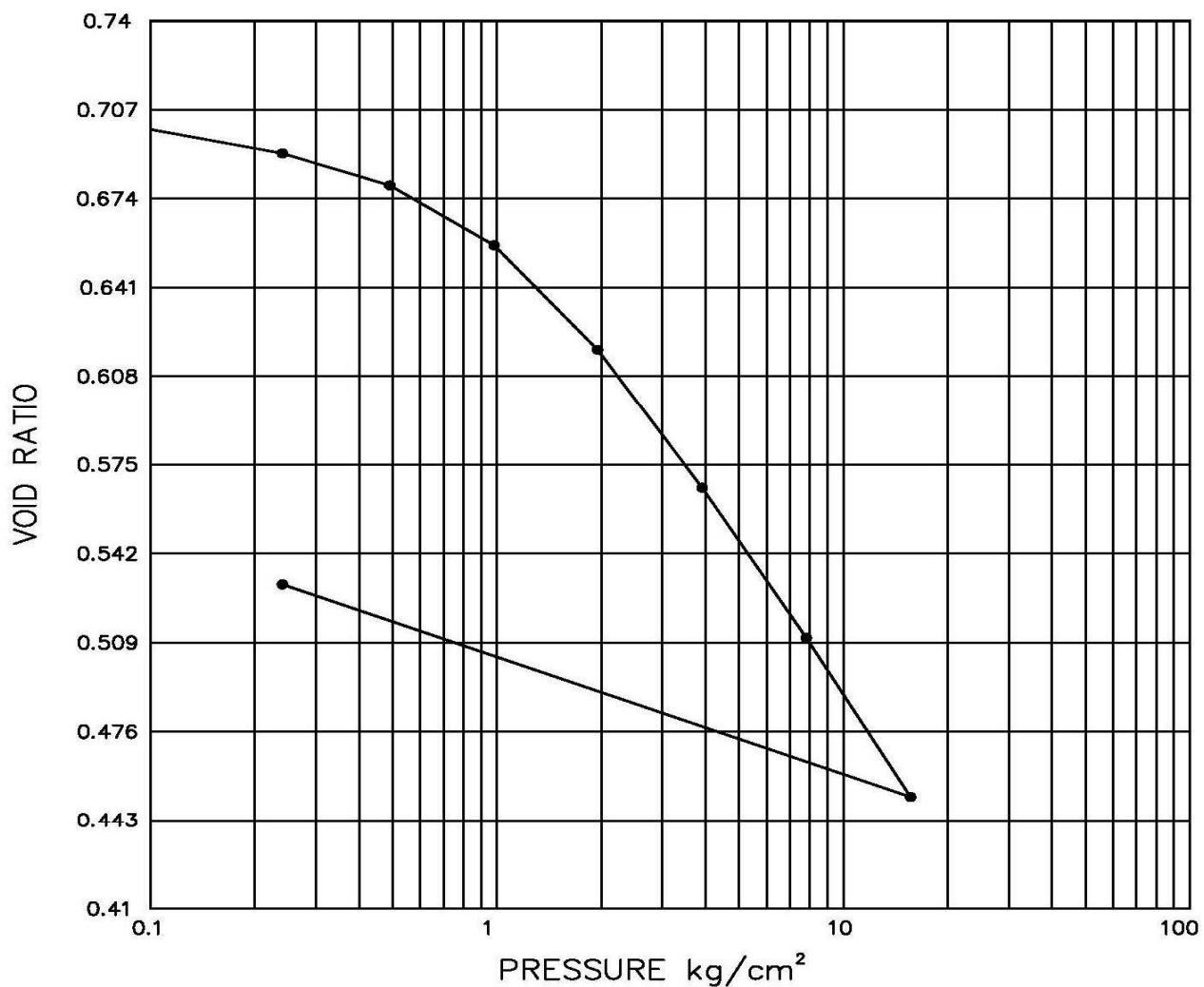


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
50

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-273	Depth (m) : 24.50-25.00	Date : 1394/02/15
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26	1.59	2.00

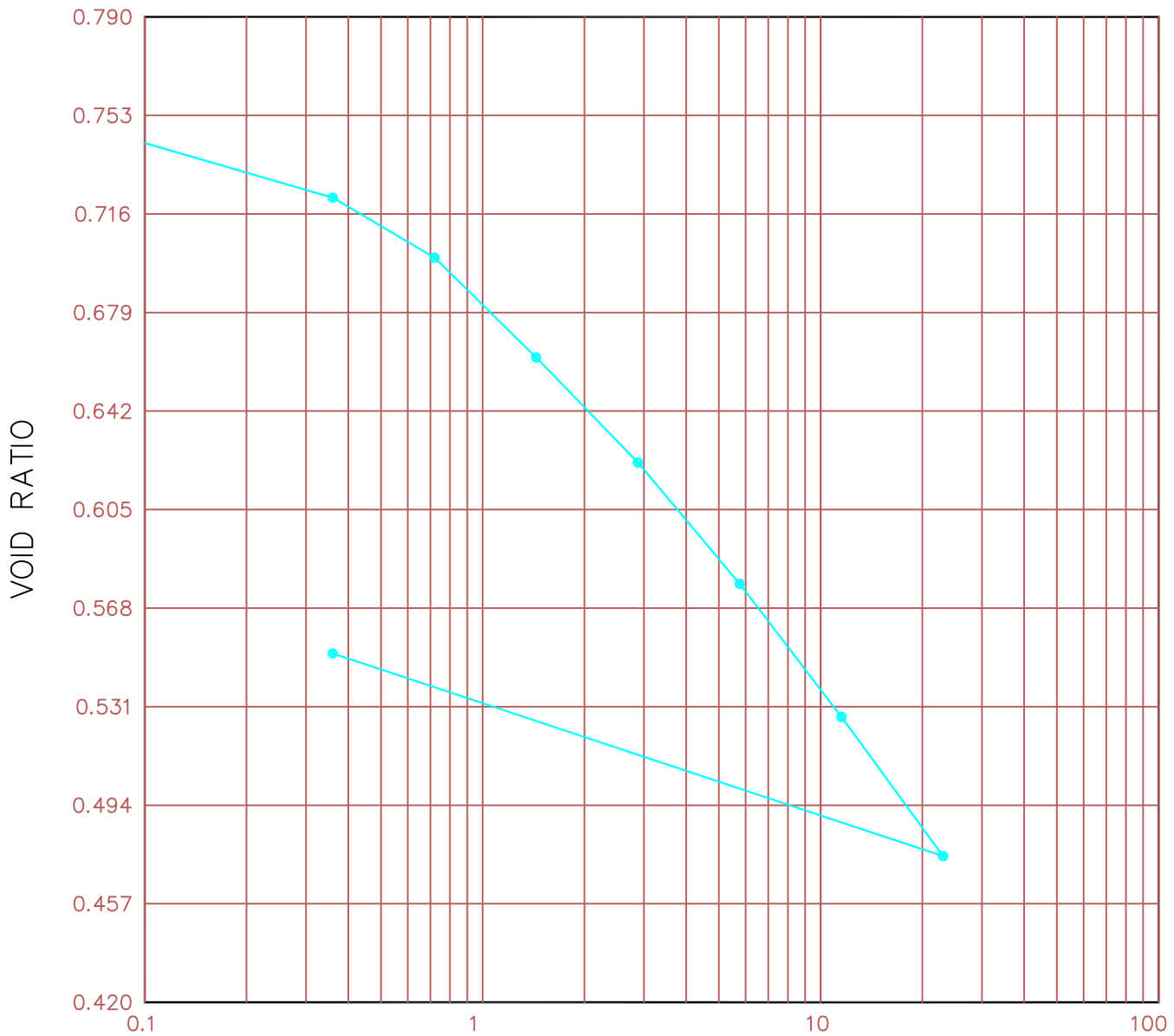
Gs :	2.70
e ₀ :	0.70

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 51
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-286	U04	13.50-14.00	<CL/ML>	UNDISTURBED	2.73	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
27	1.99	1.56	0.745	

CONSOLIDATION TEST DATA



PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

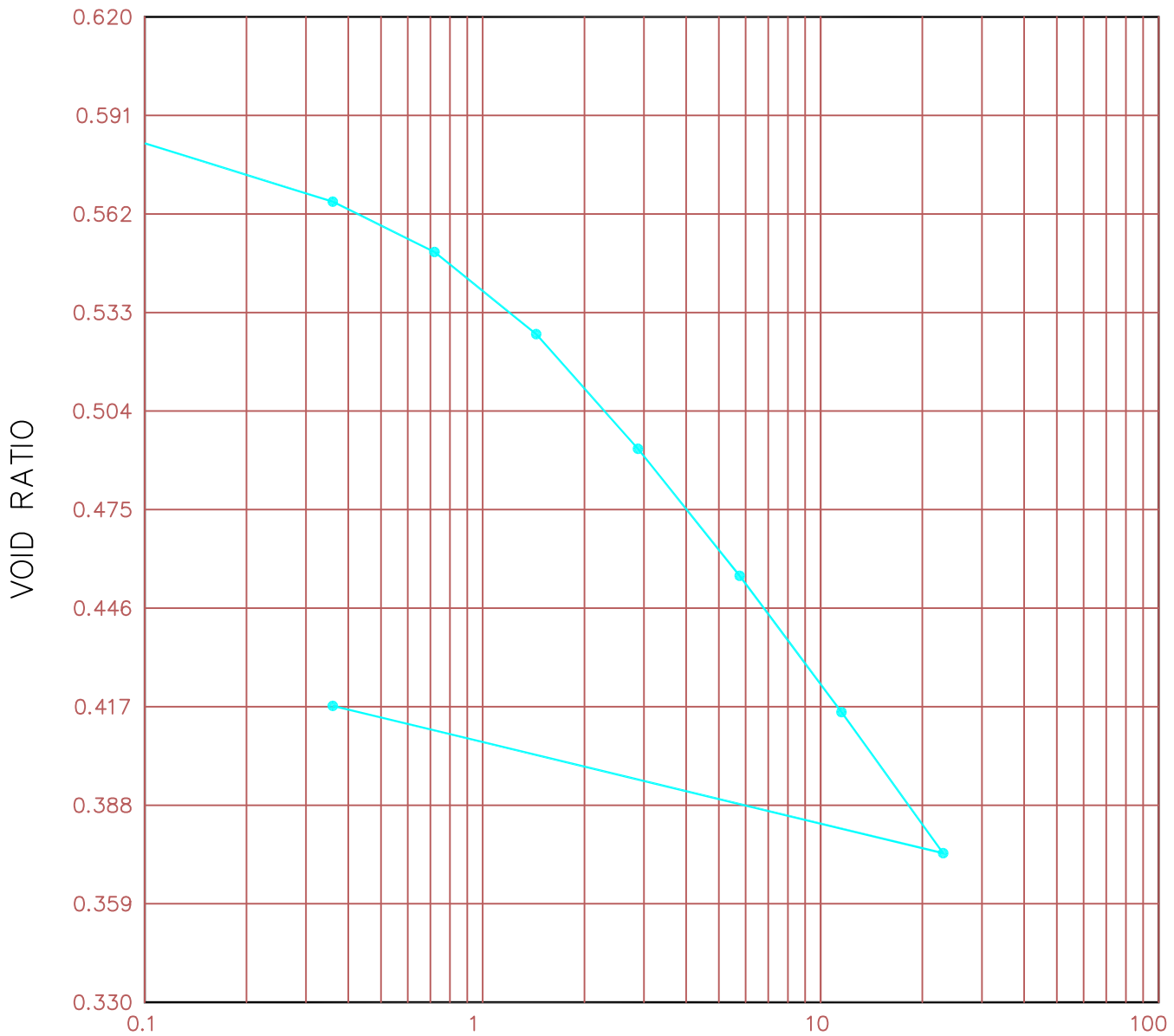
FIGURE No.
52

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

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PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-286	U19	43.50-44.00	<CL/ML>	UNDISTURBED	2.70	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
22	2.07	1.70	0.585	Sample was slightly dried

CONSOLIDATION TEST DATA

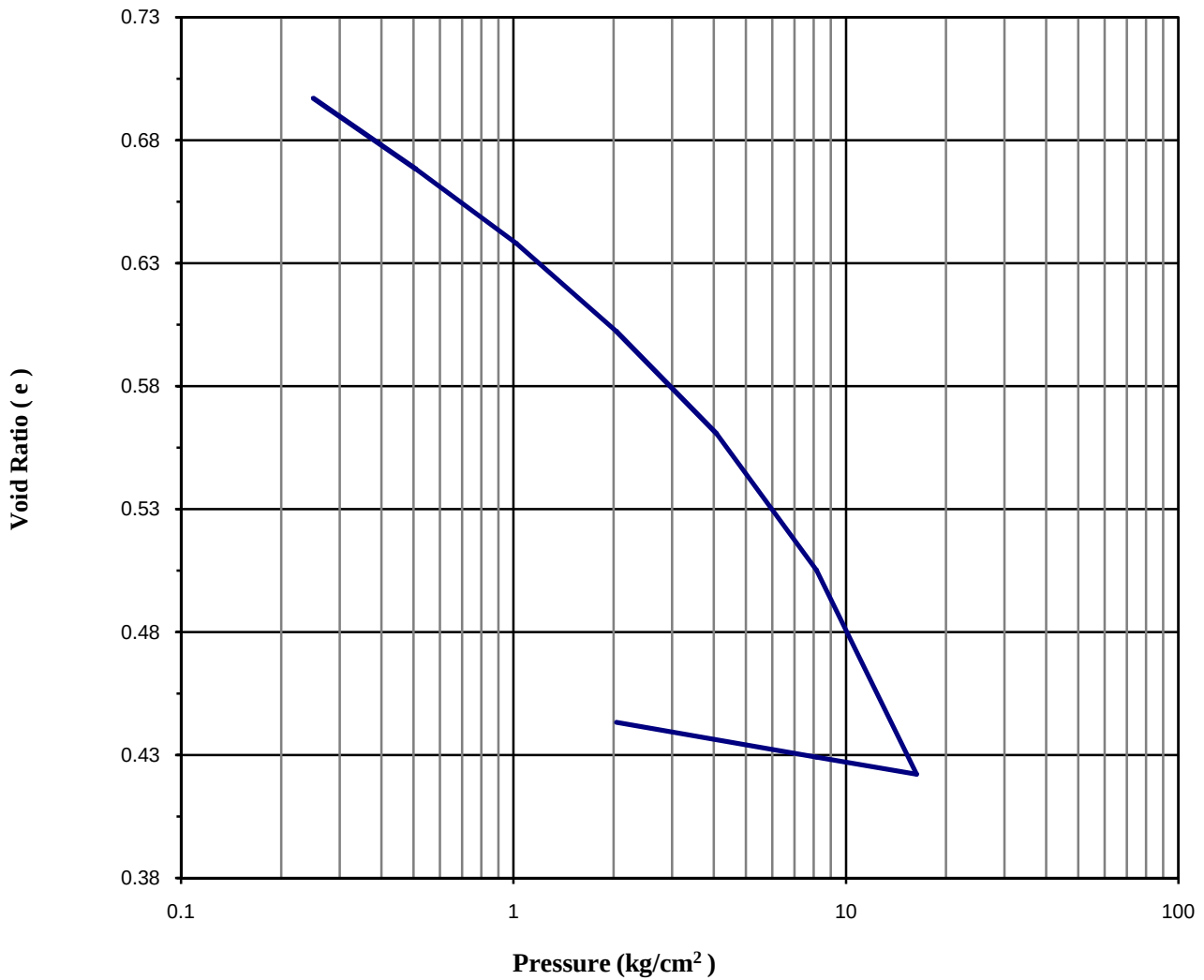


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
53

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-288	Depth (m) : 4.00-4.50	Date : 1394/02/16
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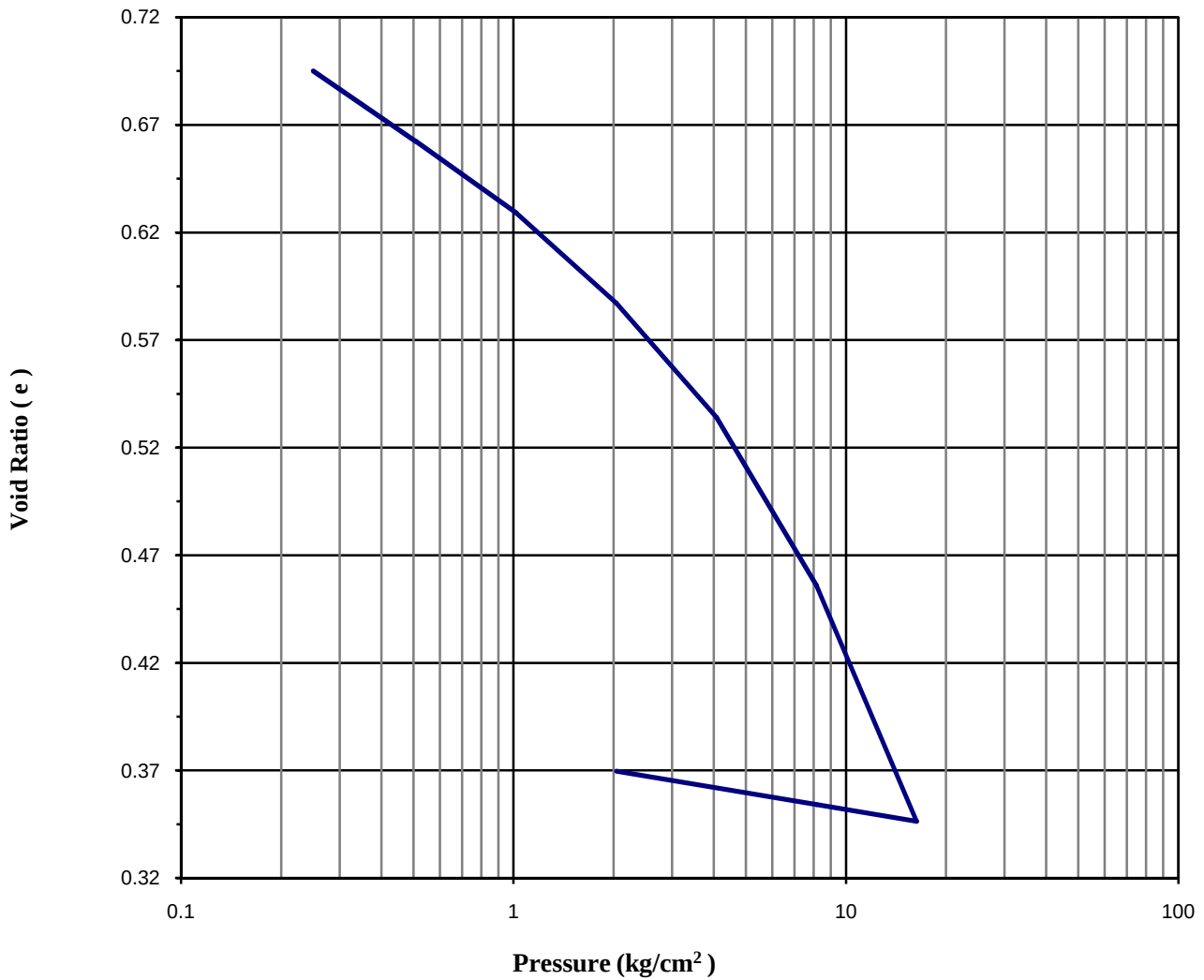
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	23	1.55	1.91

Gs :	2.69
e ₀ :	0.72

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 54
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-288	Depth (m) : 14.00-14.50	Date : 1394/02/15
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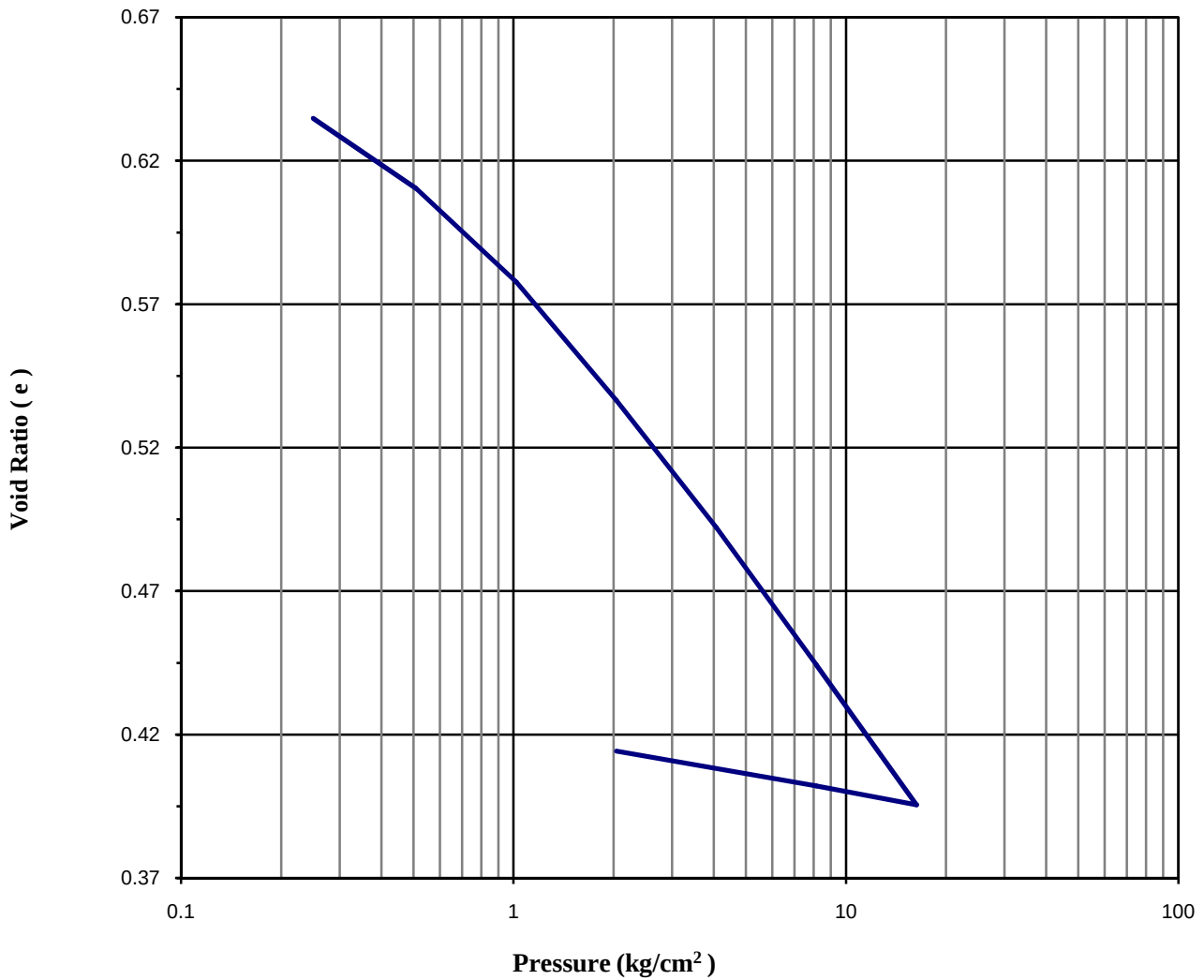
INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26.1	1.56	1.97

Gs :	2.73
e ₀ :	0.73

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 55
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS



Borehole: BH-288	Depth (m) : 26.00-26.50	Date : 1394/02/16
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm^3	INITIAL WET DENSITY g/cm^3
99	Undisturbed	23.8	1.61	1.99

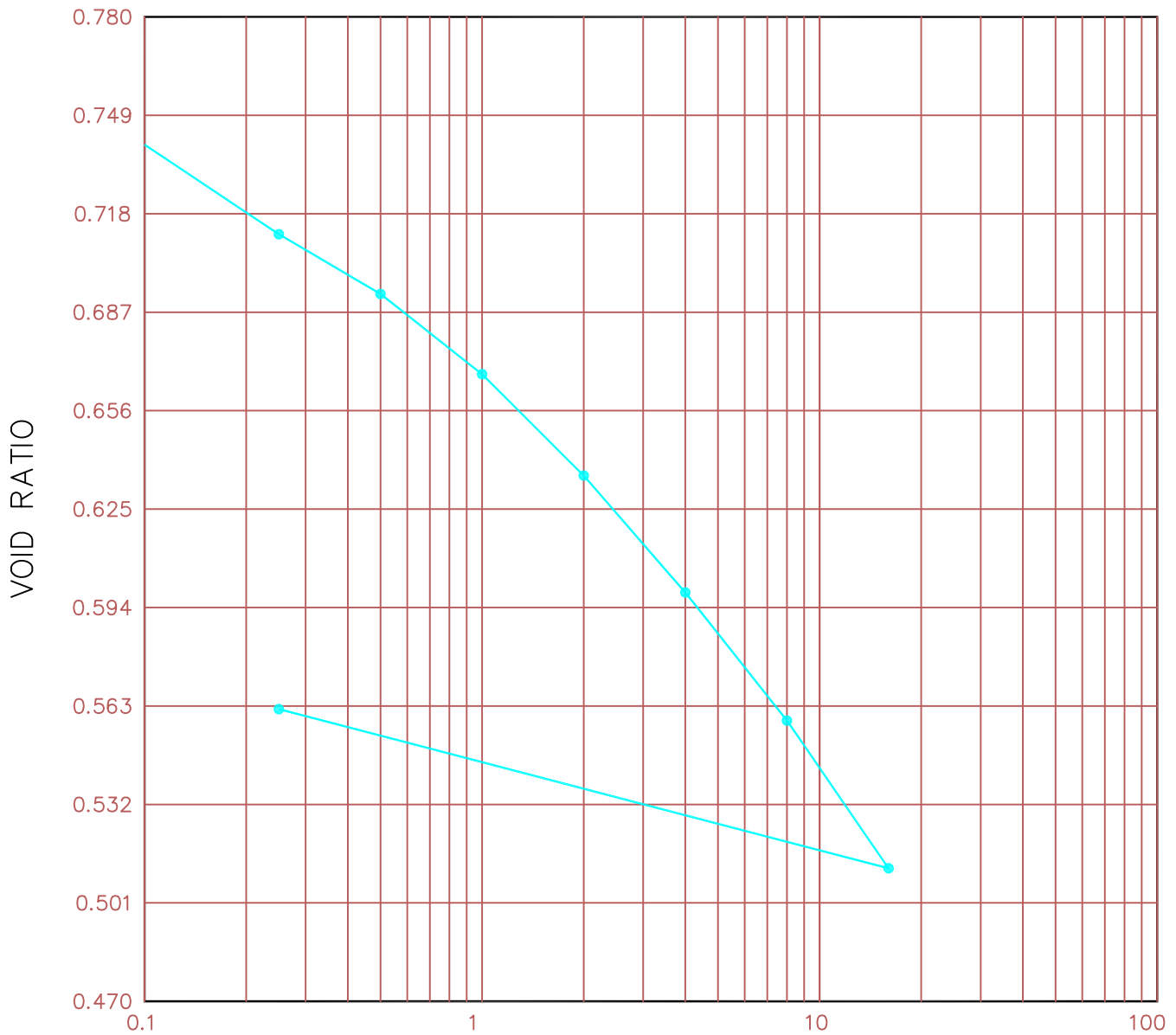
Gs :	2.68
e_0 :	0.65

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 56
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-317	U01	7.50-8.05	<CL/ML>	UNDISTURBED	2.73	100

INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
27	1.99	1.56	0.749	

CONSOLIDATION TEST DATA



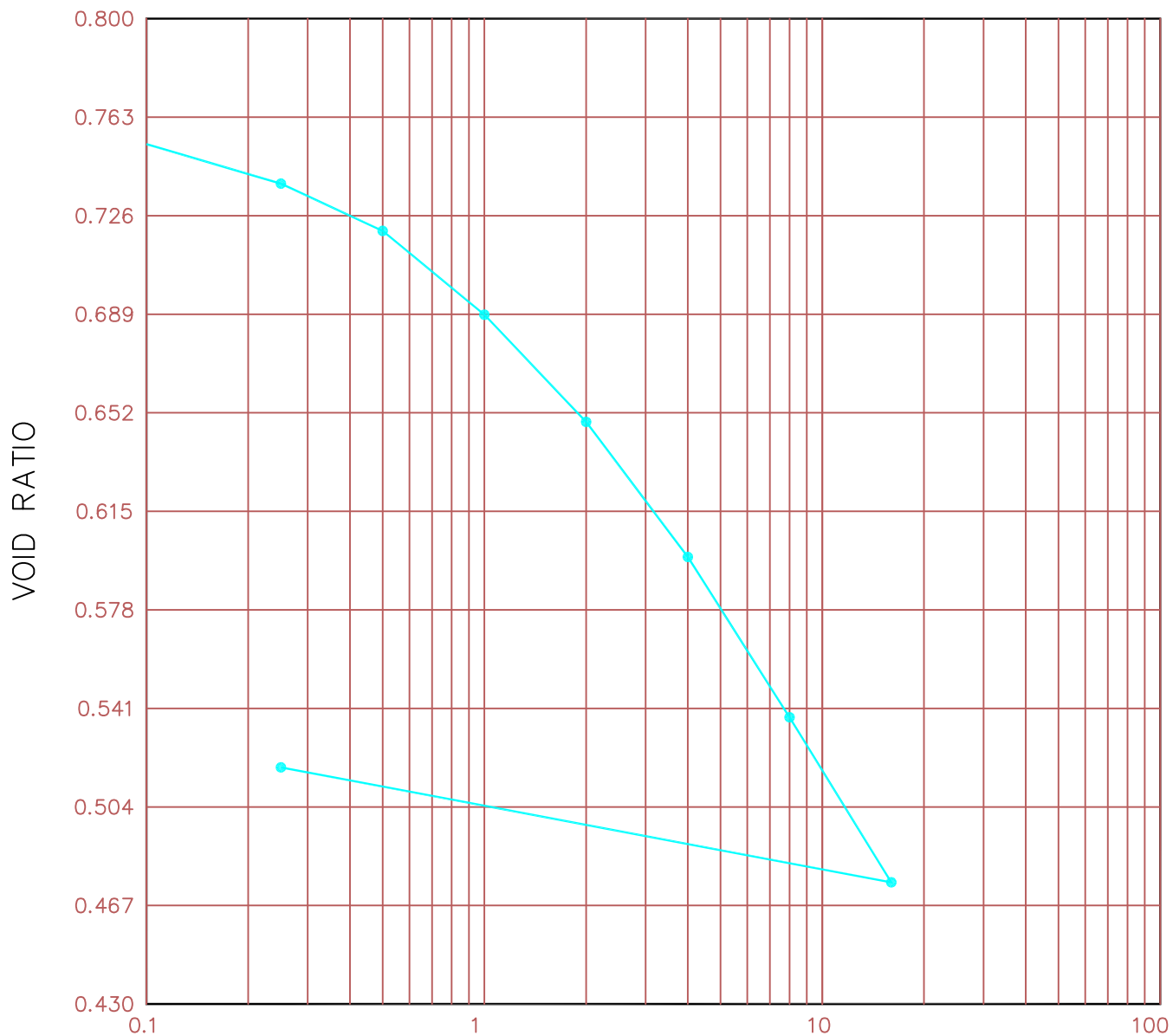
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
57

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-317	U06	20.00-20.45	<CL>	UNDISTURBED	2.70	96

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
27	1.95	1.54	0.758	Sample was slightly dried

CONSOLIDATION TEST DATA



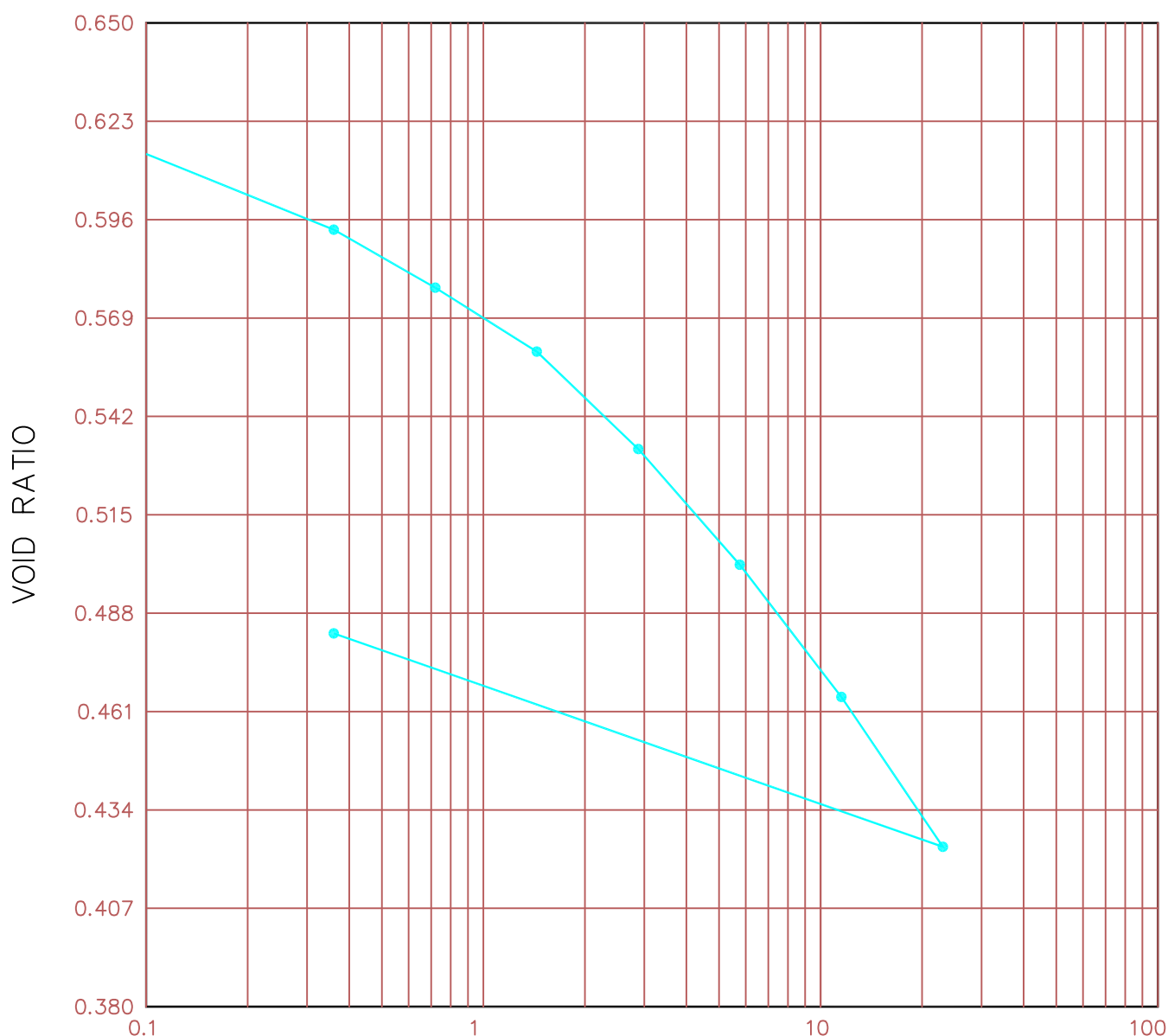
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
58

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-320	U01	4.50-4.95	<ML/CL>	UNDISTURBED	2.72	99

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
22	2.06	1.68	0.616	Sample was slightly dried

CONSOLIDATION TEST DATA



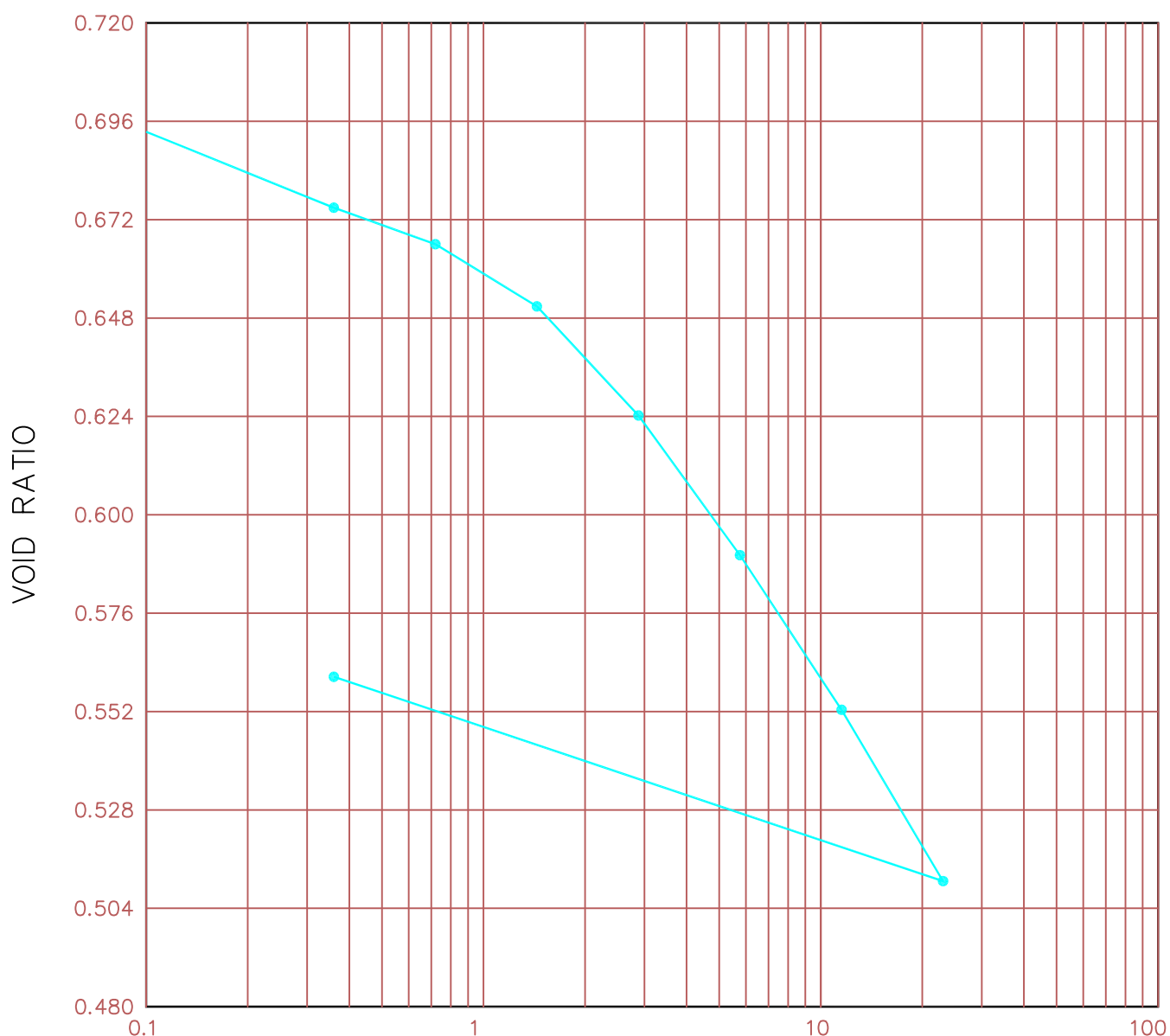
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
59

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-329	U01	4.00-4.50	<ML>	UNDISTURBED	2.70	90

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
23	1.96	1.59	0.695	

CONSOLIDATION TEST DATA



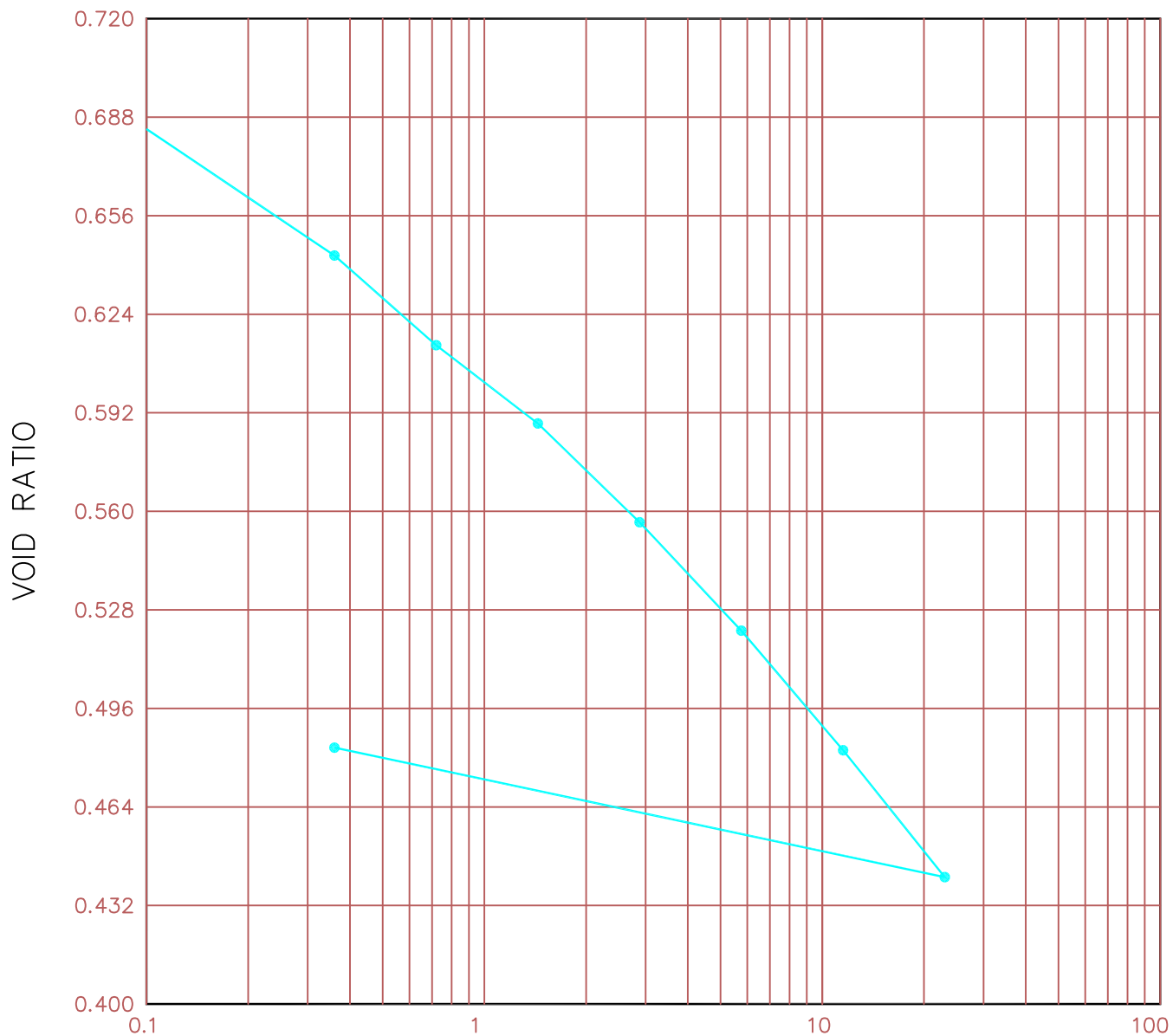
PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
60

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-329	U15	32.00-32.50	<CL/ML>	UNDISTURBED	2.70	100

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
25	2.01	1.60	0.689	

CONSOLIDATION TEST DATA

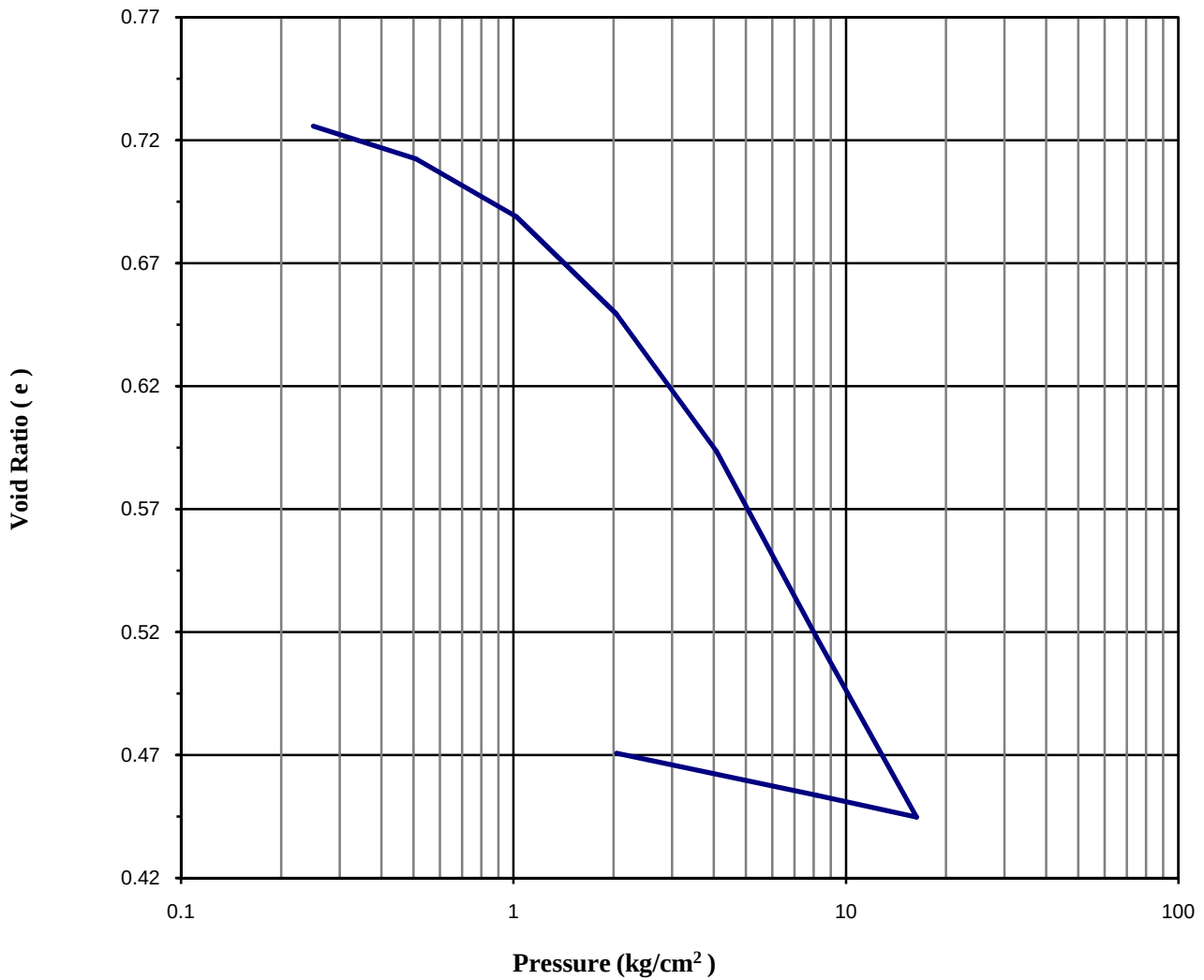


PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
61

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347



Borehole: BH-337	Depth (m) : 6.00-6.50	Date : 1394/02/15
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INITIAL DEGREE OF SATURATION PERCENT	SAMPLE CONDITION	INITIAL MOIST CONTENT IN PRECENT OF DRY WEIGHT	INITIAL DRY DENSITY g/cm ³	INITIAL WET DENSITY g/cm ³
99	Undisturbed	26.7	1.55	1.96

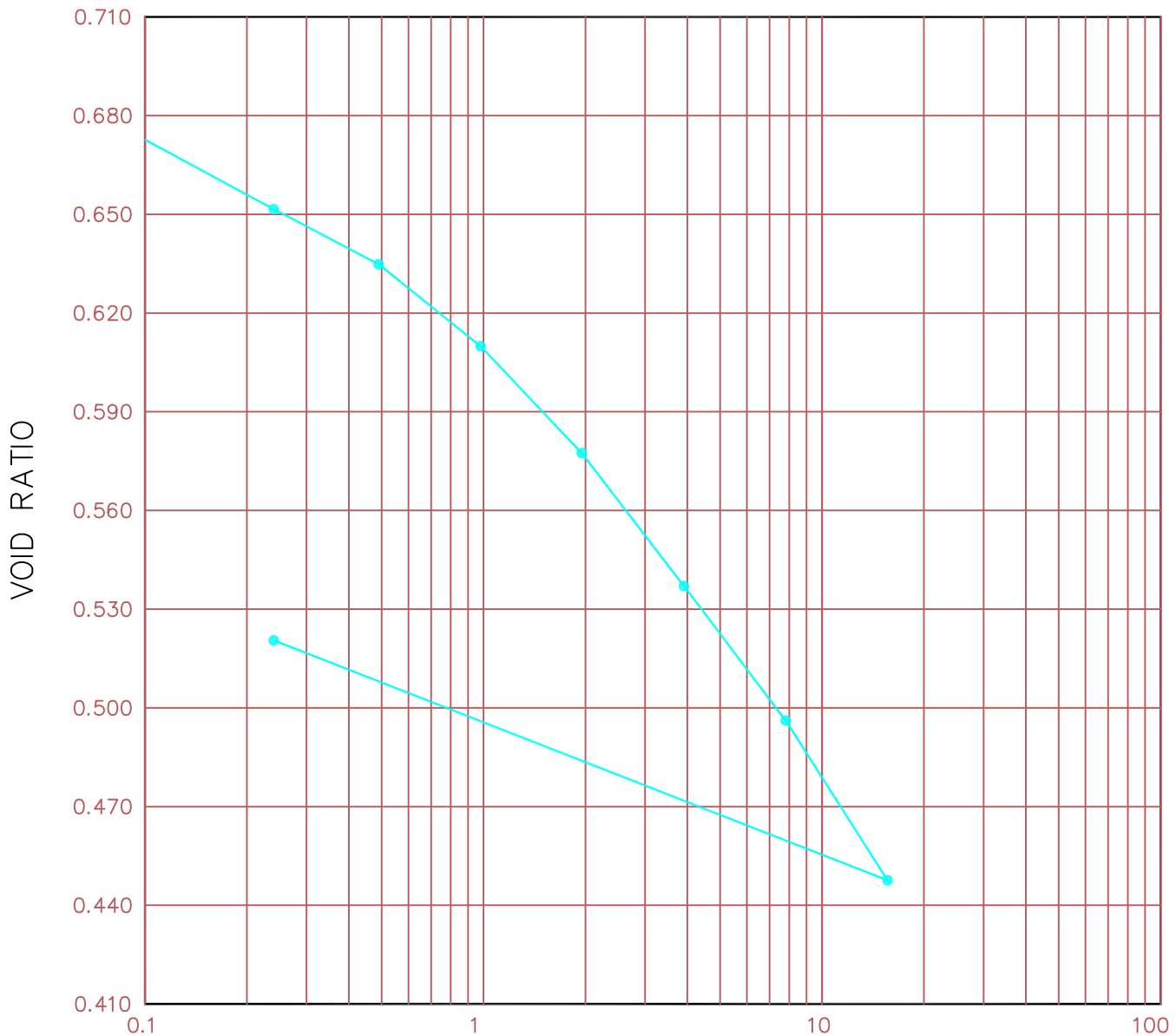
Gs :	2.72
e ₀ :	0.73

CONSOLIDATION TEST DATA

 Soils Engineering Services	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 62
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PRESSURE kg/cm^2



BORING NO.	SAMPLE NO.	DEPTH (m)	SOIL TYPE	SAMPLE CONDITION	SPECIFIC GRAVITY	INITIAL DEGREE OF SATURATION PERCENT
BH-354	U07	19.50-20.00	<CL>	UNDISTURBED	2.70	97

INITIAL MOIST CONTENT IN PERCENT OF DRY WEIGHT	INITIAL WET DENSITY t/m^3	INITIAL DRY DENSITY t/m^3	e_o	REMARKS:
24	2.00	1.61	0.677	Sample was slightly dried

CONSOLIDATION TEST DATA



PROJECT : SOUTH ALUMINUM SMELTER PLANT
CLIENT : NFC

FIGURE No.
63

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

PROJ No.:1347

Borehole:	Depth (m)	INITIAL DEGREE OF SATURATION PERCENT
BH-002	16.0-16.5	99
BH-008	8.00-8.50	99
BH-008	14.00-14.50	99
BH-021	6.50-7.00	93
BH-021	24.00-24.50	99
BH-025	3.00-3.50	99
BH-027	4.00-4.50	99
BH-035	19.50-20.00	96
BH-044	4.50-5.00	99
BH-044	7.00-7.50	99
BH-044	17.00-17.50	99
BH-048	7.50-7.90	99
BH-048	17.50-17.95	99
BH-048	25.00-25.45	96
BH-048	40.00-40.25	98
BH-048	45.00-45.25	98
BH-049	23.00-23.50	99
BH-059	3.50-4.00	99
BH-069	14.00-14.50	97
BH-073	33.00-33.30	100
BH-107	4.00-4.50	99
BH-109	7.00-7.40	86
BH-109	9.00-9.40	89
BH-111	12.50-12.95	100
BH-112	10.00-10.55	99
BH-112	15.00-15.60	96
BH-112	27.50-27.80	96
BH-114	5.00-5.50	99
BH-119	3.50-4.00	99
BH-119	6.00-6.50	99
BH-119	21.00-21.50	99
BH-119	26.00-26.5	99
BH-133	7.00-7.50	99

Borehole:	Depth (m)	INITIAL DEGREE OF SATURATION PERCENT
BH-133	19.00-19.5	99
BH-139	10.00-10.50	99
BH-139	22.00-22.50	99
BH-139	26.00-26.50	99
BH-139	48.00-48.50	99
BH-161	8.00-8.25	100
BH-161	18.00-18.20	98
BH-161	28.00-28.55	98
BH-161	38.00-38.50	100
BH-164	5.50-6.00	98
BH-169	9.50-10.00	99
BH-173	10.00-10.50	99
BH-173	28.00-28.40	99
BH-185	3.50-4.00	100
BH-185	25.50-26.00	99
BH-256	7.50-8.30	100
BH-256	12.50-13.00	100
BH-273	24.50-25.00	99
BH-286	13.50-14.00	100
BH-286	43.50-44.00	99
BH-288	4.00-4.50	99
BH-288	14.00-14.50	99
BH-288	26.00-26.50	99
BH-317	7.50-8.05	100
BH-317	20.00-20.45	96
BH-320	4.50-4.95	99
BH-329	4.00-4.50	90
BH-329	32.00-32.50	100
BH-337	6.00-6.50	99
BH-354	19.50-20.00	97

TITLE : INITIAL DEGREE OF SATURATION PERCENT FROM CONSOLIDATION TEST DATA

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 64
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS