

JIS A 1204

Method of Grain - Size Analysis of Soils

Report Form

Job Site **PORT IRENE**

Date **6-23-81**

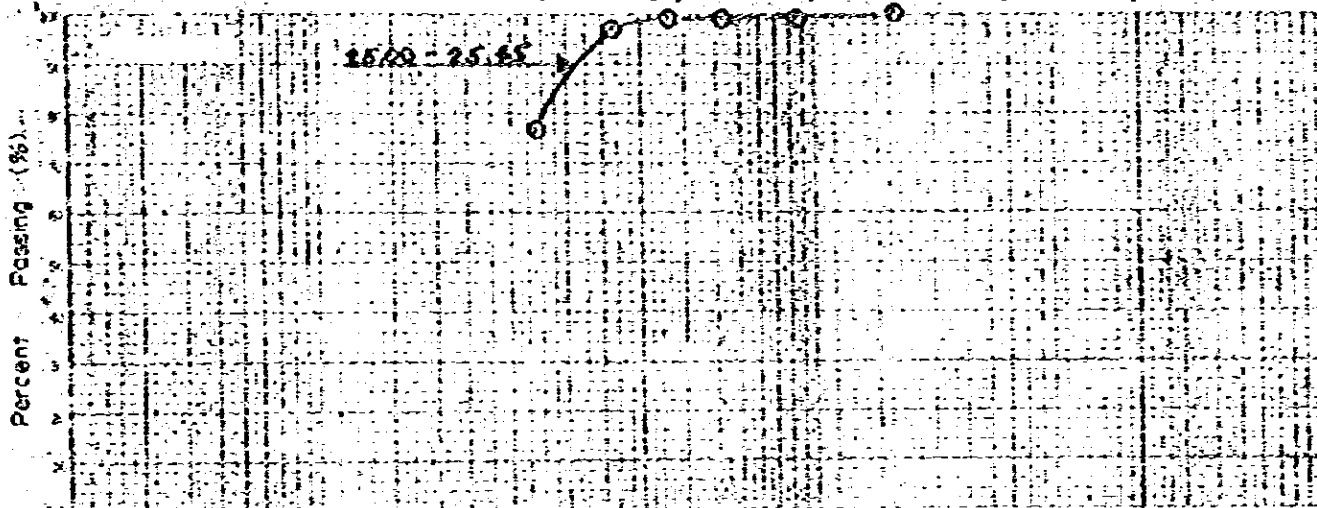
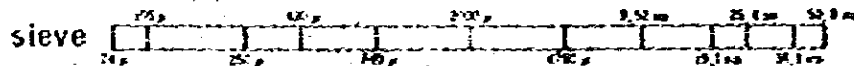
Sample No., Depth: No. **BH-3 (25.0m-25.45m)**

Technician **N. Prado**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-3 (25.0m ~ 25.45)												Gs
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %							100	99.7	99.5	99.3	97.6	76.8	
Grain size mm													
Weight percent %													

Sample No., Depth	( m ~ m )												Gs
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %													
Grain size mm													
Weight percent %													



grain size (mm)

clay	silt	sand	gravel
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Sample No., Depth	No. BH-3 25.0 - 25.45		Sample No., Depth		No. BH-3 25.0 - 25.45	
Grains in 4.76mm and larger	0	%	Max. grain size	2.00	mm	mm
Grains in 4.75 - 2mm	0	%	60 % (grain size)		mm	mm
Grains in 2 - 0.42mm	0.5	%	30 % (grain size)		mm	mm
Grains in 0.42 - 0.074mm	22.9	%	10 % (grain size)		mm	mm
Silt in 0.074 - 0.006mm	76.6	%	Coefficient of uniformity			
Clays less than 0.006mm	0	%	Coefficient of curvature			
Coarse less than 0.001mm	0	%				
Percent by weight passing through 200µ sieve	100	%				
Percent by weight passing through 420µ sieve	99.5	%				
Percent by weight passing through 75µ sieve	76.6	%				



Job, Site

PORT IRENE

Date

6-23-81

Technician

N. Prado

Sample No., Depth		No. BH-3 (9.0m ~ 9.4m)		
Liquid Limit Test			Plastic Limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %
1	10	42.8	1	19.2
2	15	42.2	2	20.0
3	21	41.1	3	
4	35	38.4		
5	50	38.8		
6			Average	
Liquid limit %		Plastic limit %		Plasticity Index I <sub>p</sub>
40.6	%	19.6	%	21.0

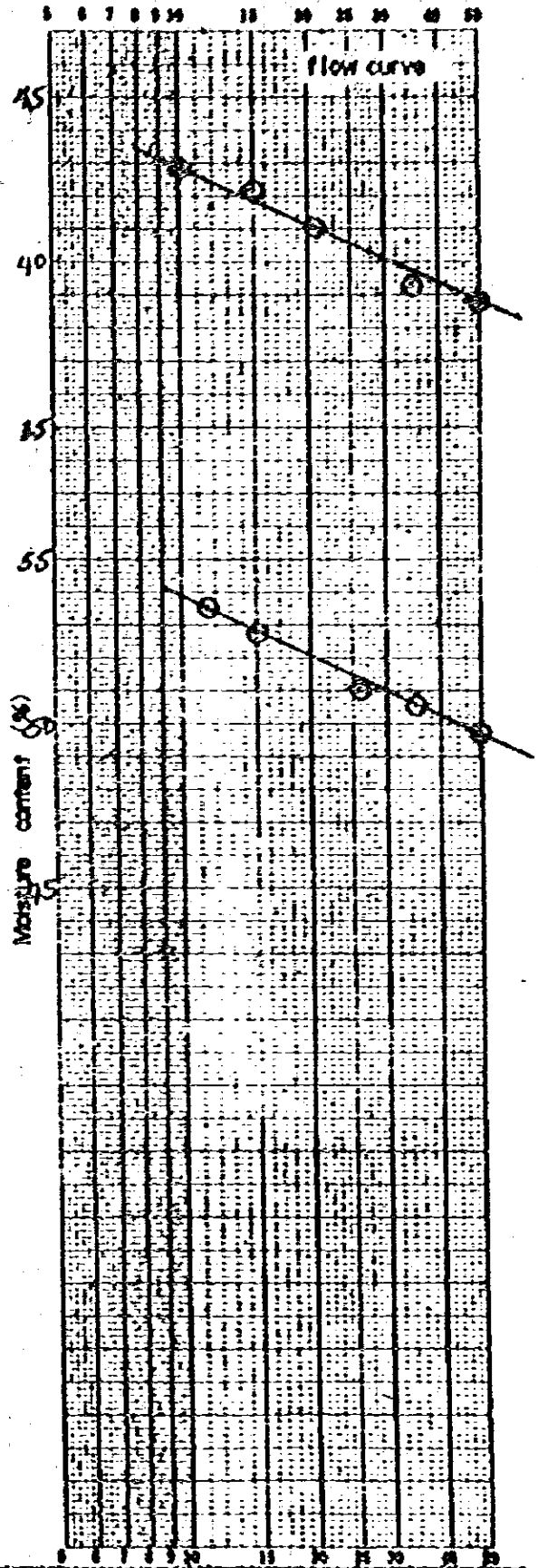
Remarks: describe preparation method of the sample and etc.

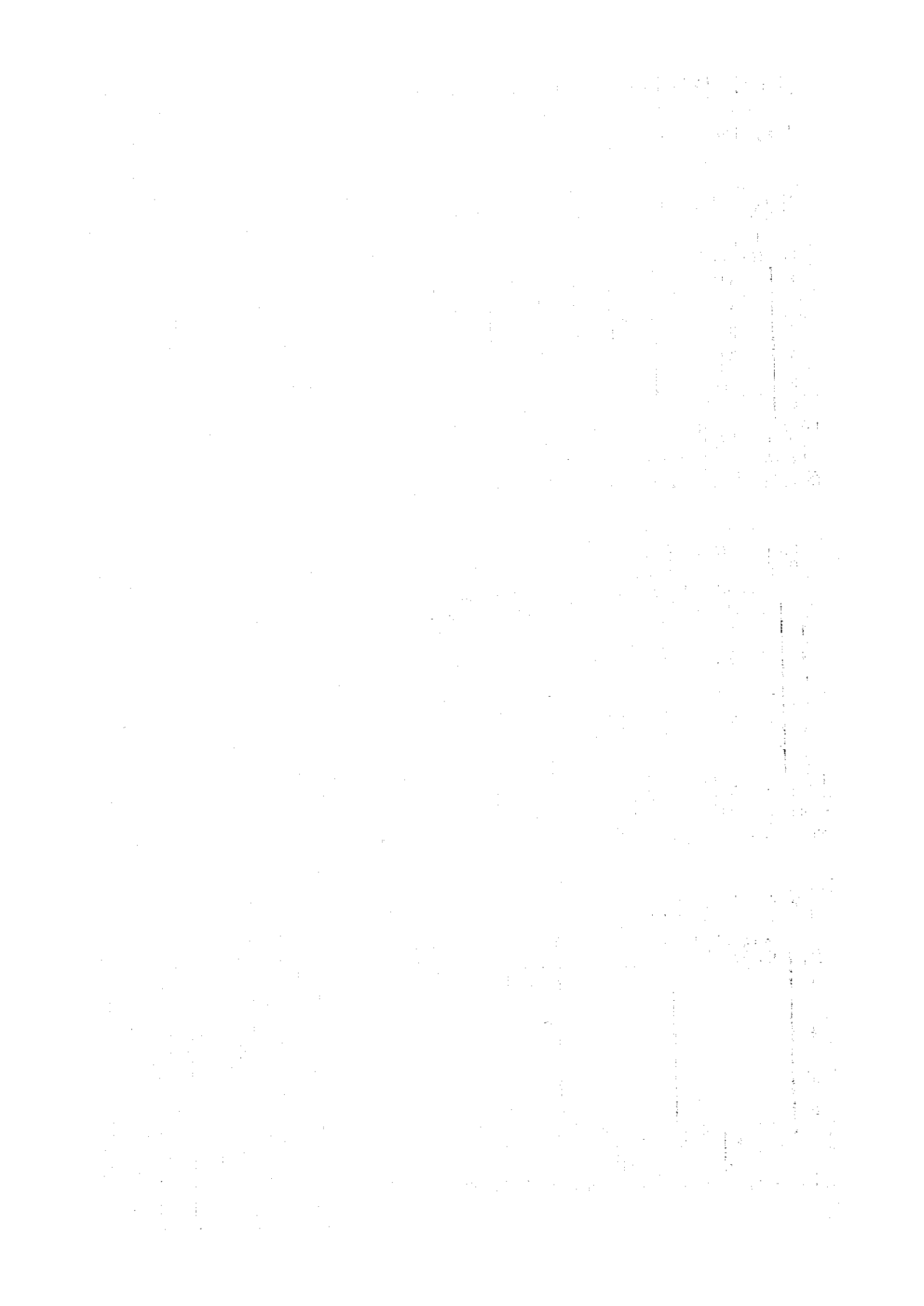
Sample No., Depth		No. BH-3 (12.0 ~ 12.45)		
Liquid Limit Test			Plastic Limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %
1	13	53.5	1	23.0
2	15	52.8	2	22.6
3	26	51.1	3	
4	35	50.6		
5	50	49.9		
6				
Liquid limit %		Plastic limit %		Plasticity Index I <sub>p</sub>
51.5	%	22.8	%	28.7

Remarks: describe preparation method of the sample and etc.

Sample No., Depth		No. ( ~ )		
Liquid Limit Test			Plastic Limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %
1			1	
2			2	
3			3	
4				
5				
6				
Liquid limit %		Plastic limit %		Plasticity Index I <sub>p</sub>
	%		%	

Remarks: describe preparation method of the sample and etc.





JIS A 1202

Determination of the Specific Gravity of Soil

Reporting paper

Job, Site

PORT IRENE

Date

6-19-81

Technician

N. Prado

Sample No, Depth		No. BH-3 (5.0m-5.1m)			No. BH-3 (9.0m-9.1m)		
Test	No.	1	2	3	1	2	3
Pycnometer	No	36	56	85	47	64	48
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	161.23	152.29	159.86	154.50	152.10	157.35
Temperature of content when Wb is made		8 °C	8 °C	8 °C	8 °C	8 °C	8 °C
W. of oven dried soil in pycnometer.	container No						
	Weight (container + dried soil) g						
	Wt of container g						
	W <sub>c</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water)	W <sub>a</sub> g	151.95	143.07	150.6	145.5	143.1	148.39
	W <sub>a</sub> + (W <sub>c</sub> - W <sub>s</sub> ) g	5.72	5.78	5.74	6.0	6.0	6.04
Specific Gravity at T°C	$\frac{W_a}{W_s + (W_c - W_s)}$	2.62	2.60	2.61	2.50	2.50	2.48
② Compensation coefficient	K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C	$\frac{W_a}{W_s + (W_c - W_s)} \times K$	2.62	2.60	2.61	2.50	2.50	2.48
Average Value		G <sub>s</sub> (T°C/15°C) = 2.61 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.49 g/cm <sup>3</sup>		
Remarks							

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.

Sample No, Depth		No. BH-3 (12.0-12.1m)			No. BH-3 (16.0-16.1m)		
Test	No.	1	2	3	1	2	3
Pycnometer	No	94	93	53	33	63	54
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	157.37	158.67	158.10	155.67	154.68	149.27
Temperature of content when Wb is made		8 °C	8 °C	8 °C	8 °C	8 °C	8 °C
W. of oven dried soil in pycnometer.	container No						
	Weight (container + dried soil) g						
	Wt of container g						
	W <sub>c</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water)	W <sub>a</sub> g	148.30	149.54	148.94	146.59	145.60	140.11
	W <sub>a</sub> + (W <sub>c</sub> - W <sub>s</sub> ) g	5.93	5.87	5.84	5.92	5.92	5.84
Specific Gravity at T°C	$\frac{W_a}{W_s + (W_c - W_s)}$	2.53	2.55	2.57	2.53	2.53	2.56
② Compensation coefficient	K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C	$\frac{W_a}{W_s + (W_c - W_s)} \times K$	2.53	2.55	2.57	2.53	2.53	2.56
Average Value		G <sub>s</sub> (T°C/15°C) = 2.55 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.54 g/cm <sup>3</sup>		
Remarks							

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.

Part III

Statement of Financial Position

December 31, 1999

Assets

Current assets: Cash, \$1,234,567; Accounts receivable, \$123,456; Prepaid expenses, \$56,789; Other current assets, \$12,345; Total current assets, \$1,427,157

Non-current assets: Property and equipment, \$234,567; Other non-current assets, \$12,345; Total non-current assets, \$246,912

Total assets, \$1,674,069

Liabilities and net assets

Liabilities: Accounts payable, \$123,456; Other liabilities, \$56,789; Total liabilities, \$180,245

Net assets: Unrestricted net assets, \$1,234,567; Restricted net assets, \$123,456; Total net assets, \$1,358,024

Total liabilities and net assets, \$1,674,069

Change in net assets

Unrestricted net assets: Increase from operations, \$123,456; Decrease from operations, \$56,789; Total change, \$66,667

Restricted net assets: Increase from operations, \$12,345; Decrease from operations, \$5,678; Total change, \$6,667

Total change in net assets, \$73,334

Net assets at beginning of year, \$1,284,690

Net assets at end of year, \$1,358,024

Change in net assets

Unrestricted net assets: Increase from operations, \$123,456; Decrease from operations, \$56,789; Total change, \$66,667

Restricted net assets: Increase from operations, \$12,345; Decrease from operations, \$5,678; Total change, \$6,667

Total change in net assets, \$73,334

Net assets at beginning of year, \$1,284,690

Net assets at end of year, \$1,358,024

Change in net assets

Unrestricted net assets: Increase from operations, \$123,456; Decrease from operations, \$56,789; Total change, \$66,667

Restricted net assets: Increase from operations, \$12,345; Decrease from operations, \$5,678; Total change, \$6,667

Total change in net assets, \$73,334

Net assets at beginning of year, \$1,284,690

Net assets at end of year, \$1,358,024

Change in net assets

Unrestricted net assets: Increase from operations, \$123,456; Decrease from operations, \$56,789; Total change, \$66,667

Restricted net assets: Increase from operations, \$12,345; Decrease from operations, \$5,678; Total change, \$6,667

Total change in net assets, \$73,334

Net assets at beginning of year, \$1,284,690

Net assets at end of year, \$1,358,024

Change in net assets

Unrestricted net assets: Increase from operations, \$123,456; Decrease from operations, \$56,789; Total change, \$66,667

Restricted net assets: Increase from operations, \$12,345; Decrease from operations, \$5,678; Total change, \$6,667

Total change in net assets, \$73,334

Net assets at beginning of year, \$1,284,690

Net assets at end of year, \$1,358,024

Job, Site PORT IRENE Date 6-19-81

Technician N° Prado

Sample No, Depth	No. BH-3 (20.0~20.45)			No. BH-3 (25.0~25.45)		
	1	2	3	1	2	3
Test No.						
Pycnometer No.	32	33	92	32	49	46
Weight of pycnometer + oven dried soil (wet soil) + water Wb g	154.76	155.67	156.72	154.4	151.4	159.5
Temperature of content when Wb is meas	8 °C	8 °C	8 °C	8 °C	8 °C	8 °C
W. of oven dried soil in pycnometer.	container No. Weight (container + dried soil) g Wt of container g W <sub>1</sub> g					
① Converted weight at T°C (container + distilled water) W <sub>a</sub> g	145.70	146.59	147.69	145.7	142.85	150.65
W <sub>1</sub> + (W <sub>a</sub> - W <sub>1</sub> ) g	5.94	5.92	5.97	6.30	6.20	6.15
Specific Gravity at T°C, $\frac{W_1}{W_1 + (W_a - W_1)} = \frac{W_1}{W_1 + (W_a - W_1)}$	2.52	2.53	2.51	2.38	2.42	2.44
② Compensation coefficient K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C, $(\frac{TC}{15C}) = K \times G_s (\frac{TC}{TC})$	2.52	2.53	2.51	2.38	2.42	2.44
Average Value	G <sub>s</sub> (T°C/15°C) = 2.52 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.41 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.

Sample No, Depth	No. ( m ~ m )			No. ( m ~ m )		
	1	2	3	1	2	3
Test No.						
Pycnometer No.						
Weight of pycnometer + oven dried soil (wet soil) + water Wb g						
Temperature of content when Wb is meas.						
W. of oven dried soil in pycnometer.	container No. Weight (container + dried soil) g Wt of container g W <sub>1</sub> g					
① Converted weight at T°C (container + distilled water) W <sub>a</sub> g						
W <sub>1</sub> + (W <sub>a</sub> - W <sub>1</sub> ) g						
Specific Gravity at T°C, $\frac{W_1}{W_1 + (W_a - W_1)} = \frac{W_1}{W_1 + (W_a - W_1)}$						
② Compensation coefficient K						
Specific Gravity at 15°C, $(\frac{TC}{15C}) = K \times G_s (\frac{TC}{TC})$						
Average Value	G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides guidelines for implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document explores the importance of data quality and integrity. It discusses strategies for identifying and correcting errors in data collection and analysis to ensure the reliability of the information used for decision-making.

6. The sixth part of the document discusses the role of data in strategic planning and performance management. It highlights how data-driven insights can help organizations identify trends, opportunities, and areas for improvement, leading to more effective strategic execution.

7. The seventh part of the document focuses on the importance of data governance and compliance. It discusses the need for clear policies and procedures to ensure that data is collected, stored, and used in a manner that complies with relevant laws and regulations.

8. The eighth part of the document discusses the role of data in customer relationship management (CRM). It highlights how data analysis can help organizations better understand their customers' needs and preferences, leading to more personalized and effective marketing and sales strategies.

9. The ninth part of the document discusses the importance of data in human resources management. It highlights how data analysis can help organizations identify talent gaps, improve recruitment processes, and enhance employee performance through targeted training and development programs.

10. The tenth part of the document discusses the role of data in financial management. It highlights how data analysis can help organizations monitor their financial performance, identify cost-saving opportunities, and make more informed investment decisions.

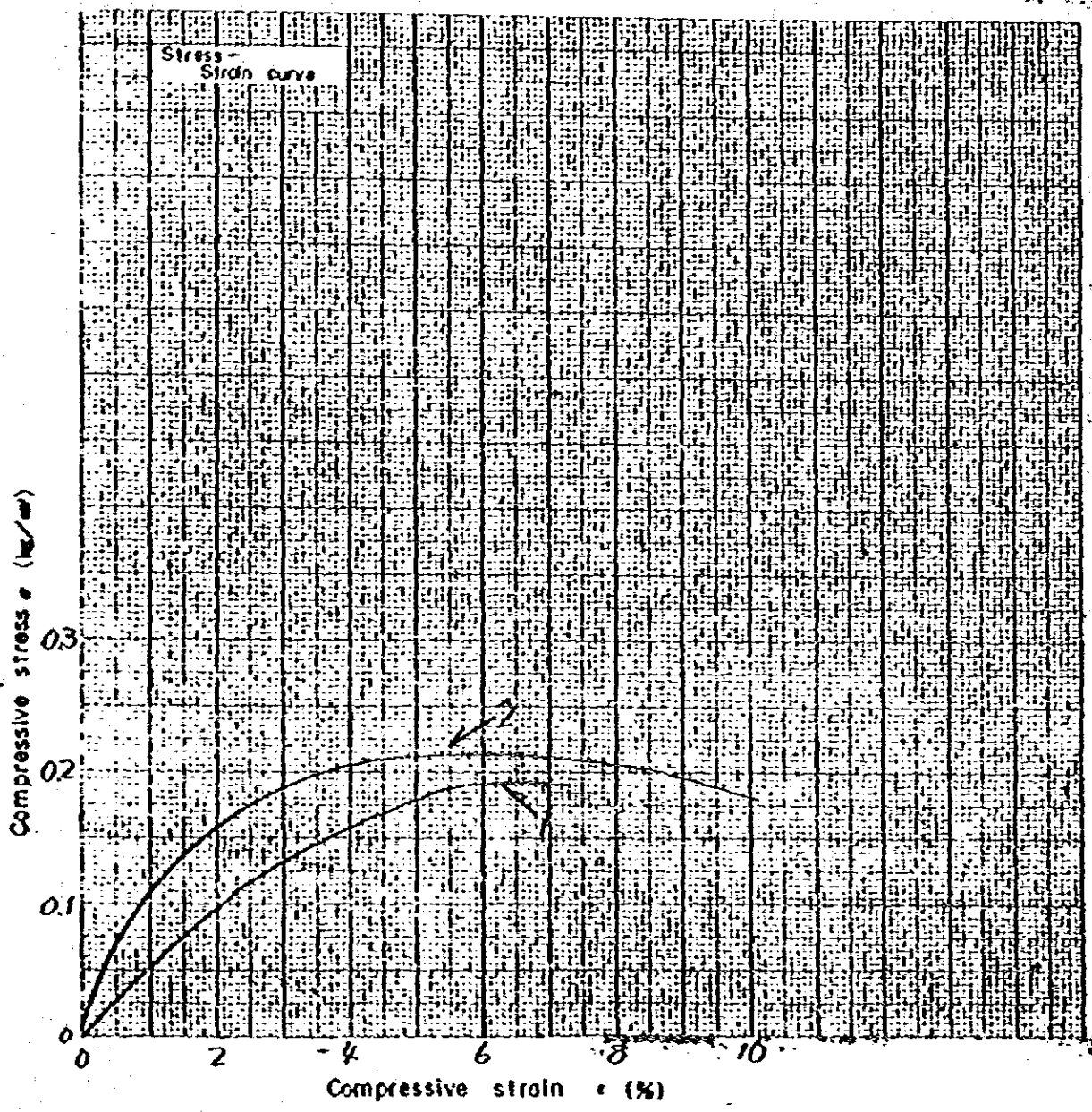


# Unconfined Compression Test

Reporting  
paper

Job, Site PORT IBENK Date Jun 5, 1981  
 Sample No., Depth, No. BH - 3 (9.00m ~ 9.60m) Technician V. MANUEL  
 Soil classification \_\_\_\_\_ Gravity of soil  $G_s$  2.49 Plasticity index 1  
 Strain rate 1 %/min. Load gage : No. \_\_\_\_\_ Load gage capacity 0.036 kg

Specimen No.	Sample condition	Size (cm)		$\gamma_s$ (kg/cm <sup>3</sup> )	w (%)	e	S <sub>v</sub> (%)	$\eta_s$ (kg/cm <sup>3</sup> )	d (%)	$E_m$ (kg/cm <sup>2</sup> )	S <sub>u</sub>
		H	D								
1		8.75	3.59	1.67	50.9	1.25		0.19	5.7	4.9	
2		8.75	3.56	1.68	50.9	1.24		0.215	5.7	11.9	



Sketch of specimen after failure.

Specimen 1

Specimen 2

Specimen \_\_\_\_\_

Specimen \_\_\_\_\_

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all entries are supported by appropriate documentation and receipts.

3. Regular audits should be conducted to verify the accuracy of the records and identify any discrepancies.

4. The second part of the document outlines the procedures for handling and storing financial records.

5. Records should be organized in a systematic manner to facilitate easy access and retrieval.

6. Appropriate security measures should be implemented to protect the confidentiality and integrity of the data.

7. The document also provides guidelines for the retention and disposal of financial records.

8. It is important to adhere to the relevant legal and regulatory requirements regarding record-keeping.

9. Finally, the document emphasizes the need for ongoing training and education for staff involved in record management.

Job Site

PORT IRENS

Date

6-26-81

Sample No., Depth: No.

BH-4 (5.0m ~ 5.45m)

Technician

N. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing.

Sample No., Depth

BH-4 (5.0m ~ 5.45m)

Gs

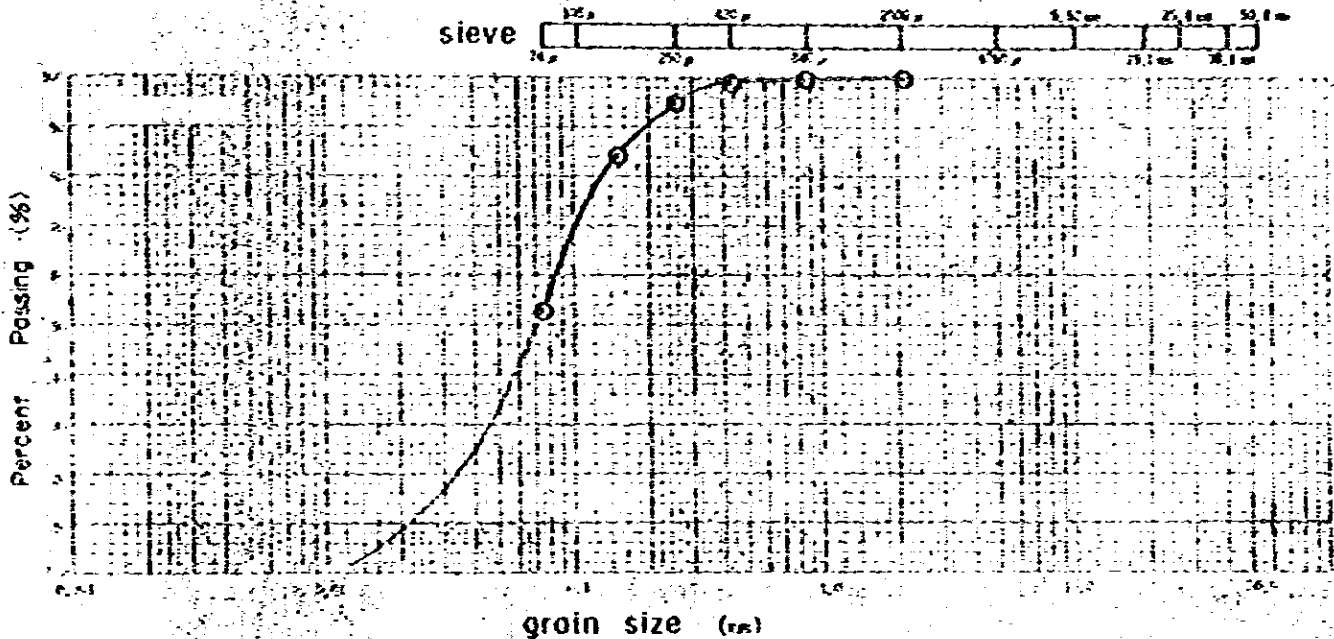
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %							100	99.8	99.1	94.6	84.8	53.1
Grain size mm												
Weight percent %												

Sample No., Depth

( m ~ m )

Gs

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %												
Grain size mm												
Weight percent %												



clay                      silt                      sand                      gravel

Sample No., Depth	No. BH-4	N <sub>2</sub>	Sample No., Depth	No. BH-4	N <sub>2</sub>
	6.0 ~ 5.45	m ~ m		5.0 ~ 5.45	m ~ m
Grains in 4.76mm and larger	0	%	Max. grain size	2.00	mm
Grains in 4.76 - 2mm	0	%	60 % (grain size)	0.685	mm
Grains in 2 - 0.62mm	0.9	%	30 % (grain size)		mm
Grains in 0.62 - 0.075mm	46.0	%	10 % (grain size)		mm
Silt in 0.075 - 0.006mm	53.1	%	Coefficient of uniformity		
Clays less than 0.006mm	0	%	Coefficient of curvature		
Coarse less than 0.001mm	0	%			
Percent by weight passing through 2.00mm sieve	100	%			
Percent by weight passing through 4.76mm sieve	99.1	%			
Percent by weight passing through 75µ sieve	53.1	%			



JIS A 1204

Method of Grain - Size Analysis of Soils

Report Form

Job Site **PORT IRENE**

Date **6-26-81**

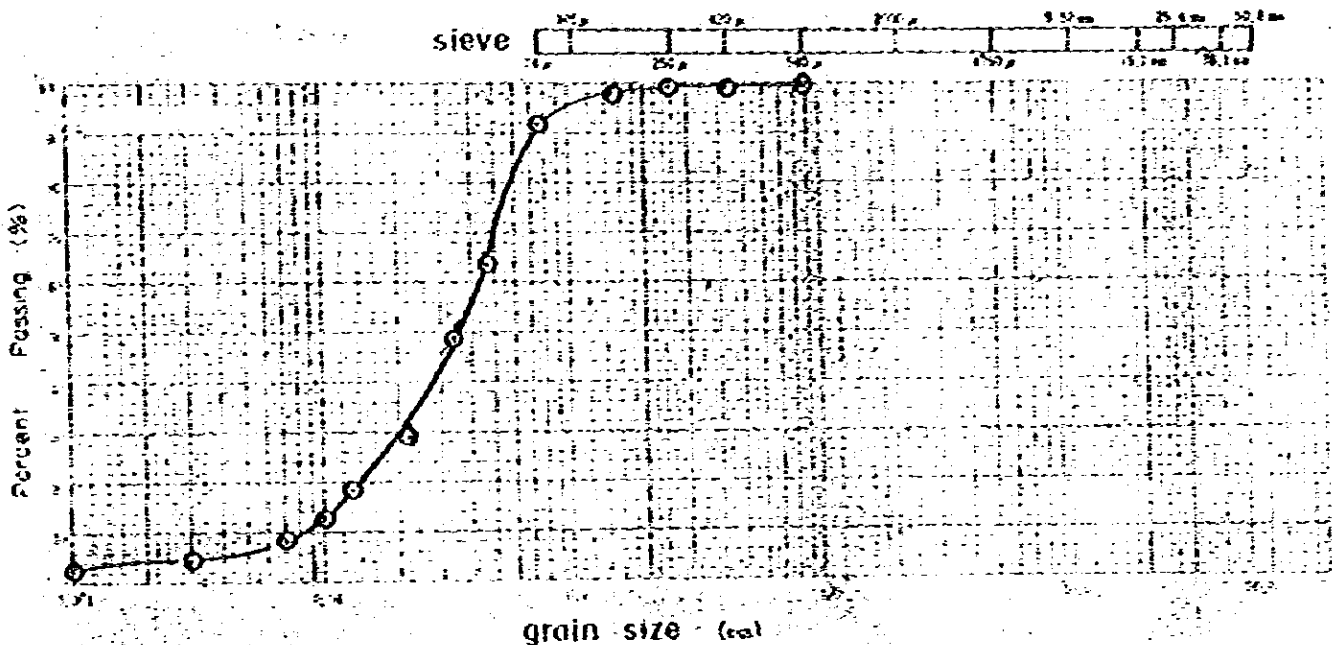
Sample No., Depth: No. **BH-1 (8.0 m - 8.45 m)**

Technician **N. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing.

Sample No., Depth	BH-1 (8.0 m - 8.45 m)											Gs	2.47
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight Percent %								100	99.6	99.2	98.7	92.1	
Grain size mm	0.6	0.34	0.22	0.13	0.10	0.07	0.03	0.01					
Weight Percent %	62.8	48.2	29.3	18.8	12.6	8.4	4.2	2.1					

Sample No., Depth	( m - m )											Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight Percent %													
Grain size mm													
Weight Percent %													



clay                      silt                      sand                      gravel

Sample No., Depth	No. BH-1		No. BH-1		Sample No., Depth	No. BH-1		No. BH-1	
	8.0 m - 8.45 m		8.0 m - 8.45 m			8.0 m - 8.45 m		8.0 m - 8.45 m	
Grains in 4.76mm and larger	0	%		%	Max. grain size	.84	mm		mm
Grains in 4.76 - 2mm	0	%		%	60 % (grain size)	.043	mm		mm
Grains in 2 - 0.425mm	0.4	%		%	20 % (grain size)	.02	mm		mm
Grains in 0.425 - 0.075mm	7.5	%		%	10 % (grain size)	.008	mm		mm
SP (15 - 0.075mm)	86.1	%		%	Coefficient of uniformity	5.4			
Clays less than 0.0075mm	1.9	%		%	Coefficient of curvature	1.16			
Clays less than 0.0015mm	2.1	%		%					
Percent of weight passing through 200µ sieve	0	%		%					
Percent by weight passing through 425µ sieve	99.6	%		%					
Percent by weight passing through 75µ sieve	92.1	%		%					

1991年12月15日

1991年12月15日

1991年12月15日

1991年12月15日

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Job Site **PORT IRENE**

Date **6-26-81**

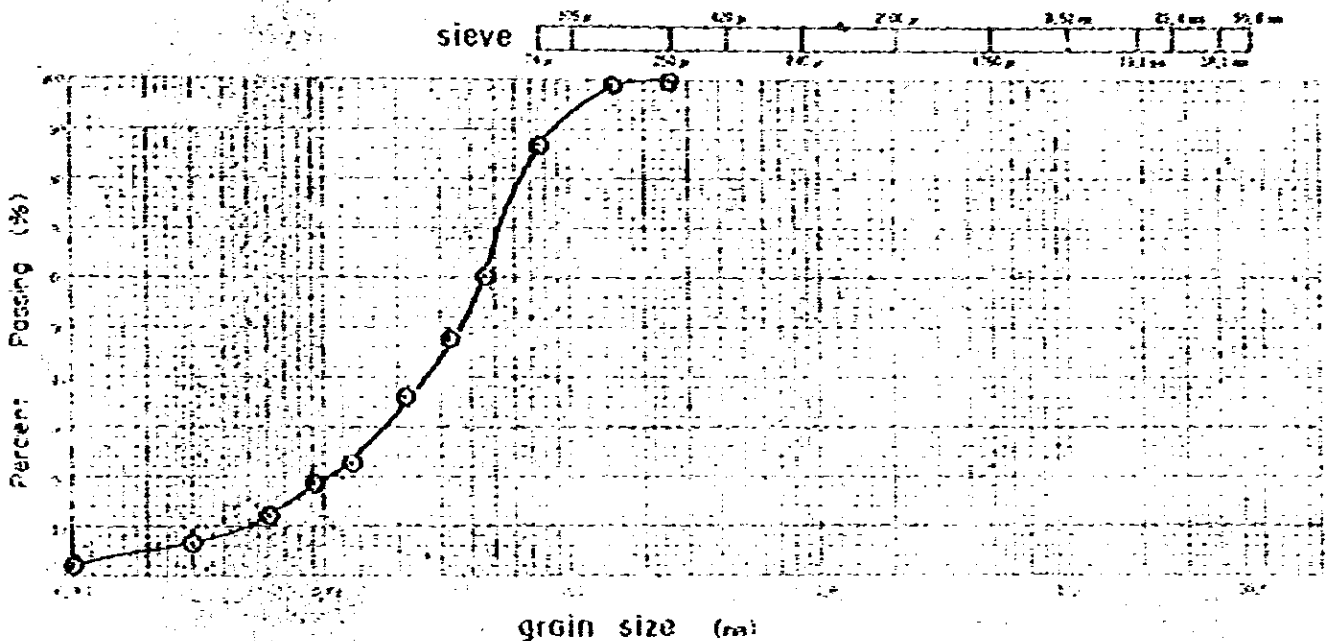
Sample No., Depth: No. **BH-4 (2.0 ~ 12.45m)**

Technician **N. PRADO**

Table of relationship between grain size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth		BH-4 (2.0 ~ 12.45m)							Gs 2.58				
Grain size mm		50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %											100	99.6	87.1
Grain size mm		0.074	0.033	0.021	0.013	0.009	0.006	0.003	0.001				
Weight percent %		60.9	47.9	36.6	22.4	18.3	12.2	6.1	2.0				

Sample No., Depth		( m - m )							Gs				
Grain size mm		50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %													
Grain size mm													
Weight percent %													



clay	silt	sand	gravel
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Sample No., Depth	No. BH-4	No.	%	Sample No., Depth	No. BH-4	No.	%
Grains in 4.75mm and larger	0	%		Max. grain size	0.25	mm	mm
Grains in 4.75 - 2mm	0	%		60 % (grain size)	0.074	mm	mm
Grains in 2 - 0.84mm	0	%		30 % (grain size)	0.018	mm	mm
Grains in 0.84 - 0.075mm	12.9	%		10 % (grain size)	0.005	mm	mm
Silt in 0.074 - 0.005mm	77.1	%		Coefficient of uniformity	8.8		
Grains less than 0.005mm	8.0	%		Coefficient of curvature	1.47		
Grains less than 0.001mm	2.0	%					
Percent of weight passing through 200µ sieve	0	%					
Percent of weight passing through 420µ sieve	0	%					
Percent of weight passing through 75µ sieve	87.1	%					





Job Site **PORT IRENE**

Date **6-26-81**

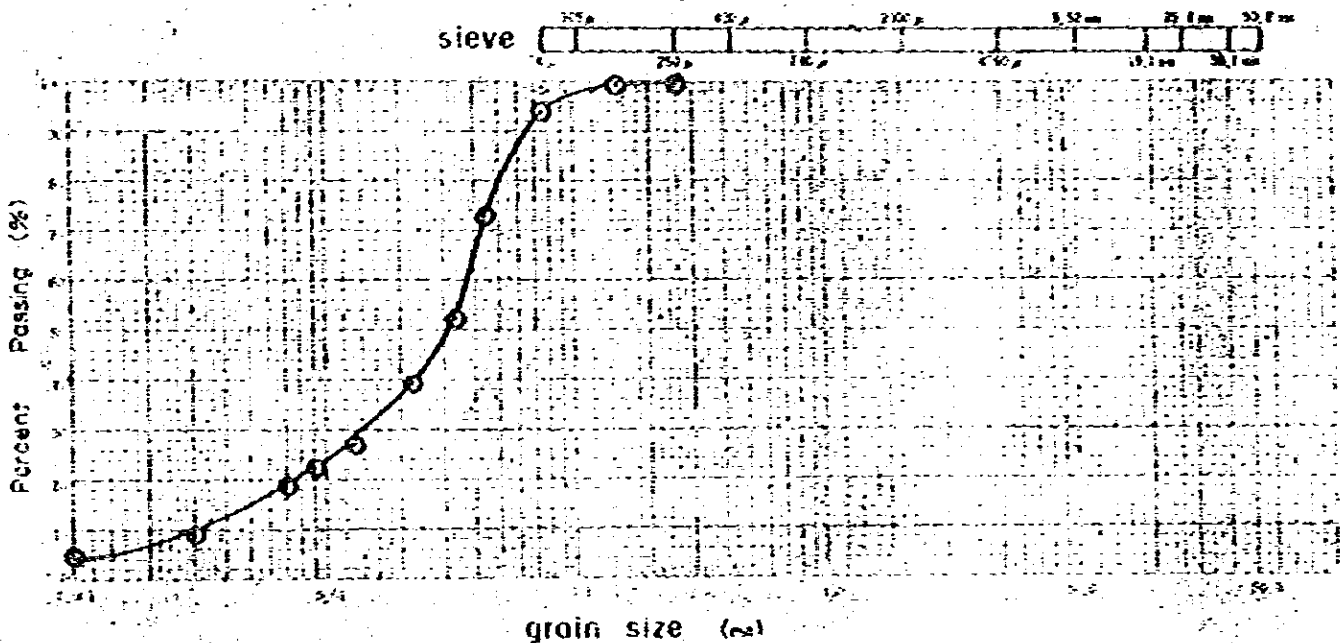
Sample No., Depth: No. **BH-4 (16.0 ~ 16.45)**

Technician **H. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-4 (16.0 ~ 16.45m)								Gs 2.48			
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %									100	99.5	99.0	94.1
Grain size mm	0.42	0.33	0.22	0.13	0.09	0.07	0.03	0.01				
Weight percent %	73.1	52.2	39.7	27.1	22.9	18.8	8.3	4.2				

Sample No., Depth	( m ~ m )								Gs			
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %												
Grain size mm												
Weight percent %												



clay                      silt                      sand                      gravel

Sample No., Depth	No. BH-4 16.0 ~ 16.45m		No. BH-4 16.0 ~ 16.45m		Sample No., Depth		No. BH-4 16.0 ~ 16.45m	
Grains in 4.76mm and larger	0	%		%	Max. grain size	0.42	mm	mm
Grains in 4.76 ~ 2mm	0	%		%	60 % (grain size)	0.037	mm	mm
Grains in 2 ~ 0.42mm	0	%		%	20 % (grain size)	0.014	mm	mm
Grains in 0.42 ~ 0.075mm	5.9	%		%	10 % (grain size)	0.003	mm	mm
Silt in 0.075 ~ 0.0075mm	79.1	%		%	Coefficient of uniformity	12.3		
Clays less than 0.0075mm	10.9	%		%	Coefficient of curvature	1.8		
Clays less than 0.001mm	4.1	%		%				
Percent of weight passing through 20.0mm sieve	0	%		%				
Percent by weight passing through 420mm sieve	100	%		%				
Percent by weight passing through 75 μ sieve	94.1	%		%				



Job Site PORT IRENE

Date 6-26-81

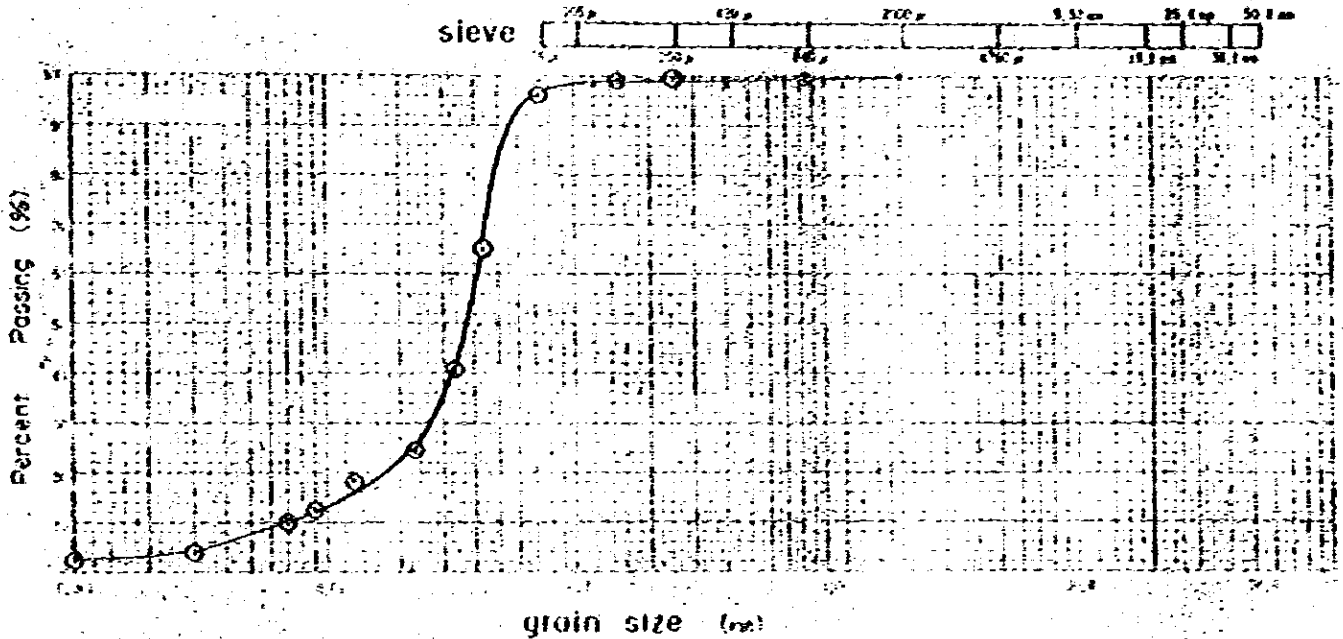
Sample No., Depth: No. BH-4 (20.0m-20.45m)

Technician N. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-4 (20.0m-20.45m)					Gs 2.58						
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight Percent %							100	99.8	99.6	99.4	99.2	96.1
Hydro meter												
Grain size mm	.075	.0375	.025	.015	.009	.0075	.003	.001				
Weight Percent %	65.0	40.6	24.4	18.3	12.2	10.2	4.0	2.0				

Sample No., Depth	( m - m )					Gs						
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight Percent %												
Hydro meter												
Grain size mm												
Weight Percent %												



clay (0.075 - 0.0075)      silt (0.075 - 0.0075)      sand (0.075 - 4.75)      gravel (> 4.75)

Sample No., Depth	No. BH-4 20.0m-20.45m		Sample No., Depth		No. BH-4 20.0m-20.45m	
Grains in 4.75mm and larger	0	%	Max. grain size	.84	mm	
Grains in 4.75 - 2mm	0	%	60 % (grain size)	.042	mm	
Grains in 2 - 0.42mm	0.4	%	30 % (grain size)	.0261	mm	
Grains in 0.42 - 0.075mm	3.5	%	10 % (grain size)	6.006	mm	
Silt in 0.075 - 0.006mm	88.0	%	Coefficient of uniformity	2.3		
Clays less than 0.005mm	6.1	%	Coefficient of curvature	2.6		
Total less than 0.001mm	2.0	%				
Percent by weight passing through 2000µ sieve	100	%				
Percent by weight passing through 420µ sieve	99.6	%				
Percent by weight passing through 75µ sieve	96.1	%				



Job Site

PORT IRENE

Date

6-26081

Sample No., Depth: No.

BH-4 (28.0m-28.45m)

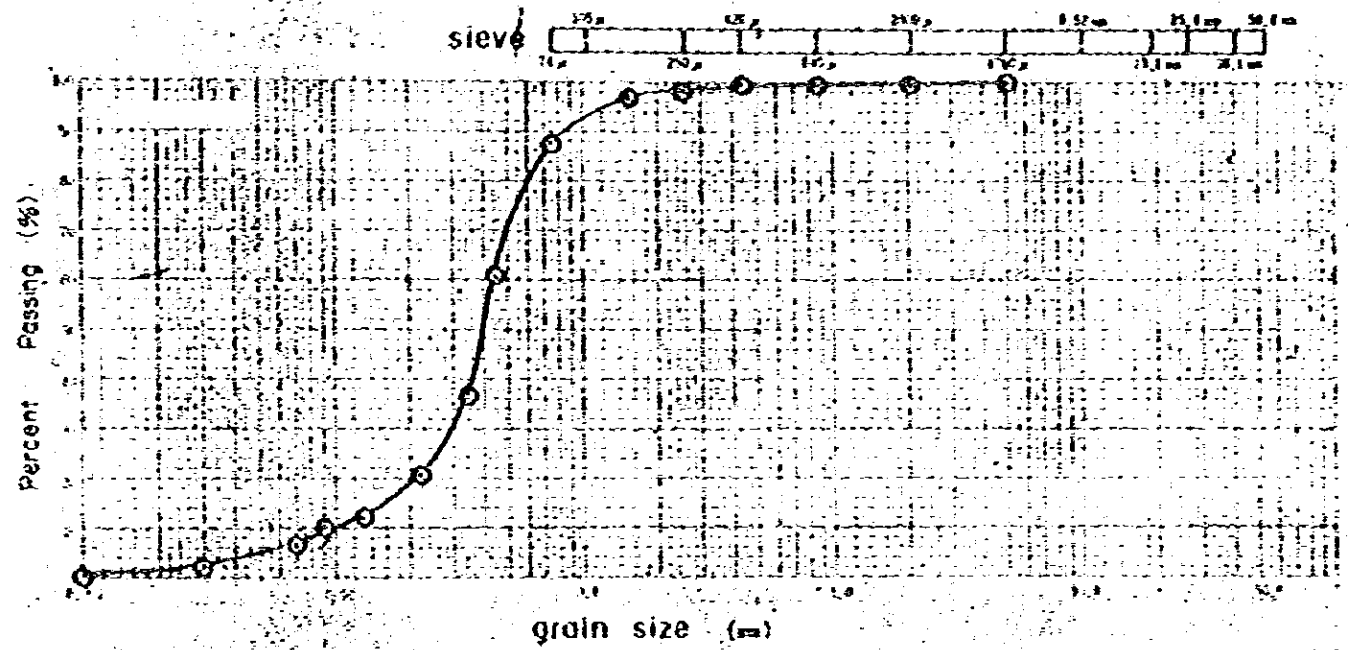
Technician

N. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing.

Sample No., Depth	BH-4 (28.0m-28.45m)												Gs	2.59
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.48	0.25	0.105	0.074		
Weight Percent %						100	99.9	99.7	99.5	98.8	97.0	88.8		
Hydro meter grain size mm	0.075	0.0375	0.022	0.013	0.009	0.007	0.003	0.001						
Weight Percent %	60.8	36.5	20.3	12.1	10.1	6.1	2.0	0						

Sample No., Depth	( m - m )												Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074		
Weight Percent %														
Hydro meter grain size mm														
Weight Percent %														



clay                      silt                      sand                      gravel

Sample No., Depth	No. BH-4		No. m - m		Sample No., Depth	No. BH-4		No. m - m	
	28.0-28.45m					28.0m-28.45m			
Grains in 4.76mm and larger	0	%		%	Max. grain size	4.76	mm		mm
Grains in 4.76 - 2mm	0.1	%		%	60 % (grain size)	0.3	mm		mm
Grains in 2 - 0.42mm	0.4	%		%	30 % (grain size)	0.003	mm		mm
Grains in 0.42 - 0.075mm	10.7	%		%	10 % (grain size)	0.001	mm		mm
Silt in 0.075 - 0.006mm	83.8	%		%	Coefficient of uniformity	4.3			
Clays less than 0.006mm	5.0	%		%	Coefficient of curvature	0.2			
Clays less than 0.001mm	0	%		%					
Percent by weight passing through 200µ sieve	99.9	%		%					
Percent by weight passing through 420µ sieve	99.5	%		%					
Percent by weight passing through 75µ sieve	88.8	%		%					



JIS A 1205  
A 1206

Determination of the Liquid limit and Plastic limit of Soil

Reporting paper

Job, Site

PORT IRENE

Date 6-25-81

Technician N. PRADO

Sample No., Depth		No. BH-4 (8.00-8.45m)			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	9	51.2	1	22.9	
2	15	49.0	2	23.3	
3	26	45.5	3		
4	35	44.2			
5	45	44.8			
			Average	23.1	
Liquid limit %		Plastic limit %		Plasticity index	
46.0		23.1		22.9	

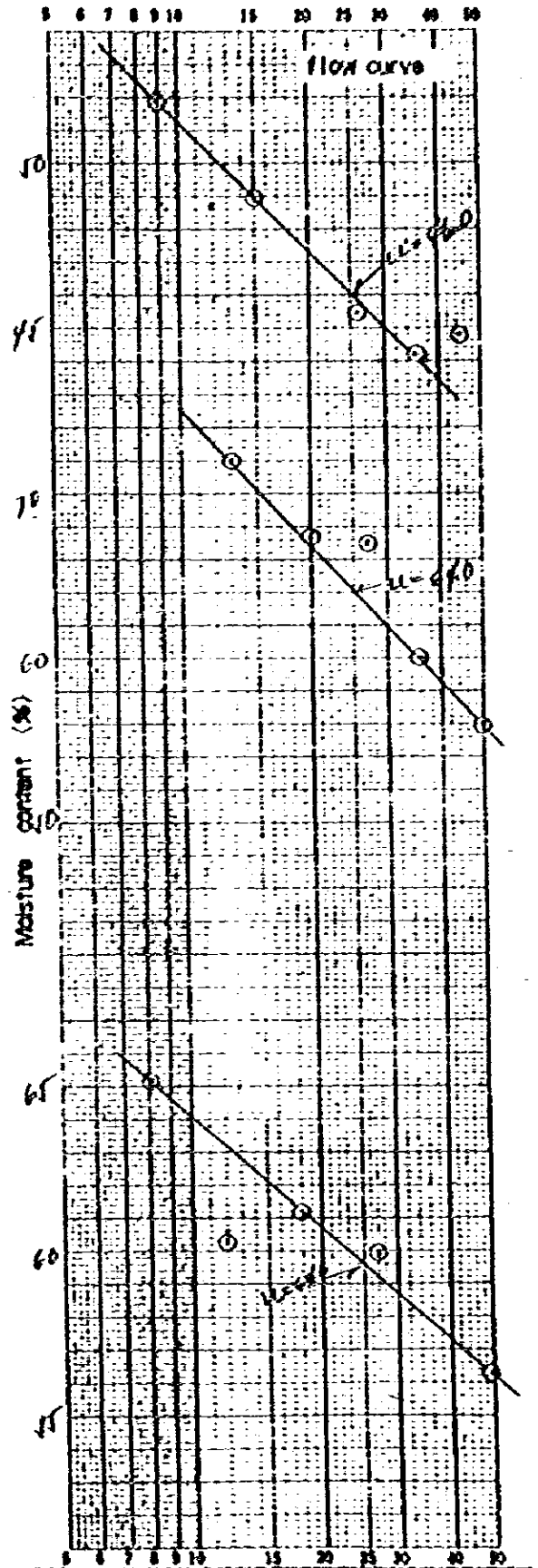
Remarks: describe preparation method of the sample and etc.

Sample No., Depth		No. BH-4 (16.0-16.45m)			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	13	72.1	1	25.3	
2	20	67.4	2	23.8	
3	27	67.2	3		
4	35	60.0			
5	50	56.1			
			AVG	24.5	
Liquid limit %		Plastic limit %		Plasticity index	
64.0		24.5		39.5	

Remarks: describe preparation method of the sample and etc.

Sample No., Depth		No. BH-4 (20.0-20.45m)			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	8	65.2	1	25.9	
2	12	60.3	2	26.8	
3	18	61.2	3		
4	27	60.0			
5	50	56.3			
Liquid limit %		Plastic limit %		Plasticity index	
64.6		26.3		38.3	

Remarks: describe preparation method of the sample and etc.



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

2. The second part of the document delves into the specific requirements for record-keeping, including the types of documents that must be retained and the duration for which they should be kept. It provides a detailed overview of the various categories of records, such as financial statements, contracts, and correspondence, and outlines the best practices for organizing and storing these documents to ensure they are easily accessible and secure.

3. The third part of the document addresses the challenges associated with record-keeping, such as the volume of data generated and the risk of data loss or corruption. It offers practical solutions and strategies to overcome these challenges, including the use of digital storage solutions and the implementation of robust backup and recovery procedures. This section also discusses the importance of regular audits and reviews to ensure the integrity and accuracy of the records.

4. The fourth part of the document focuses on the role of record-keeping in compliance with various regulations and standards. It highlights the need for organizations to stay up-to-date with the latest regulatory requirements and to implement effective controls to ensure compliance. This section also discusses the importance of training and education for staff members involved in record-keeping, as well as the role of external auditors in verifying the accuracy and completeness of the records.

5. The fifth and final part of the document provides a summary of the key points discussed and offers some concluding thoughts on the importance of record-keeping. It emphasizes that record-keeping is not just a legal obligation, but a fundamental aspect of good business practice that can help organizations to improve their operations, reduce risk, and enhance their reputation. The document concludes by encouraging organizations to take a proactive approach to record-keeping and to invest in the resources and expertise needed to ensure that their records are accurate, complete, and secure.



JIS A 1205  
A 1206

Determination of the Liquid limit and Plastic limit of Soil

Reporting paper

Job, Site PCRT IRENE

Date 6-25-81

Technician N. PRADO

Sample No., Depth		No. DIT-1 (28.0-28.105)			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	8	47.0	1	25.7	
2	12	48.2	2	25.8	
3	19	47.3	3		
4	35	45.8			
5	45	44.8			
6			Average		
Liquid limit	w <sub>L</sub>	Plastic limit	w <sub>p</sub>	Plasticity index	
	%		%	I <sub>p</sub>	
	46.5		25.7	20.8	

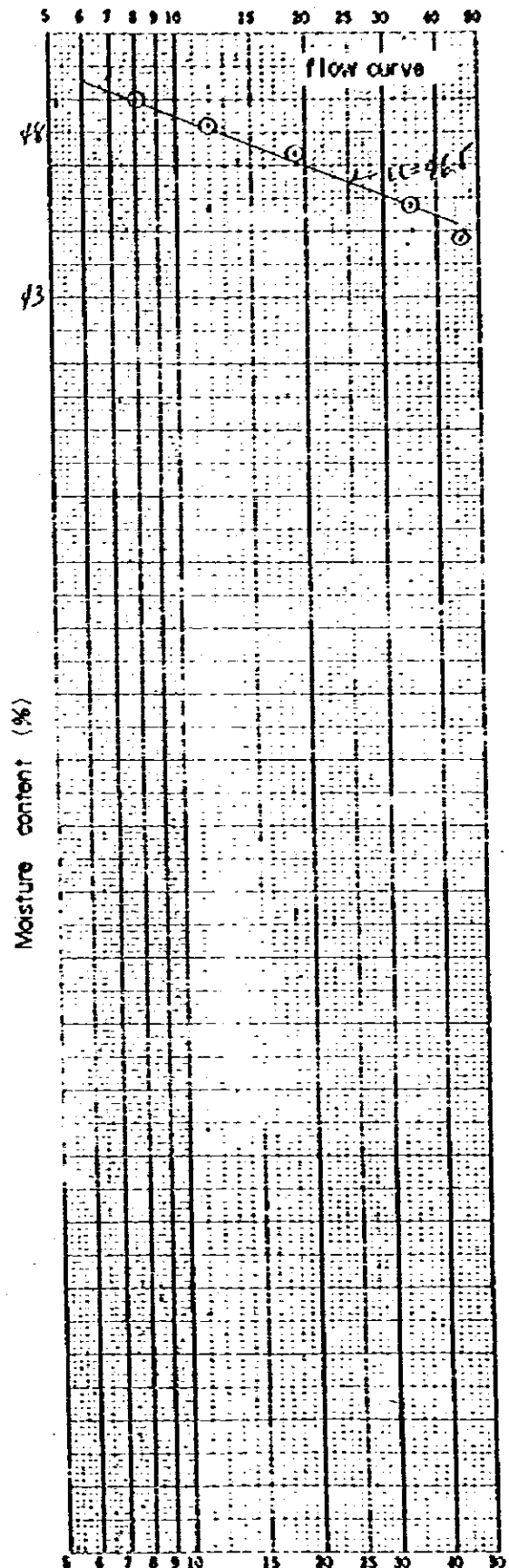
Remarks: describe preparation method of the sample and etc.

Sample No., Depth		No. ( m ~ m )			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1			1		
2			2		
3			3		
4					
5					
6					
Liquid limit	w <sub>L</sub>	Plastic limit	w <sub>p</sub>	Plasticity index	
	%		%	I <sub>p</sub>	

Remarks: describe preparation method of the sample and etc.

Sample No., Depth		No. ( m ~ m )			
Liquid limit Test			Plastic limit Test		
No.	No. of blows	Moisture content %	No.	Moisture content %	
1			1		
2			2		
3			3		
4					
5					
6					
Liquid limit	w <sub>L</sub>	Plastic limit	w <sub>p</sub>	Plasticity index	
	%		%	I <sub>p</sub>	

Remarks: describe preparation method of the sample and etc.





JIS A 1202	Determination of the Specific Gravity of Soil	Reporting paper
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Job, Site PCRT IRENE Date 6-23-81

Technician H. PRADO

Sample No., Depth	No. BH-14 (5.0m~5.1ps)			No. BH-14 (8.0m~8.1ps)		
	Test No	1	2	3	1	2
Pycnometer No	47	52	32	56	38	36
Weight of pycnometer + oven dried soil(wet soil) + water Wb g	152.95	157.11	154.74	151.97	158.88	160.94
Temperature of content when Wb is measured	12 °C	12 °C	12 °C	10 °C	10 °C	10 °C
W of oven dried soil pycnometer.	container No.					
	Weight (container + dried soil) g					
n	Wt of container g					
	W <sub>c</sub> g	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g	143.8	147.92	145.64	143.04	149.78	151.92
W <sub>a</sub> + (W <sub>c</sub> - W <sub>b</sub> ) g	5.85	5.81	5.90	6.07	6.1	5.98
Specific Gravity of T°C $\frac{W_s}{W_a + (W_c - W_b)}$	2.56	2.58	2.54	2.47	2.46	2.50
② Compensation coefficient K	1.0004	1.0004	1.0004	1.0006	1.0006	1.0006
Specific Gravity of 15°C $\frac{W_s}{W_a + (W_c - W_b)} \times K$	2.56	2.58	2.54	2.47	2.46	2.50
Average Value	G <sub>s</sub> (T°C/15°C) = 2.56 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.47 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer ② is from JIS.

Sample No., Depth	No. BH-14 (12.0~12.1ps)			No. BH-14 (16.0~16.1ps)		
	Test No	1	2	3	1	2
Pycnometer No	45	55	38	47	59	43
Weight of pycnometer + oven dried soil(wet soil) + water Wb g	158.53	160.42	159.19	154.36	157.35	160.92
Temperature of content when Wb is measured	10 °C	12 °C	10 °C	10 °C	10 °C	10 °C
W of oven dried soil pycnometer.	container No.					
	Weight (container + dried soil) g					
n	Wt of container g					
	W <sub>c</sub> g	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g	147.44	151.11	149.98	145.48	148.37	151.92
W <sub>a</sub> + (W <sub>c</sub> - W <sub>b</sub> ) g	5.91	5.69	5.79	6.12	6.02	6.00
Specific Gravity of T°C $\frac{W_s}{W_a + (W_c - W_b)}$	2.54	2.63	2.59	2.45	2.49	2.50
② Compensation coefficient K	1.0006	1.0004	1.0006	1.0006	1.0006	1.0006
Specific Gravity of 15°C $\frac{W_s}{W_a + (W_c - W_b)} \times K$	2.54	2.63	2.59	2.45	2.49	2.50
Average Value	G <sub>s</sub> (T°C/15°C) = 2.58 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.48 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.



JIS A 1202	Determination of the Specific Gravity of Soil	Reporting paper
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Job, Site PORT IRENE Date 6-23-81  
 Technician N. PRADO

Sample No., Depth		No. BH-4 (20.0~20.1)			No. BH-4 (25.0~25.4)		
Test	No	1	2	3	1	2	3
Pycnometer No.		53	45	44	85	47	89
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	158.11	158.66	157.21	159.38	154.65	155.42
Temperature of content when Wb is measured		10 °C	10 °C	10 °C	10 °C	10 °C	10 °C
W. of oven dried soil pycnometer.	container No.						
	Weight (container + dried soil)						
	Wt of container						
	W <sub>c</sub>	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water)	W <sub>a</sub>	148.92	149.45	148.04	150.1	145.48	146.38
	W <sub>c</sub> + (W <sub>b</sub> - W <sub>a</sub> )	5.81	5.79	5.83	5.72	5.83	5.92
Specific Gravity of T°C	$\frac{W_c}{W_c + (W_b - W_a)}$	2.58	2.59	2.57	2.62	2.57	2.53
② Compensation coefficient K		1.0006	1.0006	1.0006	1.0006	1.0006	1.0006
Specific Gravity at 15°C	$\frac{W_c}{W_c + (W_b - W_a)} \times K$	2.58	2.59	2.57	2.62	2.57	2.53
Average Value		Gs (T°C/15°C) = 2.58 g/cm <sup>3</sup>			Gs (T°C/15°C) = 2.57 g/cm <sup>3</sup>		
Remarks.							

(Note) (1) is obtained from attached inspection table of pycnometer. (2) is from JIS.

Sample No., Depth		No. BH-4 (28.0~28.1)			No. ( m ~ m )		
Test	No	1	2	3	1	2	3
Pycnometer No.		92	49	52			
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	156.86	152.07	157.22			
Temperature of content when Wb is measured		10 °C	10 °C	10 °C			
W. of oven dried soil pycnometer.	container No.						
	Weight (container + dried soil)						
	Wt of container						
	W <sub>c</sub>	15.0	15.0	15.0			
① Converted weight of T°C (container + distilled water)	W <sub>a</sub>	147.66	142.82	147.95			
	W <sub>c</sub> + (W <sub>b</sub> - W <sub>a</sub> )	5.80	5.75	5.73			
Specific Gravity of T°C	$\frac{W_c}{W_c + (W_b - W_a)}$	2.58	2.60	2.61			
② Compensation coefficient K		1.0006	1.0006	1.0006			
Specific Gravity at 15°C	$\frac{W_c}{W_c + (W_b - W_a)} \times K$	2.58	2.60	2.61			
Average Value		Gs (T°C/15°C) = 2.59 g/cm <sup>3</sup>			Gs (T°C/15°C) = g/cm <sup>3</sup>		
Remarks.							

(Note) (1) is obtained from attached inspection table of pycnometer. (2) is from JIS.

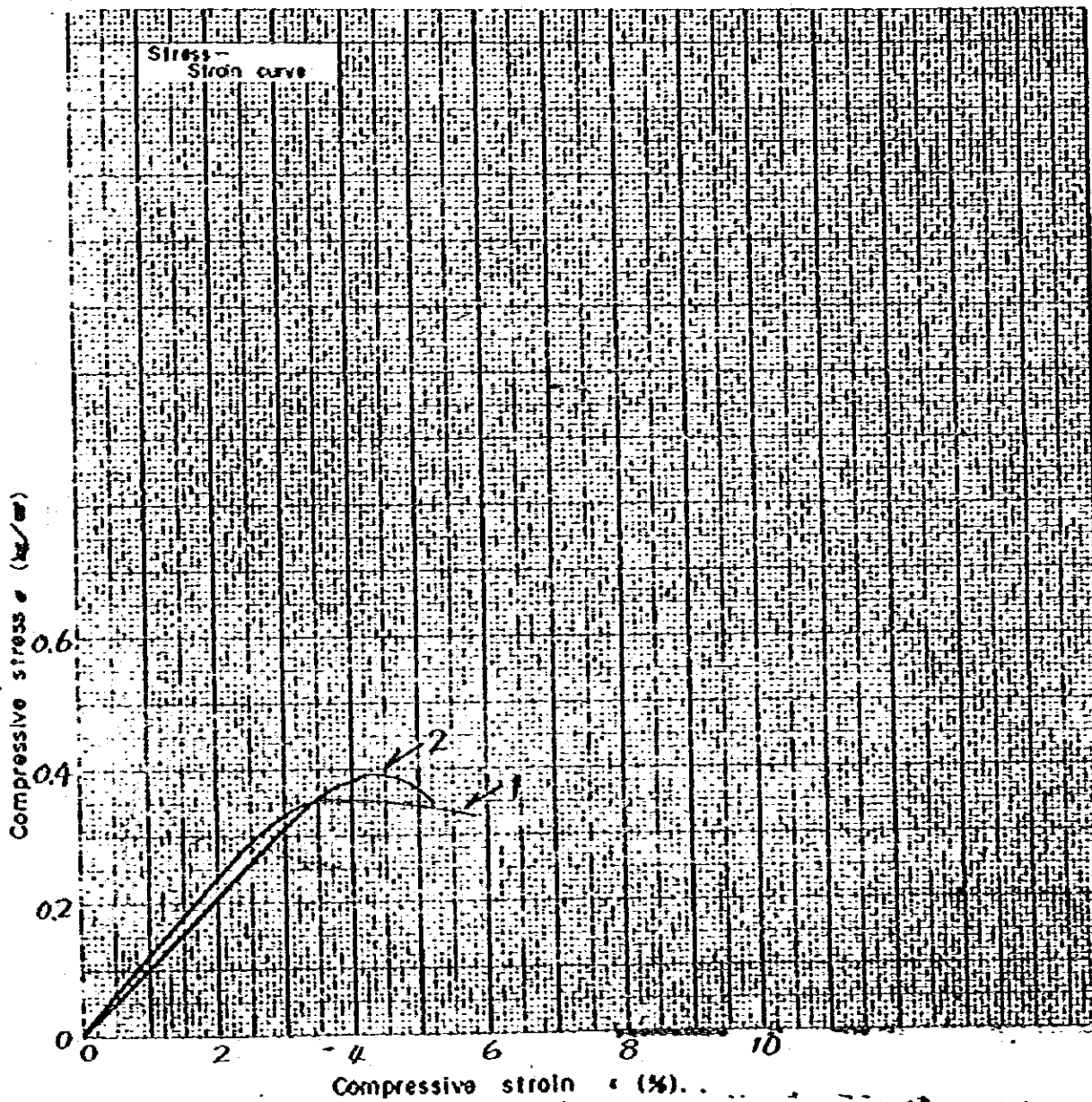


# Unconfined Compression Test

Reporting  
paper

Job, Site PORT IRENE Date Jun 18, 1981  
 Sample No., Depth: No BH- 4 (9.00m ~ 9.80 m) Technician V. MANUEL  
 Soil classification \_\_\_\_\_ Gravity of soil  $G_s$  2.49 Plasticity Index 1  
 Strain rate 1 %/min. Load gage : No \_\_\_\_\_ Load gage capacity 0.036 kg

Specimen No	Sample condition	Size (cm)		$\gamma$ (kg/cm <sup>3</sup> )	w (%)	e	S <sub>v</sub> (%)	$\nu$ (kg/cm <sup>3</sup> )	c (%)	E <sub>m</sub> (kg/cm <sup>2</sup> )	S <sub>u</sub>
		H	D								
1		8.75	3.54	1.67	50.9	1.15		0.34	3.3	12.1	
2		8.76	3.53	1.63	50.9	1.31		0.393	4.3	56.9	



Sketch of specimen after failure.

Specimen No. 1



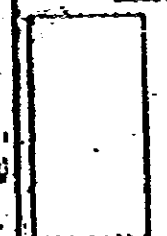
Specimen No. 2



Specimen No.



Specimen No.





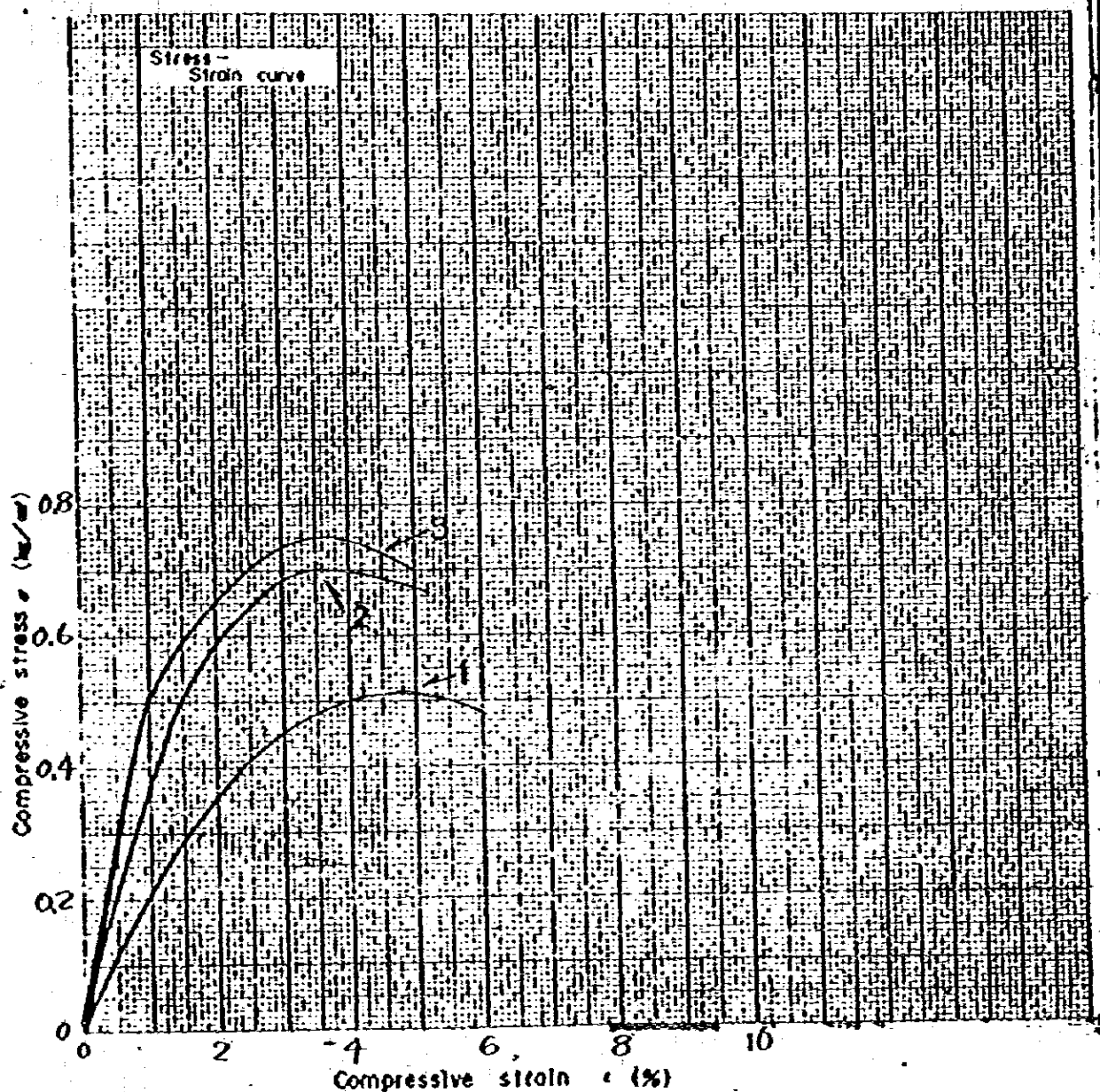


# Unconfined Compression Test

Reporting  
paper

Job, Site: PORT IRENE Date: Jun 18, 1981  
 Sample No., Depth: No. BH - 4 (14.00m - 14.80m) Technician: V. MANUEL  
 Soil classification: \_\_\_\_\_ Gravity of soil  $G_s$ : \_\_\_\_\_ Plasticity index: I<sub>p</sub>  
 Strain rate: 1 %/min. Load gage: No. \_\_\_\_\_ Load gage capacity: 0.036 kg

Specimen No.	Sample condition	Size (cm)		$\gamma$ (kg/cm <sup>3</sup> )	w (%)	e	S <sub>v</sub> (%)	$\rho$ (kg/cm <sup>3</sup> )	I (%)	E <sub>u</sub> (kg/cm <sup>2</sup> )	S <sub>u</sub>
		H	D								
1		8.75	3.50	1.67				0.51	4.6	18.8	
2		8.75	3.50	1.73				0.60	3.4	38.6	
3		8.75	3.56	1.71				0.74	3.4	56.9	

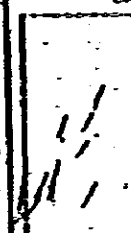


Sketch of specimen after failure.

Specimen 1



Specimen 2



Specimen 3



Specimen 4



1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all entries are supported by proper documentation and receipts.

3. Regular audits should be conducted to verify the accuracy of the records and identify any discrepancies.

4. The second part of the document outlines the procedures for handling disputes and resolving conflicts.

5. It is important to establish clear communication channels and protocols for addressing any issues that arise.

6. The document also provides guidance on how to maintain confidentiality and protect sensitive information.

7. Finally, it emphasizes the need for ongoing training and education for all staff involved in the process.

8. The document concludes by reiterating the importance of transparency and accountability in all business operations.

9. It is hoped that these guidelines will help organizations to improve their internal controls and reduce the risk of fraud.

10. The document is intended to serve as a comprehensive reference for all employees and management alike.

11. It is the responsibility of all staff to adhere to these guidelines and report any violations immediately.

12. The document is subject to periodic review and updates as needed to reflect changes in regulations and best practices.

13. It is the policy of the organization to maintain the highest standards of integrity and ethical conduct.

14. All employees are expected to act in the best interests of the organization and its stakeholders.

15. The document is a confidential document and should be handled accordingly.

16. It is the property of the organization and should not be distributed outside of the organization without prior approval.

17. Any unauthorized disclosure of this information may result in disciplinary action.

18. The document is effective as of the date of its issuance.

19. It is the responsibility of all employees to read and understand the contents of this document.

Job Site

PORT IRENE

Date

6-28-81

Sample No., Depth: No.

BH-5 ( m ~ m )

Technician

N. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth

BH-5 ( 0.0 m - 0.45 m )

Gs

2.66

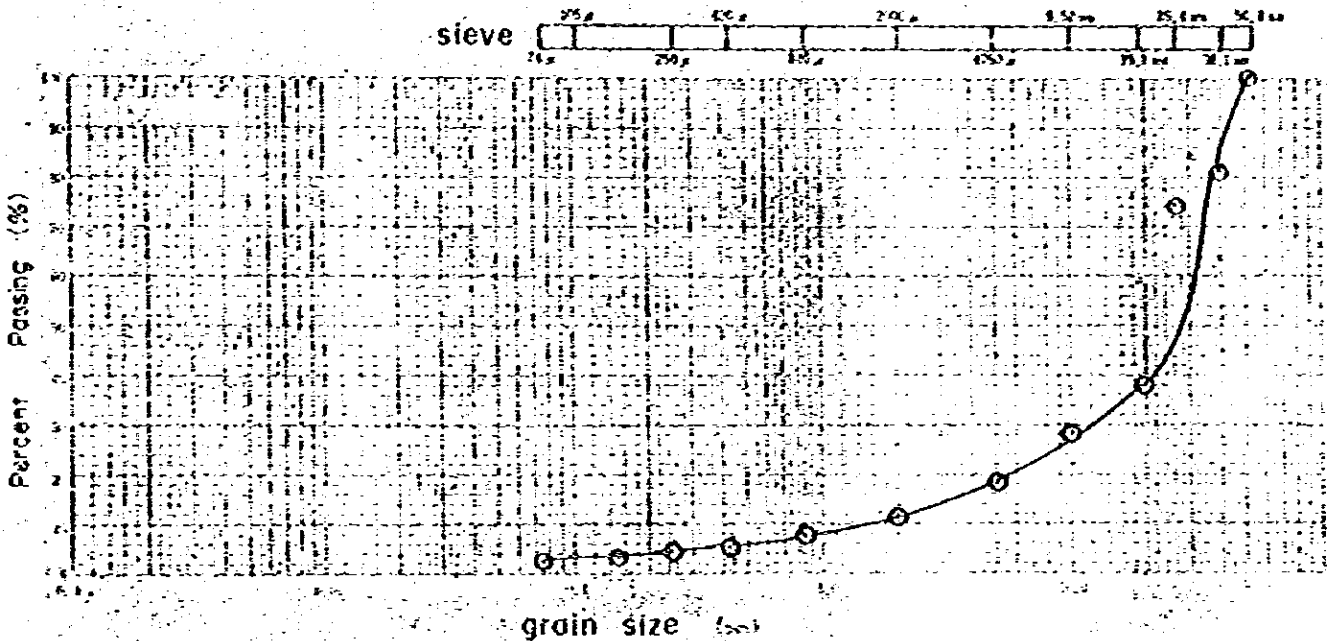
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %	100	81.0	74.5	38.3	28.6	18.8	11.5	7.3	5.2	3.9	3.1	2.3
Grain size mm												
Weight percent %												

Sample No., Depth

( m ~ m )

Gs

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %												
Grain size mm												
Weight percent %												



clay	silt	sand	gravel
------	------	------	--------

Sample No., Depth	N <sub>1</sub> BH-5 0.00 - 0.45	N <sub>2</sub> m ~ m	Sample No., Depth	N <sub>3</sub> BH-5 0.0 - 0.45	N <sub>4</sub> m ~ m
Grains in 4.76mm and larger	81.2 %	%	Max. grain size	50.8 mm	mm
Grains in 4.76 - 2mm	7.3 %	%	60 % (grain size)	12.2 mm	mm
Grains in 2 - 0.42mm	6.3 %	%	30 % (grain size)	10.0 mm	mm
Grains in 0.42 - 0.074mm	2.9 %	%	10 % (grain size)	1.7 mm	mm
Silt in 0.074 - 0.0075mm	2.3 %	%	Coefficient of uniformity	1.48	
Clays less than 0.0075mm	0 %	%	Coefficient of curvature	7.2	
Gravel less than 0.0075mm	0 %	%			
Percent by weight passing through 200µ sieve	11.5 %	%			
Percent by weight passing through 420µ sieve	5.2 %	%			
Percent by weight passing through 75µ sieve	2.3 %	%			



Job Site **PORT IRENB**

Date **6-28-81**

Sample No., Depth: No. **BH-5 ( m ~ m )**

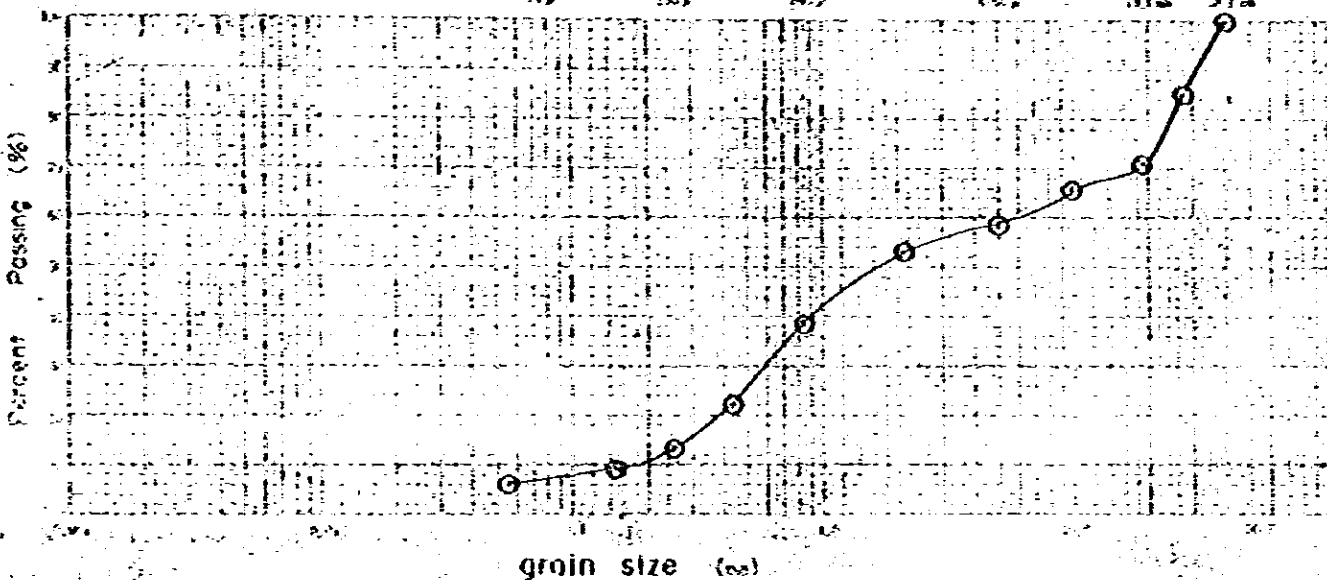
Technician **N. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-5 ( 3.0m - 3.45m )										Gs		2.67
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %		100	85.1	71.6	65.8	58.8	53.5	39.1	22.4	13.2	9.1	6.4	
Grain size mm													
Weight percent %													

Sample No., Depth	( m ~ m )										Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %												
Grain size mm												
Weight percent %												

sieve 200µ 420µ 840µ 1.7mm 3.5mm 7.0mm 14.0mm 28.0mm 56.0mm



clay silt sand gravel

Sample No., Depth	No. BH-5		Sample No., Depth		No. BH-5	
	3.0 m	3.45 m	3.0 m	3.45 m		
Grains in 75µm and larger	41.2	%	Max. grain size	38.1	mm	
Grains in 4.75 - 2mm	5.3	%	(9 % (grain size))	6.0	mm	
Grains in 2 - 0.42mm	31.1	%	(39 % (grain size))	0.6	mm	
Grains in 0.25 - 0.074mm	16.0	%	(10 % (grain size))	0.18	mm	
Silt in 0.075 - 0.006mm	6.4	%	Coefficient of uniformity	33.3		
Clays less than 0.006mm	0	%	Coefficient of curvature	0.3		
Coarse less than 0.075mm	0	%				
Percent by weight passing through 200µm sieve	53.5	%				
Percent by weight passing through 420µm sieve	22.4	%				
Percent by weight passing through 75µm sieve	6.4	%				



Job Site

PORT IRENE

Date

6-28-81

Sample No., Depth: No.

BH-5 ( m ~ m )

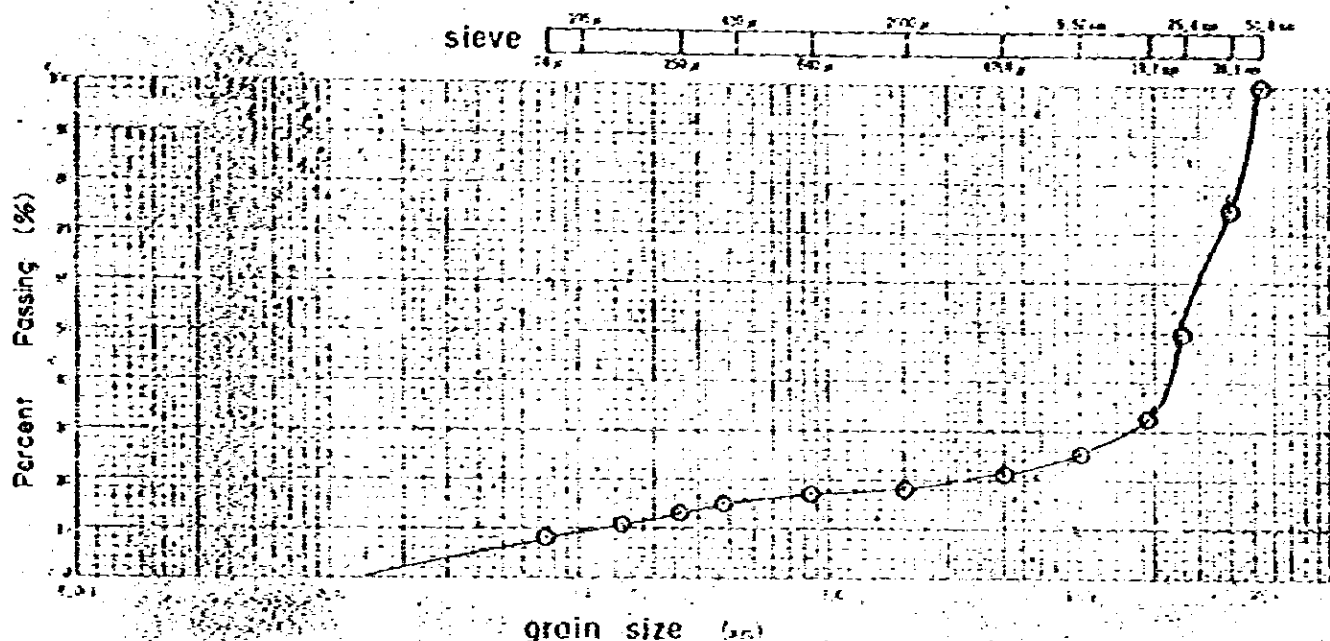
Technician

M. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth		BH-5 (6.00m ~ 6.45m)							Gs 2.61				
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %	100	75.8	49.9	32.2	25.2	21.4	18.2	16.8	15.1	13.2	10.5	7.9	
Hydro meter													
Grain size mm													
Weight percent %													

Sample No., Depth		( m ~ m )							Gs				
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %													
Hydro meter													
Grain size mm													
Weight percent %													



clay	silt	sand	gravel
------	------	------	--------

Sample No., Depth	BH-5		6.0 m - 6.45	
Grains in 4.76mm and larger	78.6	%	Max. grain size	50.8 mm
Grains in 4.76 - 2mm	3.2	%	60 % (grain size)	30.0 mm
Grains in 2 - 0.42mm	3.1	%	30 % (grain size)	16.0 mm
Grains in 0.42 - 0.075mm	7.2	%	16 % (grain size)	0.12 mm
Silt in 0.075 - 0.006mm	7.9	%	Coefficient of uniformity	250.0
Clays less than 0.006mm	0	%	Coefficient of curvature	71.1
Coarse less than 0.001mm	0	%		
Percent by weight passing through 200µ sieve	18.2	%		
Percent by weight passing through 420µ sieve	15.1	%		
Percent by weight passing through 75µ sieve	7.9	%		





Job Site **PORT TRENB**

Date **6-28-81**

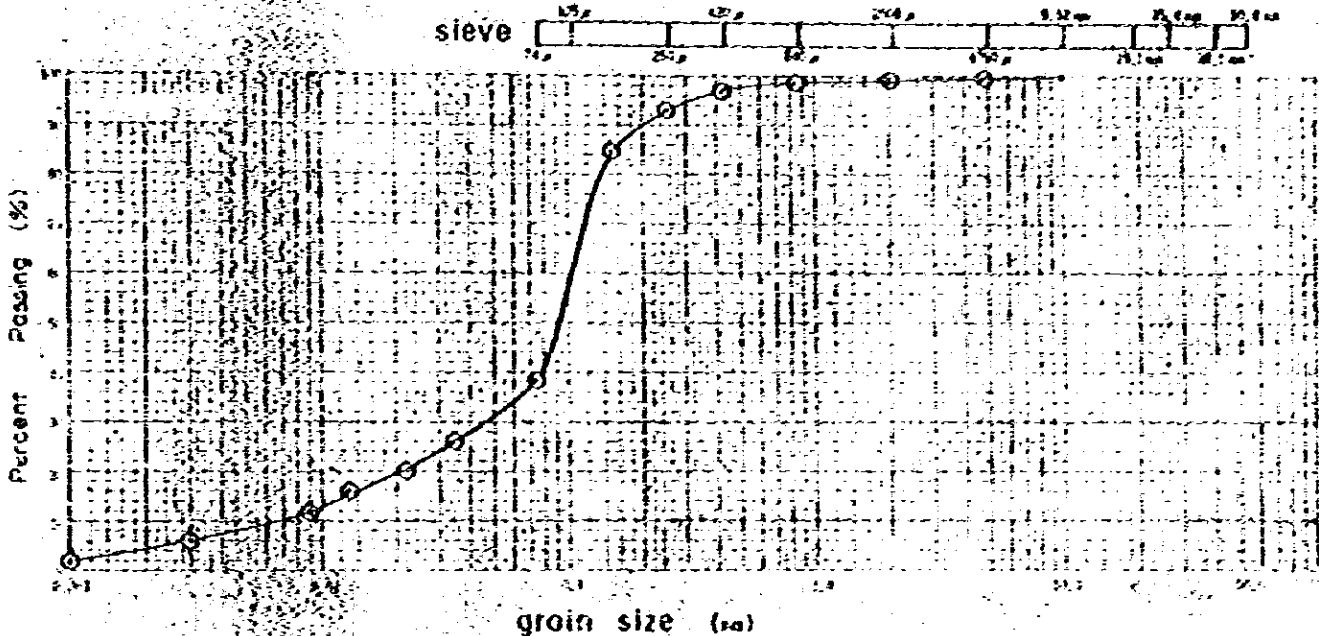
Sample No., Depth: No. **BH-5 (8.00 ~ 8.45m)**

Technician **H. Prado**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-5 (8.00 ~ 8.45m)											Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight Percent %				100	99.7	99.0	98.2	97.0	93.1	74.5	0	38.0	
Grain size mm	0.075	0.03	0.022	0.013	0.009	0.006	0.003	0.001					
Weight Percent %	36.1	26.1	20.0	16.0	12.0	10.0	6.0	2.0					

Sample No., Depth	( m ~ m )											Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight Percent %													
Grain size mm													
Weight Percent %													



clay (0.075) silt (0.075 - 0.006) sand (0.006 - 4.76) gravel (4.76 - 50.8)

Sample No., Depth	No. BH-5 8.00 ~ 8.45		Sample No., Depth		No. BH-5 8.00 ~ 8.45	
Grains in 4.76mm and larger	1.0	%	Max. grain size	9.52	mm	
Grains in 4.76 ~ 2mm	0.8	%	50 % (grain size)	0.102	mm	
Grains in 2 ~ 0.42mm	5.1	%	30 % (grain size)	0.075	mm	
Grains in 0.42 ~ 0.075mm	55.1	%	10 % (grain size)	0.009	mm	
Silt in 0.075 - 0.006mm	29.0	%	Coefficient of uniformity	14.6		
Clays less than 0.006mm	7.0	%	Coefficient of curvature	3.1		
Clays less than 0.001mm	2.0	%				
Percent by weight passing through 200µ sieve	98.2	%				
Percent by weight passing through 420µ sieve	93.1	%				
Percent by weight passing through 75µ sieve	38.0	%				

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in financial operations. This section also highlights the role of internal controls in preventing fraud and errors.

2. The second part of the document focuses on the implementation of robust risk management strategies. It outlines various risk assessment techniques and provides guidance on how to identify, measure, and mitigate potential risks. The text stresses the need for a proactive approach to risk management to protect the organization's assets and reputation.

3. The third part of the document addresses the importance of effective communication and reporting. It discusses the need for clear and concise communication channels and the role of regular reporting in keeping stakeholders informed. This section also touches upon the importance of data security and the need for strong cybersecurity measures to protect sensitive information.

4. The fourth part of the document discusses the importance of continuous improvement and innovation. It encourages organizations to regularly review their processes and procedures to identify areas for improvement and to embrace new technologies and practices. This section also highlights the importance of fostering a culture of innovation and learning within the organization.

5. The fifth and final part of the document provides a summary of the key points discussed and offers concluding thoughts on the overall importance of these practices. It reiterates that a strong foundation in these areas is crucial for the long-term success and sustainability of any organization.

**JIS A 1204 Method of Grain-Size Analysis of Soils Report Form**

Job Site **PORT IRVIE** Date **6-28-81**  
 Sample No., Depth: No. **BH-5 (12.0-12.45)** Technician **N. PRADO**

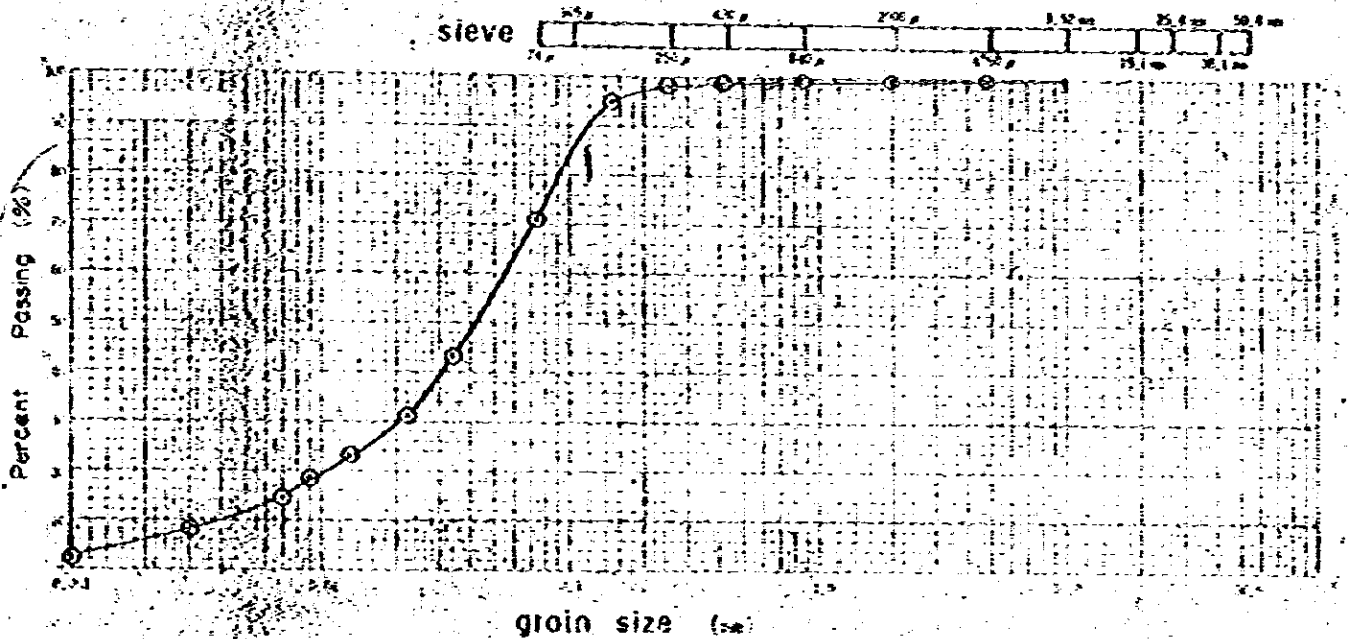
Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth **BH-5 (12.0-12.45)** Gs **2.54**

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.81	0.42	0.25	0.105	0.074
Weight Percent %					100	99.6	99.3	99.2	98.9	98.0	95.0	70.8
Grain size mm	0.075	0.050	0.025	0.015	0.009	0.007	0.003	0.001				
Weight Percent %	51.0	43.2	30.8	22.6	18.5	14.4	8.2	2.1				

Sample No., Depth ( ) Gs

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.81	0.42	0.25	0.105	0.074
Weight Percent %												
Grain size mm												
Weight Percent %												



clay silt sand gravel

Sample No., Depth	N <sub>1</sub> BH-5 12.0-12.45	N <sub>2</sub> 12.0-12.45	Sample No., Depth	N <sub>1</sub> BH-5 12.0-12.45	N <sub>2</sub> 12.0-12.45
Grains in 4.76mm and larger	0.4 %	%	Max. grain size	9.52 mm	mm
Grains in 2.0 - 4.76mm	0.3 %	%	63 µ (grain size)	.055 mm	mm
Grains in 0.42mm - 2.0mm	0.6 %	%	30 µ (grain size)	.02 mm	mm
Grains in 0.075 - 0.42mm	28.1 %	%	10 µ (grain size)	.004 mm	mm
Grains in 0.004 - 0.06mm	58.8 %	%	Coefficient of uniformity	13.8	
Clays less than 0.005mm	9.9 %	%	Coefficient of curvature	1.8	
Clays less than 0.001mm	2.1 %	%			
Percent finer than 200µ sieve	99.3 %	%			
Percent finer than 420µ sieve	98.9 %	%			
Percent finer than 75µ sieve	70.8 %	%			



Job Site **PORT IRONE**

Date **6-28-81**

Sample No., Depth: No. **BH-5 (16.0 m ~ 16.45 m)**

Technician **N. PRADO**

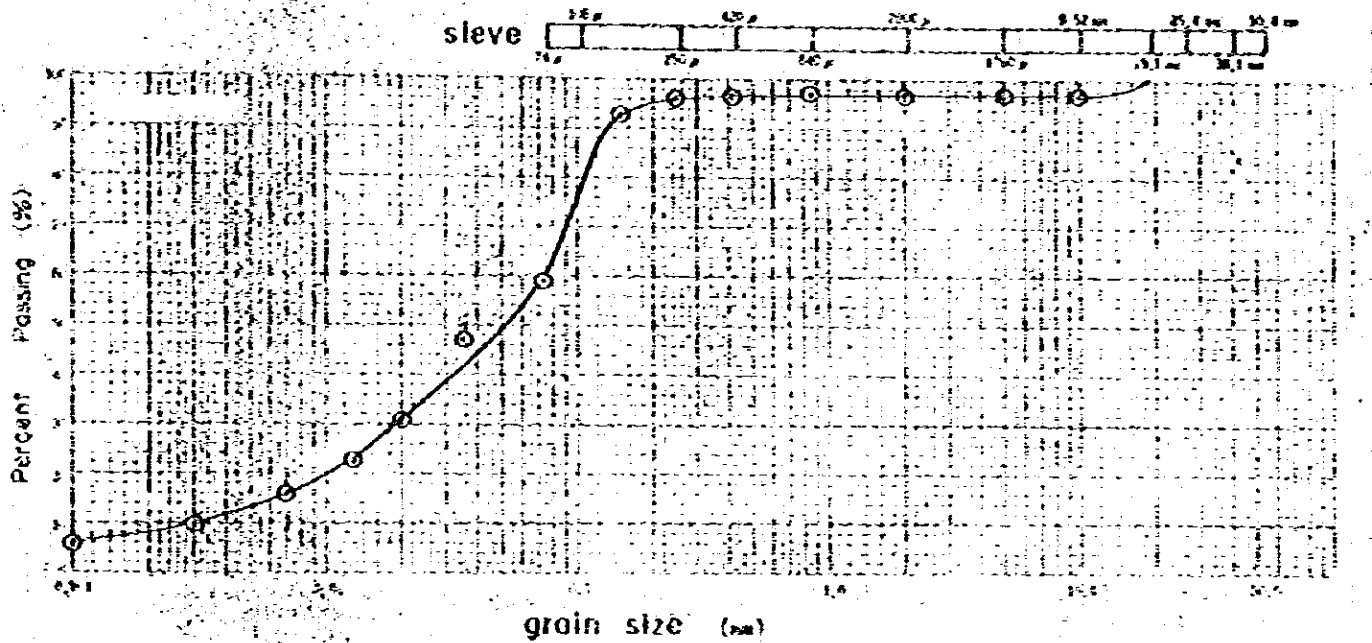
Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing.

Sample No., Depth **BH - 5 (16.0 m ~ 16.45 m)**  $G_s$  **2.56**

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight Percent %				100	97.0	97.0	97.0	96.6	96.6	96.1	92.4	59.0
Grain size mm	0.3	0.33	0.22	0.13	0.09	0.07	0.03	0.01				
Weight Percent %	49.0	47.0	30.7	22.5	18.4	16.4	10.2	6.1				

Sample No., Depth **( m ~ m )**  $G_s$

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight Percent %												
Grain size mm												
Weight Percent %												



clay (0.075 - 0.425 mm)    silt (0.425 - 0.075 mm)    sand (0.075 - 75 mm)    gravel (> 75 mm)

Sample No., Depth	<b>No. BH-5</b>	$M$	$n$	Sample No., Depth	<b>No. BH-5</b>	$M$	$n$
Grains in 4.76mm and larger	<b>3.0</b> %	%	%	Max. grain size	<b>9.52</b> mm		mm
Grains in 4.76 - 2mm	<b>0</b> %	%	%	60 % (grain size)	<b>0.075</b> mm		mm
Grains in 2 - 0.425mm	<b>0.4</b> %	%	%	30 % (grain size)	<b>0.019</b> mm		mm
Grains in 0.425-0.075mm	<b>37.6</b> %	%	%	10 % (grain size)	<b>0.003</b> mm		mm
Silt in 0.075-0.003mm	<b>36.0</b> %	%	%	Coefficient of uniformity	<b>25.0</b>		
Clays less than 0.003mm	<b>6.9</b> %	%	%	Coefficient of curvature	<b>1.6</b>		
Coarse less than 0.001mm	<b>6.1</b> %	%	%				
Percent of weight passing through 200µ sieve	<b>97.0</b> %	%	%				
Percent by weight passing through 420µ sieve	<b>96.6</b> %	%	%				
Percent by weight passing through 75 µ sieve	<b>59.0</b> %	%	%				



**JIS A 1204 Method of Grain - Size Analysis of Soils Report Form**

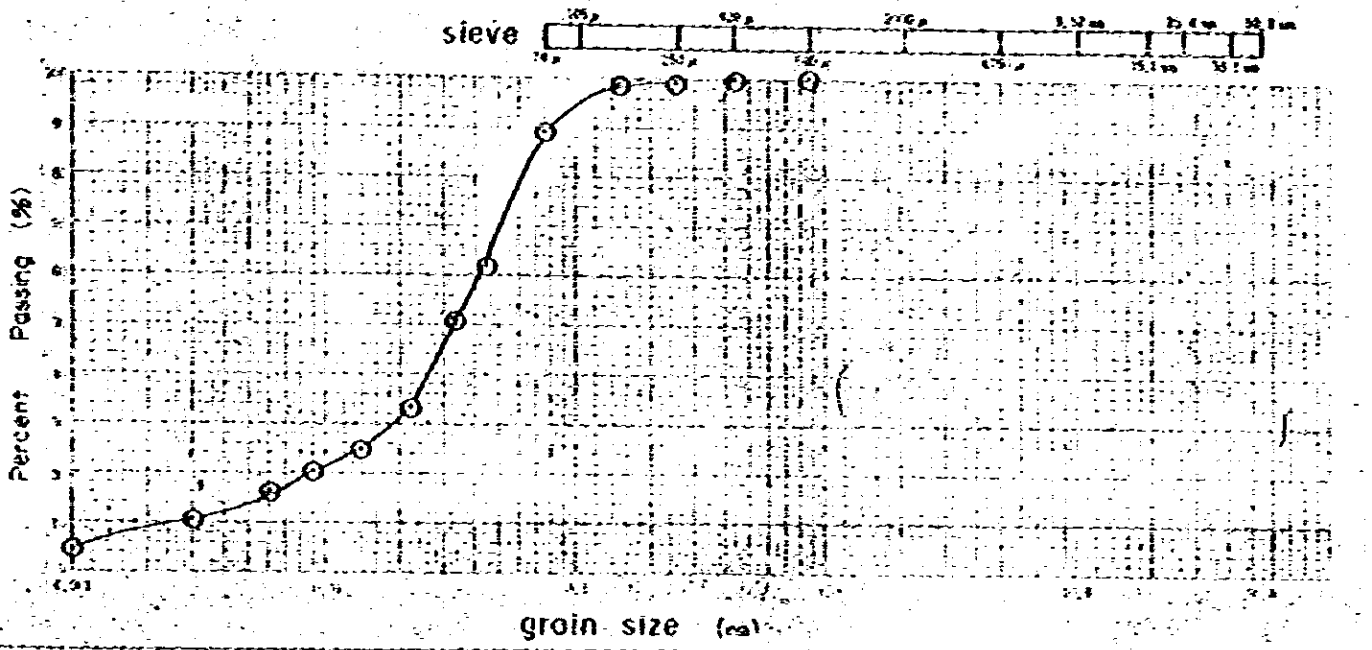
Job Site **PORT TRENK** Date **6-28-81**

Sample No., Depth: No. **BH-5 ( m ~ m )** Technician **N. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	BH-5 (20.0m-20.45m)							Gs	2.53				
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %								100	99.8	99.6	99.1	89.8	
Grain size mm	0.075	0.033	0.022	0.014	0.009	0.007	0.003	0.001					
Weight percent %	61.8	51.6	32.9	24.7	20.6	16.5	10.3	4.1					

Sample No., Depth	( m ~ m )							Gs					
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %													
Grain size mm													
Weight percent %													



Soil Classification: **clay** (0-2%), **silt** (25.8%), **sand** (73.8%), **gravel** (0%)

Sample No., Depth	No. BH-5		Sample No., Depth	No. BH-5	
	n	m		n	m
Grains in 4.75mm and larger	0	%	Max. grain size	0.84	mm
Grains in 4.75 - 2mm	0	%	60 % (grain size)	0.42	mm
Grains in 2 - 0.42mm	0.2	%	30 % (grain size)	0.019	mm
Grains 0.42 - 0.075mm	10.0	%	10 % (grain size)	0.0028	mm
Silt (0.075 - 0.0075mm)	75.8	%	Coefficient of uniformity	15.0	
Clays less than 0.0075mm	9.9	%	Coefficient of curvature	3.1	
Gravel less than 0.001mm	4.1	%			
Percent by weight passing through 200µ sieve	0	%			
Percent by weight passing through 425µ sieve	99.8	%			
Percent by weight passing through 75µ sieve	89.8	%			

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

2. The second part of the document delves into the specific requirements for record-keeping, including the types of documents that must be retained and the duration for which they should be kept. It provides a detailed overview of the various categories of records, such as financial statements, contracts, and correspondence, and outlines the best practices for organizing and storing these documents to ensure they are easily accessible and secure.

3. The third part of the document addresses the challenges associated with record-keeping, particularly in the context of digital information. It discusses the risks of data loss, corruption, and unauthorized access, and offers strategies to mitigate these risks. This includes the use of secure storage solutions, regular backups, and access controls to protect sensitive information.

4. The fourth part of the document provides a comprehensive overview of the legal and regulatory framework governing record-keeping. It highlights the various laws and regulations that apply to different types of records and industries, and explains how these requirements may vary across different jurisdictions. This section is particularly useful for organizations operating in multiple regions or those subject to specific regulatory oversight.

5. The fifth part of the document offers practical advice and tips for implementing an effective record-keeping system. It covers topics such as developing a clear policy, training staff, and utilizing technology to streamline the process. The document also provides a checklist of key considerations to ensure that the record-keeping system is robust, compliant, and easy to maintain over time.

6. The sixth part of the document discusses the benefits of a well-implemented record-keeping system. It highlights how accurate records can improve decision-making, enhance operational efficiency, and provide a clear audit trail. Additionally, it emphasizes the role of records in dispute resolution and the protection of intellectual property, underscoring the long-term value of a strong record-keeping practice.

7. The seventh part of the document provides a summary of the key points discussed throughout the document. It reiterates the importance of record-keeping and offers a final set of recommendations for organizations looking to optimize their record-keeping practices. This section serves as a helpful reference for anyone seeking to ensure their records are accurate, secure, and compliant with all applicable laws and regulations.





1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

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4. The fourth part of the document focuses on the role of record-keeping in legal proceedings. It explains how well-maintained records can serve as crucial evidence in court cases, helping to establish the facts of a matter and support a party's claims or defenses. It also highlights the importance of preserving records in their original form or as certified copies to ensure their admissibility in legal proceedings.

5. The fifth part of the document provides a summary of the key points discussed and offers final thoughts on the importance of record-keeping. It reiterates that maintaining accurate records is not just a legal obligation but also a best practice for any individual or organization seeking to operate with integrity and transparency. The document concludes by encouraging readers to take proactive steps to ensure their records are up-to-date, accurate, and secure.

Job, Site PORT IRENE

Date 6-27-81

Technician H. PRADO

Sample No., Depth		Liquid limit Test		Plastic limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	10	46.6	1	25.2	
2	15	45.6	2	25.7	
3	25	45.9	3		
4	30	43.5			
5	45	43.2			
6			Average	25.5	
Liquid limit $w_L$		Plastic limit $w_p$		Plasticity index $I_p$	
45.0 %		25.5 %		19.5	

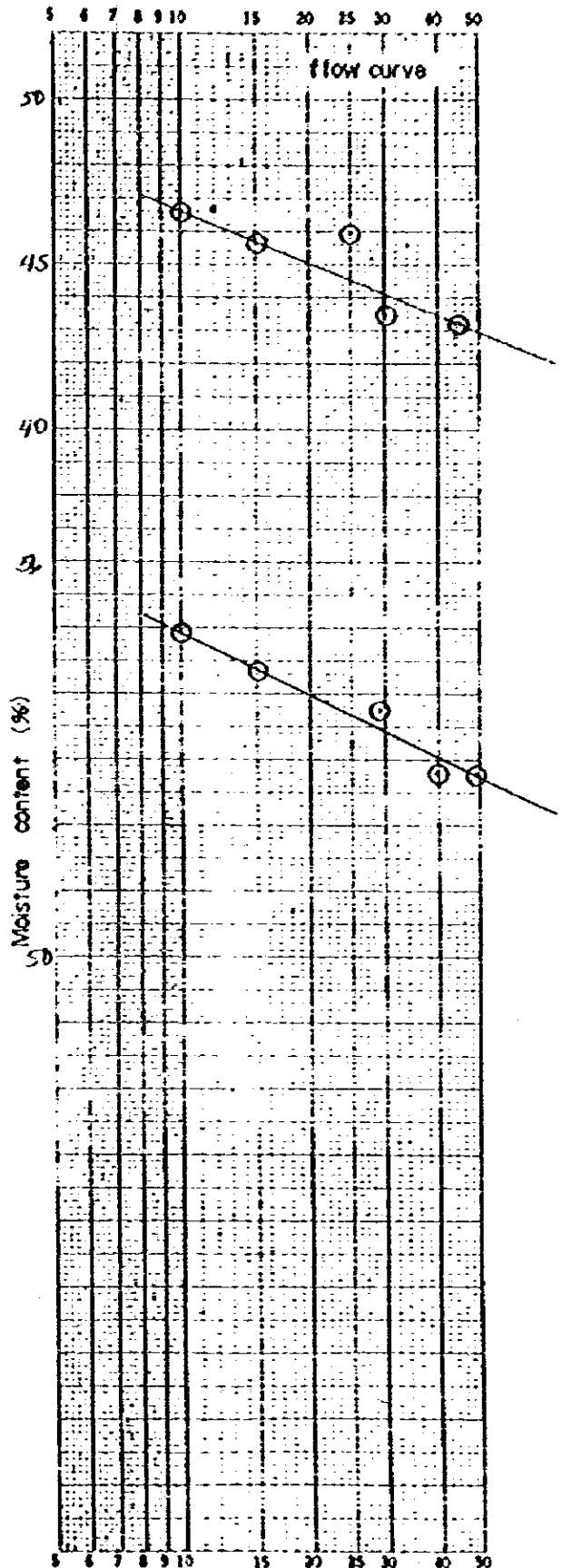
Remarks: describe preparation method of the sample and etc.

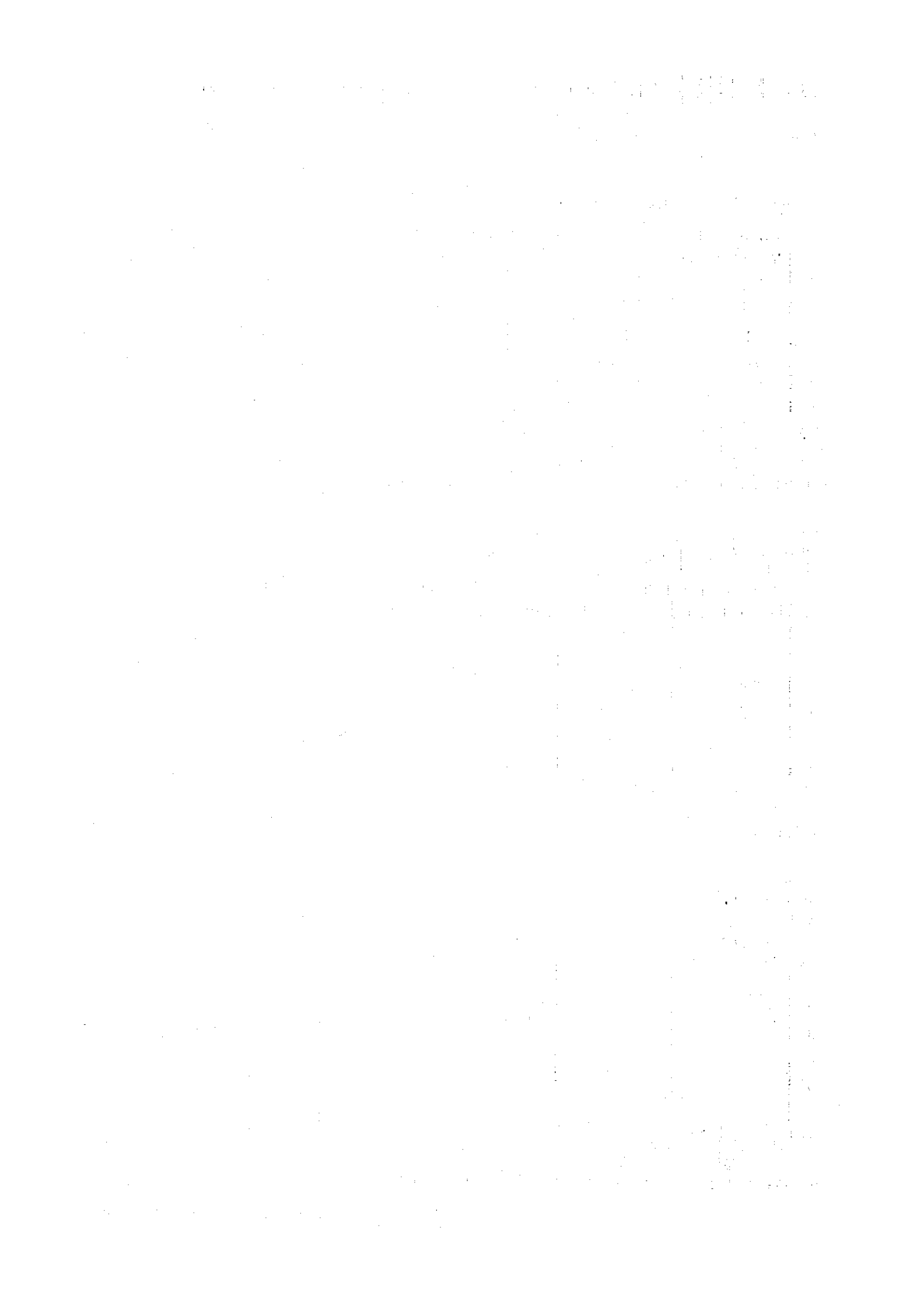
Sample No., Depth		Liquid limit Test		Plastic limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %	
1	10	55.1	1	30.2	
2	15	54.4	2	29.8	
3	28	53.8	3		
4	40	52.8			
5	50	52.8	Ave.	30.0	
6					
Liquid limit $w_L$		Plastic limit $w_p$		Plasticity index $I_p$	
53.8 %		30.0 %		23.8	

Remarks: describe preparation method of the sample and etc.

Sample No., Depth		Liquid limit Test		Plastic limit Test	
No.	No. of blows	Moisture content %	No.	Moisture content %	
1			1		
2			2		
3			3		
4					
5					
6					
Liquid limit $w_L$		Plastic limit $w_p$		Plasticity index $I_p$	
%		%			

Remarks: describe preparation method of the sample and etc.





Job, Site PORT IRONS Date June 28, 1981  
 Technician /H. PRADO

Sample No., Depth	No. BH-5 (00-0.75 m)			No. BH-5 (3.0-3.15 m)			
	Test No	1	2	3	1	2	3
Pycnometer No		23	25	27	62	54	53
Weight of pycnometer + oven dried soil (wet soil) + water Wb g		158.93	159.51	157.01	155.36	149.58	158.29
Temperature of content when Wb is made		9°C	9°C	9°C	9°C	9°C	9°C
W. of oven dried soil	container No						
pycnometer	Weight (container + dried soil) g						
	Wt of container g						
	W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>0</sub> g		149.52	150.1	142.75	145.75	140.2	148.92
	W <sub>1</sub> + (W <sub>0</sub> - W <sub>1</sub> ) g	5.59	5.59	5.74	5.60	5.52	5.53
Specific Gravity of T°C $\frac{W_1}{W_1 + (W_0 - W_1)}$		2.68	2.68	2.61	2.67	2.67	2.65
② Compensation coefficient K							
Specific Gravity at 15°C $\frac{W_1}{W_1 + (W_0 - W_1)} = K \times G_s$		2.68	2.68	2.61			
Average Value		G <sub>s</sub> (T°C/15°C) = 2.65 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.67 g/cm <sup>3</sup>		
Remarks							

(Note) (1) is obtained from attached inspection table of pycnometer (2) is from JIS.

Sample No., Depth	No. ( m ~ m )			No. ( m ~ m )			
	Test No	1	2	3	1	2	3
Pycnometer No							
Weight of pycnometer + oven dried soil (wet soil) + water Wb g							
Temperature of content when Wb is made							
W. of oven dried soil	container No						
pycnometer	Weight (container + dried soil) g						
	Wt of container g						
	W <sub>1</sub> g						
① Converted weight of T°C (container + distilled water) W <sub>0</sub> g							
	W <sub>1</sub> + (W <sub>0</sub> - W <sub>1</sub> ) g						
Specific Gravity of T°C $\frac{W_1}{W_1 + (W_0 - W_1)}$							
② Compensation coefficient K							
Specific Gravity at 15°C $\frac{W_1}{W_1 + (W_0 - W_1)} = K \times G_s$							
Average Value		G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>		
Remarks							

(Note) (1) is obtained from attached inspection table of pycnometer (2) is from JIS



JIS A 1202	Determination of the Specific Gravity of Soil	Reporting paper
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Job, Site PORT IRENE Date 6-25-81

Technician N. PRADO

Sample No., Depth	No. BH-5 (6.0m-6.4m)			No. BH-5 (8.0m-8.4m)		
	Test No	1	2	3	1	2
Pycnometer No	89	33	34	64	54	66
Weight of pycnometer + oven dried soil (wet soil) + water Wb g	155.8	156.0	161.31	152.5	149.45	159.9
Temperature of content when Wb is meas.	9 °C	9 °C	9 °C	9 °C	9 °C	9 °C
W. of oven dried soil pycnometer.	container No					
	Weight (container + dried soil) g					
	W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g	146.39	146.58	151.93	143.08	140.10	150.64
W <sub>2</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g	5.59	5.58	5.62	5.58	5.65	5.74
Specific Gravity of T°C $\frac{W_2}{W_2 - W_1} = \frac{W_2}{W_2 - W_1}$	2.68	2.68	2.66	2.68	2.65	2.61
② Compensation coefficient K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity of 15°C $\frac{W_2}{W_2 - W_1} = K \times G_s \left( \frac{T}{15} \right)$	2.68	2.68	2.66	2.68	2.65	2.61
Average Value	G <sub>s</sub> (T°C/15°C) = 2.64 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.67 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer ② is from JIS.

Sample No., Depth	No. BH-5 (12.8-12.4m)			No. BH-5 (16.0m-16.4m)		
	Test No	1	2	3	1	2
Pycnometer No.	62	63	43	36	56	63
Weight of pycnometer + oven dried soil (wet soil) + water Wb g	155.1	154.7	161.0	161.0	152.26	154.8
Temperature of content when Wb is meas.	9 °C	9 °C	9 °C	9 °C	9 °C	9 °C
W. of oven dried soil pycnometer.	container No					
	Weight (container + dried soil) g					
	W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g	145.96	145.60	151.94	151.93	143.05	145.6
W <sub>2</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g	5.86	5.90	5.94	5.93	5.73	5.8
Specific Gravity of T°C $\frac{W_2}{W_2 - W_1} = \frac{W_2}{W_2 - W_1}$	2.56	2.54	2.53	2.52	2.59	2.58
② Compensation coefficient K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity of 15°C $\frac{W_2}{W_2 - W_1} = K \times G_s \left( \frac{T}{15} \right)$	2.56	2.54	2.53	2.52	2.59	2.58
Average Value	G <sub>s</sub> (T°C/15°C) = 2.54 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.56 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.





Job, Site

PORT IRENE

Date

6-25-81

Technician

N. PRADO

Sample No., Depth	No. BH-5 (20.0~20.45)			No. BH-5 (25.0~25.14)		
	1	2	3	1	2	3
Test No.						
Pycnometer No.	50	67	89	65	25	93
Weight of pycnometer + oven dried soil (wet soil) + water Wb g	157.0	151.7	155.46	152.1	157.83	158.69
Temperature of content when Wb is meas	9 °C	9 °C	9 °C	9 °C	9 °C	9 °C
W. of oven dried soil in pycnometer.	container No.					
	Weight (container + dried soil) g					
	Wt of container g					
W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g	147.76	142.75	146.39	143.02	148.73	149.52
W <sub>2</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g	5.76	6.05	5.93	5.92	5.90	5.83
Specific Gravity at T°C, $\frac{T°C}{15°C} = \frac{W_1}{W_2 + (W_1 - W_2)}$	2.60	2.48	2.53	2.53	2.54	2.57
② Compensation coefficient K	1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C, $\frac{T°C}{15°C} = K \times G_s \frac{T°C}{15°C}$	2.60	2.48	2.53	2.53	2.54	2.57
Average Value	G <sub>s</sub> (T°C/15°C) = 2.53 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.54 g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.

Sample No., Depth	No. ( m ~ n )			No. ( m ~ n )		
	1	2	3	1	2	3
Test No.						
Pycnometer No.						
Weight of pycnometer + oven dried soil (wet soil) + water Wb g						
Temperature of content when Wb is meas.						
W. of oven dried soil in pycnometer.	container No.					
	Weight (container + dried soil) g					
	Wt of container g					
W <sub>1</sub> g						
① Converted weight of T°C (container + distilled water) W <sub>a</sub> g						
W <sub>2</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g						
Specific Gravity at T°C, $\frac{T°C}{15°C} = \frac{W_1}{W_2 + (W_1 - W_2)}$						
② Compensation coefficient K						
Specific Gravity at 15°C, $\frac{T°C}{15°C} = K \times G_s \frac{T°C}{15°C}$						
Average Value	G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>		
Remarks						

(Note) ① is obtained from attached inspection table of pycnometer. ② is from JIS.



## 2. BOTTOM SAMPLING



# Results of Soil Test

Site of Investigate PORT IRZNE SS Recorder N. PRADG.

Sample		No. SS	1 A	1 B	2 A	2 B	3 A	3 B
Depth		METER m	SS-1	SS-1	SS-2	SS-2	SS-3	SS-3
Grain size analysis	Gravel	(> 2000 $\mu$ ) %	2.6	2.8	0	0	0	0
	Sand	(74-2000 $\mu$ ) %	81.7	80.9	43.2	50.3	15.7	30.7
	Silt	(5 ~ 74 $\mu$ ) %	15.5	16.3	54.8	47.7	79.1	65.1
	Clay	(< 5 $\mu$ ) %			2.0	2.0	5.0	4.0
	Max. diameter	mm	2.00	2.00	0.84	0.84	2.00	2.00
	Coefficient of uniformity	Uc	1.4	1.47	5.7	3.8	3.8	3.5
	Coefficient of curvature	Uc	0.91	.84	2.14	1.1	1.5	2.6
Consistency	Liquid limit	WL %						
	Plastic limit	Wp %						
	Plasticity index	Ip						
Classification	Triangular classification chart		<i>silly sand</i>	<i>silly sand</i>	<i>sandy silt</i>	<i>sandy silt</i>	<i>sandy silt</i>	<i>sandy silt</i>
	Plasticity chart							
Specific gravity of soil particles Gs			2.49	2.49	2.45	2.45	2.54	2.54
Natural state	Water content	W %	31.4	31.4	46.7	44.7	47.0	45.7
	Wet unit weight	$\gamma_t$ g/cm <sup>3</sup>						
	Void ratio	e						
	Degree of saturation	Sr %						
Mechanical characteristics	Unconfined compression test	Unconfined compressive strength	Qu kg/cm <sup>2</sup>					
		Secant modulus	E <sub>50</sub> kg/cm <sup>2</sup>					
		Sensitivity ratio	St					
	Single shear test	Testing condition						
		Cohesion	C kg/cm <sup>2</sup>					
		Angle of shearing resistance	$\phi$ °					
Triaxial compression test	Testing condition							
	Cohesion	C kg/cm <sup>2</sup>						
	Angle of shearing resistance	$\phi$ °						
Consolidation test	Consolidation yielding pressure	P <sub>y</sub> kg/cm <sup>2</sup>						
	Compression index	Cc						

Remarks :



# Results of Soil Test

Site of investigate PORT IRANI

Recorder H. PRADO

Sample No.		4 A	4 B	5 A	5 B	
Depth	METER m	SS-4	SS-4	SS-5	SS-5	
Grain size analysis	Gravel (> 2000 $\mu$ ) %	0	0	0.2	0	
	Sand (74-2000 $\mu$ ) %	1.7	1.1	32.0	26.7	
	Silt (5 ~ 74 $\mu$ ) %	86.3	81.9	61.8	54.3	
	Clay (< 5 $\mu$ ) %	12.0	14.0	6.0	2.0	
	Max. diameter mm	2.00	0.25	4.76	2.00	
	Coefficient of uniformity $U_c$	7.1	12.3	6.3	10.0	
	Coefficient of curvature $U_c$	1.8	2.9	1.8	2.4	
Consistency	Liquid limit WL %					
	Plastic limit Wp %					
	Plasticity index Ip					
Classification	Triangular classification chart	Mud	Mud	Sandy silt	Sandy silt	
	Plasticity chart	OL	OL	ML	ML	
Specific gravity of soil particles $G_s$		2.45	2.45	2.65	2.66	
Natural state	Water content W %	118.5	123.6	55.6	44.3	
	Wet unit weight $\gamma$ g/cm <sup>3</sup>					
	Void ratio e					
	Degree of saturation Sr %					
Mechanical characteristics	Unconfined compression test	Unconfined compressive strength $q_u$ kg/cm <sup>2</sup>				
		Secant modulus $E_s$ kg/cm <sup>2</sup>				
		Sensitivity ratio $S_t$				
	Single shear test	Testing condition				
		Cohesion C kg/cm <sup>2</sup>				
	Triaxial compression test	Testing condition				
		Cohesion C kg/cm <sup>2</sup>				
Consolidation test	Angle of shearing resistance $\phi$ °					
	Consolidation yielding pressure $P_y$ kg/cm <sup>2</sup>					
Compression index $C_c$						

Remarks :

The following table shows the results of the experiment. The first column is the number of trials, the second column is the number of correct responses, and the third column is the percentage of correct responses.

Trial	Correct	Percentage
1	1	100%
2	1	100%
3	1	100%
4	1	100%
5	1	100%
6	1	100%
7	1	100%
8	1	100%
9	1	100%
10	1	100%
11	1	100%
12	1	100%
13	1	100%
14	1	100%
15	1	100%
16	1	100%
17	1	100%
18	1	100%
19	1	100%
20	1	100%
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93	1	100%
94	1	100%
95	1	100%
96	1	100%
97	1	100%
98	1	100%
99	1	100%
100	1	100%



Job Site PORT IRENE

Date 6-26-81

Sample No., Depth: No. SS-1 ( m ~ m )

Technician H. PRADO

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth

SS-1A ( m ~ m )

Gs 2.49

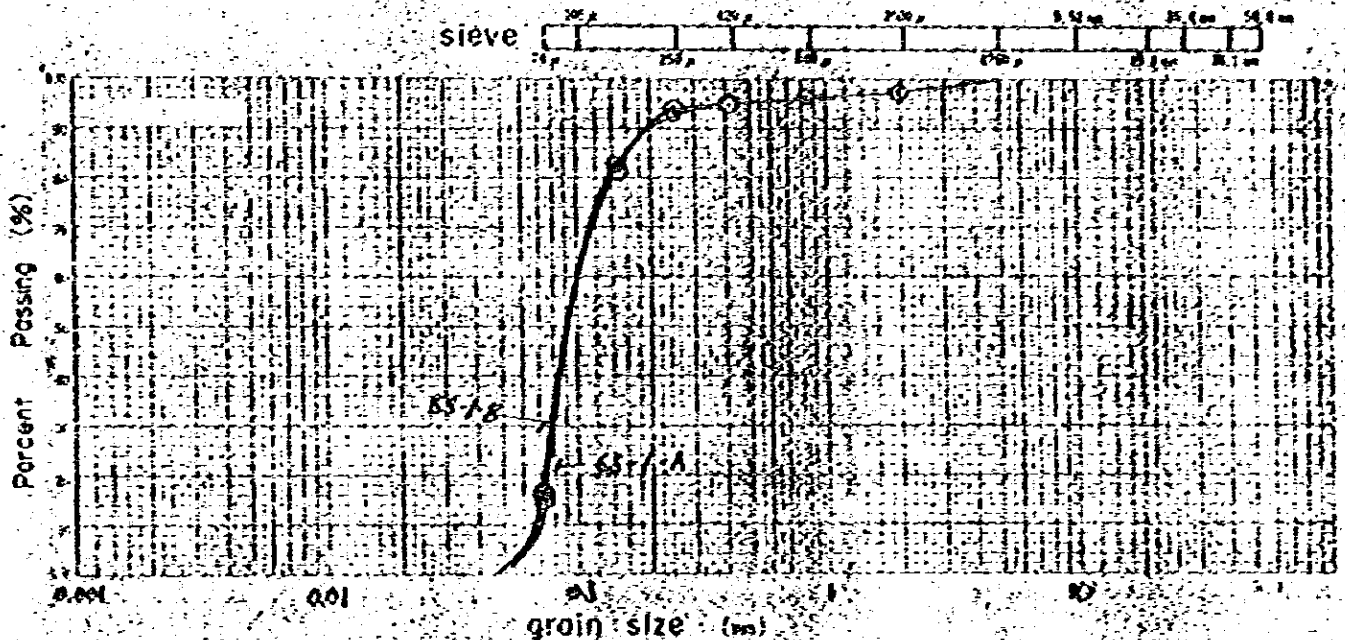
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight percent %						100	97.4	96.3	95.1	94.2	81.5	15.5
Grain size mm												
Weight percent %												

Sample No., Depth

SS-1B ( m ~ m )

Gs

Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight percent %							100	97.2	96.1	95.0	93.8	82.6	16.3
Grain size mm													
Weight percent %													



clay	silt	sand	gravel
------	------	------	--------

Sample No., Depth	SS-1A		SS-1B		Sample No., Depth	SS-1A		SS-1B	
	m	%	m	%		m	%	m	%
Grains in 4.76mm and larger	0	%	0	%	Max. grain size	2.00	mm	2.00	mm
Grains in 4.76 - 2mm	2.6	%	2.8	%	60 % (grain size)	.1	mm	.1	mm
Grains in 2 - 0.42mm	2.3	%	2.2	%	30 % (grain size)	.08	mm	.075	mm
Grains in 0.42 - 0.075mm	79.6	%	78.7	%	10 % (grain size)	.07	mm	.067	mm
Silt in 0.074 - 0.0075mm	15.5	%	16.3	%	Coefficient of uniformity	1.4		1.49	
Clays less than 0.006mm	0	%	0	%	Coefficient of curvature	0.91		0.84	
Coarse silt less than 0.001mm	0	%	0	%					
Percent by weight passing through 2.00mm sieve	97.4	%	97.2	%					
Percent by weight passing through 0.42mm sieve	95.1	%	95.0	%					
Percent by weight passing through 0.075mm sieve	15.5	%	16.3	%					

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BY CHARLES C. SMITH

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Job Site: PORT IRENE

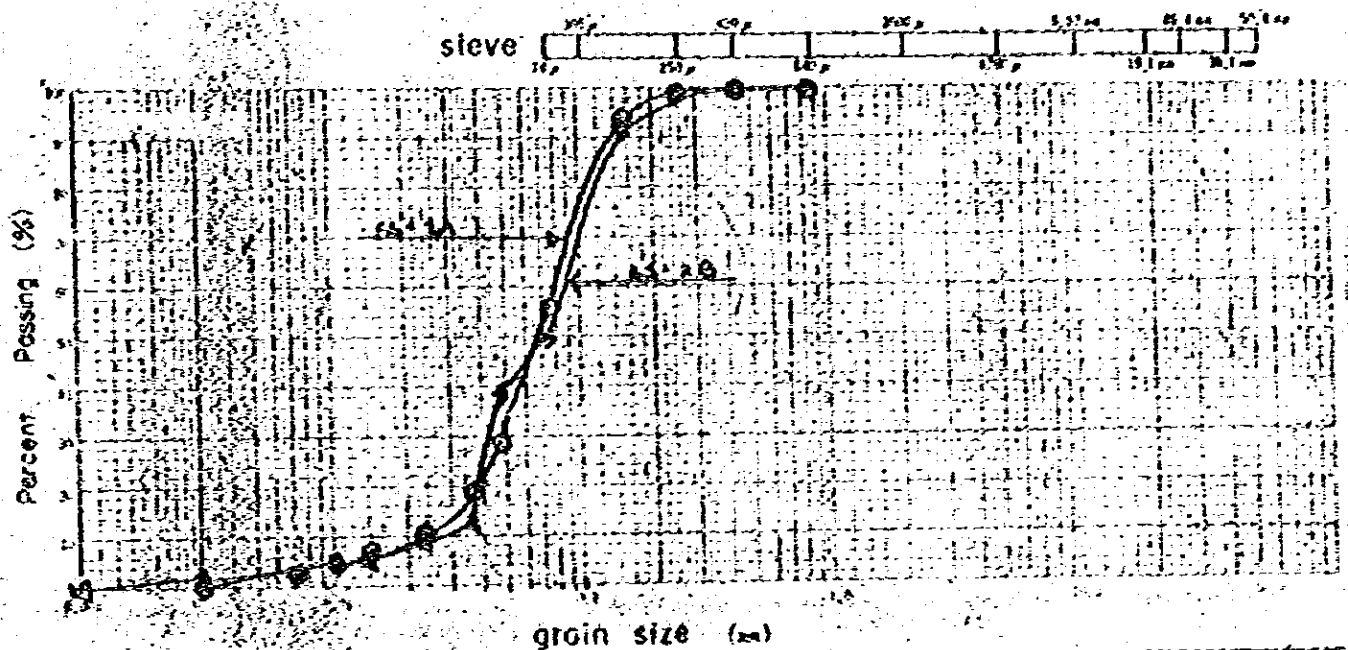
Date: 6-27-81

Sample No., Depth: No. SS-2 ( m ~ m ) Technician: N. PRADO

Table of relationship between grain size used for illustrating grain size accumulation curve and weight percent of total passing

Sample No., Depth		SS-2 A ( m ~ m )										Gs	2.45
Hydro meter sieve	Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
	Weight Percent %								100	99.8	99.5	94.5	56.8
Hydro meter sieve	Grain size mm	.047	.037	.023	.014	.010	.007	.003	.001				
	Weight Percent %	29.9	19.1	10.4	6.2	4.2	2.1	0					

Sample No., Depth		SS-2 B ( m ~ m )										Gs	
Hydro meter sieve	Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
	Weight Percent %								100	99.9	99.3	91.6	49.7
Hydro meter sieve	Grain size mm	.048	.036	.023	.014	.010	.007	.003	.001				
	Weight Percent %	39.6	12.5	8.3	4.2	4.2	2.1	2.1	0				



clay < 0.075 mm    silt 0.075 - 0.075 mm    sand 0.075 - 75 mm    gravel > 75 mm

Sample No., Depth	SS-2 A		SS-2 B		Sample No., Depth	SS-2 A		SS-2 B	
	m	%	m	%		m	%	m	%
Grains in 4.76mm and larger	0	%	0	%	Max. grain size	0.84	mm	0.84	mm
Grains in 2mm - 4.76mm	0	%	0	%	60 % (grain size)	.08	mm	.09	mm
Grains in 0.42mm - 2mm	0.2	%	0.1	%	30 % (grain size)	.049	mm	.049	mm
Grains in 0.074 - 0.075mm	43.0	%	50.2	%	10 % (grain size)	.014	mm	.024	mm
Silt in 0.074 - 0.075mm	56.8	%	47.7	%	Coefficient of uniformity	5.7		3.8	
Clays less than 0.0075mm	2.0	%	2.0	%	Coefficient of curvature	2.14		1.1	
Clays less than 0.001mm	0	%	0	%					
Percent of soil passing through 2.00mm sieve	0	%	0	%					
Percent by weight passing through 420µ sieve	99.8	%	99.9	%					
Percent by weight passing through 75µ sieve	56.8	%	49.7	%					



Job Site **PORT IRENE**

Date **6-27-81**

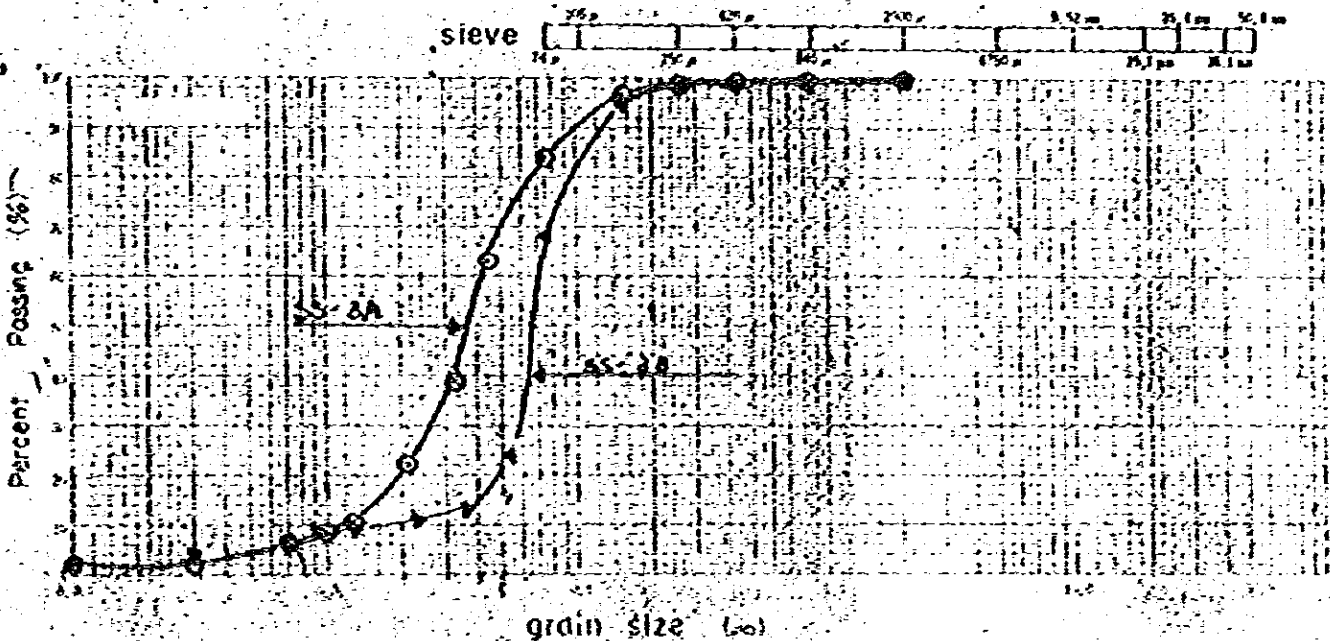
Sample No., Depth: No. **SS-3 ( m ~ m )**

Technician **N. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth		SS-3 A ( m ~ m )										Gs	2.54
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074	
Weight Percent %							100	99.9	99.6	99.2	97.2	84.1	
Grain size mm	.043	.033	.021	.013	.010	.006	.003	.001					
Weight Percent %	63.7	39.1	22.2	10.3	8.2	6.2	2.1	2.1					

Sample No., Depth		SS-3 B ( m ~ m )										Gs
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
Weight Percent %							100	99.7	99.5	99.2	95.0	69.1
Grain size mm	.051	.036	.023	.013	.009	.007	.003	.001				
Weight Percent %	24.4	12.3	10.3	8.2	8.2	6.2	4.1	2.1				



clay	silt	sand	gravel
------	------	------	--------

Sample No., Depth	No. SS-3 A		No. SS-3 B		Sample No., Depth	No. SS-3 A		No. SS-3 B	
	m	%	m	%		m	%	m	%
Grains in 4.75mm and larger	0	%	0	%	Max. grain size	2.00	mm	2.00	mm
Grains in 4.75 - 2.0mm	0	%	0	%	60 % (grain size)	.042	mm	.07	mm
Grains in 2.0 - 0.425mm	0.4	%	0.5	%	30 % (grain size)	.026	mm	.06	mm
Grains in 0.425 - 0.075mm	15.5	%	30.4	%	10 % (grain size)	.011	mm	.02	mm
Silt in 0.075 - 0.0075mm	79.1	%	65.1	%	Coefficient of uniformity	3.8		3.5	
Clays less than 0.0075mm	2.9	%	1.9	%	Coefficient of curvature	1.5		2.6	
Clays less than 0.001mm	2.1	%	2.1	%					
Percent by weight passing through 2000µ sieve	100	%	100	%					
Percent by weight passing through 420µ sieve	99.6	%	99.5	%					
Percent by weight passing through 75µ sieve	84.1	%	69.1	%					



Job Site **PORT IRENE**

Date **6-27-81**

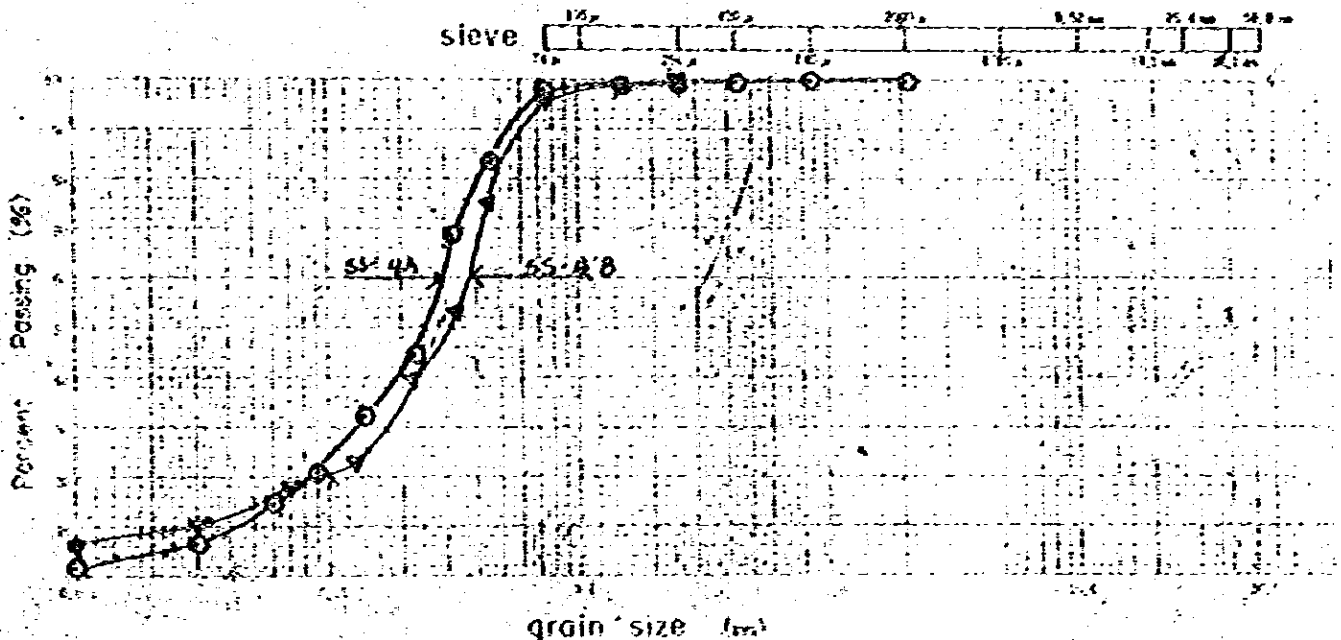
Sample No., Depth: No. **SS-4 ( m - m )**

Technician **N. PRADO**

Table of relationship between grain-size used for illustrating grain-size accumulation curve and weight percent of total passing

Sample No., Depth	SS-4 A ( m - m )											Gs	2.45
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.81	0.42	0.25	0.105	0.074	
Weight Percent %							100	99.7	99.3	99.0	98.7	98.2	
Hydro meter size mm	0.045	0.032	0.022	0.014	0.009	0.007	0.003	0.001					
Weight Percent %	73.6	69.4	44.2	32.2	21.0	14.7	6.3	2.1					

Sample No., Depth	SS-4 B ( m - m )											Gs	
Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.81	0.42	0.25	0.105	0.074	
Weight Percent %										100	99.5	98.9	
Hydro meter size mm	0.045	0.033	0.021	0.013	0.009	0.007	0.003	0.001					
Weight Percent %	75.7	52.6	40.0	23.1	18.9	16.8	10.5	6.3					



clay                      silt                      sand                      gravel

Sample No., Depth	SS-4 A		SS-4 B		Sample No., Depth	SS-4 A		SS-4 B	
	n	%	n	%		n	%	n	%
Grains in 4.76mm and larger	0	%	0	%	Max. grain size	2.00	mm	0.25	mm
Grains in 4.76 - 2mm	0	%	0	%	60 % (grain size)	.03	mm	.037	mm
Grains in 2 - 0.84mm	0.7	%	0	%	36 % (grain size)	.015	mm	.018	mm
Grains in 0.42-0.074mm	1.0	%	1.1	%	10 % (grain size)	.0042	mm	.003	mm
Silt in 0.074-0.006mm	86.3	%	84.9	%	Coefficient of uniformity	7.1		12.3	
Clays less than 0.002mm	9.9	%	7.7	%	Coefficient of curvature	1.8		2.9	
Coarse less than 0.001mm	2.1	%	6.3	%					
Percent by weight passing through 2000 mesh	100	%	0	%					
Percent by weight passing through 425 mesh	99.3	%	0	%					
Percent by weight passing through 75 mesh	98.2	%	98.9	%					





Job Site PORT IRENE

Date 6-27-81

Sample No., Depth: No. SS-5 ( m m )

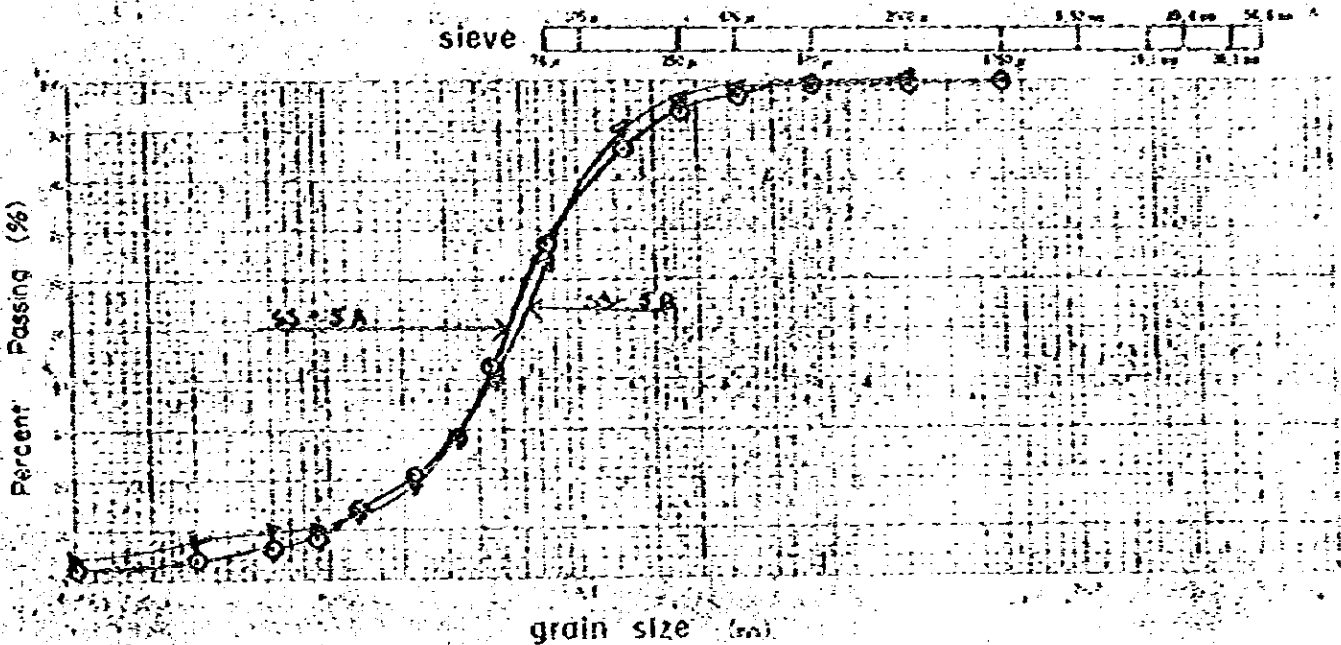
Technician H. PRADO

Table of relationship between grain size used for illustrating grain size accumulation curve and weight percent of total passing

Sample No., Depth		SS-5 A ( m m )										Gs	2.66
Hydro meter sieve	Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
	Weight percent %							100	99.8	98.9	97.2	94.4	86.1
Hydro meter sieve	Grain size mm	.045	.033	.021	.013	.009	.006	.003	.001				
	Weight percent %	43.9	27.9	21.9	13.9	8.0	6.0	4.0	2.0				

Sample No., Depth		SS-5 B ( m m )										Gs	2.66
Hydro meter sieve	Grain size mm	50.8	38.1	25.4	19.1	9.52	4.76	2.00	0.84	0.42	0.25	0.105	0.074
	Weight percent %							100	99.6	98.5	96.6	90.3	73.3
Hydro meter sieve	Grain size mm	.045	.033	.021	.013	.009	.006	.003	.001				
	Weight percent %	39.9	28.0	18.0	12.0	10.0	10.0	8.0	4.0				



Sample No., Depth	SS-5 A		SS-5 B		Sample No., Depth	SS-5 A		SS-5 B	
	m	%	m	%		m	%	m	%
Grains in 4.75mm and larger	0	%	0	%	Max. grain size	4.76	mm	2.00	mm
Grains in 4.75 - 2mm	0.2	%	0	%	60 % (grain size)	.063	mm	.07	mm
Grains in 2 - 0.425mm	2.6	%	1.5	%	30 % (grain size)	.034	mm	.034	mm
Grains in 0.425 - 0.075mm	29.4	%	25.2	%	10 % (grain size)	.01	mm	.007	mm
Soil in 0.075 - 0.006mm	61.8	%	64.3	%	Geometric uniformity	6.3		10.0	
Clays less than 0.002mm	4.0	%	5.0	%	Coefficient of curvature	1.8		2.4	
Coars less than 0.001mm	2.0	%	4.0	%					
Percent by weight passing through 200µ sieve	99.8	%	100	%					
Percent by weight passing through 420µ sieve	97.2	%	98.5	%					
Percent by weight passing through 75µ sieve	67.8	%	73.3	%					



Job, Site PORT IRENE Date 6-25-81

Technician H. PRADO

Sample No., Depth		No. SS-1 ( m~ m)			No. SS-2 ( m~ m)		
Test	No.	1	2	3	1	2	3
Pycnometer No.		59	32	49	38	33	55
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	157.3	154.64	151.9	158.5	155.54	160.2
Temperature of content when Wb is made		9 °C	9 °C	9 °C	9 °C	9 °C	9 °C
W. of oven dried soil in pycnometer.	container No.						
	Weight (container + dried soil) g						
	W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight at T°C (container + distilled water)	W <sub>a</sub> g	148.38	145.68	142.84	149.5	146.58	151.22
	W <sub>1</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g	6.08	6.04	5.94	6.0	6.04	6.02
Specific Gravity at T°C: $\frac{W_1}{W_1 + (W_2 - W_1)}$		2.47	2.48	2.52	2.50	2.48	2.49
② Compensation coefficient K		1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C: $\frac{W_1}{W_1 + (W_2 - W_1)} \times K$		2.47	2.48	2.52	2.50	2.48	2.49
Average Value		G <sub>s</sub> (T°C/15°C) = 2.49 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.49 g/cm <sup>3</sup>		
Remarks							

(Note) (1) is obtained from attached inspection table of pycnometer. (2) is from JIS.

Sample No., Depth		No. SS-3 ( m~ m)			No. SS-4 ( m~ m)		
Test	No.	1	2	3	1	2	3
Pycnometer No.		47	36	52	56	45	53
Weight of pycnometer + oven dried soil (wet soil) + water	Wb	154.99	158.60	157.1	151.9	158.4	157.8
Temperature of content when Wb is made		9 °C	9 °C	9 °C	9 °C	9 °C	9 °C
W. of oven dried soil in pycnometer.	container No.						
	Weight (container + dried soil) g						
	W <sub>1</sub> g	15.0	15.0	15.0	15.0	15.0	15.0
① Converted weight at T°C (container + distilled water)	W <sub>a</sub> g	145.95	149.5	147.96	143.05	149.5	148.93
	W <sub>1</sub> + (W <sub>1</sub> - W <sub>2</sub> ) g	5.96	5.90	5.86	6.15	6.10	6.13
Specific Gravity at T°C: $\frac{W_1}{W_1 + (W_2 - W_1)}$		2.52	2.54	2.55	2.44	2.46	2.45
② Compensation coefficient K		1.0007	1.0007	1.0007	1.0007	1.0007	1.0007
Specific Gravity at 15°C: $\frac{W_1}{W_1 + (W_2 - W_1)} \times K$		2.52	2.54	2.56	2.44	2.46	2.45
Average Value		G <sub>s</sub> (T°C/15°C) = 2.54 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = 2.45 g/cm <sup>3</sup>		
Remarks							

(Note) (1) is obtained from attached inspection table of pycnometer. (2) is from JIS.

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Job, Site PORT IRENE Date 6-25-81 Technician H. PRADG

Sample No., Depth	No. SS-5 ( m~ m)			No. ( m~ m)		
	1	2	3	1	2	3
Test No						
Pycnometer No.	85	49	144			
Weight of pycnometer + oven dried soil (wet soil) + water Wb g	159.3	152.3	157.5			
Temperature of content when Wb is meas.	9 °C	9 °C	9 °C			
W. of oven dried soil in pycnometer.	container No.					
	Weight (container + dried soil) g					
	Wt of container g					
W <sub>1</sub> g	15.0	15.0	15.0			
① Converted weight at T°C (container + distilled water) W <sub>2</sub> g	150.1	142.84	148.05			
W <sub>1</sub> + (W <sub>2</sub> - W <sub>1</sub> ) g	5.8	5.54	5.55			
Specific Gravity at T°C: $\frac{W_1}{W_1 + (W_2 - W_1)}$	2.59	2.70	2.70			
② Compensation coefficient K	1.0007	1.0007	1.0007			
Specific Gravity at 15°C: $\frac{W_1}{W_1 + (W_2 - W_1)} \times K$	2.59	2.70	2.70			
Average Value	G <sub>s</sub> (T°C/15°C) = 2.66 g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>		
Remarks						

(Note) (1) is obtained from attached inspection table of pycnometer (2) is from JIS.

Sample No., Depth	No. ( m~ m)			No. ( m~ m)		
	1	2	3	1	2	3
Test No						
Pycnometer No.						
Weight of pycnometer + oven dried soil (wet soil) + water Wb g						
Temperature of content when Wb is meas.						
W. of oven dried soil in pycnometer.	container No.					
	Weight (container + dried soil) g					
	Wt of container g					
W <sub>1</sub> g						
① Converted weight at T°C (container + distilled water) W <sub>2</sub> g						
W <sub>1</sub> + (W <sub>2</sub> - W <sub>1</sub> ) g						
Specific Gravity at T°C: $\frac{W_1}{W_1 + (W_2 - W_1)}$						
② Compensation coefficient K						
Specific Gravity at 15°C: $\frac{W_1}{W_1 + (W_2 - W_1)} \times K$						
Average Value	G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>			G <sub>s</sub> (T°C/15°C) = g/cm <sup>3</sup>		
Remarks						

(Note) (1) is obtained from attached inspection table of pycnometer (2) is from JIS.



### 3. WAVE





Record of Wave Observation

DATE	W A V E					
	H 1/3 m	T sec	DIRECTION	MAXIMUM WAVE		
				H m	T sec	DIRECTION
5-18						
19						
20						
21						
22						
23						
24	0.28	5.8	N.W	0.66	6.7	N.W
25	0.27	8.6	N.W	0.56	10.0	N.W
26	0.21	7.0	N.W	0.50	8.1	N.W
27	0.23	7.3	N.W	0.64	7.6	N.W
28	0.18	7.4	N.W	0.37	6.1	N.W
29	0.22	6.3	N.W	0.56	7.5	N.W
30	0.17	7.3	N.W	0.34	8.3	N.W
31	0.23	7.1	N.W	0.46	7.5	N.W
6- 1	0.23	7.3	N.W	0.46	8.6	N.W
2	0.28	6.8	N.W	0.58	7.5	N.W
3	0.35	7.2	N.W	0.67	9.3	N.W
4	0.26	7.1	N.W	0.56	8.3	N.W
5	0.23	7.2	N.W	0.54	7.5	N.W
6	0.23	7.2	N.W	0.59	7.1	N.W
7	0.37	8.2	N.W	0.84	8.3	N.W
8	0.43	8.1	N.W	0.78	7.8	N.W
9	0.38	8.1	N.W	0.83	7.3	N.W
10	0.41	7.2	N.W	0.77	7.5	N.W
11	0.25	7.5	N.W	0.46	9.3	N.W
12	0.24	7.1	N.W	0.48	7.1	N.W
13	0.41	8.8	W	0.86	11.0	W
14	0.34	8.9	N.W	0.95	9.7	N
15	0.25	7.1	NNW	0.57	6.7	N
16	0.22	8.1	N.W	0.43	7.2	N.W
17	0.19	7.7	N.W	0.48	8.4	N.W
18	0.25	9.1	NNW	0.75	8.0	N
19	0.52	7.5	N.W	1.15	8.3	N.W
20	0.43	9.9	NNW	0.82	12.0	NNW
21	0.35	9.7	N	0.68	12.0	NNW
22	0.20	9.5	NNW	0.42	8.9	NNW
MEAN	0.287	7.74	NW (80%)	0.63	8.3	NW (76.7%)

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#### **4. TIDE**



TIDAL DIFFERENCE AT THE PORT OF IRENE, 1981

DATE	TIME		HEIGHT(m)		DATE	TIME		HEIGHT(m)	
	HIGH	LOW	HIGH	LOW		HIGH	LOW	HIGH	LOW
May 18	17:43	23:24	+0.81	-0.13	May 28	00:46	06:54	+0.73	+0.12
19 (00:94) Full Moon	05:28	11:52	+0.91	-0.37		12:55	19:11	+0.66	-0.01
	18:11	23:53	+0.73	-0.18	29	01:45	08:02	+0.80	+0.01
20	05:56	12:23	+0.92	-0.38		14:13	20:13	+0.77	0.00
	18:50	00:30	+0.68	-0.09	30	02:37	03:58	+0.85	-0.13
21	06:26	12:56	+0.95	-0.36		15:15	21:08	+0.83	-0.06
	19:23	00:57	+0.73	-0.07	31	03:23	09:47	+1.01	-0.29
22	06:55	13:29	+0.98	-0.33		16:09	21:57	+0.94	-0.03
	20:02	01:31	+0.74	+0.02	June 1	05:07	10:35	+1.05	-0.38
23	07:28	14:07	+0.90	-0.26		16:59	22:43	+1.00	-0.09
	20:42	02:09	+0.71	+0.13	2	04:50	11:20	+1.13	-0.43
24	08:06	14:49	+0.83	-0.20	(11:32) New Moon	17:45	23:28	+1.00	0.00
	21:32	02:58	+0.65	+0.07	3	05:32	12:04	+1.20	-0.45
25	08:53	15:42	+0.72	-0.11		18:33	00:12	+0.97	-0.07
	22:29	03:04	+0.58	+0.21	4	06:16	12:49	+1.18	-0.41
26 (21:00) Last Quarter	09:58	16:58	+0.68	-0.16		19:19	00:57	+0.93	+0.08
	23:38	05:03	+0.60	+0.18	5	06:58	13:34	+1.13	-0.36
27	11:24	17:59	+0.71	-0.02		20:06		+0.85	



DATE	TIME		HEIGHT		DATE	TIME		HEIGHT		
	HIGH	LOW	HIGH	LOW		HIGH	LOW	HIGH	LOW	
June 6		01:43		+0.10	June 15	03:54	10:27	+1.16	+0.68	
	07:43	14:19	+1.02	-0.15		16:50	22:24	+1.03	+0.41	
	20:55		+0.82							
7	08:31	02:34	+0.93	+0.15	16	04:26	11:02	+1.15	0.60	
		15:06		-0.03	(15:04)	17:28	23:02	+0.94	+0.31	
	21:47		+0.68		Full Moon					
8	09:24	03:32	+0.88	+0.18	17	05:01	11:35	+1.18	-0.07	
		15:58		+0.02						
	22:43		+0.64							
9 (11:33) First Quarter	10:29	04:39	+0.74	+0.21	Period of observation: May 18 to June 17, 1951  Maximum tide: MLW +1.20m June 3, 05:32AM Minimum tide: MLW -0.45m June 3, 12:04PM					
	23:45	16:56	+0.73	+0.11						
10	11:49	05:58	+0.74	+0.32						
		18:02		+0.22						
11	00:48	07:15	+0.82	+0.33						
	13:14	19:10	+0.78	+0.30						
12	01:45	08:17	+0.93	+0.32						
	14:27	20:10	+0.68	+0.45						
13	02:34	09:08	+1.10	+0.28						
	15:23	21:01	+0.96	+0.57						
14	03:16	09:50	+1.18	+0.32						
	16:09	21:44	+1.01	+0.49						





## 5. TIDAL CURRENT



Tidal Current Recorded  
By Current Meter and Float Method, 1931

	CURRENT METER				FLOAT METHOD				Remark
	EBB TIDE		FLOOD TIDE		EBB TIDE		FLOOD TIDE		
	Vel. m/sec	Direction	Vel. m/sec	Direction	Vel. m/sec	Direction	Vel. m/sec	Direction	
May 18	0.22	WNW	0.32	NW	0.05	W	0.09	WSW	
19	0.14	NE			0.07	N			Full Moon
20	0.24	NNE			0.02	NNE			
21	0.12	SE			0.05	SSE			
22	0.14	SSW			0.05	SE			
23	0.18	S	0.14	NNE	0.11	SSE	0.06	NE	
24	0.14	WSW	0.10	NE	0.04	SSE	0.03	NE	
25	0.11	NW	0.05	NE	0.03	W	0.02	N	
26	0.16	SE	0.09	NNE	0.05	SSE	0.01	N	Last Quarter
27			0.08	W			0.02	NNW	
28			0.05	ESE			0.03	ESE	
29	0.10	WNW			0.07	W	0.05	SE	
30	0.10	NE	0.14	SSE	0.14	N	0.14	SSW	
31	0.12	NNE	0.11	S	0.05	ESE	0.11	S	
June 1	0.10	ESE			0.07	E			
2	0.09	SW			0.06	ESE			New Moon
3	0.08	SSE			0.09	SSE			
4	0.15	S			0.13	SSE			
5	0.03	E	0.12	SSW	0.09	W	0.14	NE	
6	0.12	SW	0.15	NNW	0.11	S	0.09	NW	
7	0.13	WSW	0.12	NE	0.17	WSW	0.05	NNW	
8	0.13	SSW	0.10	SW	0.08	WSW	0.02	SSE	
9			0.11	N			0.10	NNW	First Quarter
10			0.15	ESE			0.04	ESE	
11	0.09	NNE	0.07	S	0.10	NNW	0.08	SSW	
12	0.09	W	0.11	SW	0.11	NW	0.05	SW	
13	0.17	ESE	0.17	NE	0.09	NNE	0.09	NNE	
14	0.13	NW	0.20	S	0.04	NE	0.08	SSE	
15	0.09	E			0.03	NNE			
16	0.09	N			0.03	E			Full Moon
Mean Average	0.13		0.13		0.07				



(Table 3-2-3) Daily Maximum Current

	Date	EBB TIDE			FLOOD TIDE		
		Maximum Current Velocity	Time Observed	Direction of Current	Maximum Current Velocity	Time Observed	Direction of Current
1	May 18	0.26 <sup>m/sec</sup>	12:50	WNW	0.37 <sup>m/sec</sup>	17:40	NW
2	19	0.16	13:20	NE	-	-	-
3	20	0.28	11:20	NNE	-	-	-
4	21	0.14	12:50	SE	-	-	-
5	22	0.23	13:00	SSW	-	-	-
6	23	0.25	12:30	SE	0.15	6:30	NNW
7	24	0.19	15:30	W	0.11	8:30	NE
8	25	0.14	16:20	SW	0.07	8:30	E
9	26	0.19	15:20	SSE	0.11	9:00	NNE
10	27	-	16:00	-	0.08	10:30	W
11	28	-	13:40	-	0.08	14:20	ESE
12	29	0.12	8:30	WNW	-	-	-
13	30	0.12	8:00	N	0.18	16:40	SSE
14	31	0.15	8:30	WNW	0.14	15:10	WSW
15	June 1	0.13	12:00	SE	-	-	-
16	2	0.11	13:50	SSE	-	-	-
17	3	0.08	12:00	SE	-	-	-
18	4	0.18	13:00	SSE	-	-	-
19	5	0.10	15:00	ESE	0.16	5:50	NNW
20	6	0.17	13:10	S	0.18	6:40	WNW
21	7	0.15	16:00	WSW	0.15	9:00	NE
22	8	0.14	17:20	SSW	0.12	10:20	NW
23	9	-	-	-	0.12	11:00	N
24	10	-	-	-	0.18	11:20	NE
25	11	0.10	6:40	NE	0.12	14:40	S
26	12	0.11	9:40	WSW	0.12	13:30	WSW
27	13	0.19	15:30	-	-	15:30	SSE
28	14	0.15	8:00	E	0.19	15:50	ESE
29	15	0.12	9:20	NNW	0.21	15:00	SSW
30	16	0.12	11:50	ESE	-	-	-
			12:30	WNW	-	-	-

Note: A : Extreme maximum current velocity



## 6. WEATHER





WEATHER OBSERVATION, 1981

PORT OF IRENE LATITUDE 18°23'N LONGITUDE 122°06'E								
DATE	TEMPERATURE (°C)			RAINFALL DAILY (mm)	WIND			
	MAXIMUM	MINIMUM	MEAN		AVERAGE VELOCITY (m/sec)	PREVAILING DIRECTION	MAX. WIND SPEED (m/sec)	DIRECTION
May 18	28.5	24.0	26.2	0.02	1.64	SW	4.40	SSW
19	27.0	23.0	25.9	13.77	0.78	W	3.78	W
20	27.6	23.8	25.7	17.51	0.45	W	3.73	S
21	41.0	23.4	32.2	2.82	1.03	NE	5.85	E
22	34.4	23.0	28.7	0.55	0.79	NNE	2.62	ESE
23	36.0	24.8	30.4	0	0.67	ESE	2.20	E
24	37.9	24.5	31.2	0	0.67	NNE	2.14	SSW
25	35.1	24.0	30.0	0	0.50	N	1.74	NE
26	37.2	23.8	30.5	0	1.12	E	1.89	ESE
27	37.4	24.0	30.7	0	0.85	NNE	2.04	ESE
28	37.7	24.1	30.9	0	0.60	NNE	1.28	ESE
29	37.1	23.2	30.2	0	0.95	NE	1.86	S
30	38.0	23.8	30.9	0	0.93	NNW	2.71	E
31	38.0	23.9	31.0	0	0.55	N	1.91	ENE
June 1	39.7	24.2	32.0	0.08	0.67	NNW	1.73	NNE
2	37.7	23.9	30.8	0.18	0.92	NE	1.43	E
3	38.3	24.2	31.2	0.10	0.74	NNE	1.80	E
4	35.0	24.0	30.0	0	0.60	N	2.85	E
5	36.7	24.0	30.4	0	0.70	NNE	2.04	SE
6	35.0	24.0	29.5	0	0.75	N	1.95	SSW
7	35.3	24.5	29.9	0.07	0.89	N	1.85	W
8	33.1	24.3	28.7	0.04	0.67	NNE	1.78	NE
9	34.3	24.0	29.2	3.45	0.81	N	2.16	N
10	35.2	24.0	30.1	0.97	0.93	NNE	1.83	NNE
11	34.4	23.9	29.2	0.23	0.78	NNE	1.56	NW
12	36.0	24.0	30.0	0	0.83	NW	2.75	SSE
13	32.6	24.5	28.6	0	0.66	ENE	1.24	NE
14	35.9	24.0	30.0	0.04	0.82	NE	2.61	ESE
15	35.2	23.6	29.4	0.24	0.76	NNW	2.35	SSW
16	34.6	22.2	28.4	3.78	0.67	NNW	1.39	SW
17	29.7	24.0	26.8	0.85	0.75	SW	1.33	SSW
18					1.08	SSW	1.83	SSW
19					1.33	ENE	1.86	NE
20					0.23	W	0.44	NW
21					0.72	S	1.56	S
22					0.44	NE	0.68	ESE
TOTAL or MEAN	35.3	23.9	29.6	44.71	0.8	EXTREME MAX. SPEED: 5.85m/sec		

NOTE: Period of Observation: May 18 - June 22, 1981





