



EUSTIS ENGINEERING COMPANY, INC.

GEOTECHNICAL ENGINEERS

CONSTRUCTION QUALITY CONTROL & MATERIALS TESTING

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14 April 1998

State of Louisiana
Department of Natural Resources
Coastal Restoration Division
Nicholls State University
Post Office Box 2079
Thibodaux, Louisiana 70310

Attention Mr. Brian Kendrick

Gentlemen:

Borrow Borings
State of Louisiana
Whiskey Island (Phase 3b)
Terrebonne Parish, Louisiana
State Project No. TE-27
Federal Project No. PTE15

This letter contains the soil boring logs and laboratory test results for the borrow borings made as part of the Whiskey Island project in Terrebonne Parish, Louisiana. This work was performed in accordance with Eustis Engineering Company, Inc.'s letter of proposal dated 10 March 1998. This proposal was authorized in writing on 10 March by Mr. D. Brian Kendrick, Engineer Supervisor, Coastal Restoration Division, Department of Natural Resources, State of Louisiana.

Soil Borings. Twenty-five soil borings were drilled from 11 to 14 March 1998. The termination depths for the borings were determined in the field using the following criteria. If clay was present at a depth of 15 feet below the mudline, the boring was to be terminating at that depth. If sand was present at a depth of 15 feet below the mudline, the boring was to be terminated 20 feet below the mudline. The

14 April 1998

actual termination depths of the borings below the mudline range from 10 to 20 feet with the majority of the borings terminated 16 feet below the mudline. At the boring locations, the depth of the mudline below the water surface ranged from 6 to 10 feet. The borings were located in the field by a representative of T. Baker Smith & Sons. Detailed descriptive logs of the borings shown in both tabular and graphical form are enclosed. On the boring logs, all depths are referenced to the existing water surface.

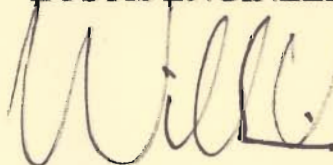
The borings were made using a truck mounted wet rotary drill rig operating from a jack-up barge. Samples were obtained using a driven 2-in. external diameter splitspoon. Samples obtained in this manner were placed in sealed glass jars for transportation to the laboratory.

Laboratory Testing. Sieve analyses were performed on selected samples of cohesionless soils to determine particle size distributions. The results of these analyses are provided on separate particle size distribution test reports. Natural moisture contents and Atterberg liquid and plastic limits were determined for selected samples of cohesive soil. The results of these tests are provided on the boring logs.

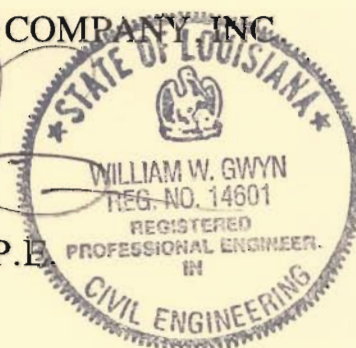
If you have any questions regarding this letter or require further information, please contact us.

Yours very truly,

EUSTIS ENGINEERING COMPANY, INC.



WILLIAM W. GWYN, P.E.



RPB:aln/mcp

Enclosures

EE 15300

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/13/98		Boring: 1		Refer to "Legends &			
Scale In Feet	PP	SPT	SP L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits		Oth Tes
										Dry	Wet	Type	ϕ	LL	PL	PI
0					Water											
10					Tan & gray fine sand w/shell fragments	SP	1	7-8								
							2	9-10								
					Gray & tan fine sand w/clay & shell fragments	SP	3	11-12								
					Gray clayey sand w/shell fragments	SC	4	13-14								
							5	15-16								
					Gray & tan fine sand w/sandy clay layers	SP	6	17-18								
					Gray clay	CH	7	19-20								
							8	21-22								
20																
30																
40																
50																

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/13/98 Boring: 2 Refer to "Legends &

Scale In Feet	pp	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Tan & gray fine sand w/shell fragments	SP	1	7-8									
							2	9-10									
					Gray & tan fine sand w/shell fragments	SP	3	11-12									
							4	13-14									
					Tan & gray fine sand w/shell fragments	SP	5	15-16									
							6	17-18									
							7	19-20									
					Dark gray clayey sand w/shell fragments	SC	9	21-22									
					Dark gray sandy clay w/clayey sand layers & shell fragments	CL	8	24-25									

Comments:

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: 3		Refer to "Legends & Notes"	
Scale In Feet	PP	SPT	SP	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Tests	
0					Water									
10					Tan & gray fine sand w/shell fragments	SP	1	10-11						
					Gray fine sand w/shell fragments	SP-SM	2	12-13						
					w/silt pockets & shell fragments		3	14-15						
							4	16-17						
							5	18-19						
20					Gray fine sand w/shell fragments	SP	6	20-21						
					Gray sandy clay w/fine sand lenses	CL	7	22-23						
							8	24-25						
30														
40														
50														

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: 4				Refer to "Legends &		
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray fine sand w/shell fragments	SP	1	11-12									
					w/shell fragments & organic matter		2	13-14									
							3	15-16									
							4	17-18									
							5	19-20									
					Gray fine sand w/few shell fragments	SP	6	21-22									
					Gray clay w/fine sand layers & trace of shells	SP	7	23-24									
							8	25-26									
							9	27-28									
20																	
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: 7		Refer to "Legends & Notes"				
Scale In Feet	pp	SPT	S P L L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Test
										Dry	Wet	Type	ϕ	LL	PL	PI	
0					Water												
10					Tan & gray fine sand w/silt & shell fragments	SP-SM	1	8-9									PD
					w/silt & many shell fragments		2	10-11									
					Gray fine sand w/silt & many shell fragments	SP-SM	3	12-13									PD
					w/silt & shell fragments		4	14-15									
							5	16-17									PD
							6	18-19									
					w/silt & many shell fragments		7	20-21									PD
					Gray clay	CH	NR	22-23									
50																	

Comments:

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/13/98 Boring: 9 Refer to "Legends &

Scale In Feet	pp	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Test
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Tan & gray fine sand w/shell fragments	SP	1	8-9									
							2	10-11									
							3	12-13									
					Gray fine sand w/silt & shell fragments	SP-SM	4	14-15									
					w/silt & few shell fragments		5	16-17									
							6	18-19									
20					Gray fine sand w/sandy clay layers	SP	7	20-21									
					Gray sandy clay w/fine sand layers	CL	8	22-23									
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/13/98		Boring: 10				Refer to "Legends &	
Scale In Feet	PP	SPT	SP L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits		Other Tests
										Dry	Wet	Type	ϕ	LL	PL	PI
0					Water											
10					Tan & gray fine sand w/shell fragments	SP	1	9-10								
							2	11-12								
							3	13-14								
							4	15-16								
							5	17-18								
							6	19-20								
							7	21-22								
							8	23-24								
					Gray clayey sand w/shell fragment layers w/few shell fragments	SC										
					Gray clay w/clayey sand lenses	CH										
50																

Comments:

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: 11				Refer to "Legends & Notes"		Other Tests	
Scale In Feet	pp	SPT	SLR	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits				
										Dry	Wet	Type	ϕ	C	LL	PL		
0					Water													
10					Gray & tan fine sand w/shells	SP	1	10-11										
							2	12-13	28									
							3	14-15										
							4	16-17										
							5	18-19										
20					Gray fine sand w/many shell fragments	SP	6	20-21										
					Gray clay w/fine sand lenses & shell fragments	CH	7	22-23	55									
							8	24-25										
30																		
40																		
50																		

Comments:

Ground Elev.:		Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/13/98		Boring: 12		Refer to "Legends &	
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Tests
0					Water						Type ϕ C	LL PL PI	
10							1	11-12					
					Gray & tan clayey sand w/clay layers, organic matter, & shell fragments	SC	2	13-14					
							3	15-16					
					Gray clayey sand w/clay layers & shell fragments	SC	4	17-18					
20							5	19-20					
					Tan & gray fine sand w/shell fragments	SP	6	21-22					
					w/clayey sand lenses & shell fragments	CL	7	23-24					
					Gray sandy clay w/fine sand layers	CL	8	25-26					
					Gray sandy clay w/fine sand layers								
30													
40													
50													

Comments:

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:		Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: 14		Refer to "Legends &	
Scale In Feet	PP	SPT	SLR	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Test
0					Water								
10					Gray & tan fine sand w/shell fragments	SP	1	10-11					
					Gray clayey sand w/shell fragments	SC	2	12-13					
							3	14-15	46				
							4	16-17					
					Gray fine sand w/shell fragments	SP-SM	5	18-19					
20							6	20-21					
							7	22-23					
					Gray clayey sand w/sandy clay layers	SC	8	24-25					
					Gray clay w/clayey sand layers & shell fragments	CH	9	26-27	34				
30													
40													
50													

Comments:

EUSTIS ENGINEERING COMPANY, INC.

LOG OF BORING AND TEST RESULTS

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

(Sheet 1 of 1)

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/13/98		Boring: 15				Refer to "Legends &		
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Tan & gray fine sand w/few shell fragments	SP	1	8-9									
							2	10-11									
							3	12-13									
							4	14-15									
					Gray fine sand w/silt	SP-SM	5	16-17									
							6	18-19									
							7	20-21									
							8	22-23									
					w/silt & shell fragments		9	24-25									
50																	

Comments:

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/11/98		Boring: 16			Refer to "Legends			
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Tan & gray fine sand w/shell fragments	SP	1	10-12	35								
					Gray sandy clay w/shell fragments	CL	2	12-13									
							3	14-15									
					w/few shell fragments		4	16-17									
20					Gray clayey sand w/clay lenses & shell fragments	SC	5	18-19	60								
							6	20-21									
							7	22-23									
					w/shell fragments		8	24-25									
					Gray clay w/sand lenses & shell fragments	CH	9	26-27									
							10	28-29									
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:		Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 21		Refer to "Legends &					
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Test
										Dry	Wet	Type	ϕ	LL	PL	PI	
0					Water												
10					Gray clay w/fine sand lenses & shell fragments	CH	1	8-9									
					Gray fine sand w/shell fragments	SP-SM	2	10-11									
					Gray sandy clay w/shell fragments	CL	3	12-13									
					Gray fine sand w/clay layers & pockets, & shell fragments	SP	4	14-15									
							5	16-17									
20							6	20-21									
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 23				Refer to "Legends &		
Scale In Feet	pp	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray sandy clay w/fine sand lenses & clay pockets	CL	1	10-11									
							2	12-13	63						49	15	34
							3	14-15									
					Gray sandy clay	CL	4	16-17	34						26	17	9
					Gray fine sand w/shell fragments	SP	5	18-19									
					Gray clayey sand w/clay layers	SC	6	20-21									
					Gray clay w/fine sand lenses	CH	7	22-23									
							8	24-25									
20																	
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 24				Refer to "Legends &		
Scale In Feet	pp	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Tests
										Dry	Wet	Type	ϕ	C	LL	PL	PI
0					Water												
10					Gray clay	CH	1	10-11	78								
							2	12-13									
					w/sandy clay lenses Gray fine sand w/clay layers & shell fragments	SP	3	14-15									
					w/shell fragments		4	16-17									
					Gray clay w/shell fragments	CH	5	18-19	47								
							6	20-21									
							7	22-23									
							8	24-25									
20																	
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
 BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
 TERREBONE PARISH, LOUISIANA
 STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 26				Refer to "Legends & Notes"		
Scale In Feet	PP	SPT	SP LL R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	φ	C	LL	PL	
0					Water												
10					Gray sandy clay w/clayey sand lenses	CL	1	10-11									
					Gray clayey sand w/shell fragments	SC	2	12-13									
							3	14-15									
							4	16-17									
							5	18-19									
							6	20-21									
					Gray sandy clay	CL	7	22-23									
							8	24-25									

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/14/98 Boring: 28 Refer to "Legends &

Scale in Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Test
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray & brown clay	CH	1	10-11									
							2	12-13	54								
							3	14-15	61						58	19	39
							4	16-17	58								
							5	18-19									
20																	
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:		Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 29		Refer to "Legends & Notes"					
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray clayey sand w/shell fragments	SC	1	9-10									
					Gray & tan fine sand w/silt & shell fragments	SP-SM	2	11-12									
					Gray & tan fine sand w/clay layers & pockets, & shell fragments	SP	3	13-14									
							4	15-16									
							5	17-18									
							6	19-20									
					Gray sandy clay w/shell fragments	CL	7	21-22									
							8	23-24									
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/14/98 Boring: 31 Refer to "Legends & Symbols" for "Soil Test Results"

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Tests
0					Water						Type ϕ C	LL PL PI	
10					Gray clayey sand w/shell fragments	SC	1	10-11					
					w/fine sand lenses & chemical odor	CH	2	12-13					
					Gray & brown clay	SP	3	14-15	40				
					Gray fine sand w/shell fragments	SP	4	16-17					
					Greenish-gray & gray fine sand w/silt & shell fragments	SP	5	18-19					
20					Gray fine sand w/clay layers & shell fragments	SP	6	20-21					
					Gray sandy clay w/fine sand layers	CL	7	22-23					
							8	24-25					
30													
40													
50													

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/13/98 Boring: 33 Refer to "Legends &

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Test
0					Water								
10					Gray sandy clay w/fine sand lenses & shell fragments	CL	1	10-11					
					Gray silty sand w/shell fragments	SM	2	12-13					
							3	14-15					
							4	16-17					
							5	18-19					
20					Gray clayey sand w/fine sand layers & shell fragments	SC	6	20-21					
							7	22-23					
30													
40													
50													

Comments:

STATE OF LOUISIANA

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/14/98 Boring: 34 Refer to "Legends &

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Tests
0					Water						Type ϕ C	LL PL PI	
10					Gray clayey sand w/clay layers & shell fragments	SC	1	10-11					
					Gray clay w/clayey sand layers & shell fragments	CH	2	12-13	35				
					Gray clayey sand w/shell fragments	SC	3	14-15					
					w/fine sand lenses & shell fragments		4	16-17	34				
					Greenish-gray fine sand w/shell fragments	SP	5	18-19					
20					Gray clayey sand w/shell fragments	SC	6	20-21					
					Gray clay w/clayey sand layers & lenses	CH	7	22-23					
							8	24-25					
30													
40													
50													

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:		Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/14/98		Boring: 202		Refer to "Legends &	
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density	Shear Tests	Atterberg Limits	Other Tests
0					Water								
10					Gray clayey sand w/clay layers & shell fragments	SC	1	9-10					
					Gray clay w/clayey sand lenses	CH	2	11-12					
					Gray fine sand w/clay layers & pockets, & shell fragments	SP	3	13-14					
							4	15-16					
							5	17-18					
							6	19-20					
							7	21-22					
							8	23-24					
20													
30													
40													
50													

Comments:

BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)

TERREBONE PARISH, LOUISIANA

STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.:			Datum:		Gr. Water Depth:		Job No.: 15300		Date Drilled: 3/12/98		Boring: F1-M				Refer to "Legends &		
Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Oth Tes
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray sandy clay w/clay layers & shell fragments	CL	1	10-11									
					Gray clayey sand w/clay lenses	SC	2	12-13	45								
					Gray fine sand w/silt & few shell fragments	SP	3	14-15									
							4	16-17									
							5	18-19									
							6	20-21									
					Gray sandy clay	CL	7	22-23	32								
20																	
30																	
40																	
50																	

Comments:

STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/12/98 Boring: F1-N Refer to "Legends & Symbols"

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Tests
										Dry	Wet	Type	ϕ	C	LL	PL	
0					Water												
10					Gray clayey sand w/fine sand layers & few shell fragments	SC	1	8-9									PT
							2	10-11	35								PT
							3	12-13									PT
							4	14-15	40								PT
							5	16-17									PT
					Gray fine sand w/few shell fragments	SP	6	18-19									PT
					w/clay pockets & shell fragments		7	20-21									PT
					Gray clayey sand w/fine sand & clay lenses	SC	8	22-23	52								PT
					Gray clay w/sand pockets	CH											
50																	

Comments:

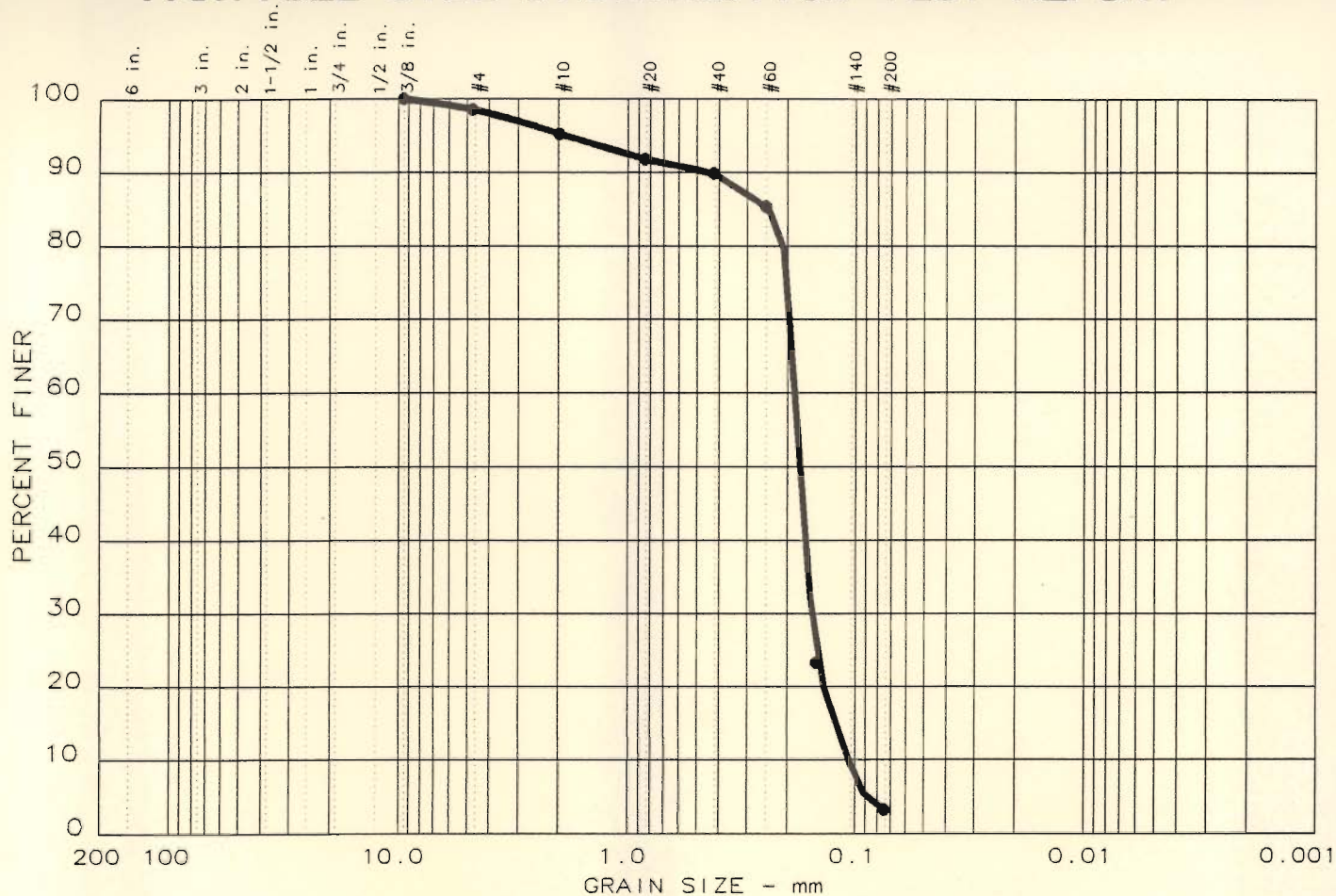
STATE OF LOUISIANA
BORROW BORINGS, WHISKEY ISLAND (PHASE 3b)
TERREBONE PARISH, LOUISIANA
STATE PROJECT NO. TE-27, FEDERAL PROJECT NO. PTE15

Ground Elev.: Datum: Gr. Water Depth: Job No.: 15300 Date Drilled: 3/12/98 Boring: F1-S Refer to "Legends &

Scale In Feet	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth In Feet	Water Content Percent	Density		Shear Tests		Atterberg Limits			Other Tests	
										Dry	Wet	Type	ϕ	C	LL	PL		PI
0					Water													
10					Gray clayey sand w/few shell fragments	SC	1	11-12	32									
							2	13-14										
					Gray fine sand w/silt & shell fragments	SP-SM	3	15-16										
							4	17-18										
							5	19-20										
					Gray sandy clay	CL	6	21-22										
							7	23-24										
20																		
30																		
40																		
50																		

Comments:

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	1.5	95.3	3.2		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.19		
D ₃₀	0.16		
D ₁₀	0.10		
X COEFFICIENTS			
C _c	1.23		
C _u	1.7		

SIEVE number size	PERCENT FINER		
4	98.5		
10	95.2		
20	91.8		
40	89.8		
60	85.3		
100	23.3		
200	3.2		

Sample information:
 • Boring 1, Sample 2
 Loose tan & gray FINE SAND w/ shell fragments

Remarks:
 Sample depth 3'-4'

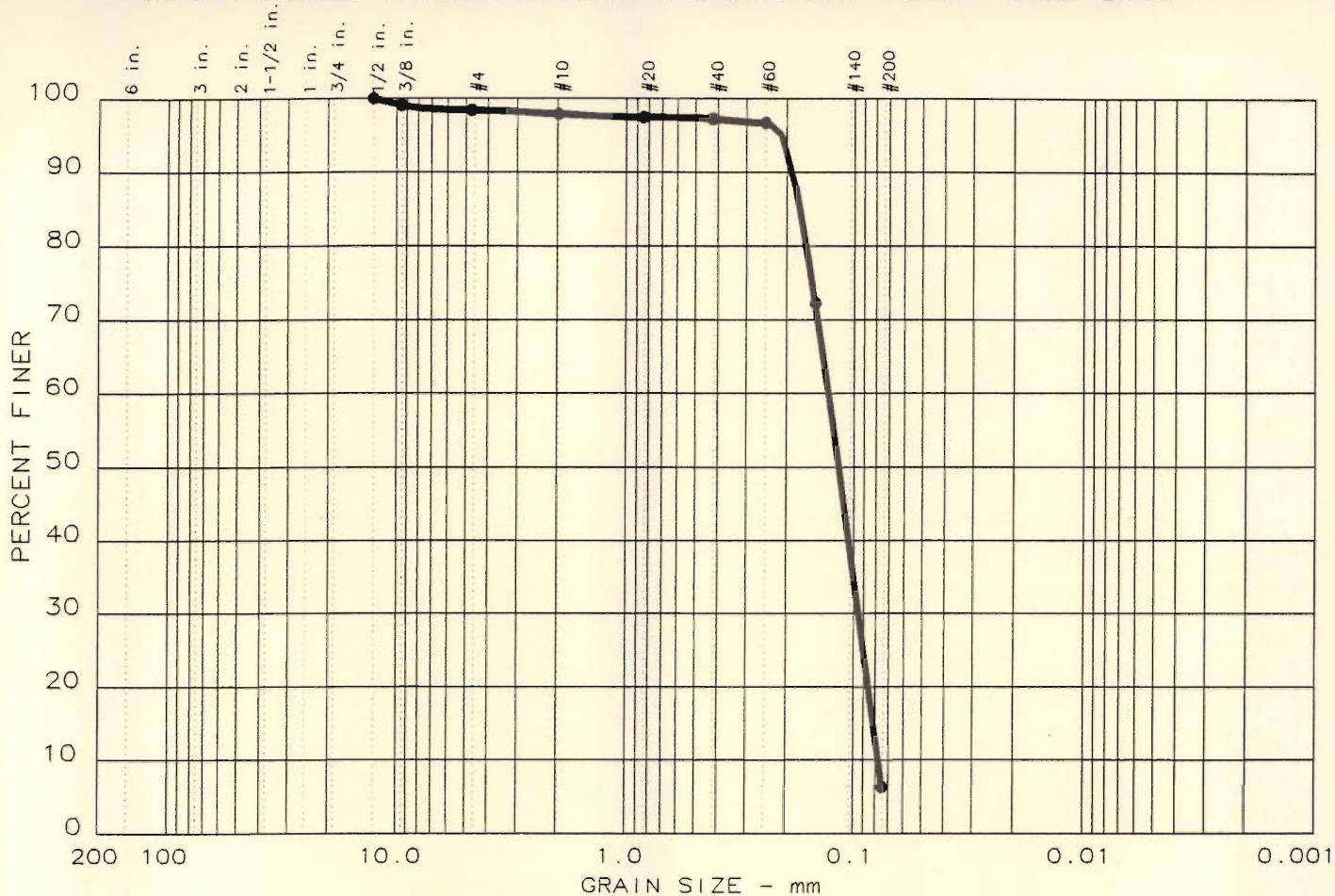
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-25-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	1.6	92.1	6.3		SP-SC		

SIEVE inches size	PERCENT FINER		
0.5	100.0		
0.375	99.0		
X			
	GRAIN SIZE		
D ₆₀	0.13		
D ₃₀	0.10		
D ₁₀	0.07		
X			
	COEFFICIENTS		
C _c	0.89		
C _u	1.7		

SIEVE number size	PERCENT FINER		
4	98.4		
10	97.9		
20	97.4		
40	97.2		
60	96.7		
100	72.3		
200	6.3		

Sample information:

- Boring 1, Sample 4
- Loose gray & tan FINE SAND w/ cl & sh frag

Remarks:

Sample depth 7'-8'

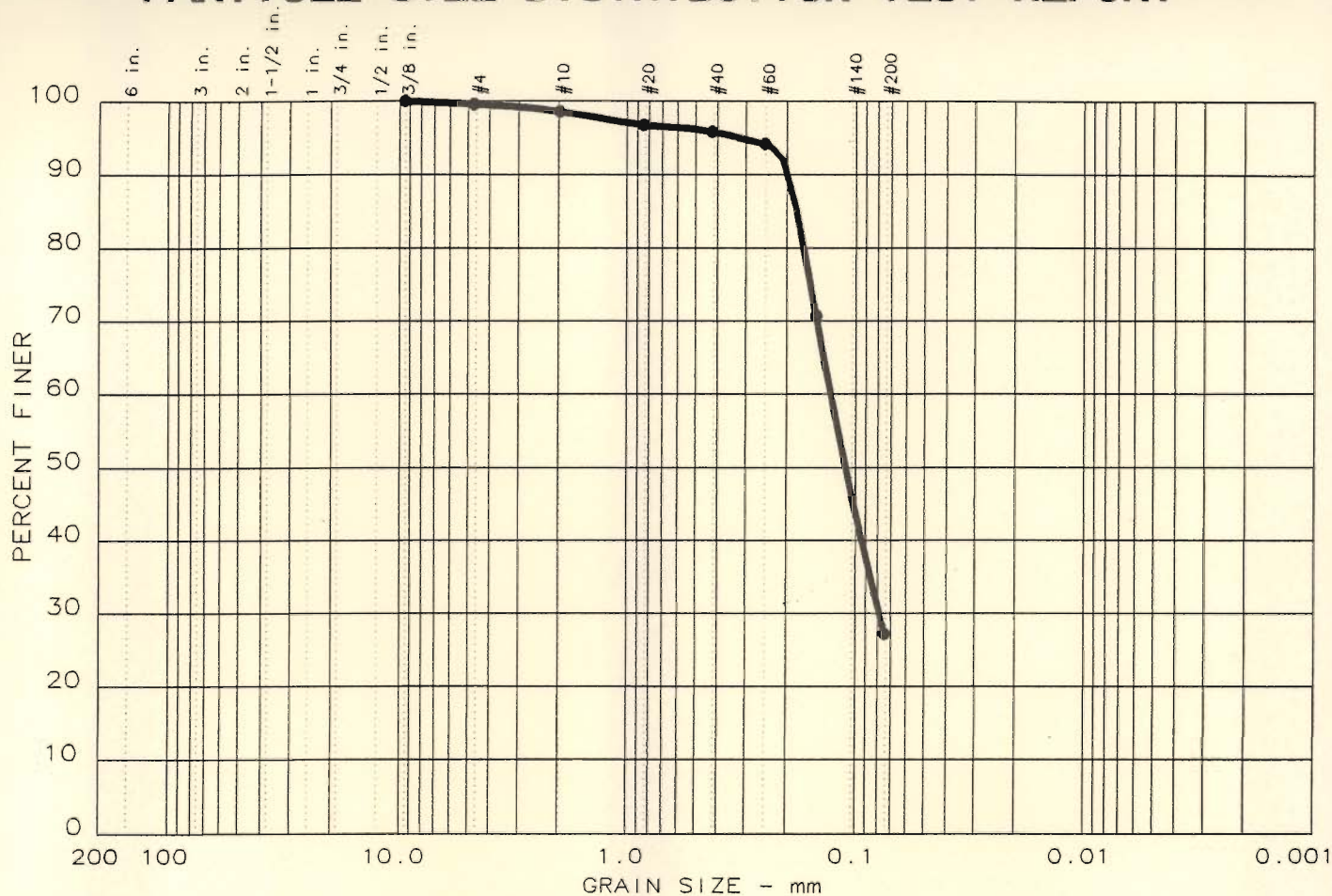
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass

Date: 03-25-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.5	72.3	27.2		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.08		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.5		
10	98.5		
20	96.8		
40	95.8		
60	94.2		
100	70.7		
200	27.2		

Sample information:

- Boring 1, Sample 6
- Loose gray CLAYEY SAND w/ shell fragments

Remarks:

Sample depth 11'-12'

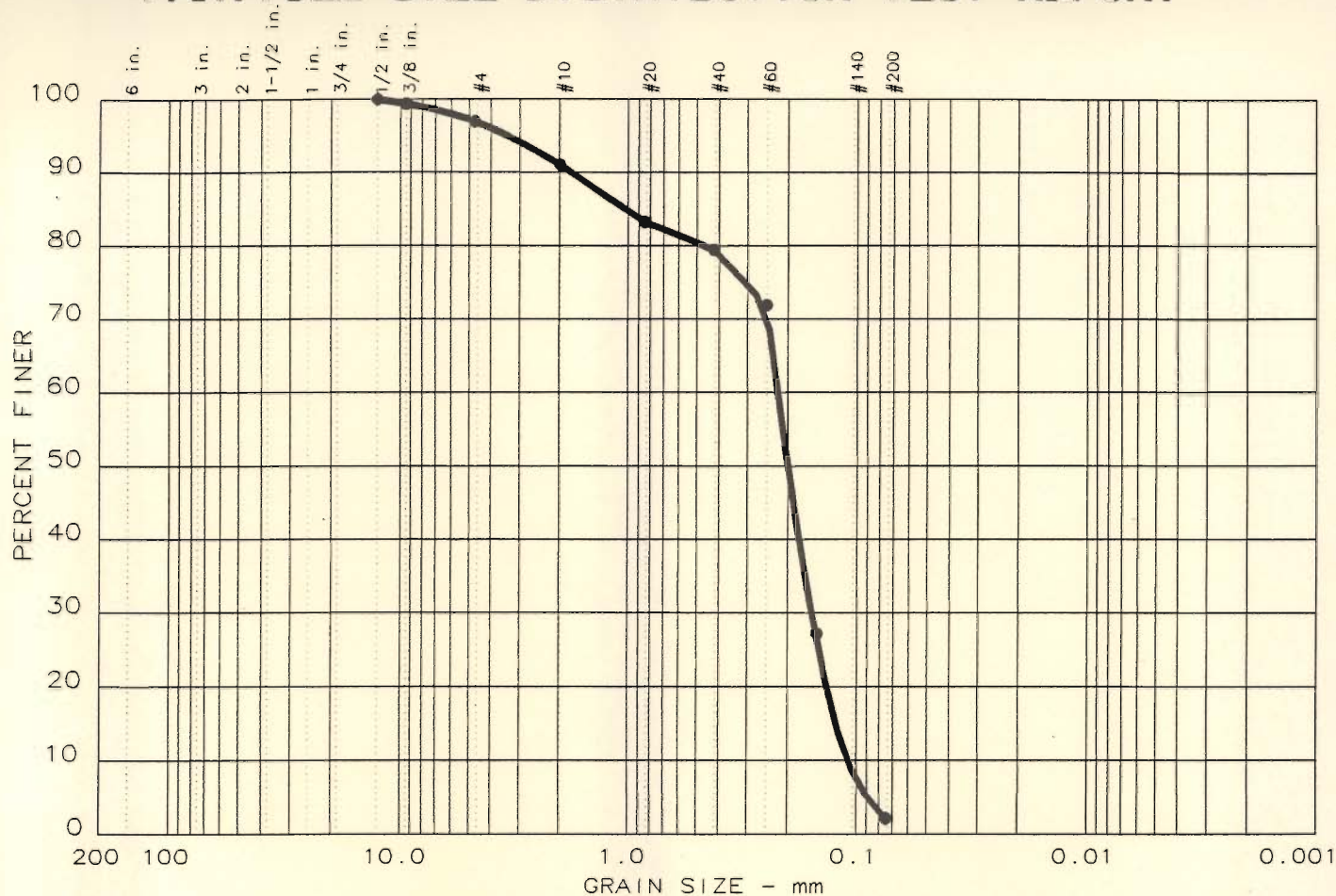
**Eustis
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Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass

Date: 03-25-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	3.0	94.9	2.1		SP		

SIEVE inches size	PERCENT FINER		
0.5	100.0		
0.375	99.4		
X GRAIN SIZE			
D ₆₀	0.22		
D ₃₀	0.16		
D ₁₀	0.10		
X COEFFICIENTS			
C _c	1.02		
C _u	2.0		

SIEVE number size	PERCENT FINER		
4	97.0		
10	91.0		
20	83.3		
40	79.5		
60	72.0		
100	27.2		
200	2.1		

Sample information:

• Boring 2, Sample 2
Loose tan & gray FINE SAND w/ shell fragments

Remarks:

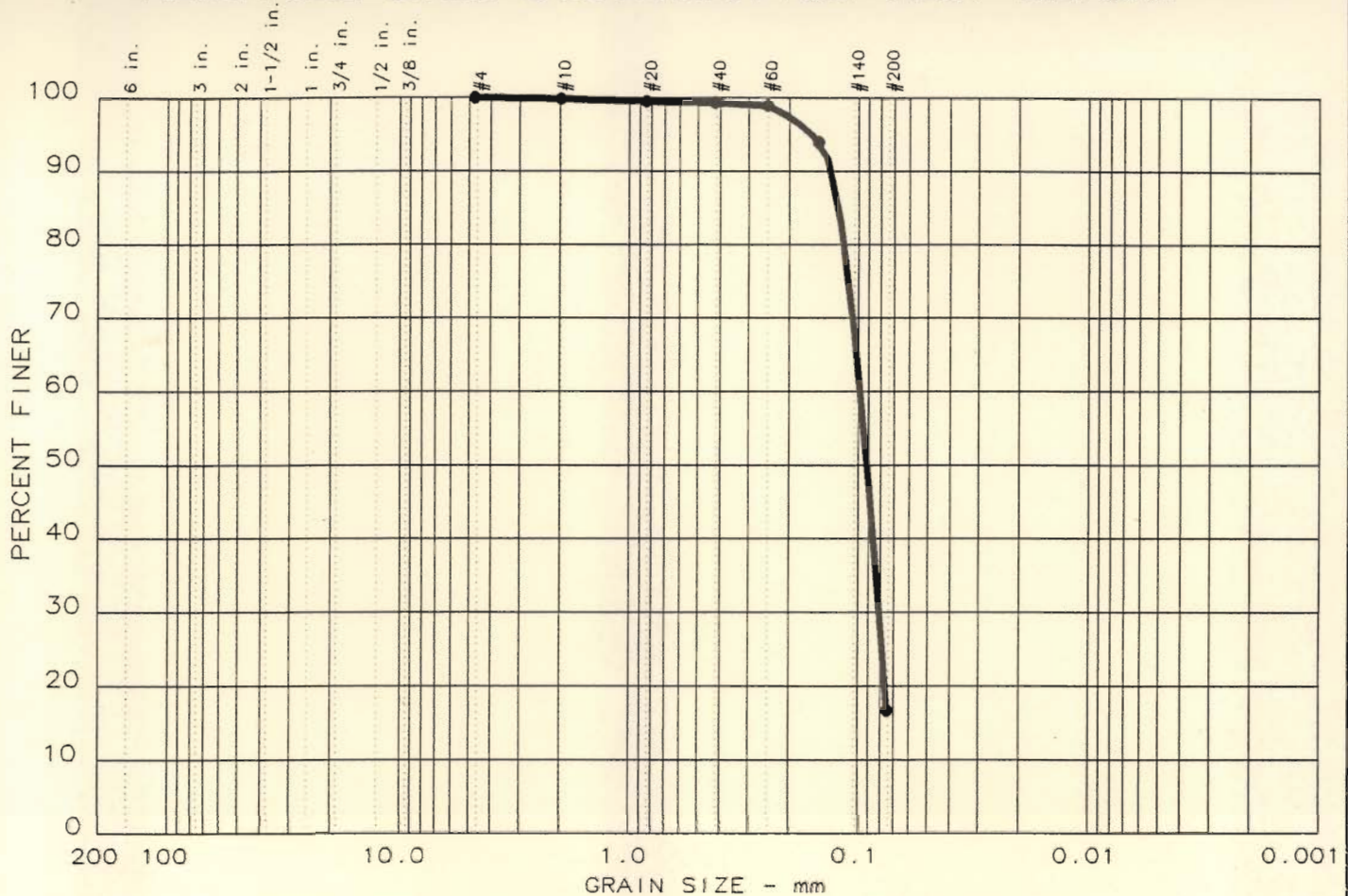
Sample depth 3'-4'

**Eustis
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Project No.: 15300
Project: DNR / Whiskey Pass
Date: 03-25-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	83.3	16.7		SC		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D ₆₀	0.10		
D ₃₀	0.08		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.8		
20	99.5		
40	99.3		
60	98.9		
100	93.9		
200	16.7		

Sample information:
 ● Boring 2, Sample 8
 Loose dk. gray CLAYEY
 SAND w/ shell fragments

Remarks:
 Sample depth 15'-16'

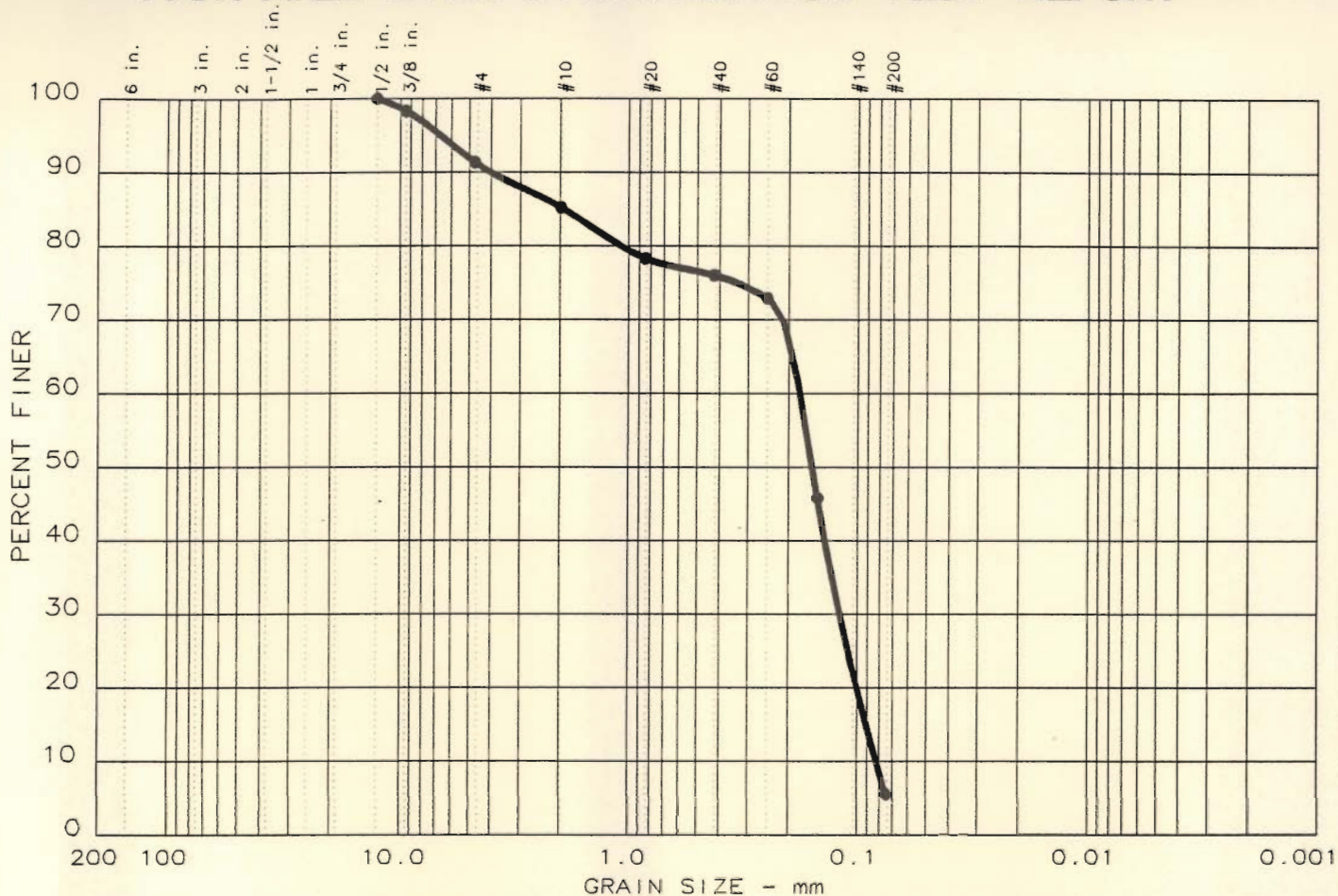
**Eustis
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Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	8.7	85.8	5.5		SP-SM		

SIEVE inches size	PERCENT FINER		
0.5	100.0		
0.375	98.3		
GRAIN SIZE			
D ₆₀	0.18		
D ₃₀	0.12		
D ₁₀	0.08		
COEFFICIENTS			
C _c	0.97		
C _u	2.2		

SIEVE number size	PERCENT FINER		
4	91.3		
10	85.2		
20	78.3		
40	76.0		
60	72.9		
100	45.8		
200	5.5		

Sample information:
 • Boring 3, Sample 2
 Loose gray FINE SAND
 w/ shell fragments

Remarks:
 Sample depth 3'-4'

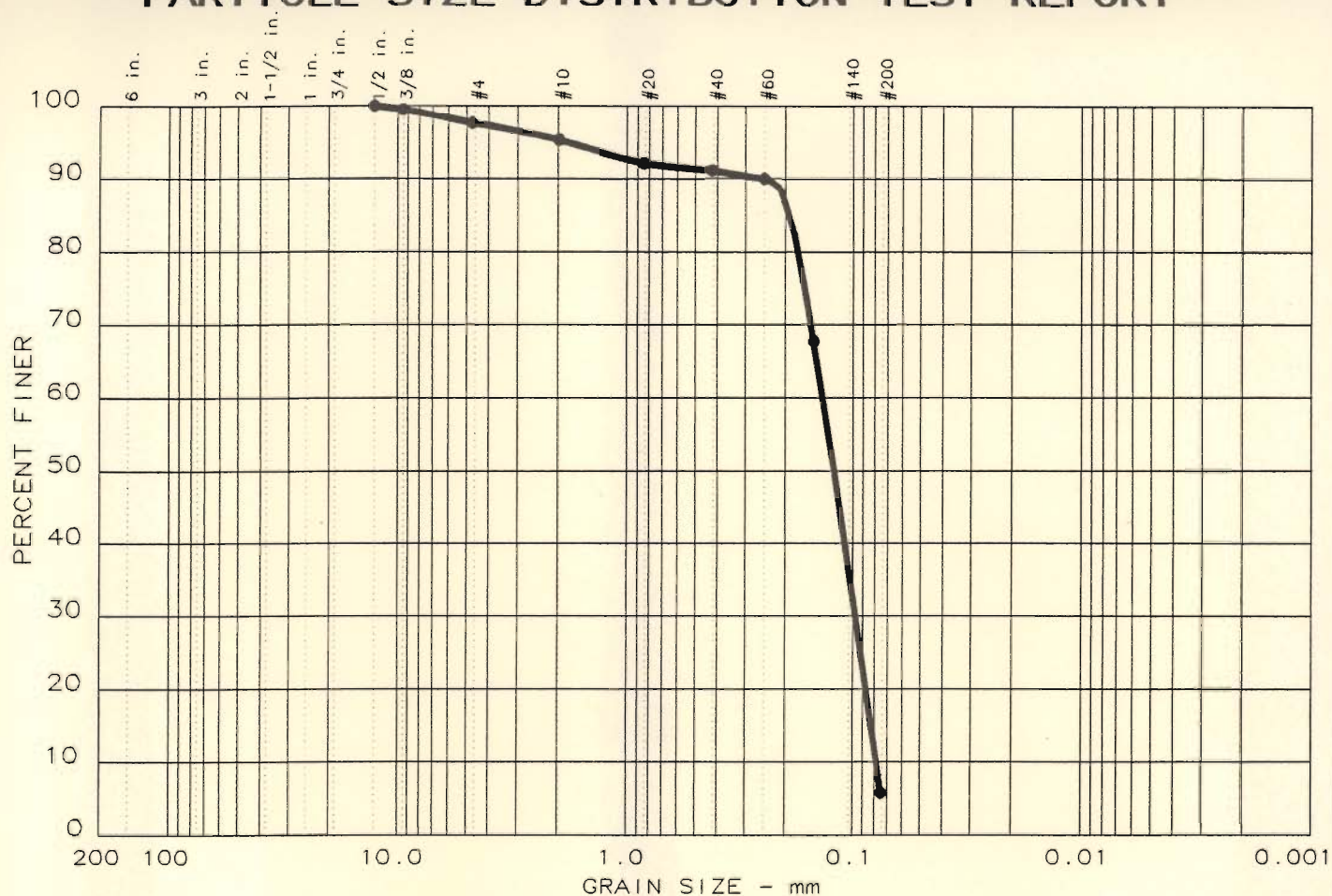
**Eustis
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Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	2.4	91.8	5.8		SP-SM		

SIEVE inches size	PERCENT FINER		
0.5	100.0		
0.375	99.4		
X			
	GRAIN SIZE		
D ₆₀	0.14		
D ₃₀	0.10		
D ₁₀	0.07		
X			
	COEFFICIENTS		
C _c	0.89		
C _u	1.7		

SIEVE number size	PERCENT FINER		
4	97.6		
10	95.3		
20	92.2		
40	91.1		
60	89.9		
100	67.8		
200	5.8		

Sample information:
 • Boring 3, Sample 4
 Loose gray FINE SAND
 w/si pocs & sh frags

Remarks:
 Sample depth 7'-8'

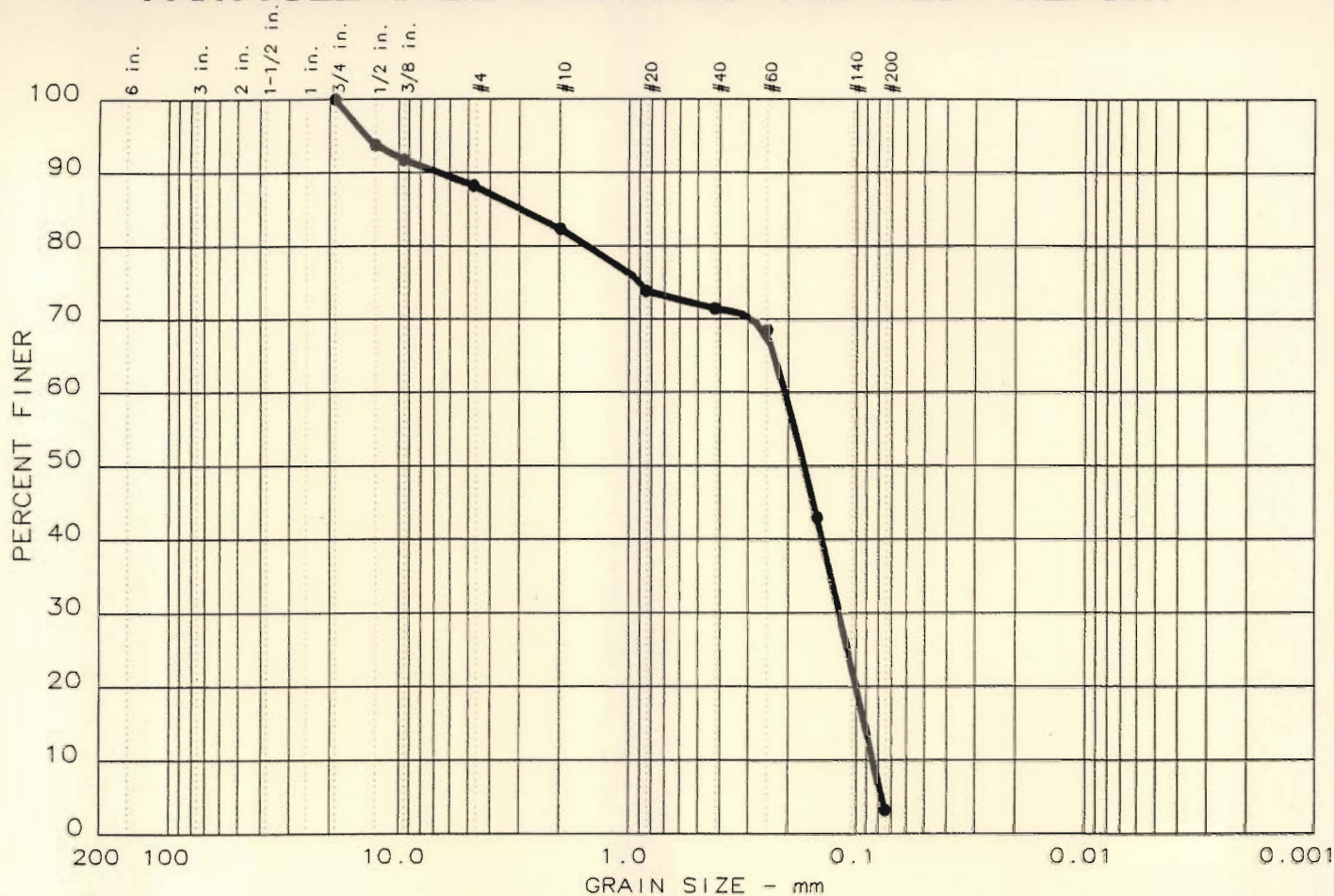
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	11.8	85.0	3.2		SP		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
0.5	93.7		
0.375	91.7		
X			
	GRAIN SIZE		
D ₆₀	0.21		
D ₃₀	0.12		
D ₁₀	0.08		
X			
	COEFFICIENTS		
C _c	0.81		
C _u	2.5		

SIEVE number size	PERCENT FINER		
4	88.2		
10	82.3		
20	73.9		
40	71.4		
60	68.5		
100	42.9		
200	3.2		

Sample information:
 • Boring 3, Sample 6
 Loose gray FINE SAND
 w/ shell fragments

Remarks:
 Sample depth 11'-12'

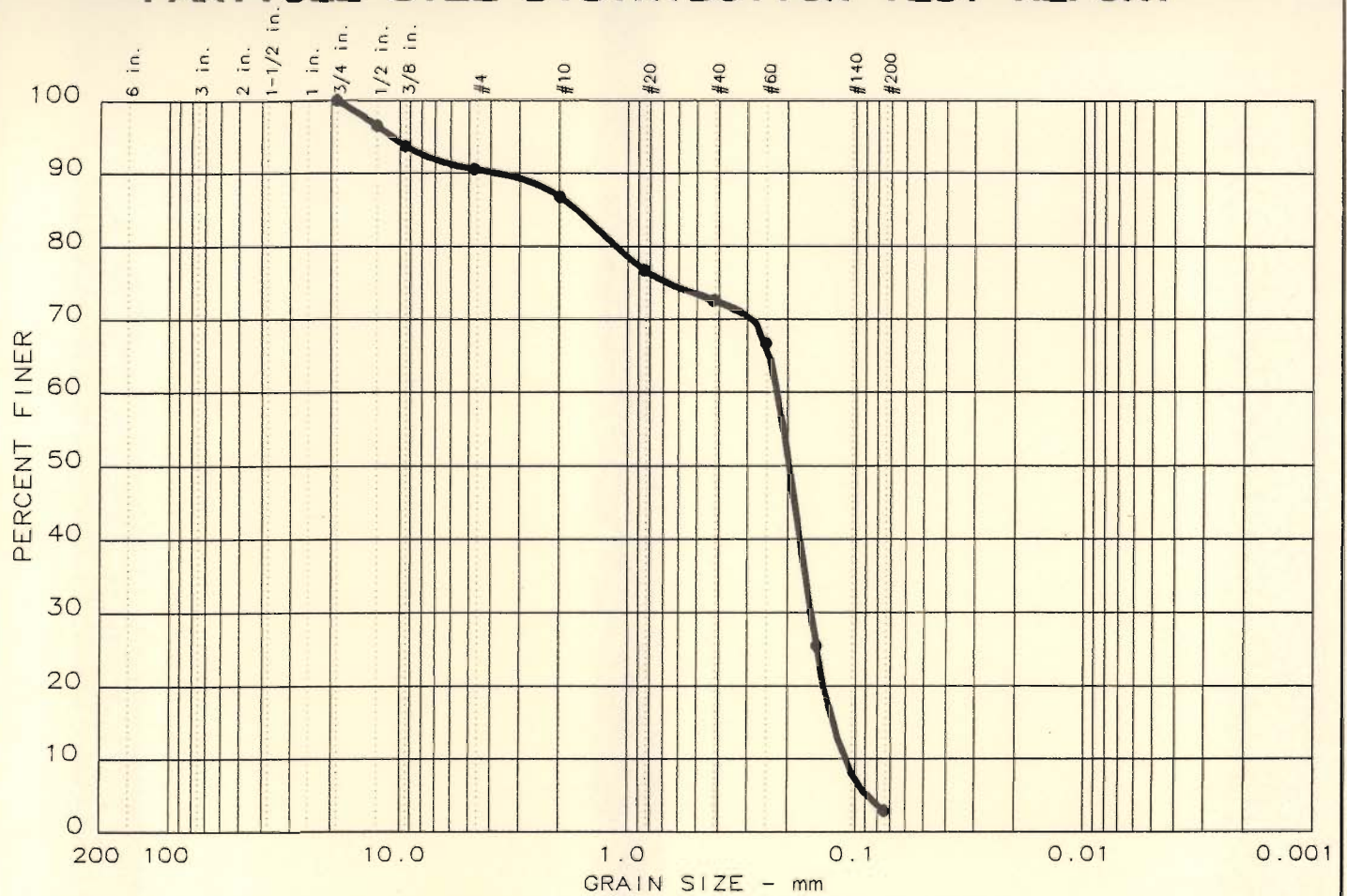
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	9.4	87.7	2.9		SP		

SIEVE inches size	PERCENT FINER		
	●		
0.75	100.0		
0.5	96.5		
0.375	93.8		
	GRAIN SIZE		
D ₆₀	0.22		
D ₃₀	0.16		
D ₁₀	0.11		
	COEFFICIENTS		
C _c	1.02		
C _u	2.0		

SIEVE number size	PERCENT FINER		
	●		
4	90.6		
10	86.8		
20	76.7		
40	72.5		
60	66.8		
100	25.5		
200	2.8		

Sample information:

● Boring 4, Sample 2
Loose gray FINE SAND
w/ shell fragments

Remarks:

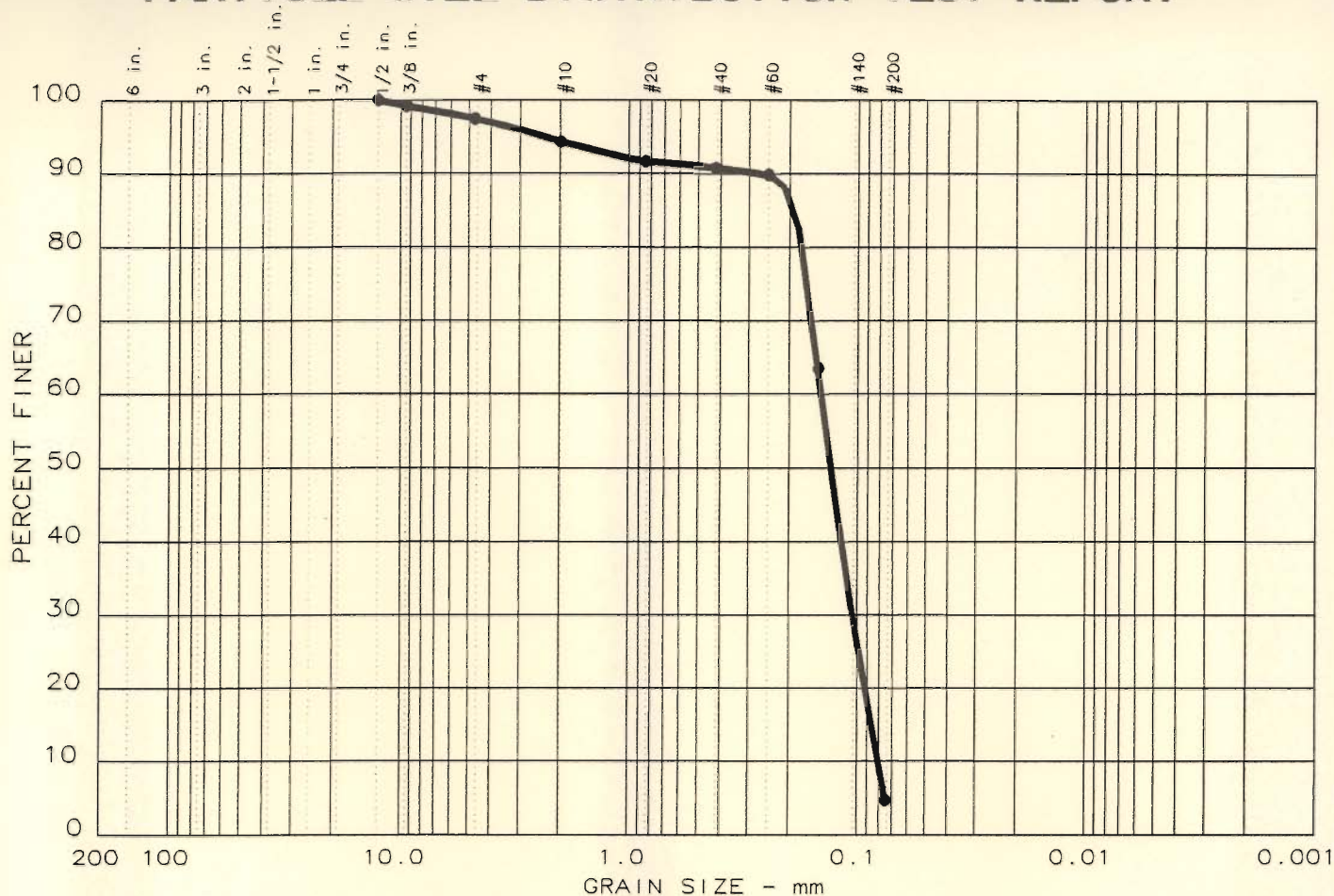
Sample depth 3'-4'

**Eustis
Engineering
Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass
Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	2.5	92.8	4.7		SP		

SIEVE inches size	PERCENT FINER		
	●		
0.5	100.0		
0.375	99.2		
X			
GRAIN SIZE			
D ₆₀	0.15		
D ₃₀	0.10		
D ₁₀	0.08		
X			
COEFFICIENTS			
C _c	0.94		
C _u	1.8		

SIEVE number size	PERCENT FINER		
	●		
4	97.5		
10	94.3		
20	91.6		
40	90.8		
60	89.9		
100	63.5		
200	4.7		

Sample information:
 ● Boring 4, Sample 5
 Loose gray FINE SAND
 w/ shell fragments

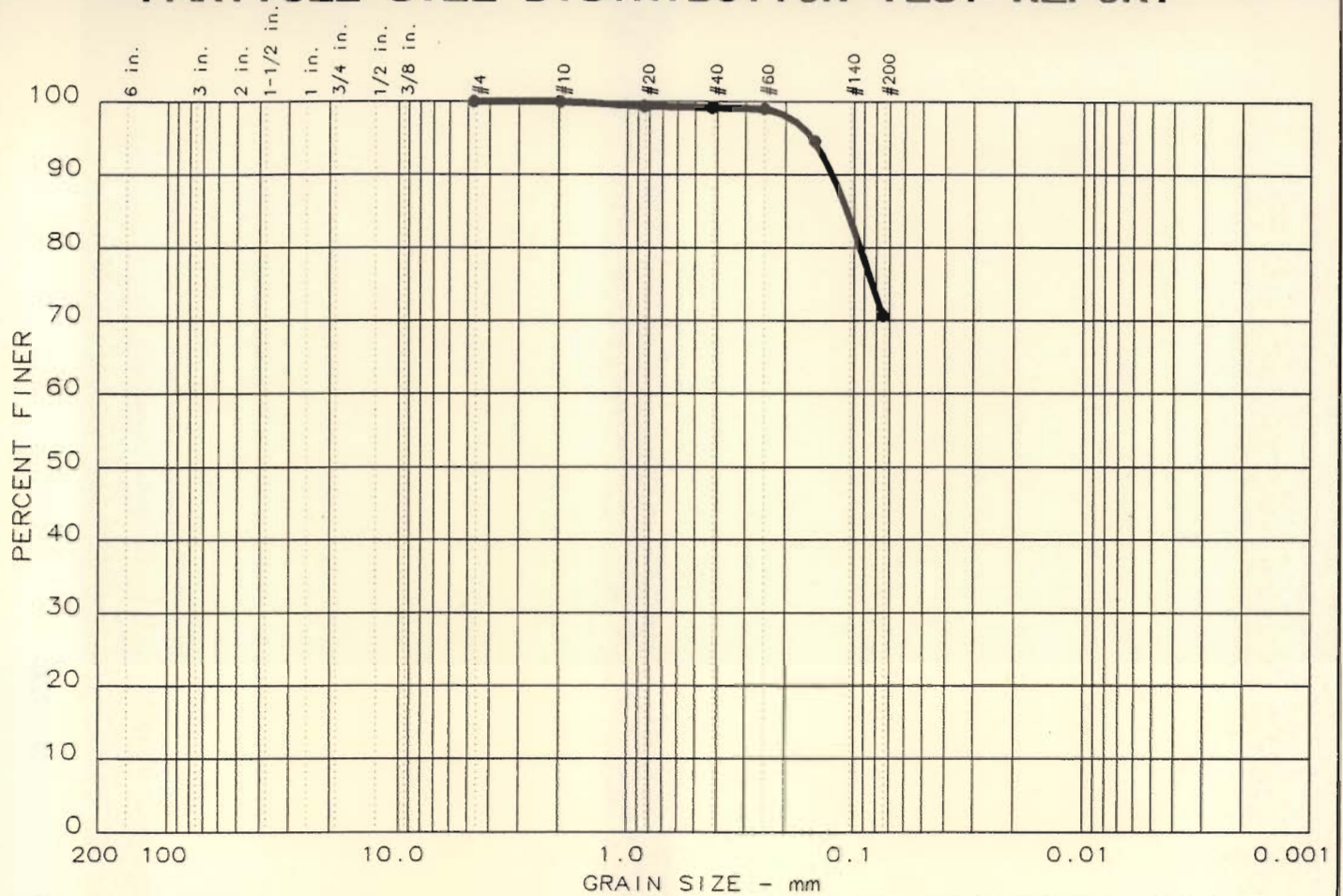
Remarks:
 Sample depth 9'-10'

**Eustis
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Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass
 Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	29.3	70.7		CH		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.9		
20	99.3		
40	99.1		
60	99.0		
100	94.6		
200	70.7		

Sample information:

- Boring 4, Sample 8
- Soft gray CLAY
- w/fine sand lay & tr sh

Remarks:

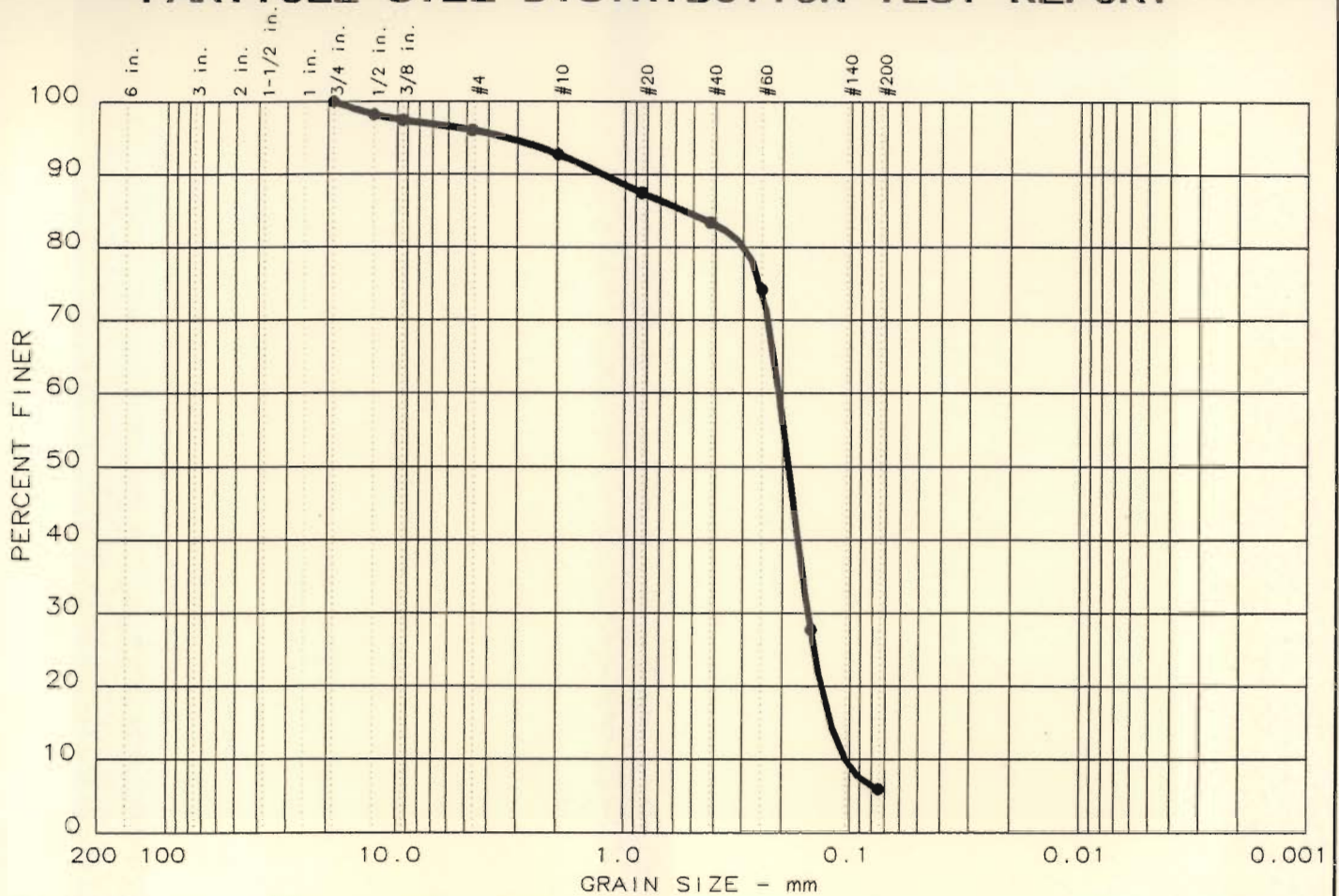
Sample depth 15'-16'

**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass
 Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	4.0	90.1	5.9		SP-SM		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
0.5	98.2		
0.375	97.4		
GRAIN SIZE			
D ₆₀	0.21		
D ₃₀	0.15		
D ₁₀	0.10		
COEFFICIENTS			
C _c	1.09		
C _u	2.0		

SIEVE number size	PERCENT FINER		
4	96.0		
10	92.7		
20	87.5		
40	83.4		
60	74.2		
100	27.7		
200	5.9		

Sample information:

- Boring 7, Sample 1
- Loose tan & gray FINE SAND w/ si & sh frag

Remarks:

Sample depth 1'-2'

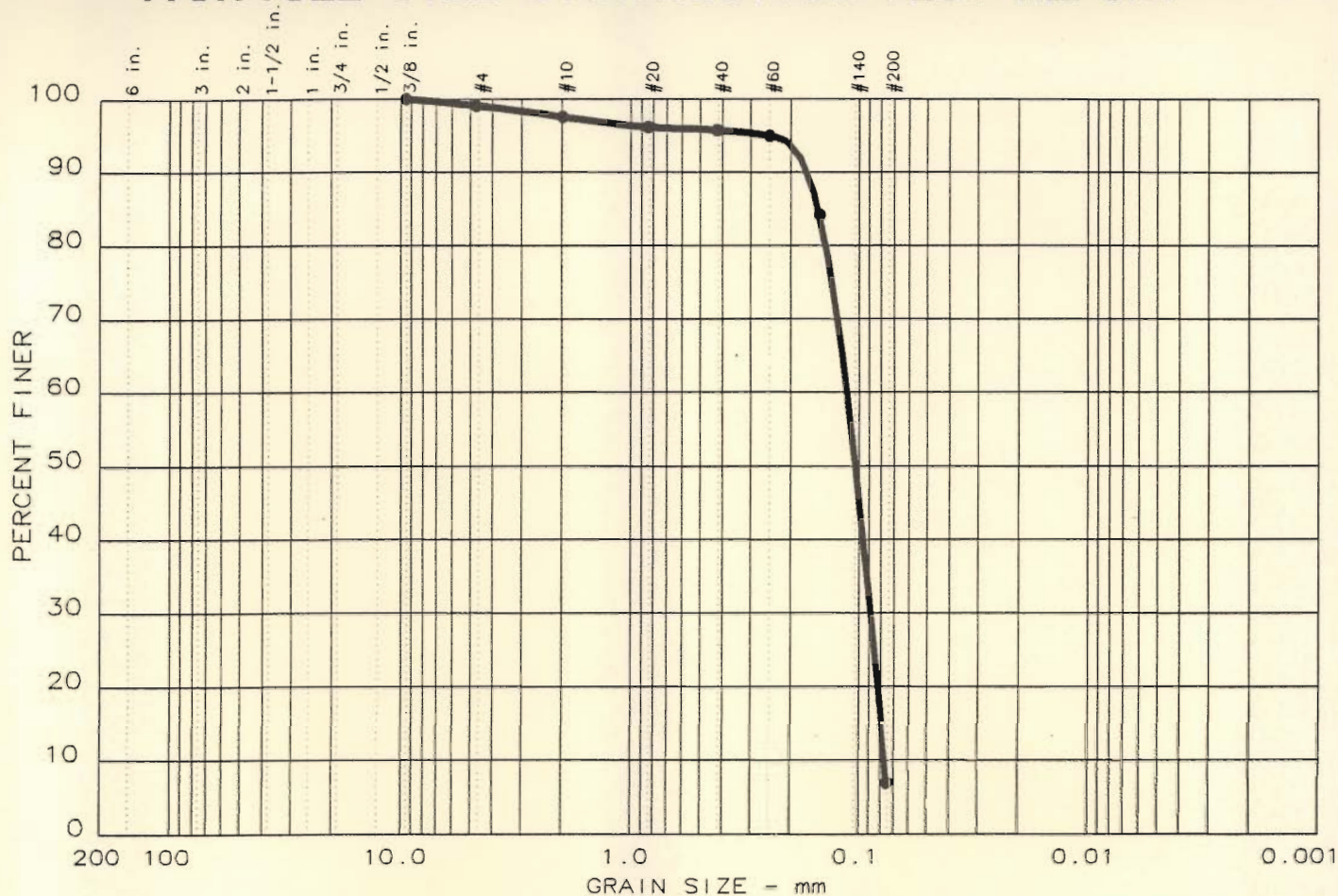
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass

Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.9	92.1	7.0		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X			
GRAIN SIZE			
D ₆₀	0.11		
D ₃₀	0.09		
D ₁₀	0.07		
X			
COEFFICIENTS			
C _c	0.91		
C _u	1.5		

SIEVE number size	PERCENT FINER		
4	99.1		
10	97.6		
20	96.2		
40	95.8		
60	95.0		
100	84.2		
200	7.0		

Sample information:

- Boring 7, Sample 4
- Loose gray FINE SAND
- w/ si & sh frags

Remarks:

Sample depth 7'-8'

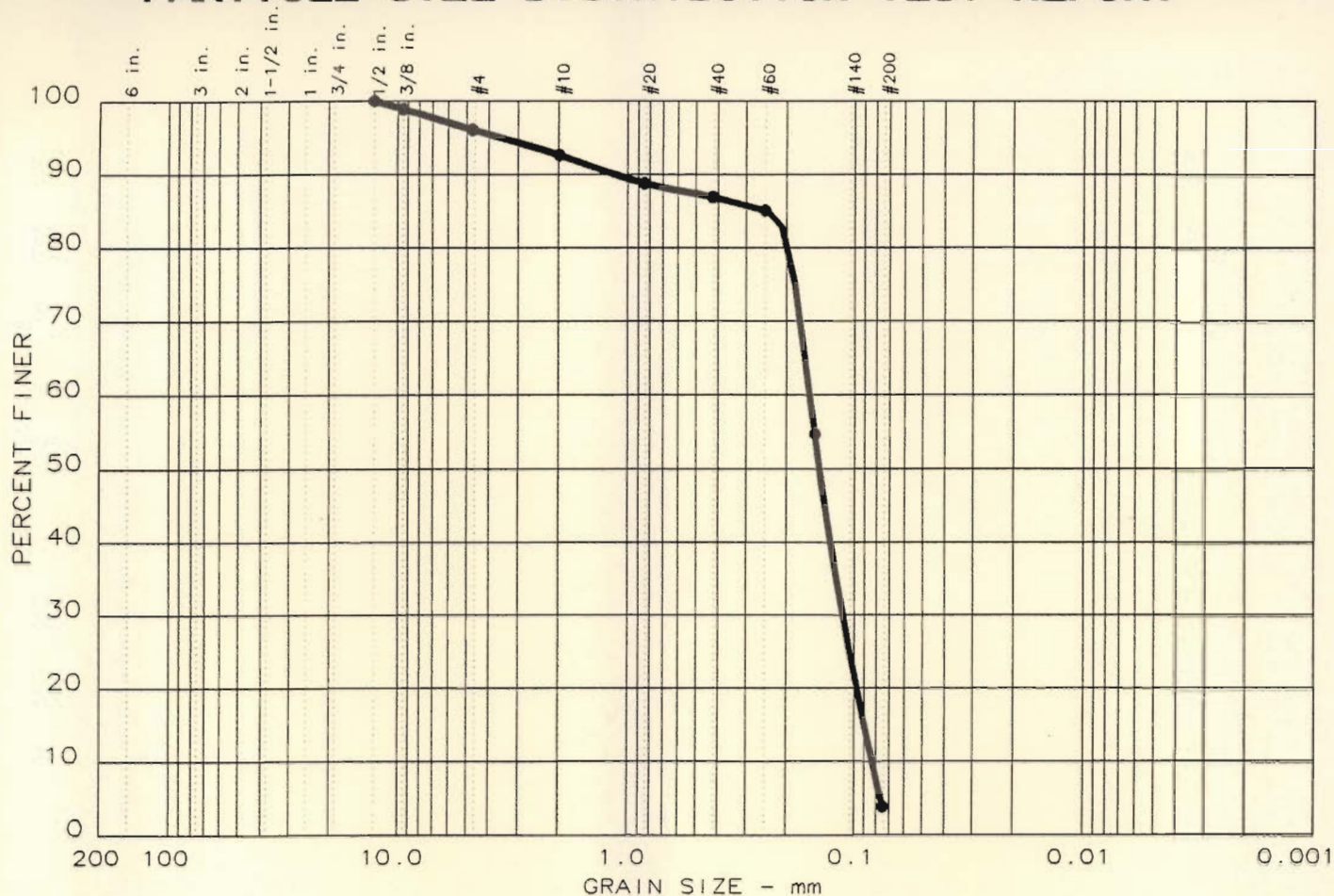
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass

Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	3.9	92.2	3.9		SP		

SIEVE inches size	PERCENT FINER		
	●		
0.5	100.0		
0.375	98.9		
X			
GRAIN SIZE			
D ₆₀	0.16		
D ₃₀	0.11		
D ₁₀	0.08		
X			
COEFFICIENTS			
C _c	0.96		
C _u	1.9		

SIEVE number size	PERCENT FINER		
	●		
4	96.1		
10	92.6		
20	88.8		
40	86.9		
60	85.1		
100	54.7		
200	3.8		

Sample information:

● Boring 7, Sample 6
Loose gray FINE SAND
w/ shell fragments

Remarks:

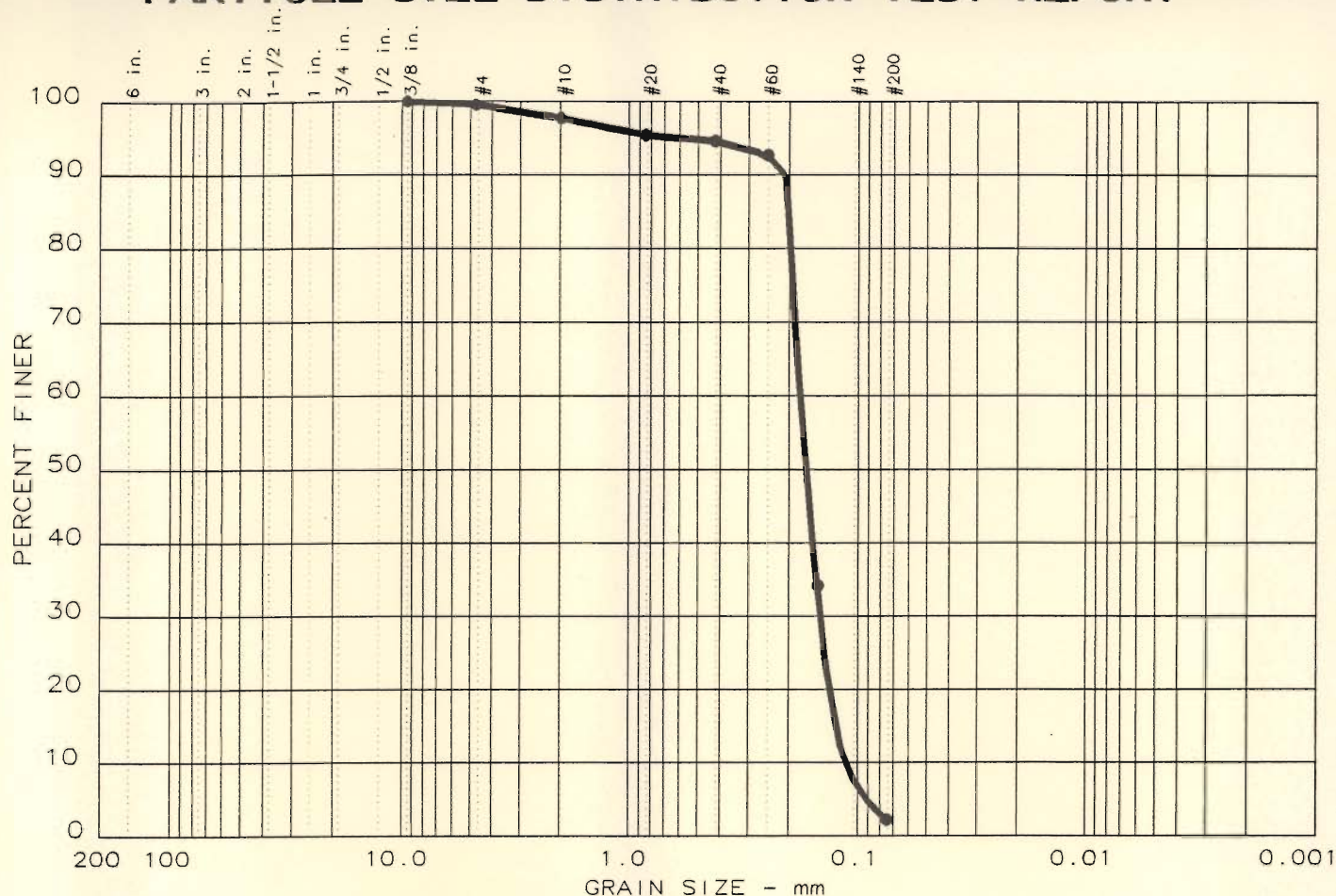
Sample depth 11'-12'

**Eustis
Engineering
Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass
Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.5	97.3	2.2		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.18		
D ₃₀	0.15		
D ₁₀	0.11		
X COEFFICIENTS			
C _c	1.05		
C _u	1.6		

SIEVE number size	PERCENT FINER		
4	99.5		
10	97.6		
20	95.4		
40	94.5		
60	92.6		
100	34.2		
200	2.2		

Sample information:

- Boring 9, Sample 2
- Loose tan & gray FINE SAND w/ shell fragments

Remarks:

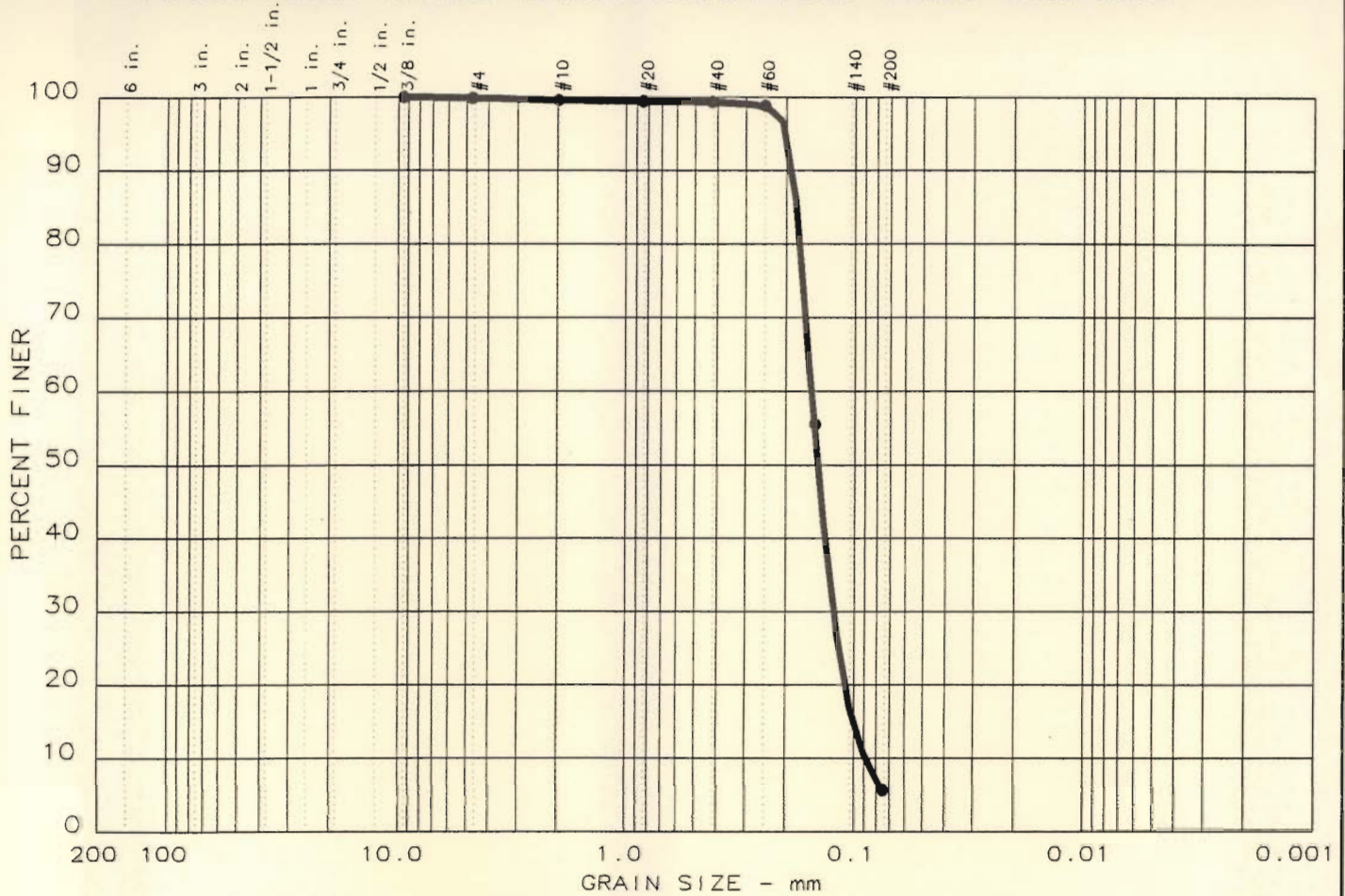
Sample depth 3'-4'

**Eustis
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Company, Inc.**

Project No.: 15300
Project: DNR / Whiskey Pass
Date: 03-26-98

Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	94.2	5.7		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.15		
D ₃₀	0.12		
D ₁₀	0.08		
X COEFFICIENTS			
C _c	1.12		
C _u	1.7		

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.6		
20	99.4		
40	99.3		
60	98.8		
100	55.5		
200	5.6		

Sample information:
 • Boring 9, Sample 6
 Loose gray FINE SAND
 w/ si & few sh frags

Remarks:
 Sample depth 11'-12'

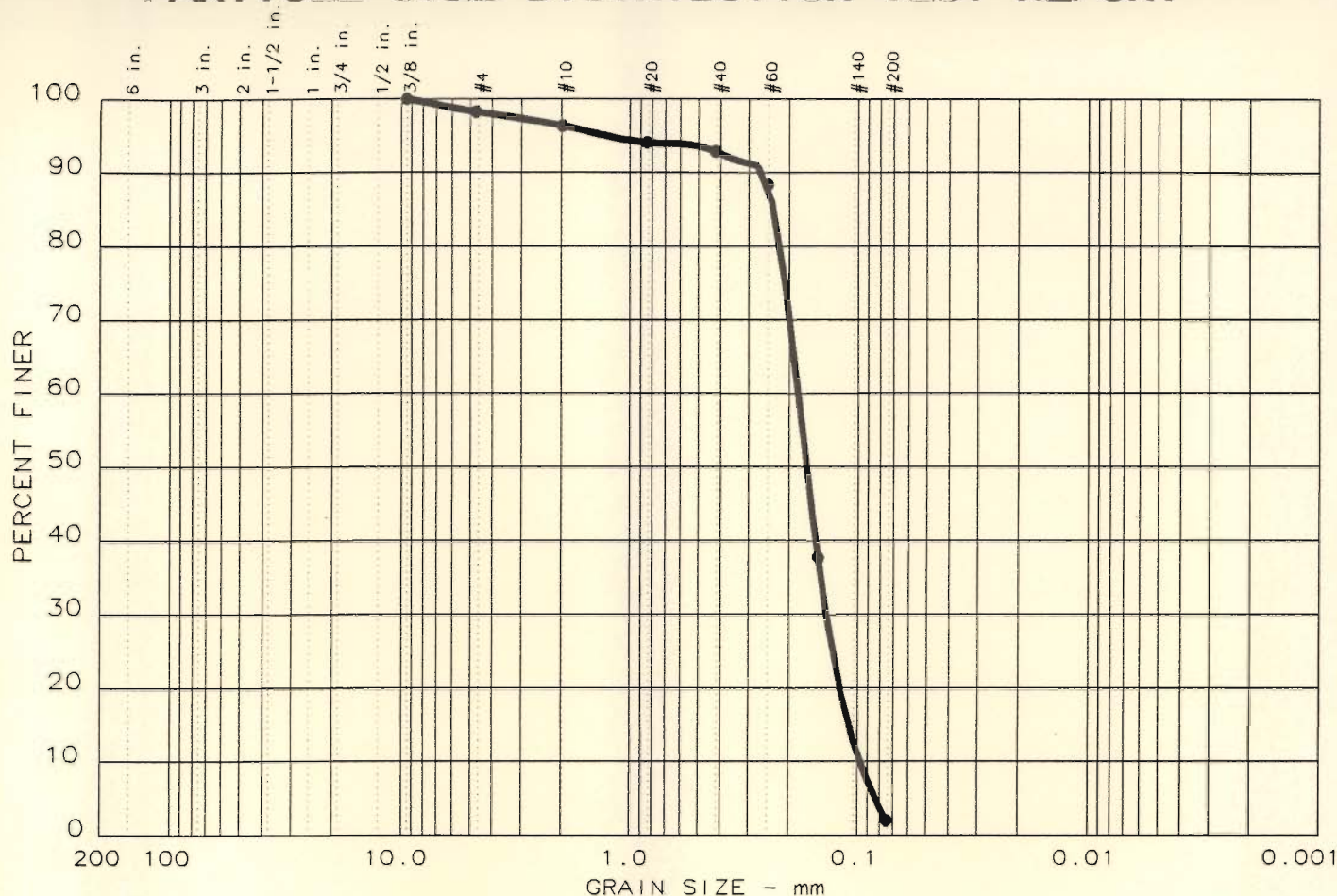
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	1.8	96.3	1.9		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.18		
D ₃₀	0.14		
D ₁₀	0.09		
COEFFICIENTS			
C _c	1.07		
C _u	1.9		

SIEVE number size	PERCENT FINER		
4	98.2		
10	96.3		
20	94.1		
40	92.9		
60	88.3		
100	37.7		
200	2.0		

Sample information:
 • Boring 10, Sample 3
 Loose tan & gray FINE
 SAND w/shell fragments

Remarks:
 Sample depth 5'-6'

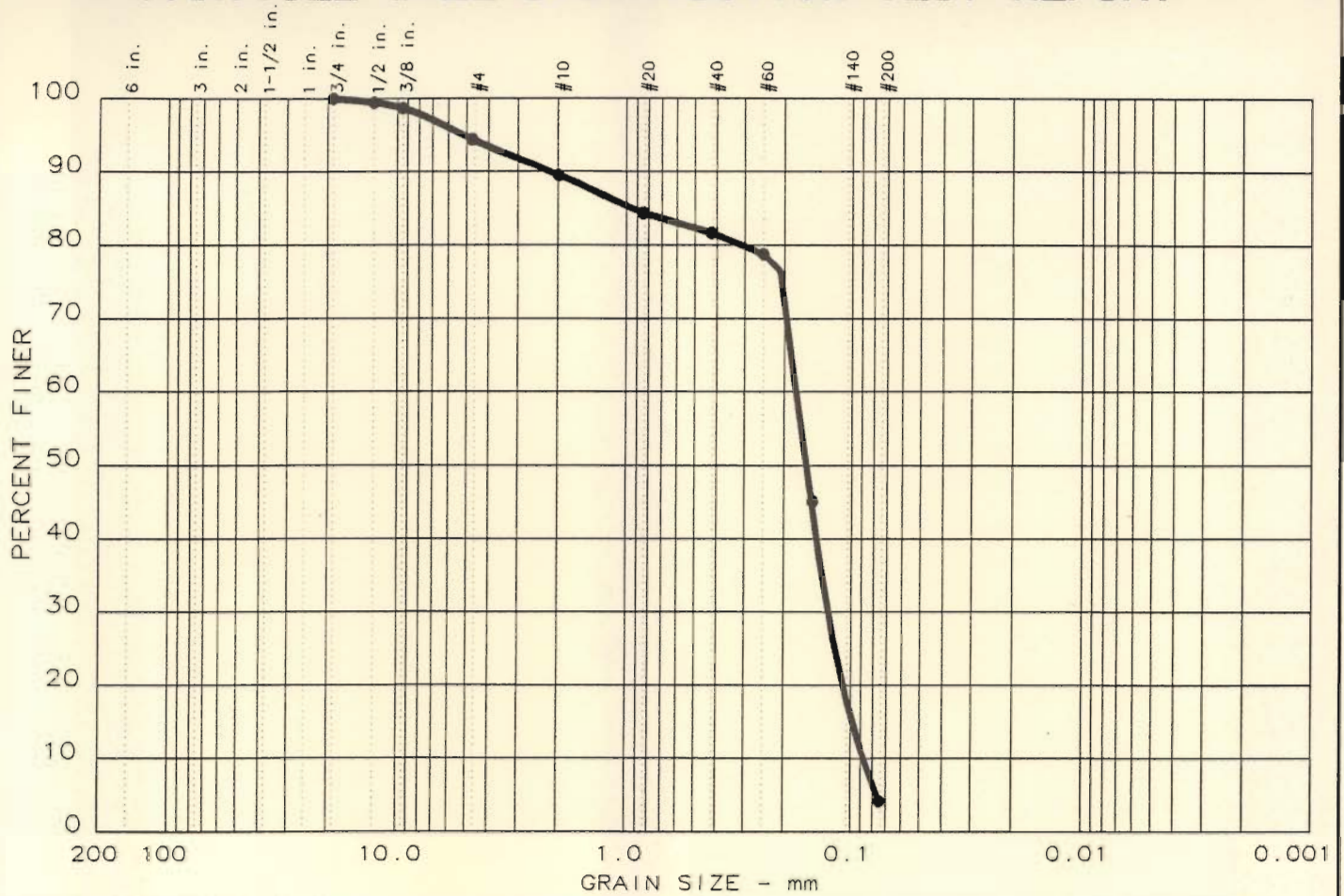
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-26-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	5.6	90.3	4.1		SP		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
0.5	99.4		
0.375	98.7		
X GRAIN SIZE			
D ₆₀	0.18		
D ₃₀	0.13		
D ₁₀	0.08		
X COEFFICIENTS			
C _c	1.03		
C _u	2.0		

SIEVE number size	PERCENT FINER		
4	94.4		
10	89.4		
20	84.4		
40	81.7		
60	78.8		
100	45.1		
200	4.1		

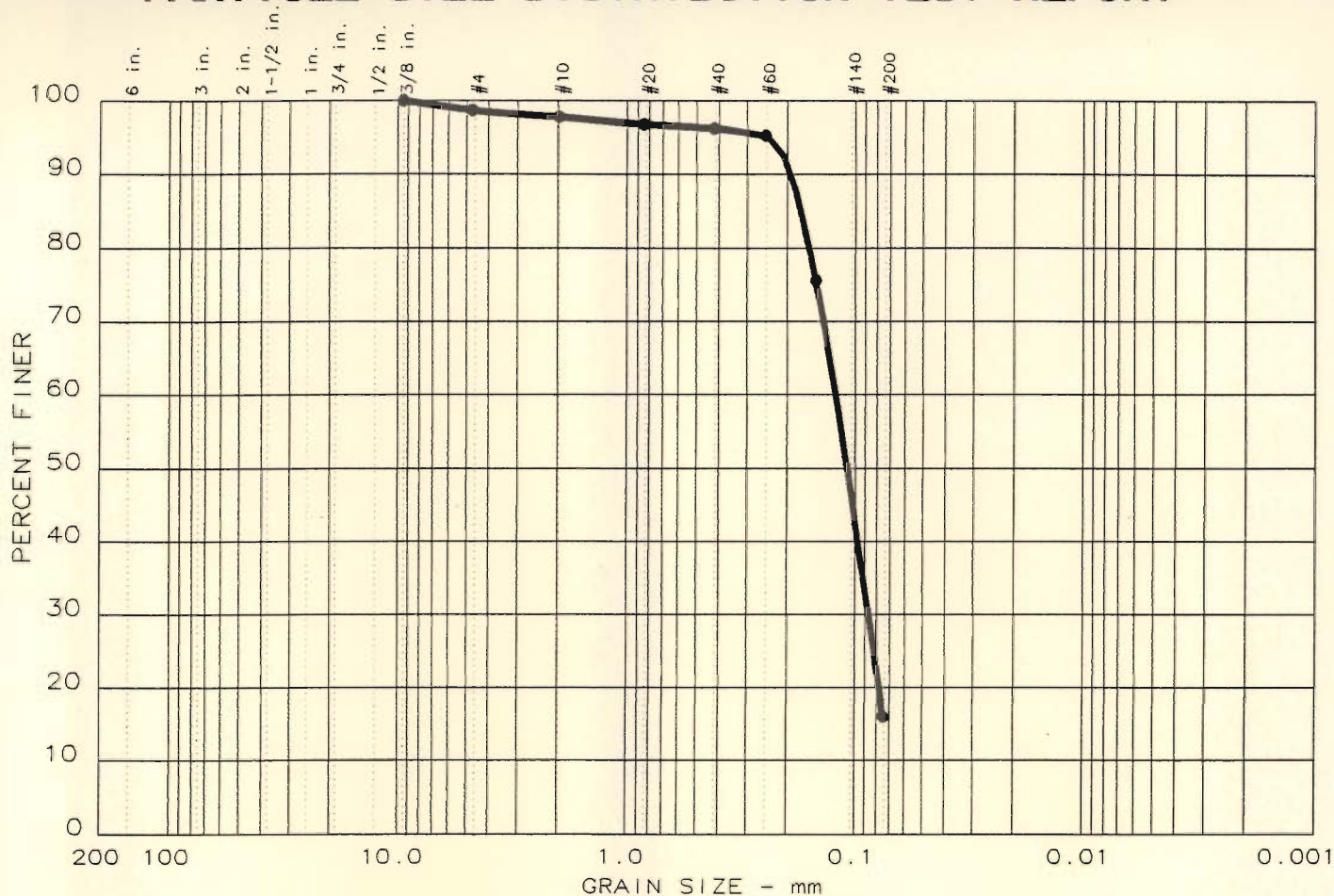
Sample information:

- Boring 10, Sample 5
- Loose tan & gray FINE SAND w/shell fragments

Remarks:

Sample depth 9'-10'

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	1.3	82.7	16.0		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.12		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	98.7		
10	97.8		
20	96.8		
40	96.2		
60	95.2		
100	75.6		
200	16.0		

Sample information:

- Boring 10, Sample 7
- Loose gray CLAYEY SAND w/ shell fragments

Remarks:

Sample depth 13'-14'

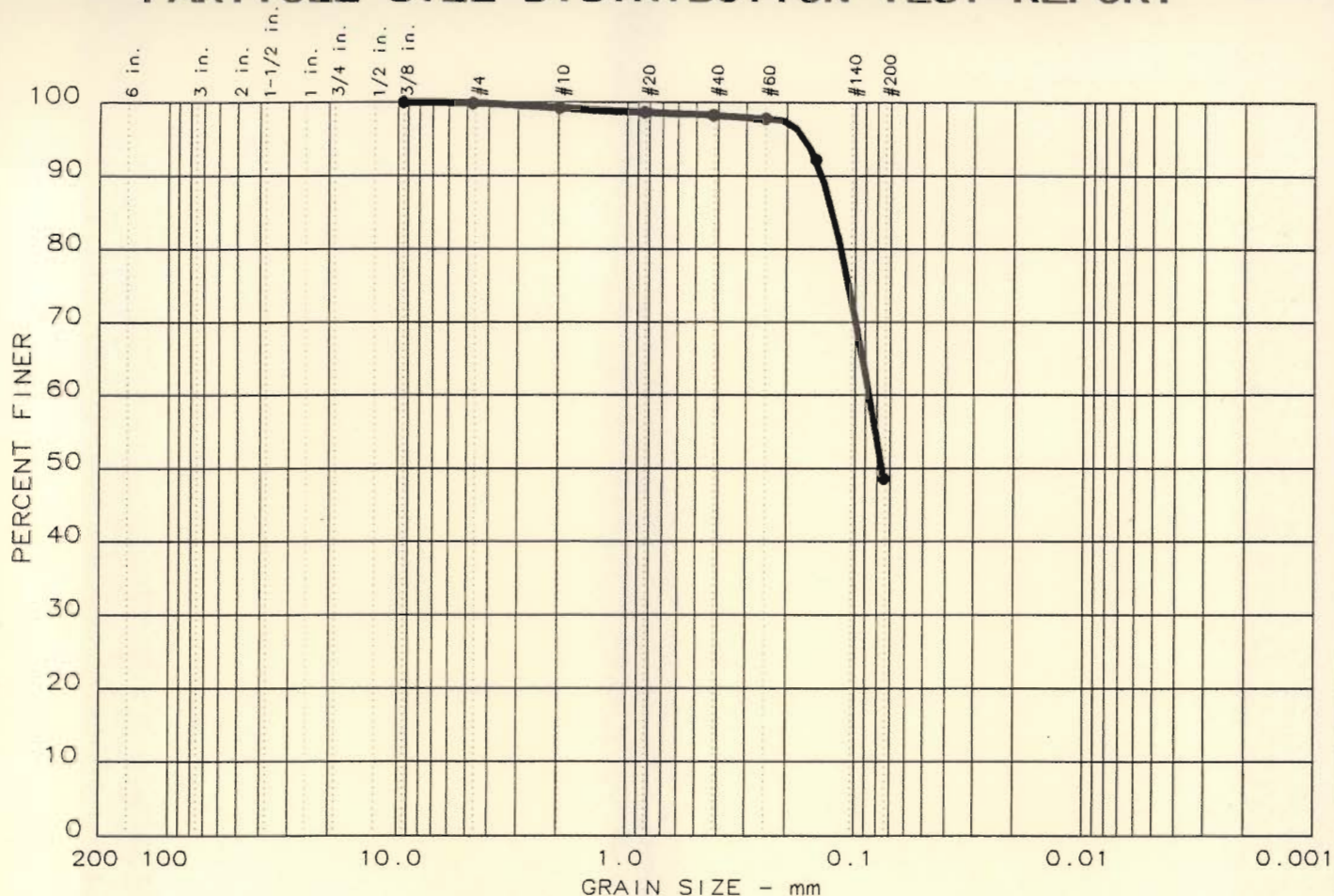
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	51.3	48.5		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.09		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.2		
20	98.6		
40	98.2		
60	97.8		
100	92.2		
200	48.6		

Sample information:

- Boring 11, Sample 2
- Loose gray CLAYEY SAND
- w/ sacle len & sh frag

Remarks:

Sample depth 3'-4'

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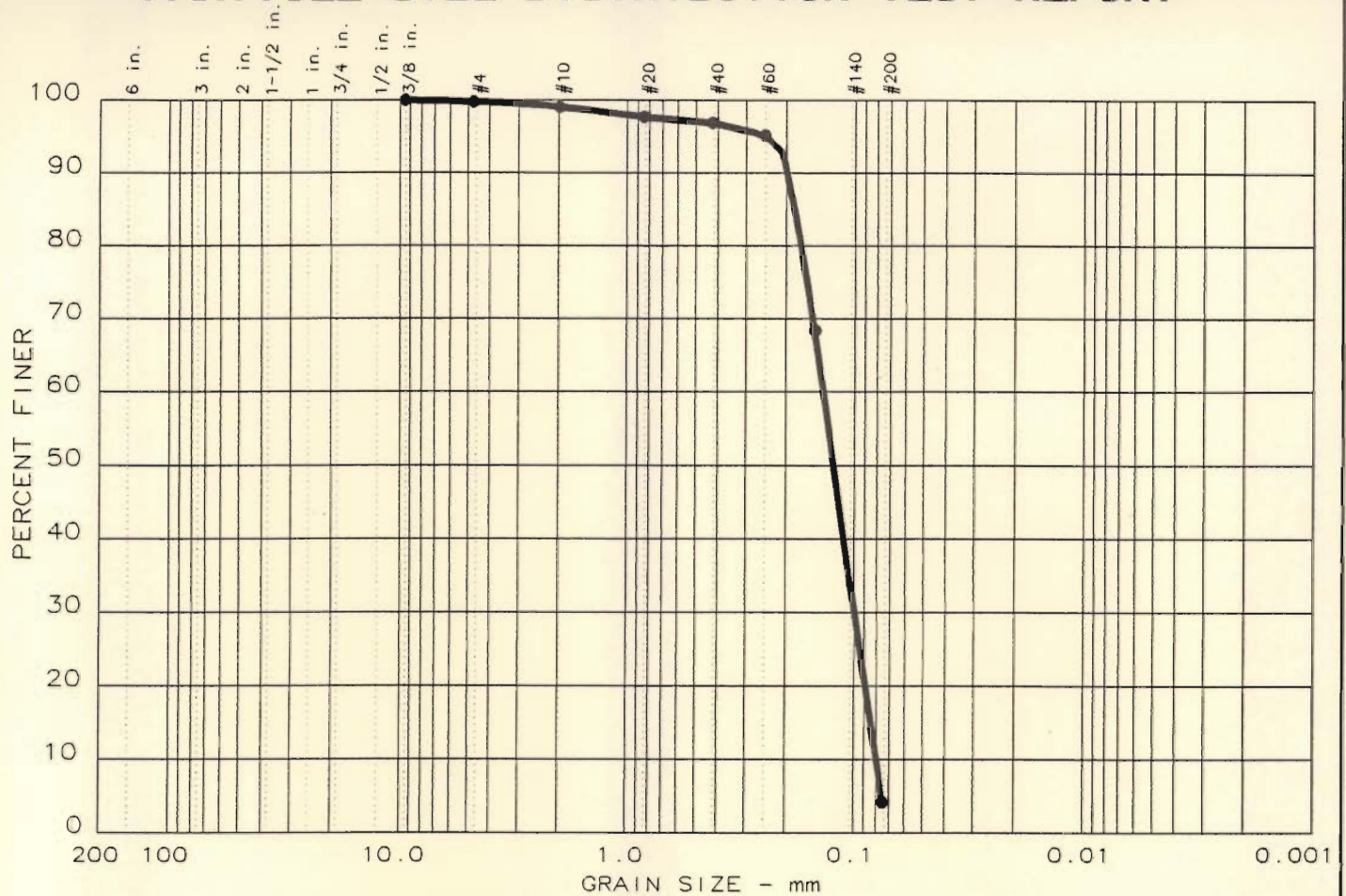
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.3	95.6	4.1		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.14		
D ₃₀	0.10		
D ₁₀	0.08		
COEFFICIENTS			
C _c	0.91		
C _u	1.7		

SIEVE number size	PERCENT FINER		
4	99.7		
10	99.0		
20	97.7		
40	96.8		
60	95.1		
100	68.4		
200	4.2		

Sample information:
 • Boring 11, Sample 4
 Loose gray FINE SAND
 w/ shell fragments

Remarks:
 Sample depth 7"-8"

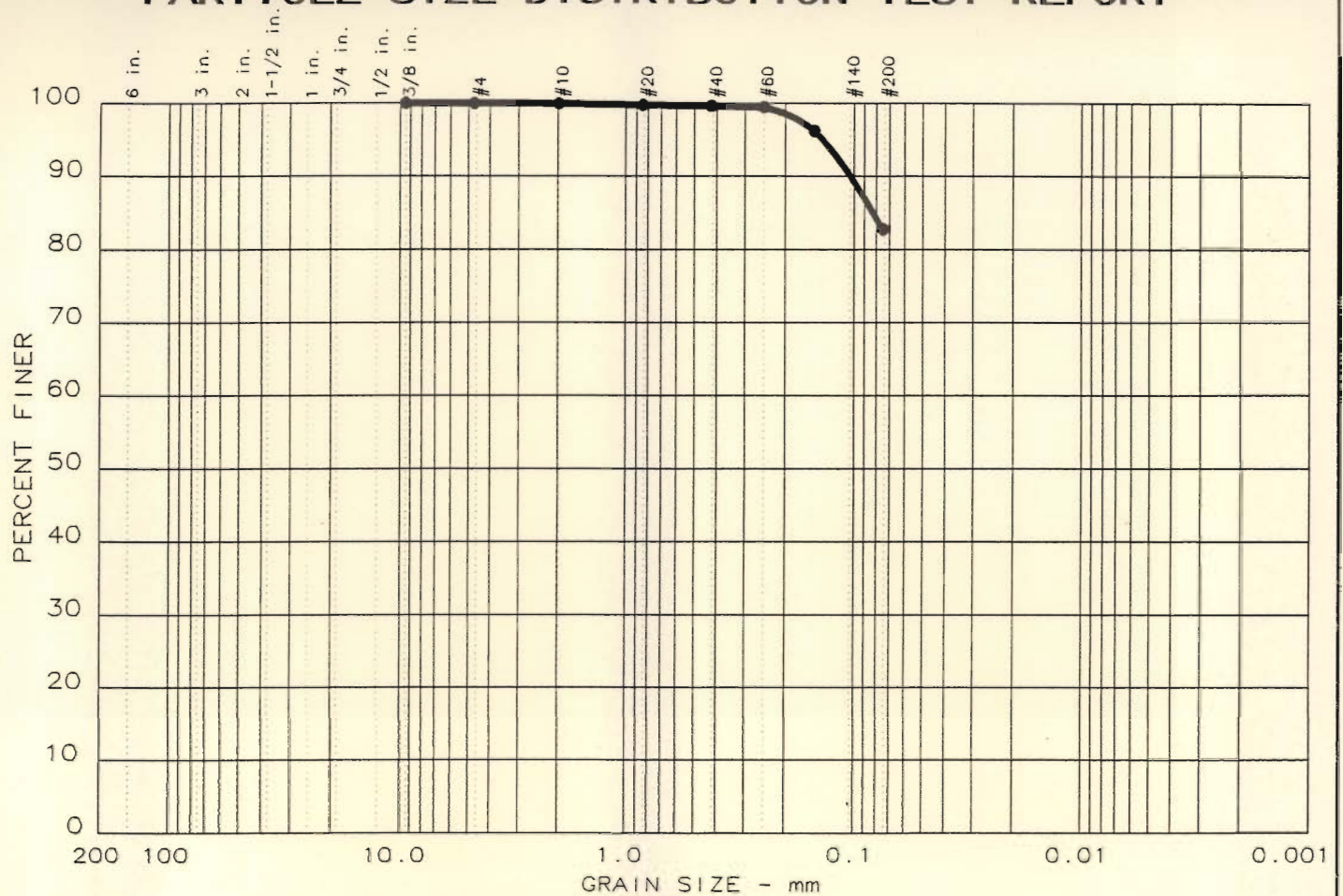
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	17.2	82.8		CH		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	100.0		
10	99.9		
20	99.7		
40	99.6		
60	99.4		
100	96.2		
200	82.8		

Sample information:
 • Boring 11, Sample 7
 Very Soft gray CLAY
 w/ fisa lens, sh frags

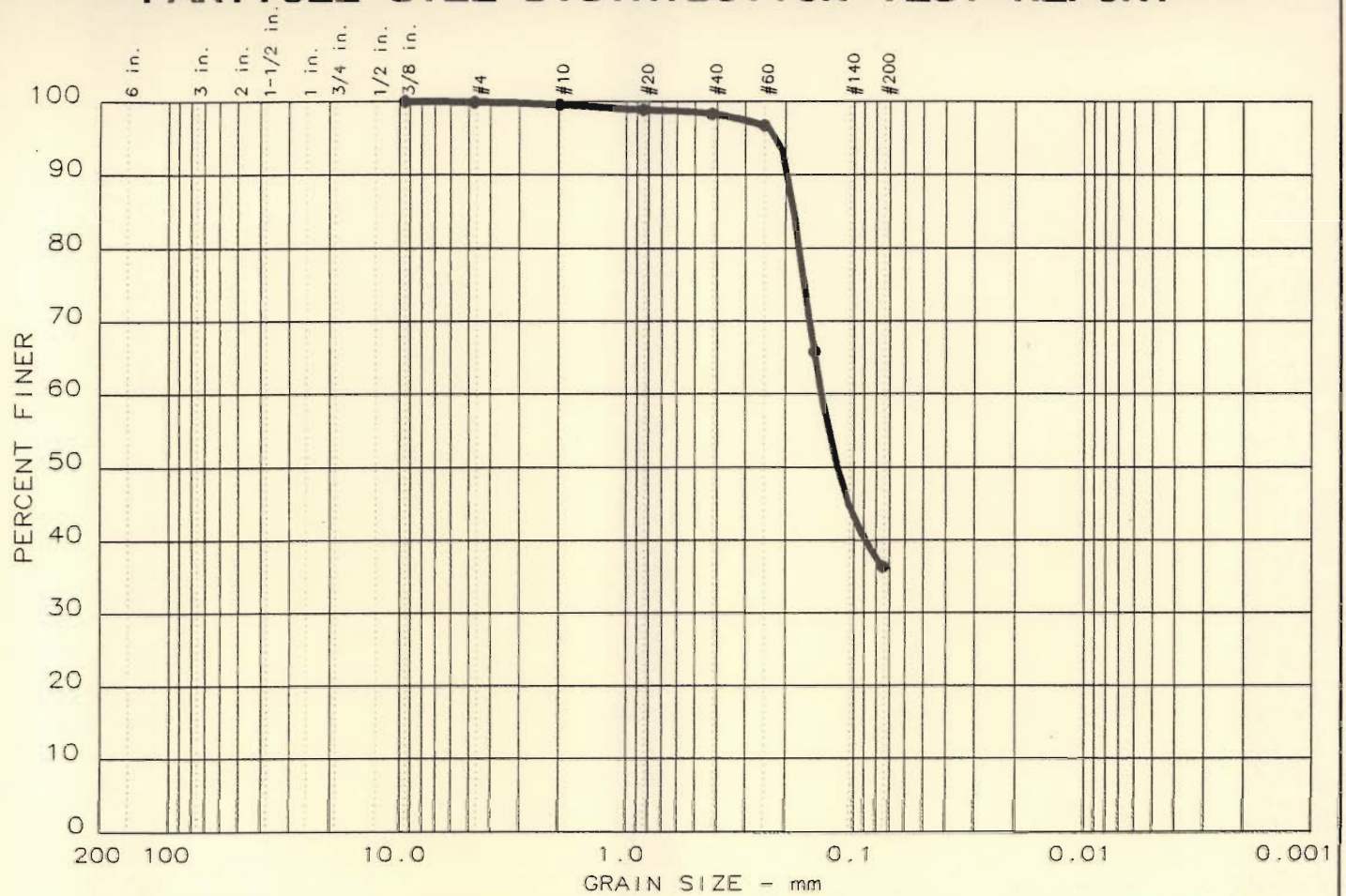
Remarks:
 Sample depth 13'-14'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	63.5	36.4		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.14		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.5		
20	98.9		
40	98.3		
60	96.7		
100	65.9		
200	36.4		

Sample information:
 • Boring 12, Sample 1
 Loose g & t CLAYEY SAND
 w/ cl lay, om, & sh frag

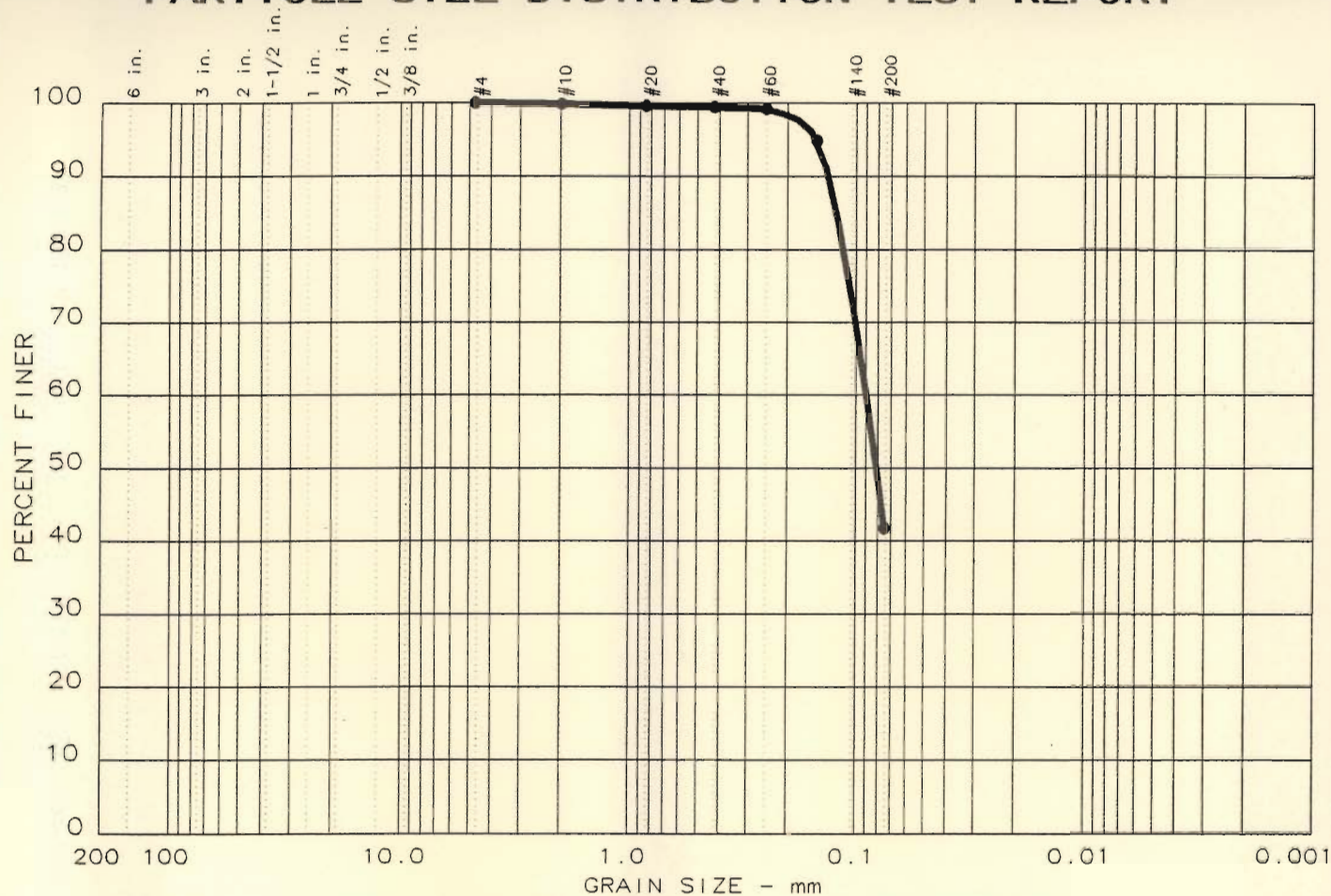
Remarks:
 Sample depth 1'-2"

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	58.3	41.7		SC		

SIEVE inches size	PERCENT FINER		
	●		
X	GRAIN SIZE		
D ₆₀ D ₃₀ D ₁₀	0.09		
X	COEFFICIENTS		
C _c C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.8		
20	99.6		
40	99.4		
60	99.2		
100	94.9		
200	41.7		

Sample information:

- Boring 12, Sample 4
Loose gray CLAYEY SAND
w/ cl lay & sh frags

Remarks:

Sample depth 7'-8'

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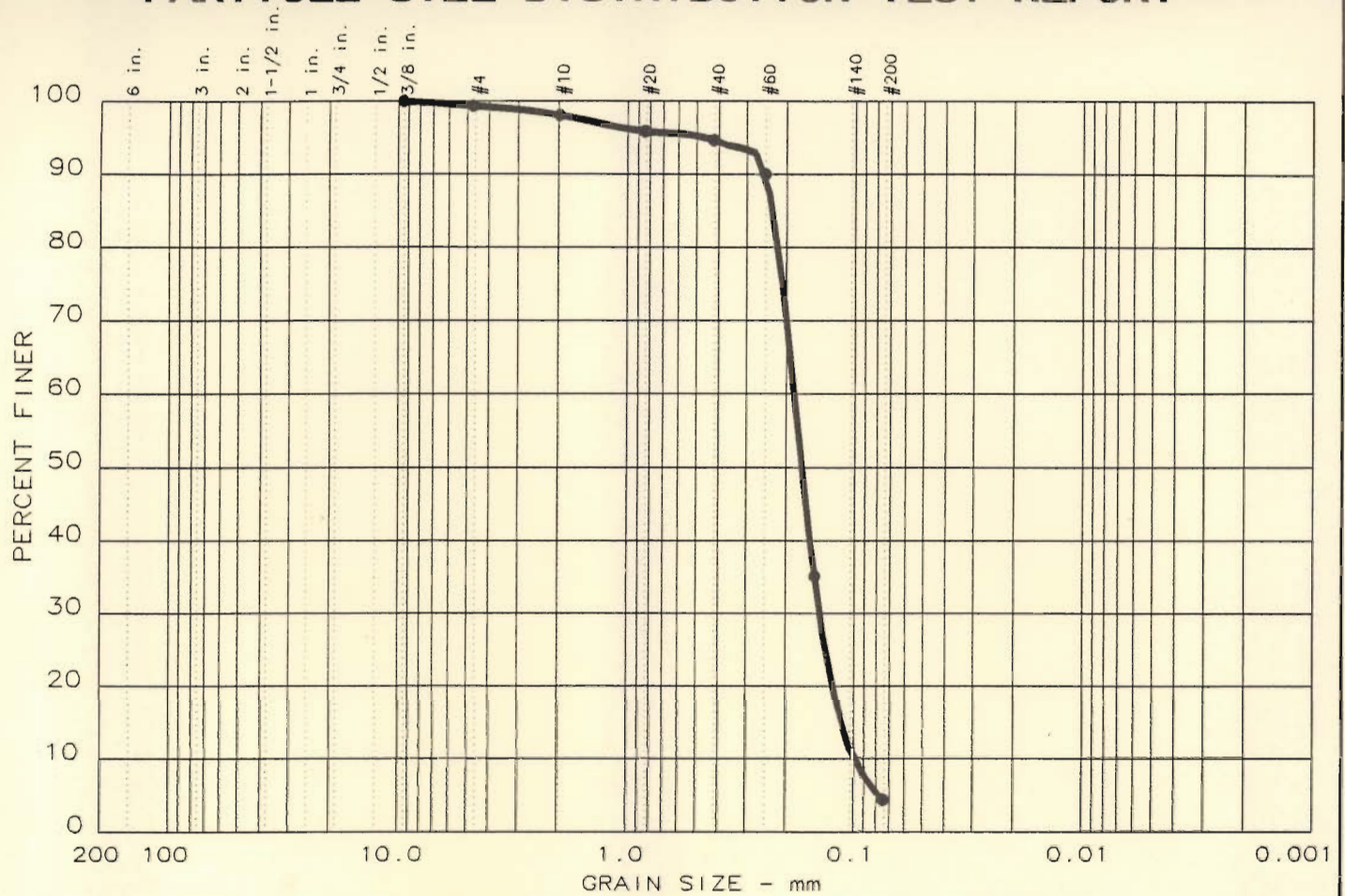
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.7	95.1	4.2		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.18		
D ₃₀	0.14		
D ₁₀	0.10		
COEFFICIENTS			
C _c	1.10		
C _u	1.8		

SIEVE number size	PERCENT FINER		
4	99.3		
10	98.0		
20	95.8		
40	94.6		
60	90.0		
100	35.2		
200	4.2		

Sample information:
 • Boring 14, Sample 1
 Loose gray & tan FINE SAND w/ sh frag

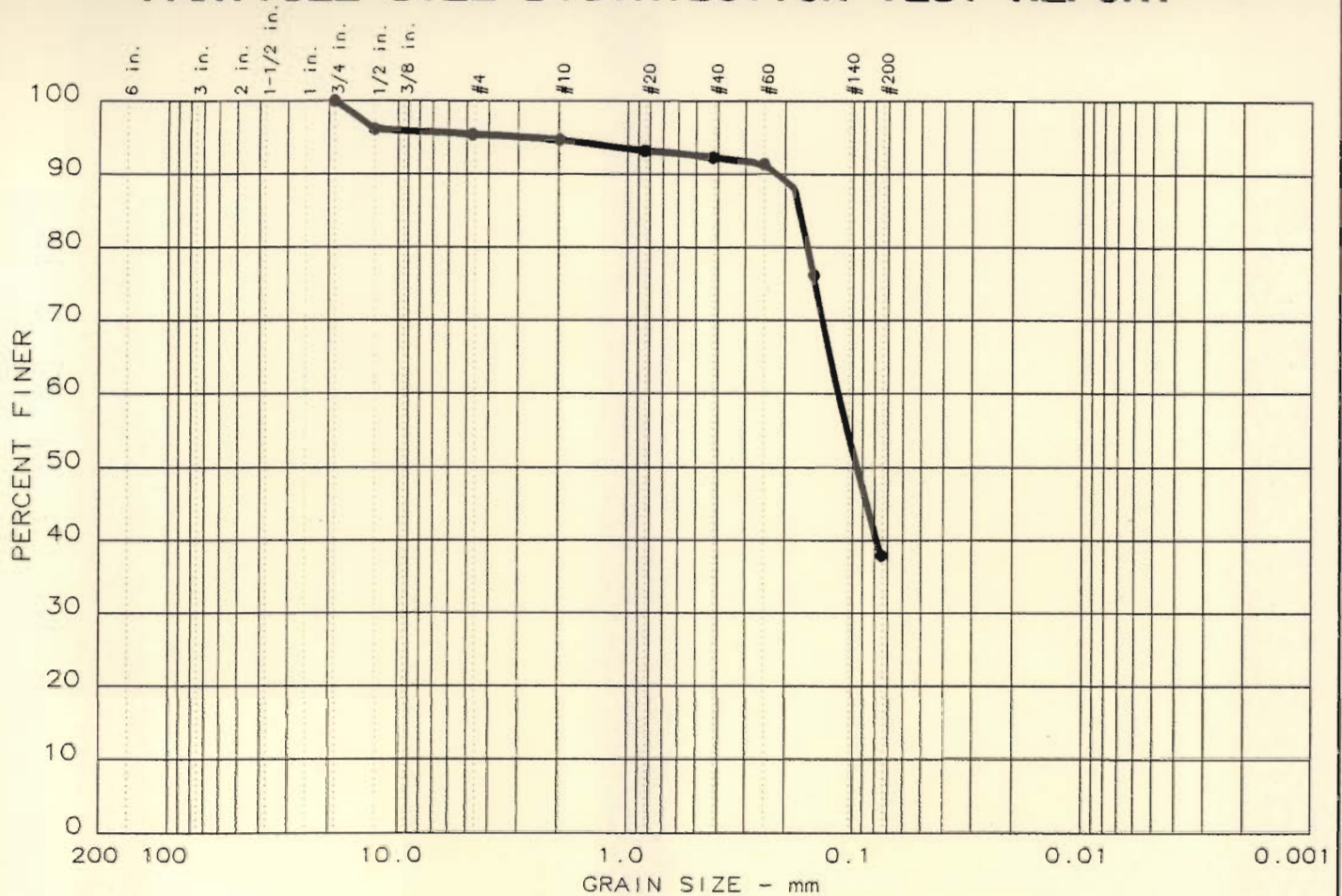
Remarks:
 Sample depth 1'-2'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	4.6	57.4	38.0		SC		

SIEVE inches size	PERCENT FINER		
	●		
0.75	100.0		
0.5	96.1		
X GRAIN SIZE			
D ₆₀	0.12		
D ₃₀			
D ₁₀			
X COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	95.4		
10	94.7		
20	93.2		
40	92.3		
60	91.3		
100	76.2		
200	37.9		

Sample information:
 ● Boring 14, Sample 3
 Very Loose gray CLAYEY
 SAND w/ sh frags

Remarks:
 Sample depth 5'-6'

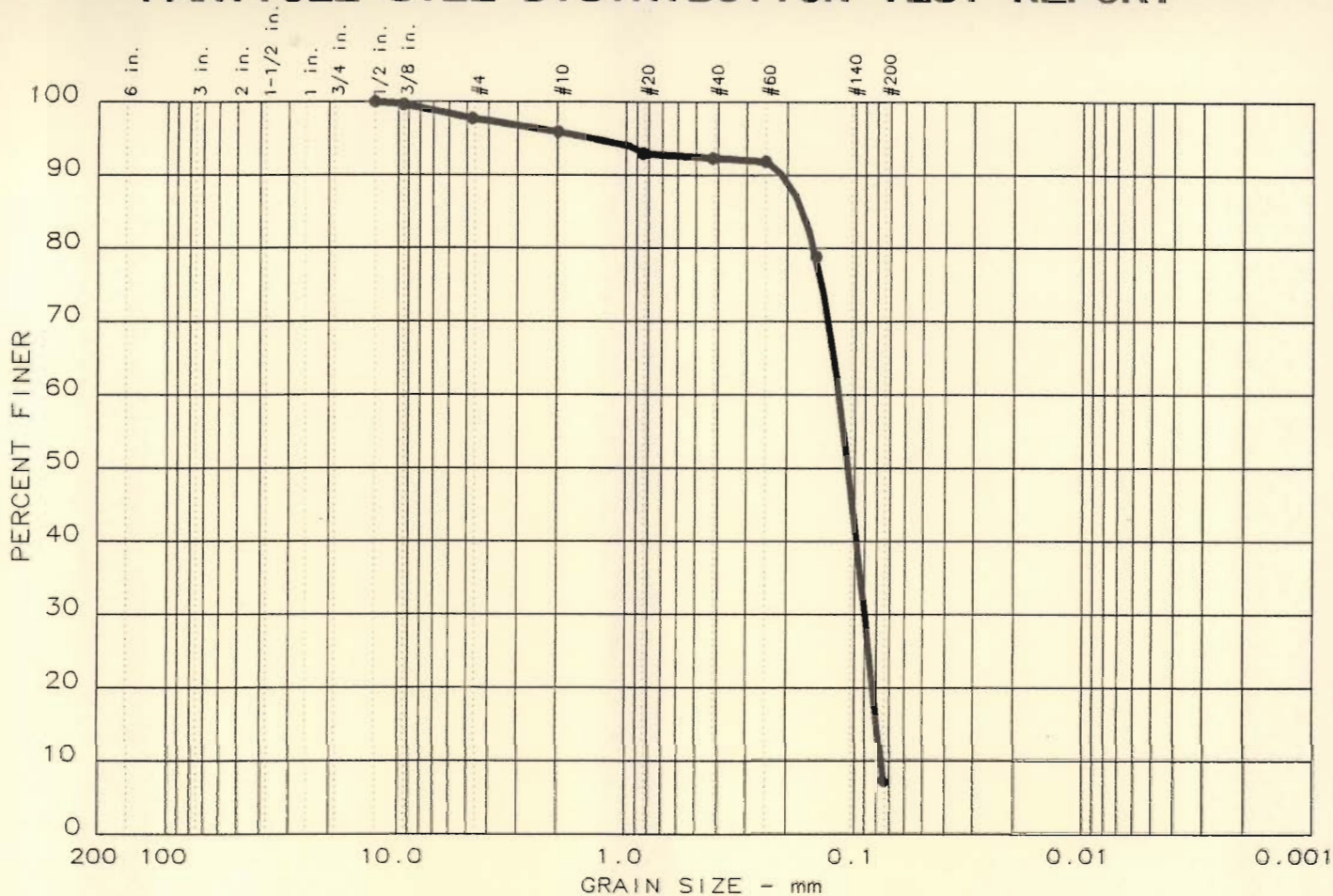
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	2.3	90.5	7.2		SP-SM		

SIEVE inches size	PERCENT FINER		
0.5	100.0		
0.375	99.6		
	GRAIN SIZE		
D ₆₀	0.12		
D ₃₀	0.09		
D ₁₀	0.07		
	COEFFICIENTS		
C _c	0.90		
C _u	1.5		

SIEVE number size	PERCENT FINER		
4	97.7		
10	95.9		
20	92.9		
40	92.3		
60	91.9		
100	78.8		
200	7.2		

Sample information:

- Boring 14, Sample 6
- Loose gray FINE SAND
- w/ si & sh frags

Remarks:

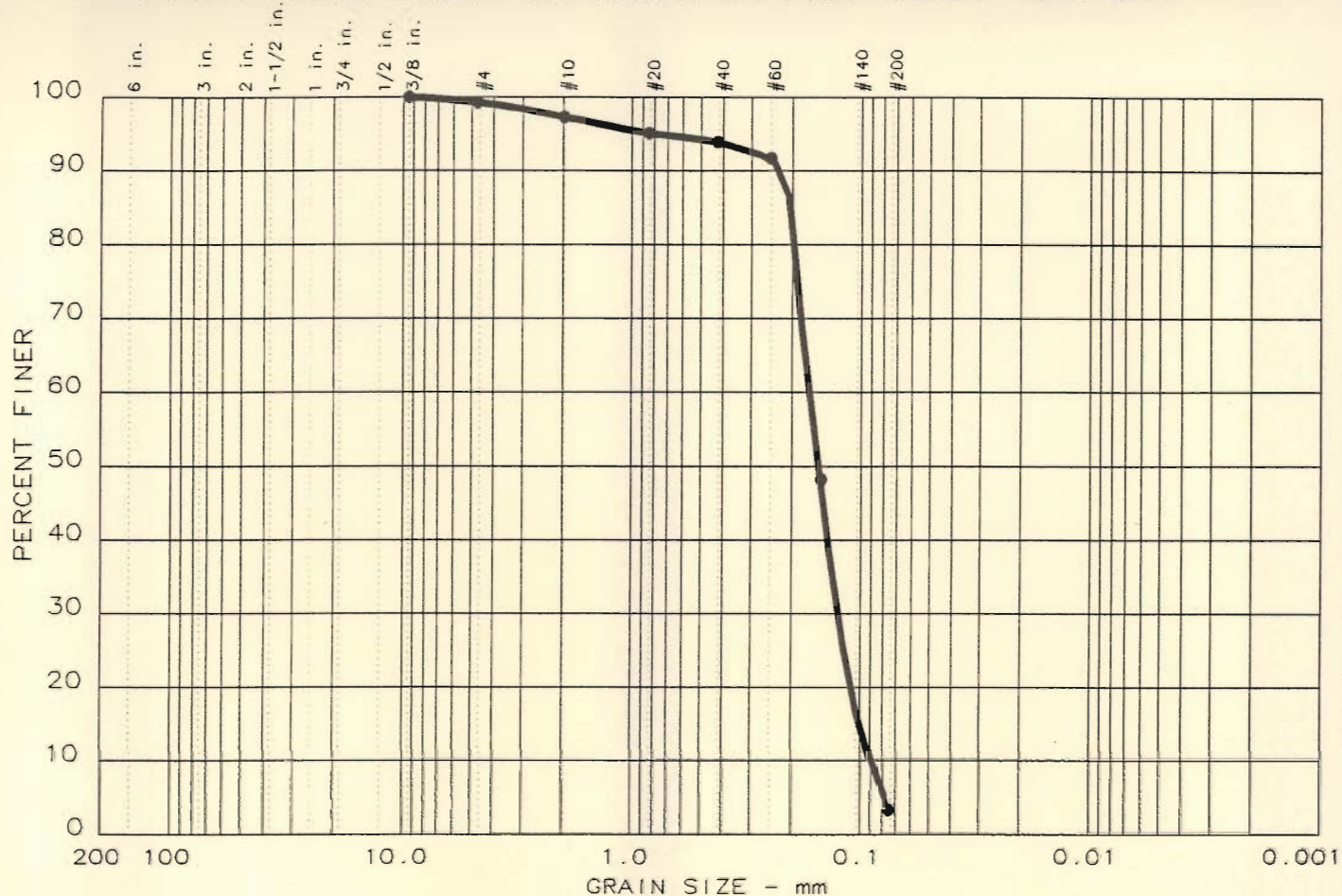
Sample depth 11'-12'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.8	95.9	3.3		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.17		
D ₃₀	0.13		
D ₁₀	0.09		
COEFFICIENTS			
C _c	1.05		
C _u	1.9		

SIEVE number size	PERCENT FINER		
4	99.2		
10	97.2		
20	95.1		
40	93.9		
60	91.7		
100	48.2		
200	3.3		

Sample information:
 • Boring 15, Sample 2
 Loose tan & gray FINE
 SAND w/ few sh frag

Remarks:
 Sample depth 3'-4'

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Grain size distribution curve for a sample of fine sand. The graph plots Percent Finer (0-100) against Grain Size in mm (log scale, 200 to 0.001). The curve shows that approximately 98% of the material is finer than 0.425 mm (No. 40 sieve) and about 5% is finer than 0.075 mm (No. 200 sieve).

Grain Size (mm)	Grain Size (in.)	Sieve	Percent Finer (%)
200	8 in.		100
100	4 in.		100
60	2.5 in.		100
40	1.6 in.	No. 40	98
20	0.85 in.	No. 20	98
10	0.425 in.	No. 10	98
6	0.25 in.	No. 6	98
4	0.16 in.	No. 4	98
2	0.085 in.	No. 2	98
1	0.0425 in.	No. 1	98
0.6	0.025 in.	No. 60	95
0.425	0.016 in.	No. 40	98
0.25	0.0085 in.	No. 20	98
0.15	0.00425 in.	No. 10	98
0.075	0.0025 in.	No. 6	98
0.0425	0.0016 in.	No. 4	98
0.025	0.00085 in.	No. 2	98
0.015	0.000425 in.	No. 1	98
0.0075	0.00025 in.	No. 60	95
0.00425	0.00016 in.	No. 40	98
0.0025	0.000085 in.	No. 20	98
0.0015	0.0000425 in.	No. 10	98
0.00075	0.000025 in.	No. 6	98
0.000425	0.000016 in.	No. 4	98
0.00025	0.0000085 in.	No. 2	98
0.00015	0.00000425 in.	No. 1	98
0.000075	0.0000025 in.	No. 60	95
0.0000425	0.0000016 in.	No. 40	98
0.000025	0.00000085 in.	No. 20	98
0.000015	0.000000425 in.	No. 10	98
0.0000075	0.00000025 in.	No. 6	98
0.00000425	0.00000016 in.	No. 4	98
0.0000025	0.000000085 in.	No. 2	98
0.0000015	0.0000000425 in.	No. 1	98
0.00000075	0.000000025 in.	No. 60	95
0.000000425	0.000000016 in.	No. 40	98
0.00000025	0.0000000085 in.	No. 20	98
0.00000015	0.00000000425 in.	No. 10	98
0.000000075	0.0000000025 in.	No. 6	98
0.0000000425	0.0000000016 in.	No. 4	98
0.000000025	0.00000000085 in.	No. 2	98
0.000000015	0.000000000425 in.	No. 1	98
0.0000000075	0.00000000025 in.	No. 60	95
0.00000000425	0.00000000016 in.	No. 40	98
0.0000000025	0.000000000085 in.	No. 20	98
0.0000000015	0.0000000000425 in.	No. 10	98
0.00000000075	0.000000000025 in.	No. 6	98
0.000000000425	0.000000000016 in.	No. 4	98
0.00000000025	0.0000000000085 in.	No. 2	98
0.00000000015	0.00000000000425 in.	No. 1	98
0.000000000075	0.0000000000025 in.	No. 60	95
0.0000000000425	0.0000000000016 in.	No. 40	98
0.000000000025	0.00000000000085 in.	No. 20	98
0.000000000015	0.000000000000425 in.	No. 10	98
0.0000000000075	0.00000000000025 in.	No. 6	98
0.00000000000425	0.00000000000016 in.	No. 4	98
0.0000000000025	0.000000000000085 in.	No. 2	98
0.0000000000015	0.0000000000000425 in.	No. 1	98
0.00000000000075	0.000000000000025 in.	No. 60	95
0.000000000000425	0.000000000000016 in.	No. 40	98
0.00000000000025	0.0000000000000085 in.	No. 20	98
0.00000000000015	0.00000000000000425 in.	No. 10	98
0.000000000000075	0.0000000000000025 in.	No. 6	98
0.0000000000000425	0.0000000000000016 in.	No. 4	98
0.000000000000025	0.00000000000000085 in.	No. 2	98
0.000000000000015	0.000000000000000425 in.	No. 1	98
0.00000000000			

Data Sheet No.

Grain size distribution curve for a sample of sand. The graph plots Percent Finer (0 to 100) against Grain Size in mm (200 to 0.001). The curve shows that approximately 95% of the sand is finer than 0.425 mm (No. 40 sieve) and about 7% is finer than 0.075 mm (No. 200 sieve).

Grain Size (mm)	Percent Finer (%)
200	100
100	100
60	100
40	95
30	94
20	75
15	55
10	35
7.5	15
6.0	10
4.75	7
3.0	7
2.0	7
1.5	7
1.18	7
0.85	7
0.75	7
0.60	7
0.425	7
0.30	7
0.25	7
0.20	7
0.15	7
0.125	7
0.106	7
0.085	7
0.075	7
0.060	7
0.050	7
0.0425	7
0.030	7
0.025	7
0.020	7
0.015	7
0.0125	7
0.0106	7
0.0085	7
0.0075	7
0.0060	7
0.0050	7
0.00425	7
0.0030	7
0.0025	7
0.0020	7
0.0015	7
0.00125	7
0.00106	7
0.00085	7
0.00075	7
0.00060	7
0.00050	7
0.000425	7
0.00030	7
0.00025	7
0.00020	7
0.00015	7
0.000125	7
0.000106	7
0.000085	7
0.000075	7
0.000060	7
0.000050	7
0.0000425	7
0.000030	7
0.000025	7
0.000020	7
0.000015	7
0.0000125	7
0.0000106	7
0.0000085	7
0.0000075	7
0.0000060	7
0.0000050	7
0.00000425	7
0.0000030	7
0.0000025	7
0.0000020	7
0.0000015	7
0.00000125	7
0.00000106	7
0.00000085	7
0.00000075	7
0.00000060	7
0.00000050	7
0.000000425	7
0.00000030	7
0.00000025	7
0.00000020	7
0.00000015	7
0.000000125	7
0.000000106	7
0.000000085	7
0.000000075	7
0.000000060	7
0.000000050	7
0.0000000425	7
0.000000030	7
0.000000025	7
0.000000020	7
0.000000015	7
0.0000000125	7
0.0000000106	7
0.0000000085	7
0.0000000075	7
0.0000000060	7
0.0000000050	7
0.00000000425	7
0.0000000030	7
0.0000000025	7
0.0000000020	7
0.0000000015	7
0.00000000125	7
0.00000000106	7
0.00000000085	7
0.00000000075	7
0.00000000060	7
0.00000000050	7
0.000000000425	7
0.00000000030	7
0.00000000025	7
0.00000000020	7
0.00000000015	7
0.000000000125	7
0.000000000106	7
0.000000000085	7
0.000000000075	7
0.000000000060	7
0.000000000050	7
0.0000000000425	7
0.000000000030	7
0.000000000025	7
0.000000000020	7
0.000000000015	7
0.0000000000125	7
0.000000	

Sample information:

- Boring 15, Sample 8

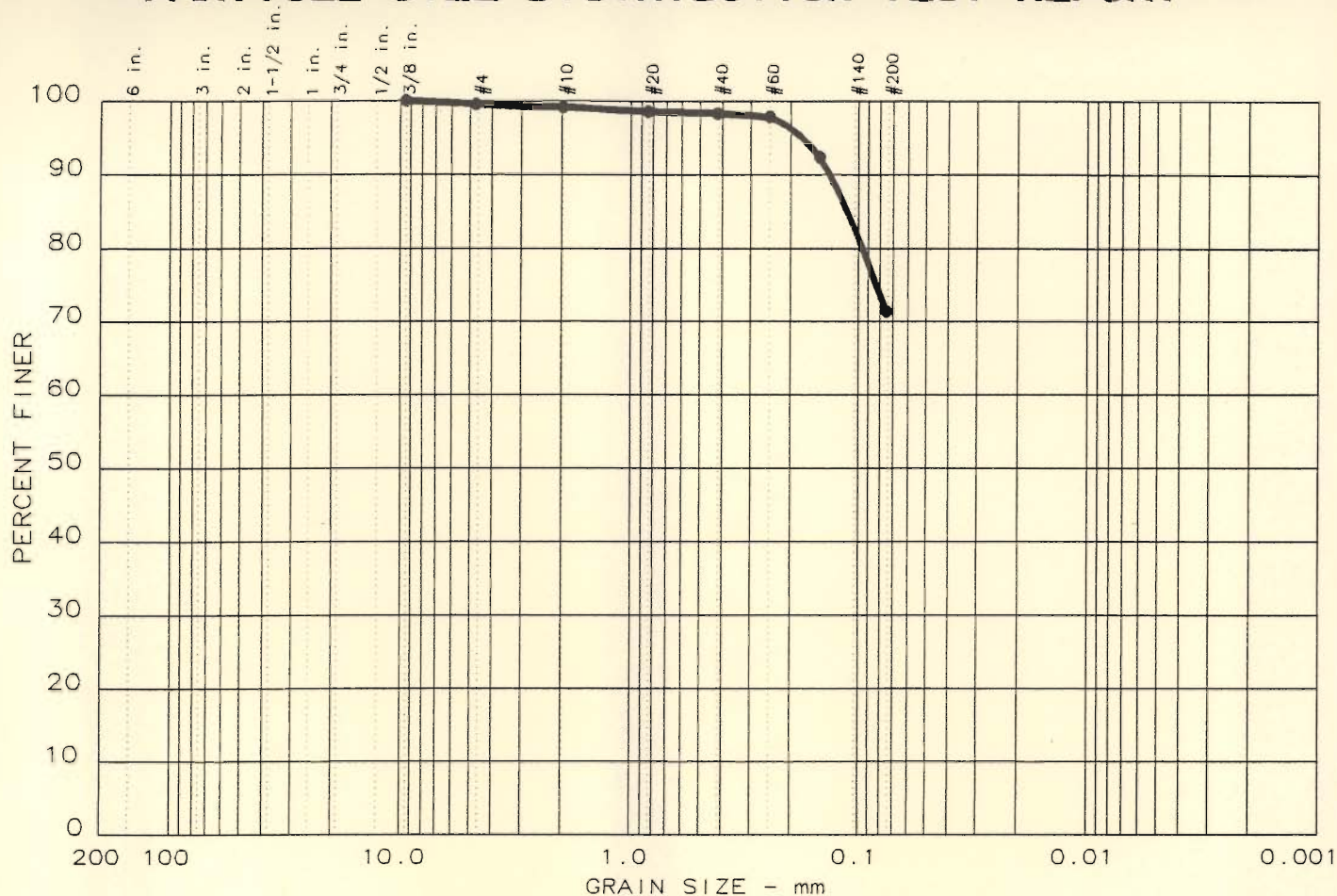
Loose tan & gray FINE
SAND w/ si & sh frags

Remarks:

Sample depth 15'-16'

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% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.5	28.1	71.4		CL		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.5		
10	99.1		
20	98.5		
40	98.3		
60	97.8		
100	92.3		
200	71.4		

Sample information:
 • Boring 16, Sample 2
 Very Soft gray SANDY
 CLAY w/ sh frags

Remarks:
 Sample depth 3'-4'

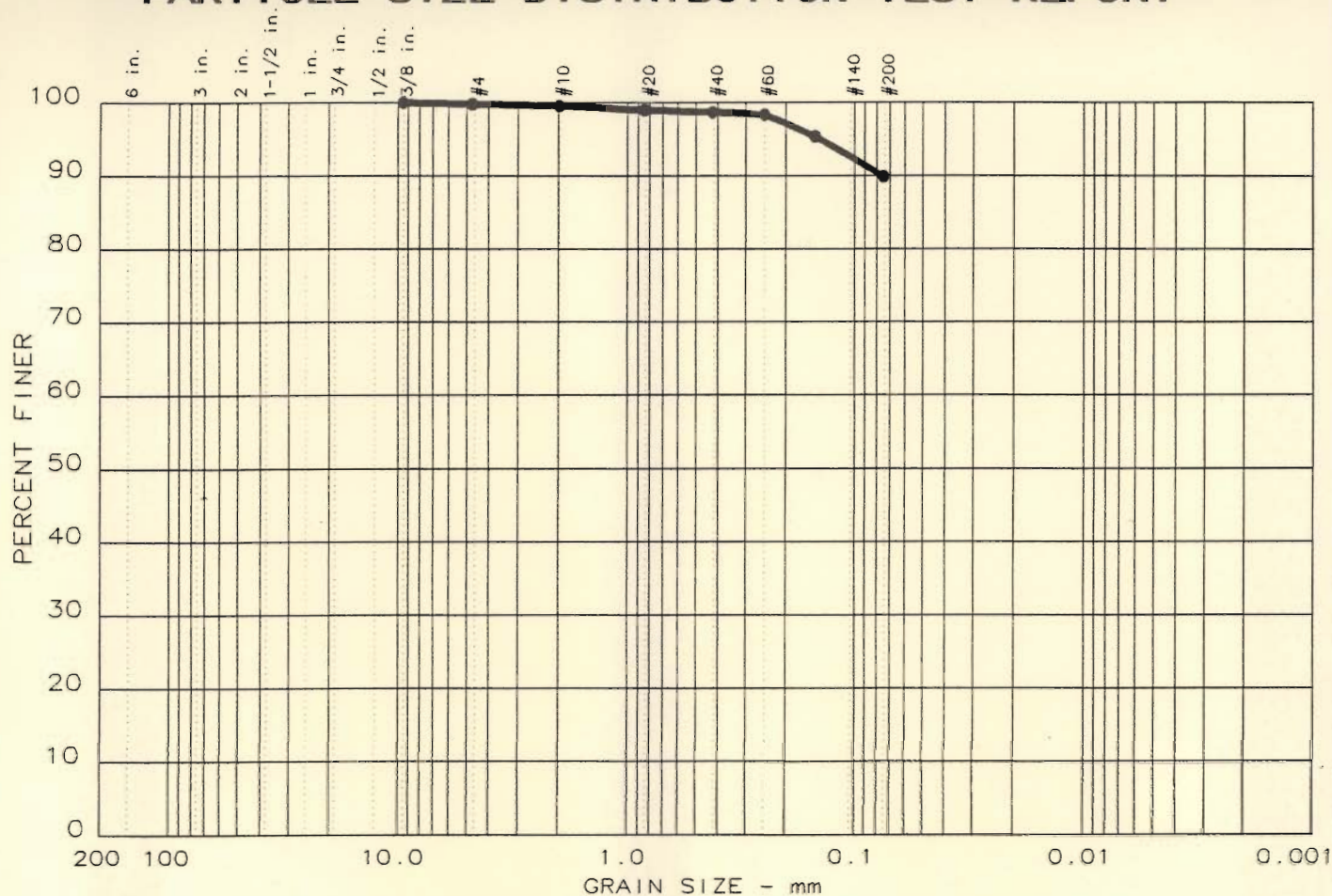
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	9.9	89.9		CL		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.5		
20	99.0		
40	98.7		
60	98.3		
100	95.4		
200	89.9		

Sample information:
 • Boring 16, Sample 4
 Very Soft gray SANDY
 CLAY w/ few sh frags

Remarks:
 Sample depth 7'-8'

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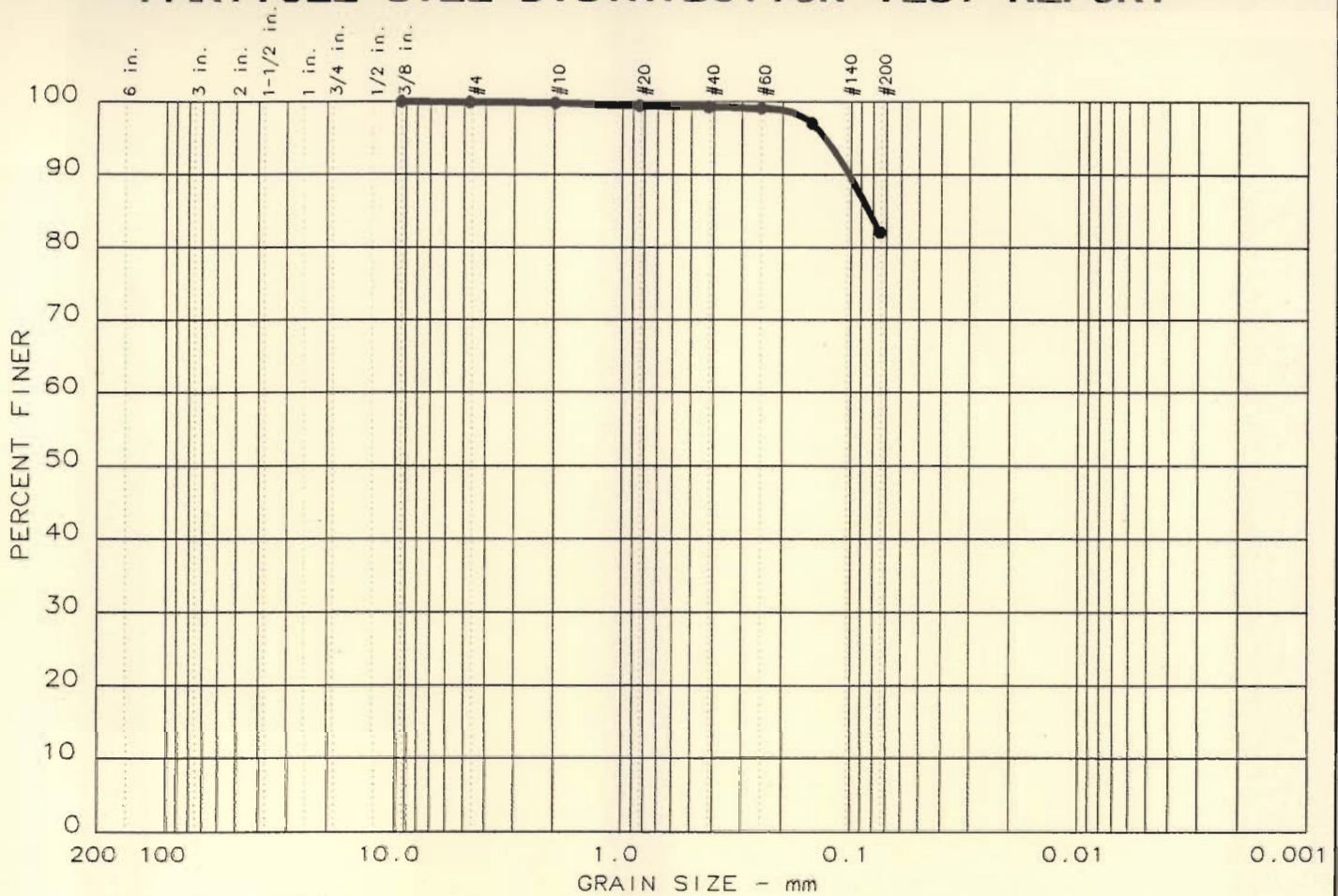
Data Sheet No. _____

Grain size distribution plot for Test No. 101. The graph shows Percent Finer vs. Grain Size (mm) on a semi-logarithmic scale. The curve starts at 100% finer for grain sizes down to approximately 0.425 mm (#40 sieve), then drops sharply to about 13% finer at 0.075 mm (#200 sieve).

Grain Size (mm)	Sieve Size	Percent Finer (%)
200		100
100		100
10.0		100
4.75	#4	100
2.0	#10	98
0.85	#20	95
0.425	#40	94
0.25	#60	93
0.15		78
0.075	#200	13

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	17.8	82.1		CH		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.8		
20	99.4		
40	99.3		
60	99.1		
100	97.0		
200	82.1		

Sample information:

- Boring 16, Sample 9
- Very Soft gray CLAY
- w/ sa lens & sh frags

Remarks:

Sample depth 17'-18'

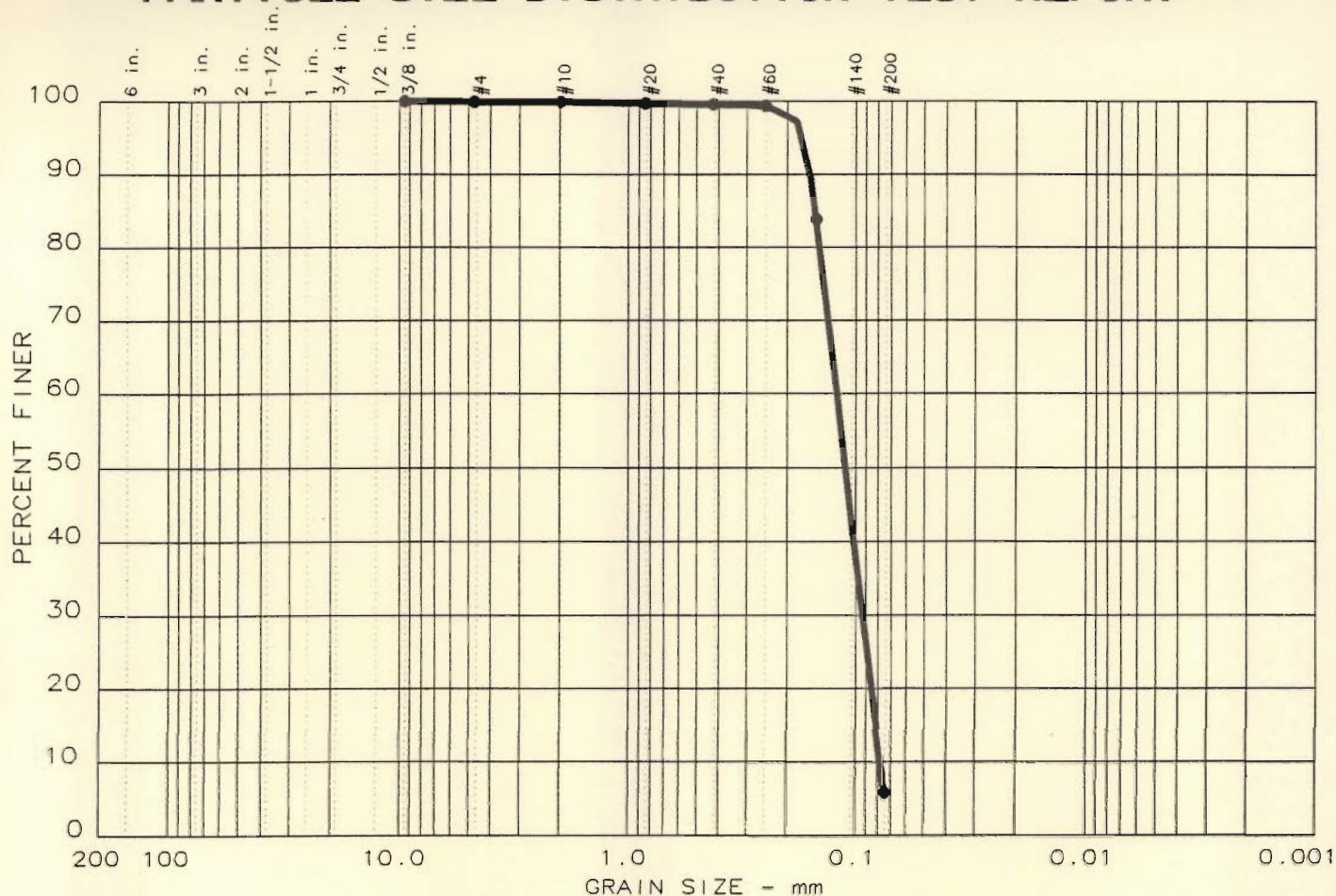
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	94.2	5.7		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.12		
D ₃₀	0.09		
D ₁₀	0.07		
X COEFFICIENTS			
C _c	0.92		
C _u	1.6		

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.9		
20	99.7		
40	99.6		
60	99.4		
100	83.9		
200	5.8		

Sample information:

- Boring 21, Sample 2
- Loose gray FINE SAND w/ si & sh frag

Remarks:

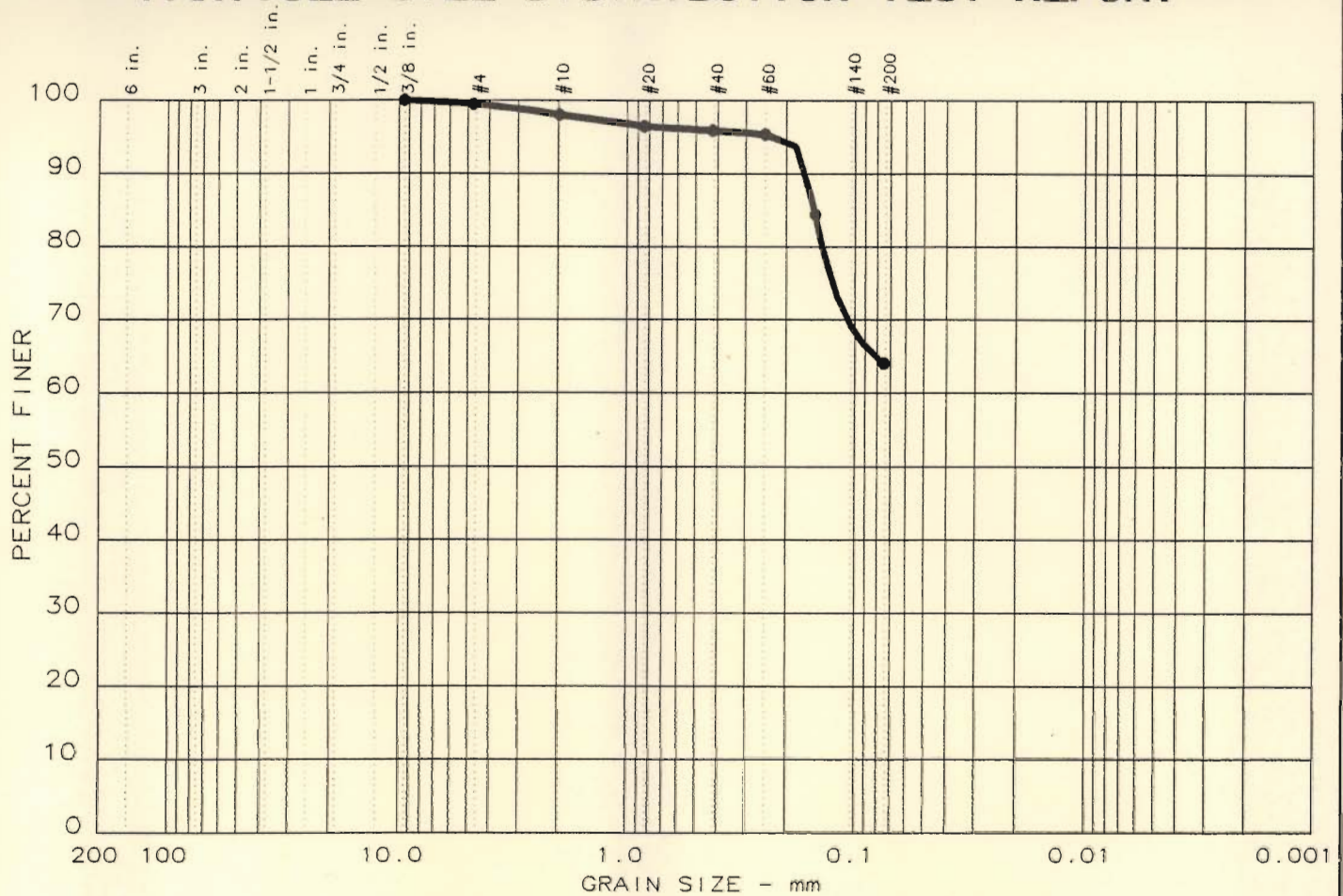
Sample depth 3'-4'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.5	35.4	64.1		CL		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.5		
10	98.0		
20	96.5		
40	95.9		
60	95.4		
100	84.4		
200	64.1		

Sample information:

- Boring 21, Sample 4
- Very Soft gray SANDY CLAY w/ sh frags

Remarks:

Sample depth 7'-8'

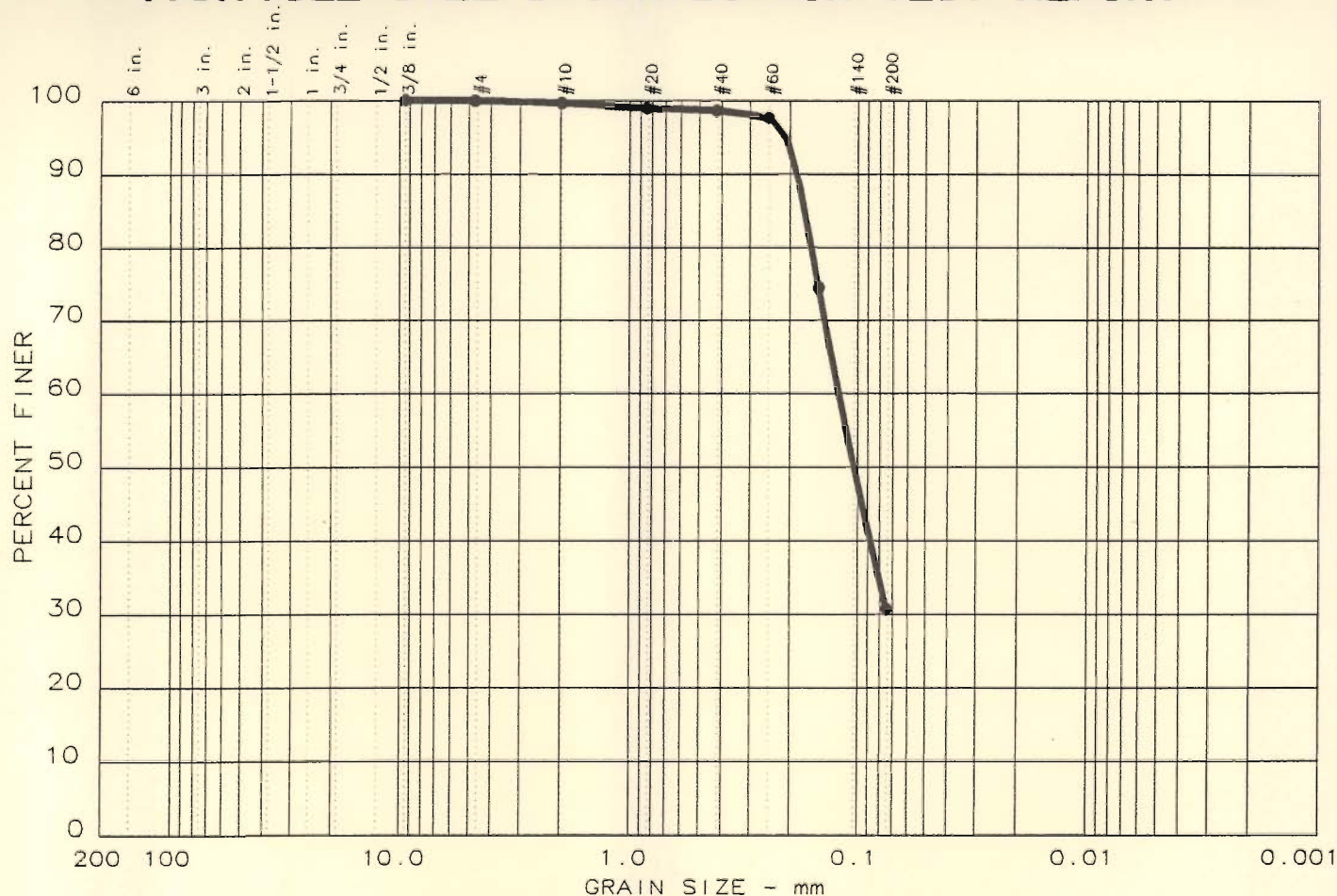
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	69.2	30.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.12		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.6		
20	99.0		
40	98.6		
60	97.7		
100	74.5		
200	30.7		

Sample information:
 • Boring 21, Sample 6
 Loose gray FINE SAND w/
 cl lays & poc, sh frags

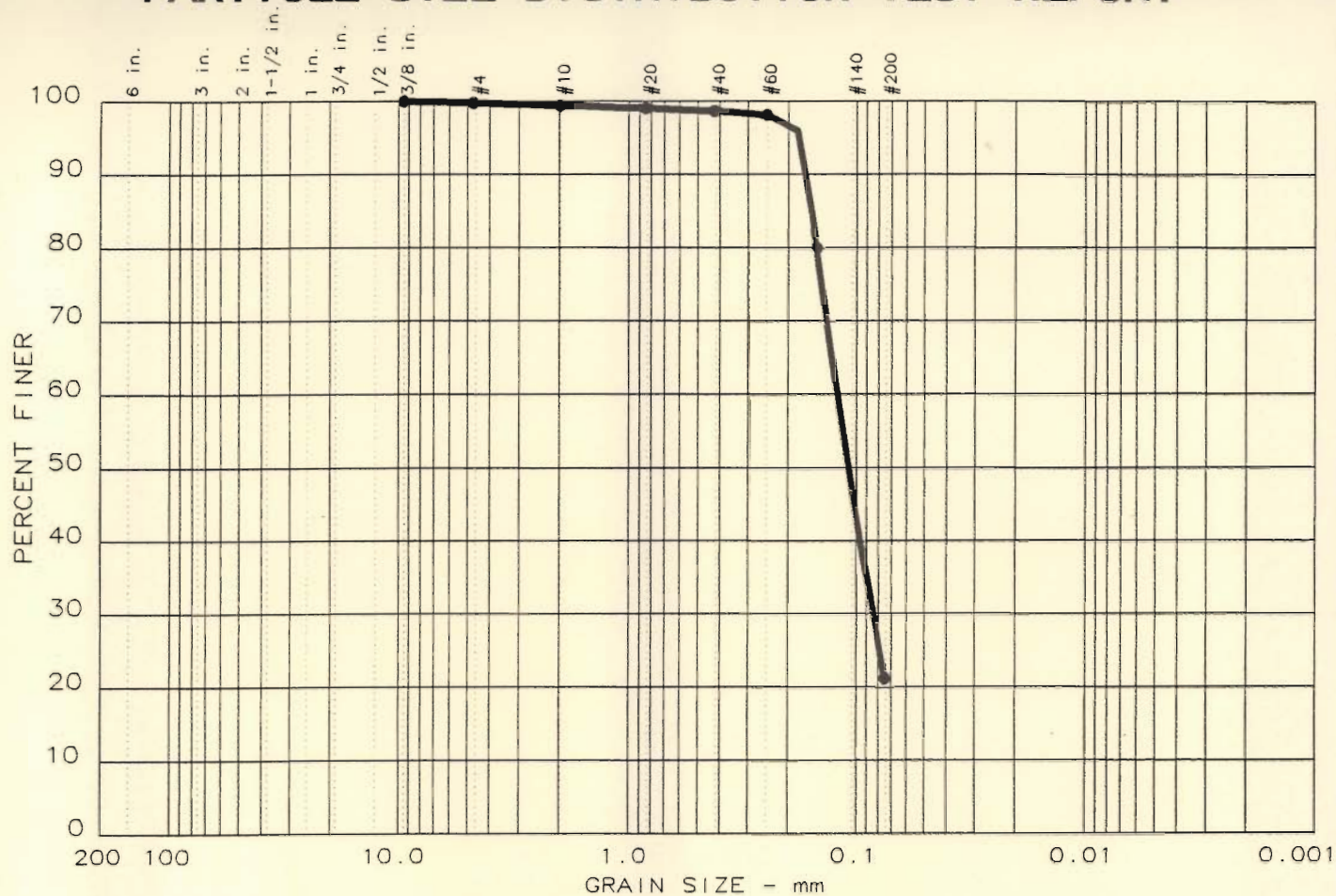
Remarks:
 Sample depth 11'-12'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	78.5	21.3		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.12		
D ₃₀	0.08		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.4		
20	99.0		
40	98.6		
60	98.1		
100	80.1		
200	21.3		

Sample information:
 • Boring 23, Sample 7
 Loose gray CLAYEY SAND
 w/ clay layer

Remarks:
 Sample depth 13'-14'

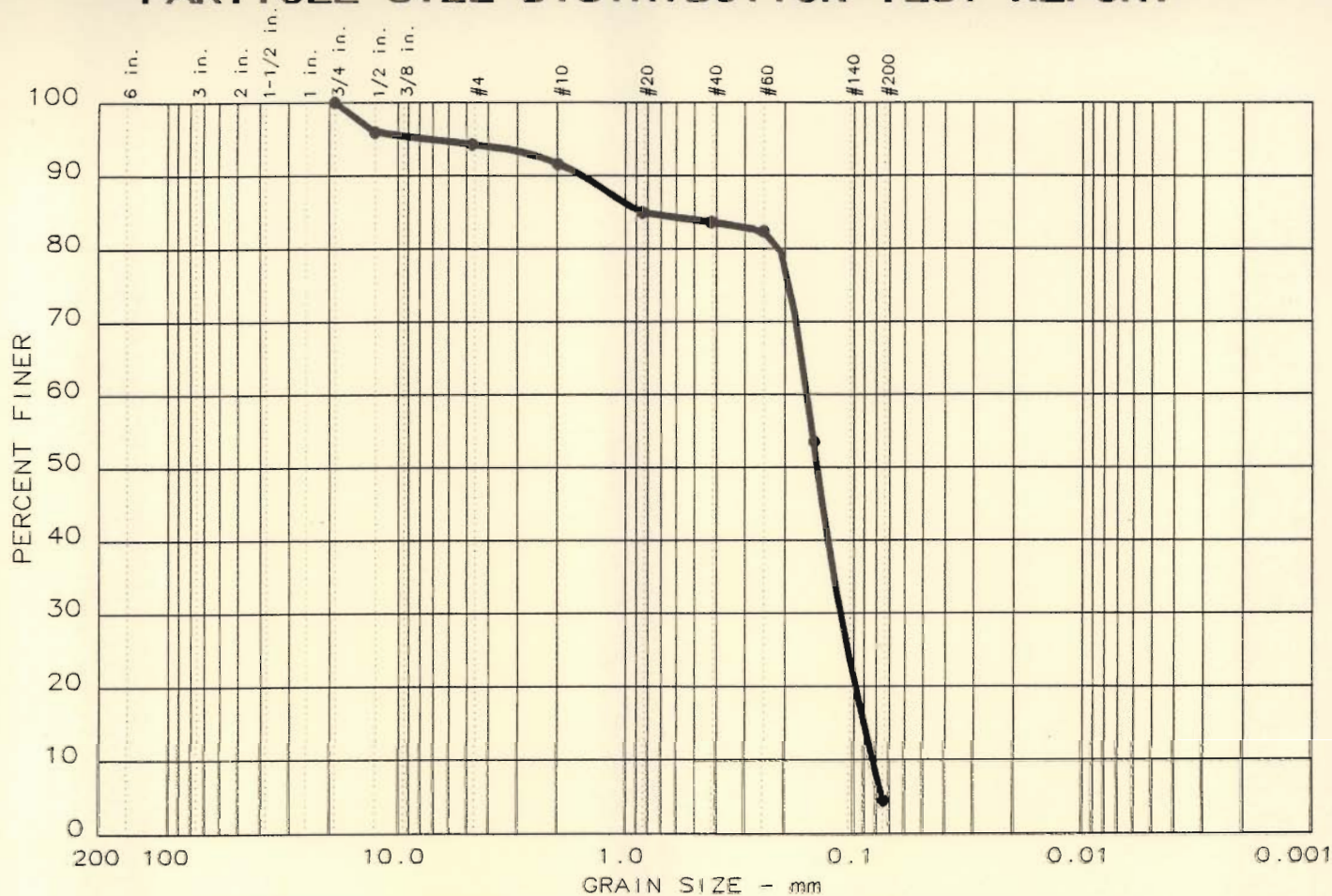
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	5.8	89.8	4.4		SP		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
0.5	95.9		
X GRAIN SIZE			
D ₆₀	0.16		
D ₃₀	0.11		
D ₁₀	0.08		
X COEFFICIENTS			
C _c	0.98		
C _u	1.9		

SIEVE number size	PERCENT FINER		
4	94.2		
10	91.5		
20	84.9		
40	83.6		
60	82.4		
100	53.5		
200	4.5		

Sample information:

• Boring 24, Sample 5
Loose gray FINE SAND
w/ shell fragments

Remarks:

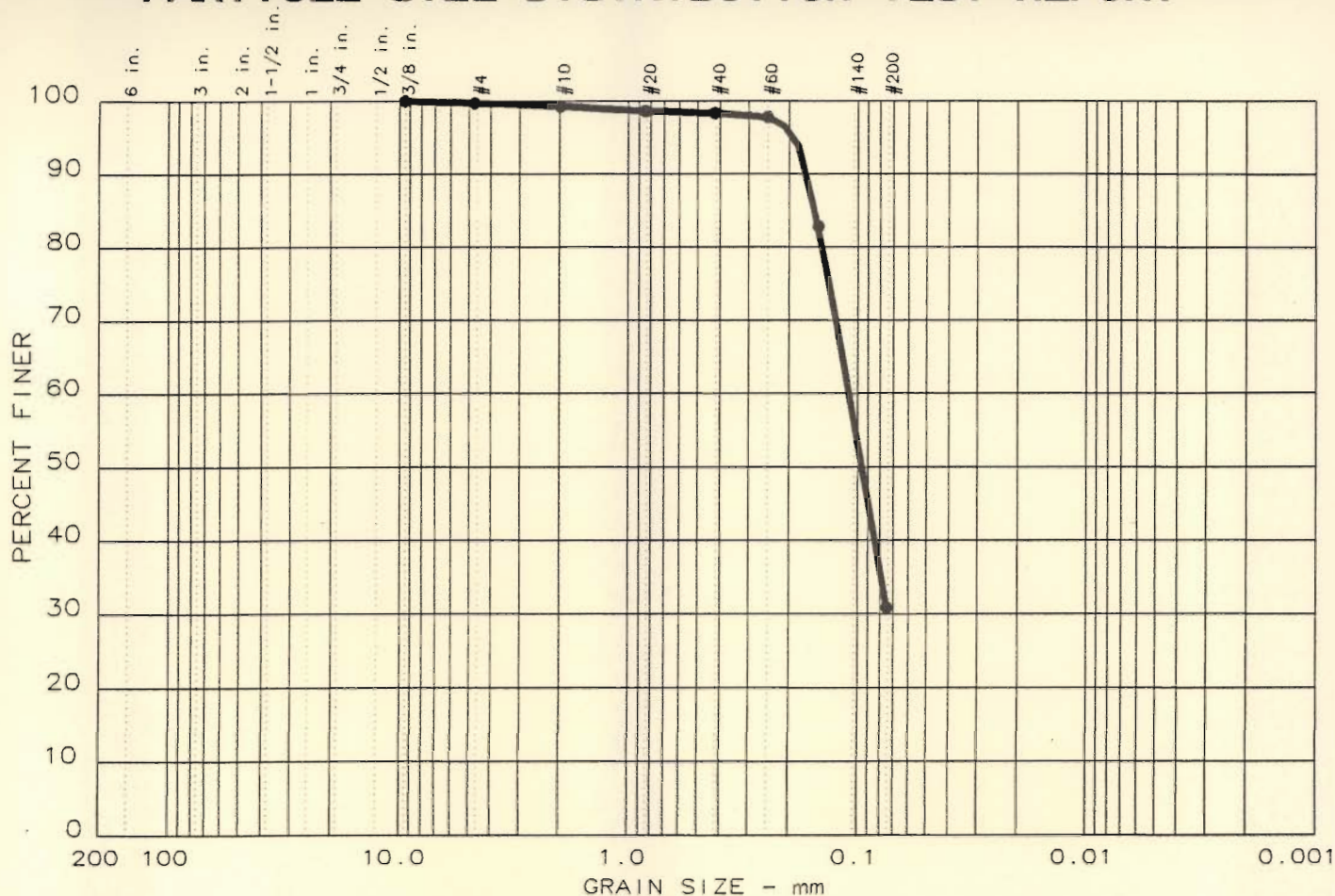
Sample depth 9'-10"

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.3	68.9	30.8		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.11		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.7		
10	99.3		
20	98.6		
40	98.3		
60	97.8		
100	82.9		
200	30.9		

Sample information:
 • Boring 26, Sample 3
 Loose gray CLAYEY SAND
 w/ shell fragments

Remarks:
 Sample depth 5'-6'

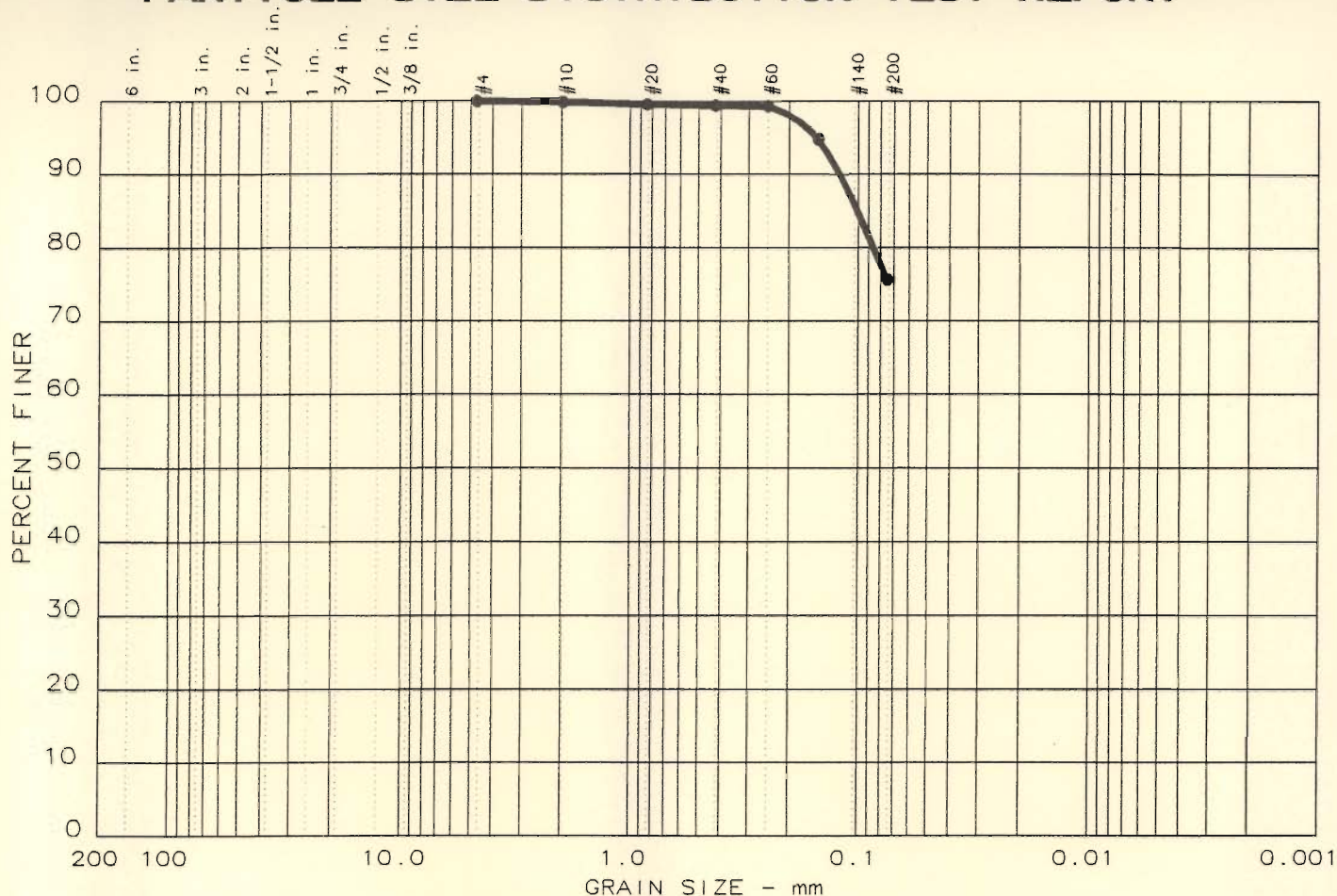
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	24.4	75.6		CL		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.8		
20	99.6		
40	99.4		
60	99.3		
100	94.8		
200	75.6		

Sample information:
 ● Boring 26, Sample 7
 Soft gray SANDY CLAY

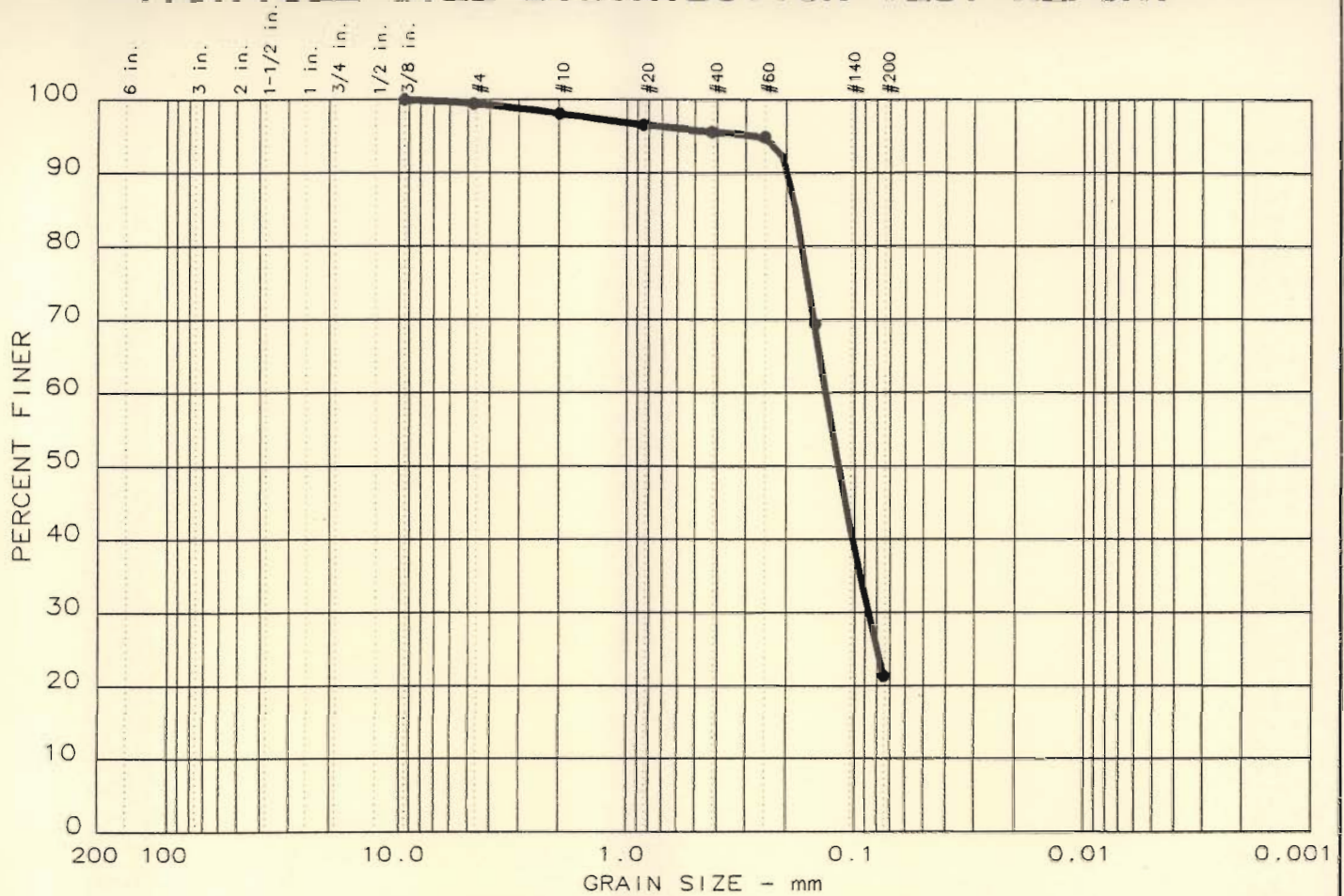
Remarks:
 Sample depth 13'-14'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.6	78.1	21.3		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.4		
10	98.1		
20	96.5		
40	95.7		
60	95.0		
100	69.5		
200	21.4		

Sample information:
 • Boring 29, Sample 1
 Loose gray CLAYEY SAND
 w/ sh frag

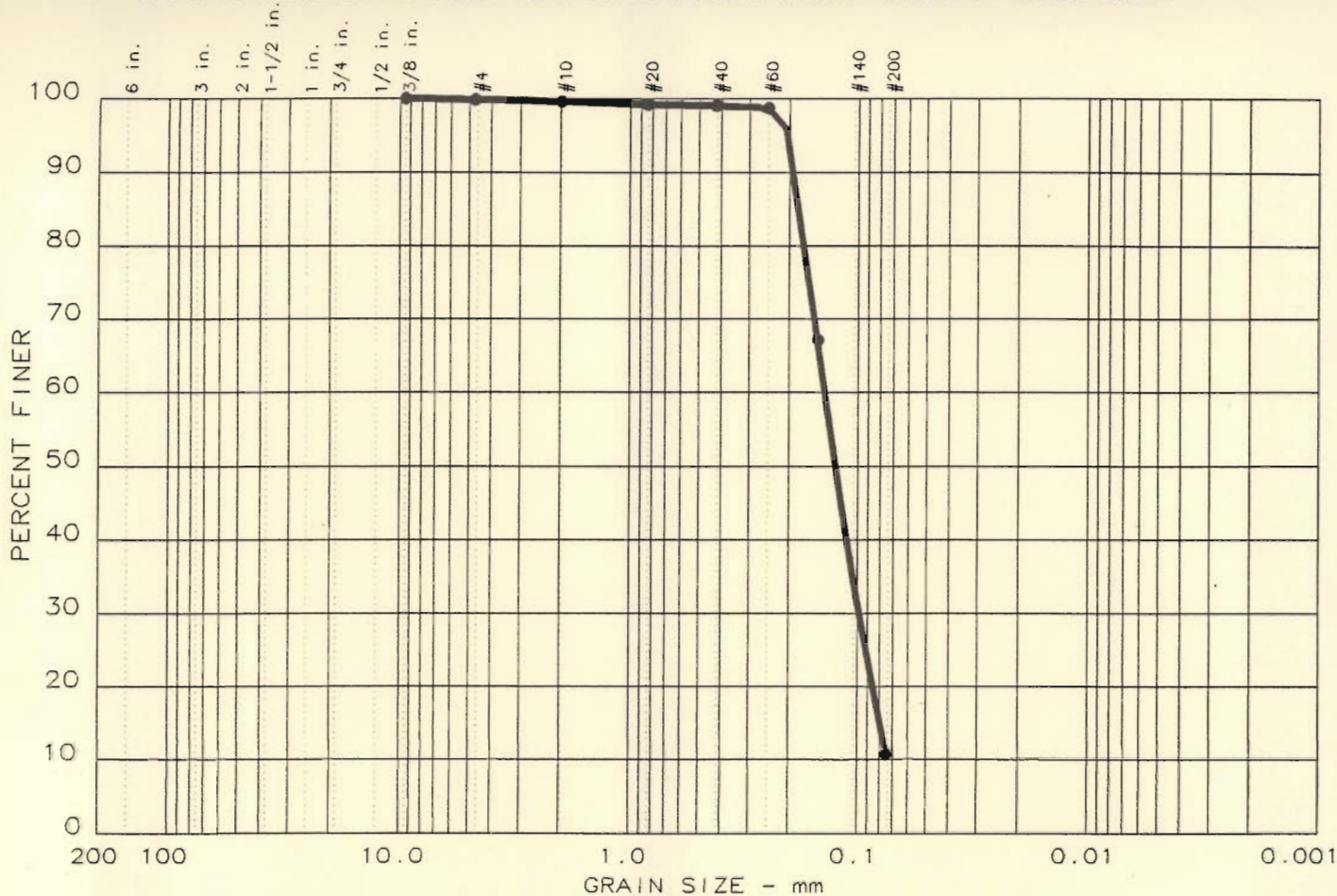
Remarks:
 Sample depth 1'-2'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	89.1	10.7		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.14		
D ₃₀	0.10		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.6		
20	99.2		
40	99.0		
60	98.8		
100	67.2		
200	10.8		

Sample information:

• Boring 29, Sample 2
Loose gray & tan FINE
SAND w/ si & sh frags

Remarks:

Sample depth 3'-4'

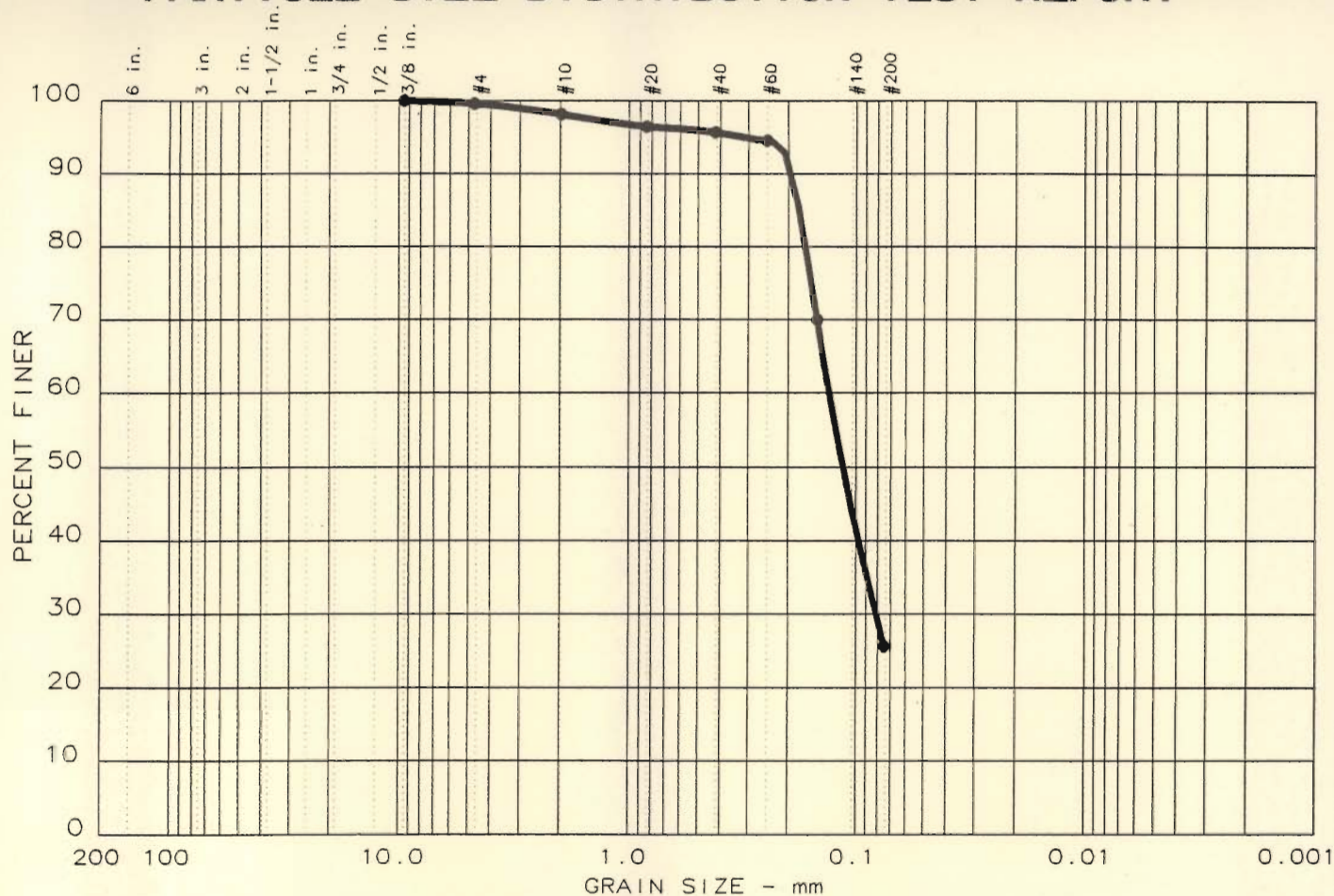
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.4	73.9	25.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.08		
D ₁₀			
X COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.6		
10	98.1		
20	96.5		
40	95.7		
60	94.6		
100	70.0		
200	25.7		

Sample information:
 • Boring 29, Sample 5
 Loose gr & t FINE SAND
 w/cl lay, poc & sh frag

Remarks:
 Sample depth 9'-10'

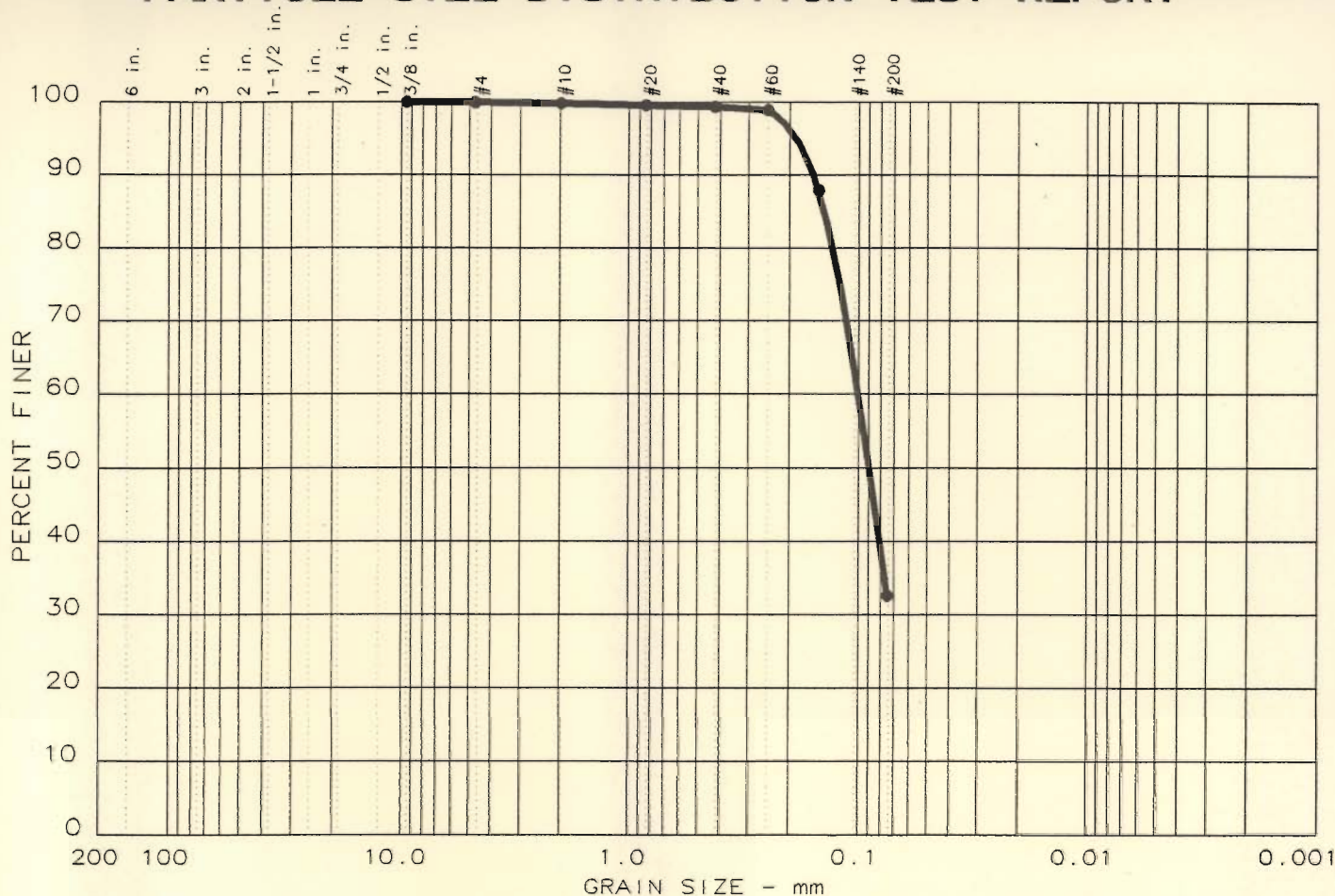
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	67.4	32.6		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.10		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

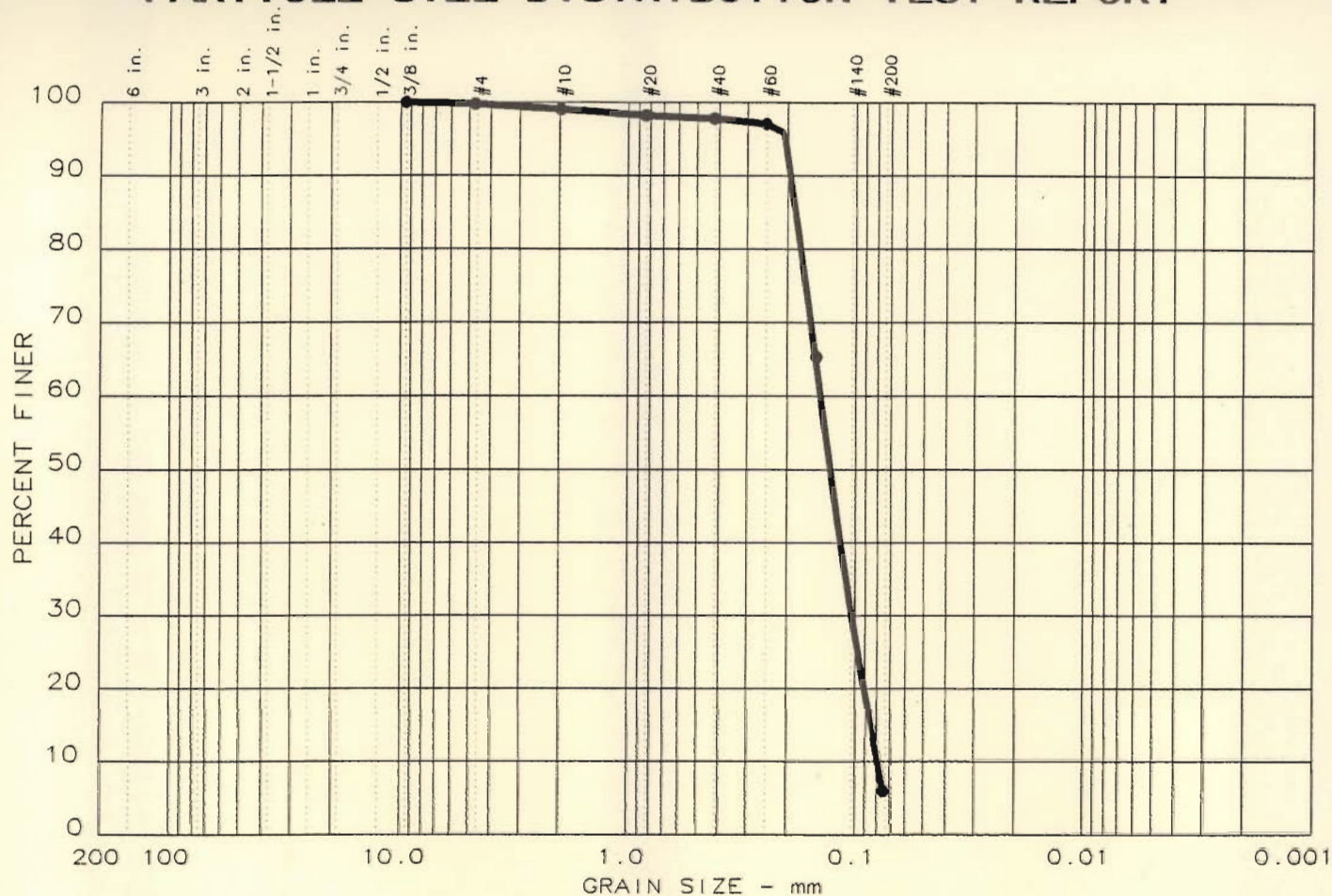
SIEVE number size	PERCENT FINER		
4	100.0		
10	99.8		
20	99.6		
40	99.3		
60	98.9		
100	87.9		
200	32.6		

Sample information:
 • Boring 31, Sample 2
 Loose gray CLAYEY SAND

Remarks:
 Sample depth 3'-4'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	93.8	6.0		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.14		
D ₃₀	0.10		
D ₁₀	0.07		
COEFFICIENTS			
C _c	0.95		
C _u	1.8		

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.0		
20	98.2		
40	97.8		
60	97.1		
100	65.3		
200	6.0		

Sample information:

- Boring 31, Sample 6
- Loose grn - gray & gray
- FINE SAND w/si & sh frag

Remarks:

Sample depth 11'-12'

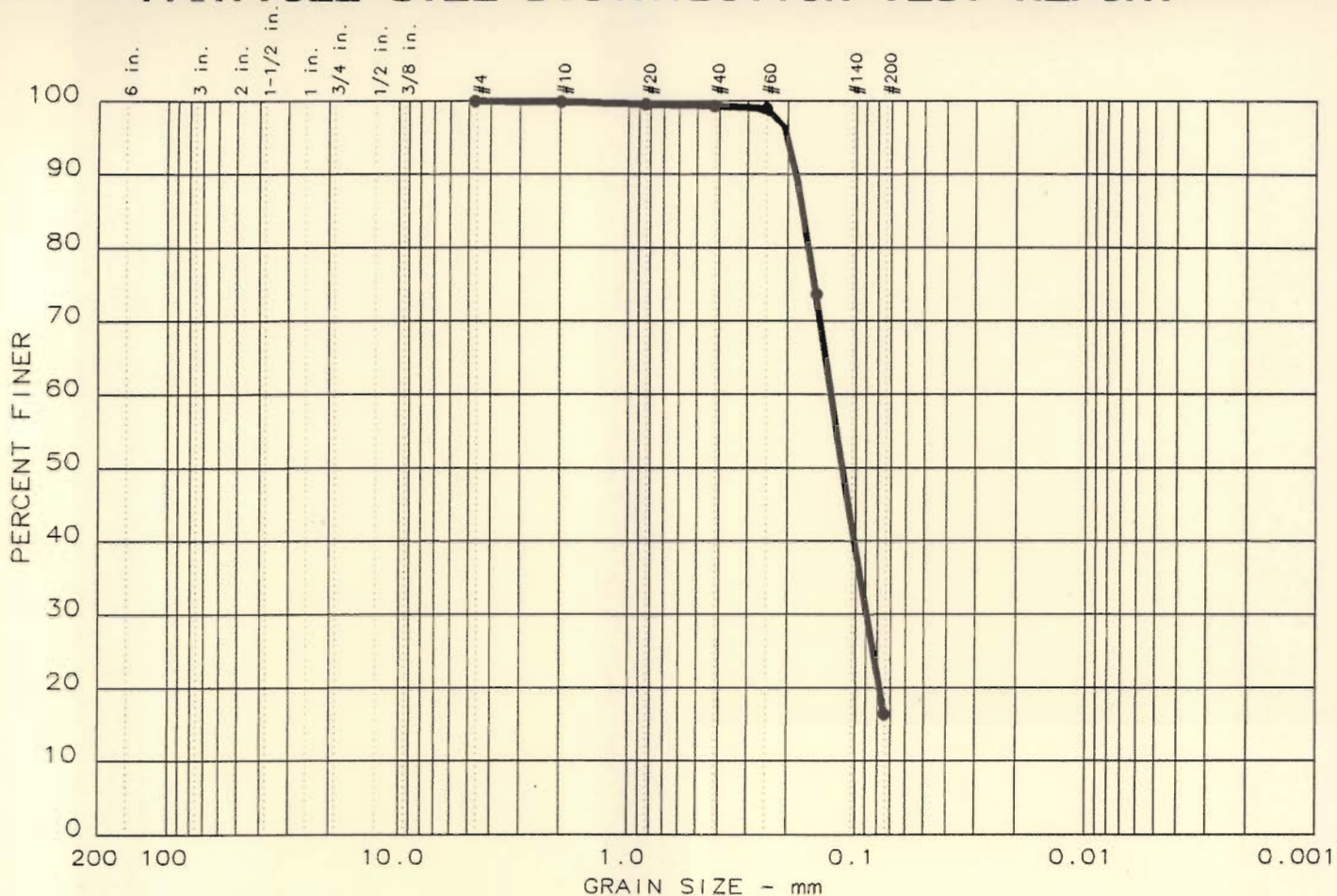
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	83.5	16.5		SM		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.9		
20	99.5		
40	99.3		
60	98.9		
100	73.7		
200	16.5		

Sample information:

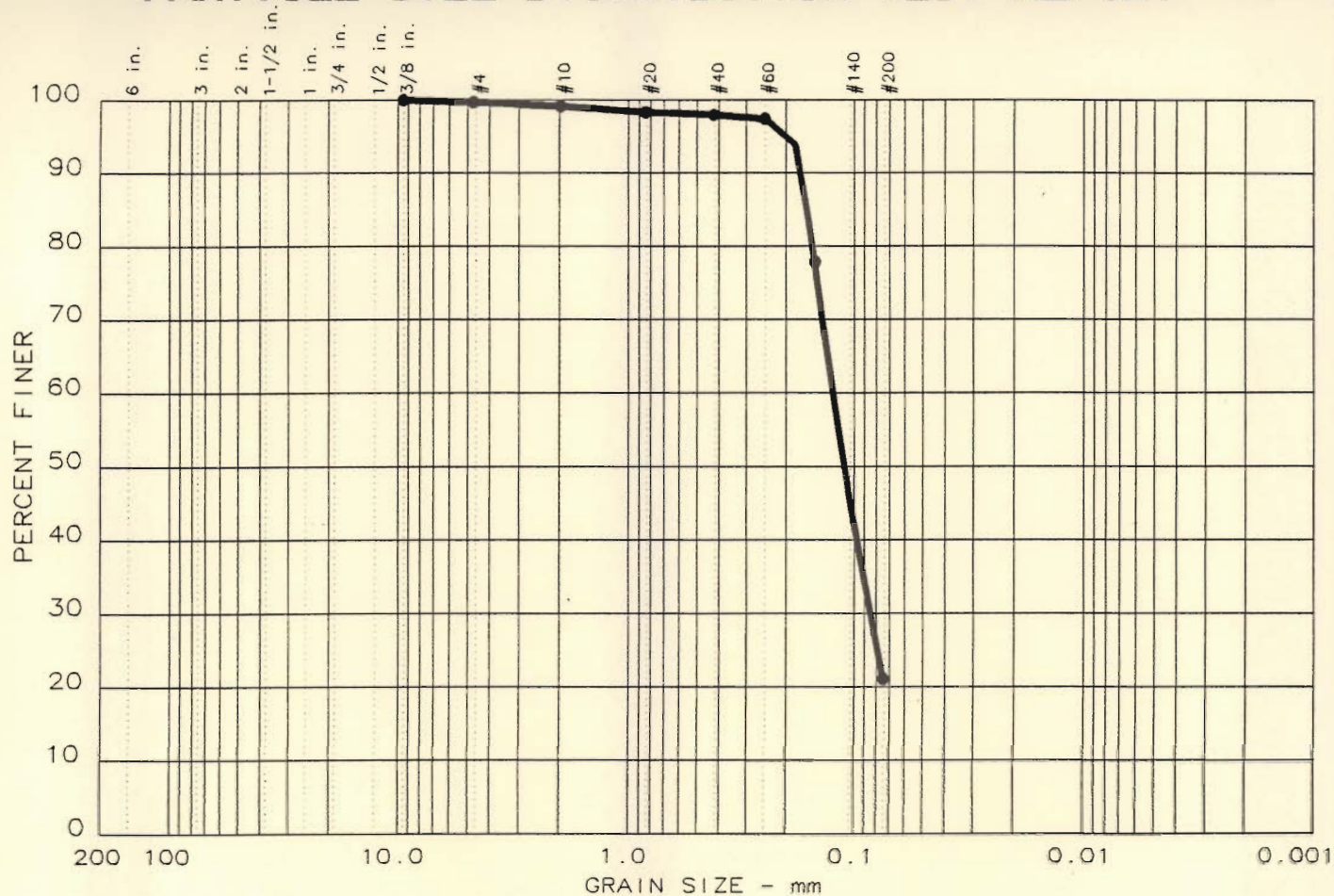
- Boring 33, Sample 3
- Loose gray SILTY SAND w/ shell fragments

Remarks:

Sample depth 5'-6'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.3	78.6	21.1		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X			
GRAIN SIZE			
D ₆₀	0.12		
D ₃₀	0.09		
D ₁₀			
X			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.7		
10	99.1		
20	98.3		
40	97.9		
60	97.4		
100	77.8		
200	21.1		

Sample information:
 • Boring 33, Sample 6
 Loose gray CLAYEY SAND
 w/ fisa lay & sh frag

Remarks:
 Sample depth 11'-12'

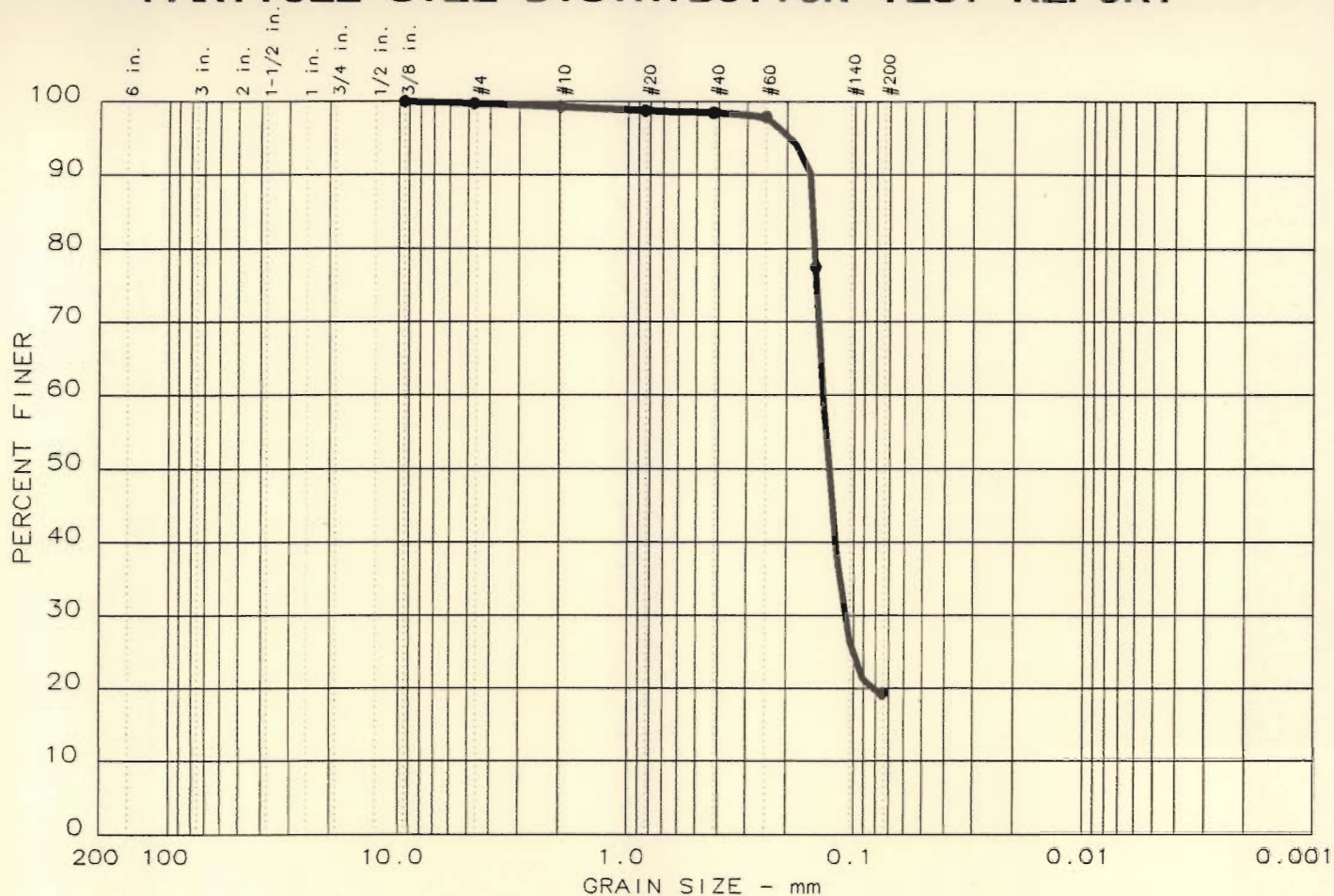
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.3	80.4	19.3		SC		

SIEVE inches size	PERCENT FINER			SIEVE number size	PERCENT FINER		
	●				●		
0.375	100.0			4	99.7		
				10	99.3		
				20	98.7		
				40	98.5		
				60	97.9		
				100	77.5		
				200	19.3		
GRAIN SIZE							
D ₆₀	0.14						
D ₃₀	0.11						
D ₁₀							
COEFFICIENTS							
C _c							
C _u							

Sample information:

● Boring 34, Sample 3
Loose gray CLAYEY SAND
w/ sh frag

Remarks:

Sample depth 5'-6'

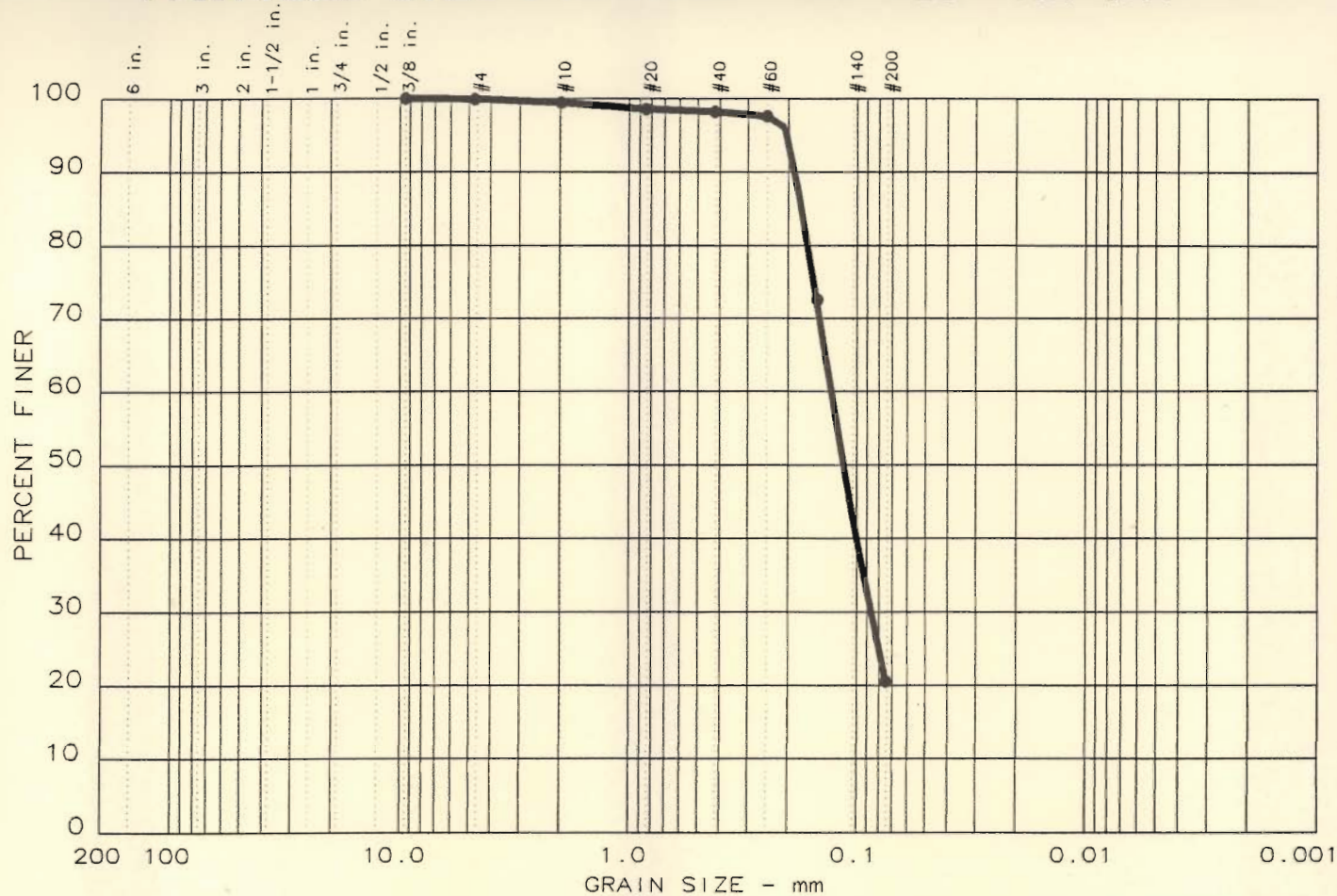
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	79.3	20.6		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.4		
20	98.6		
40	98.2		
60	97.6		
100	72.6		
200	20.6		

Sample information:

- Boring 34, Sample 4
- Loose gray CLAYEY SAND w/ fisa lens & sh frags

Remarks:

Sample depth 7'-8'

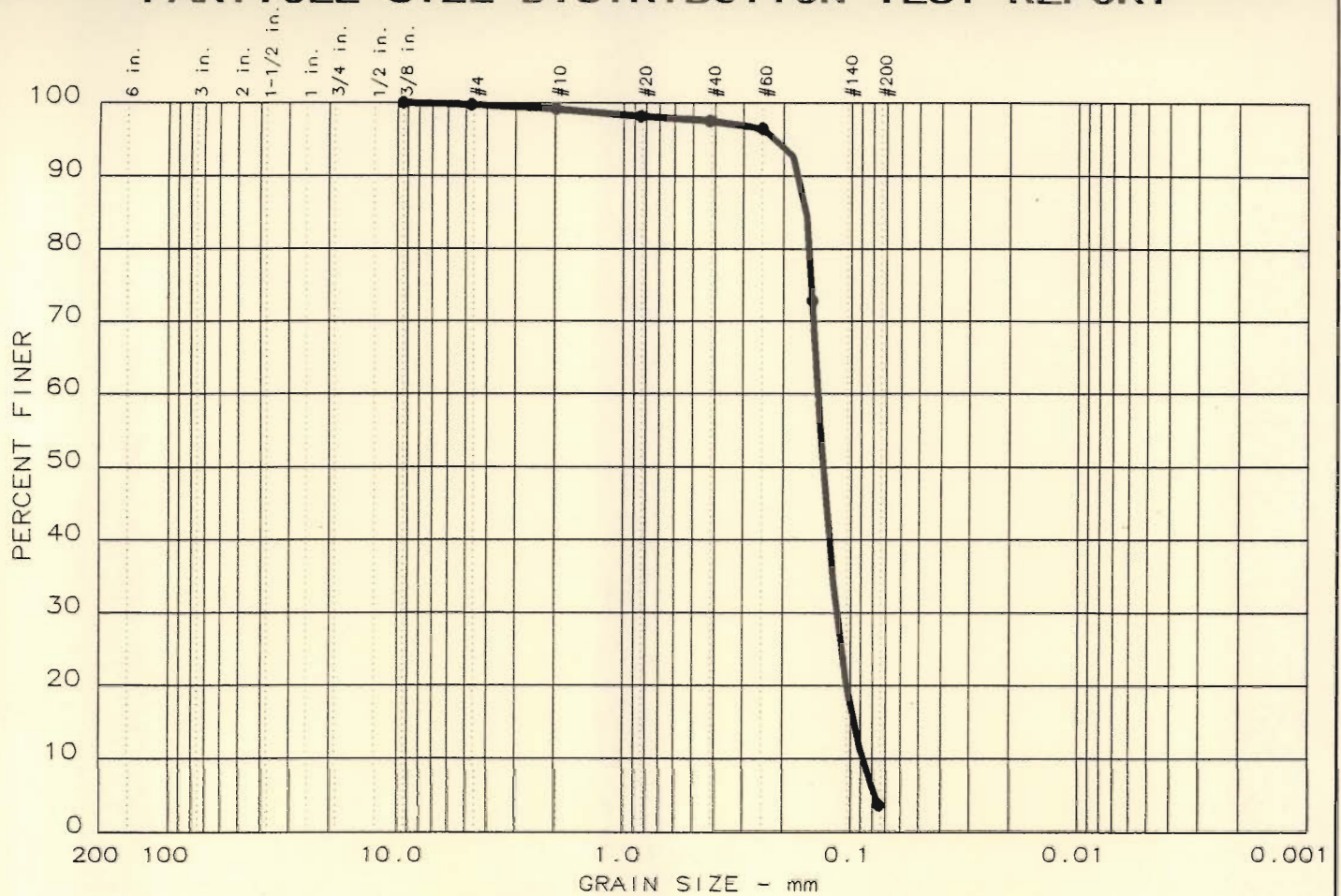
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.2	96.0	3.8		SP		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.14		
D ₃₀	0.12		
D ₁₀	0.08		
X COEFFICIENTS			
C _c	1.08		
C _u	1.6		

SIEVE number size	PERCENT FINER		
4	99.8		
10	99.2		
20	98.2		
40	97.6		
60	96.5		
100	72.9		
200	3.7		

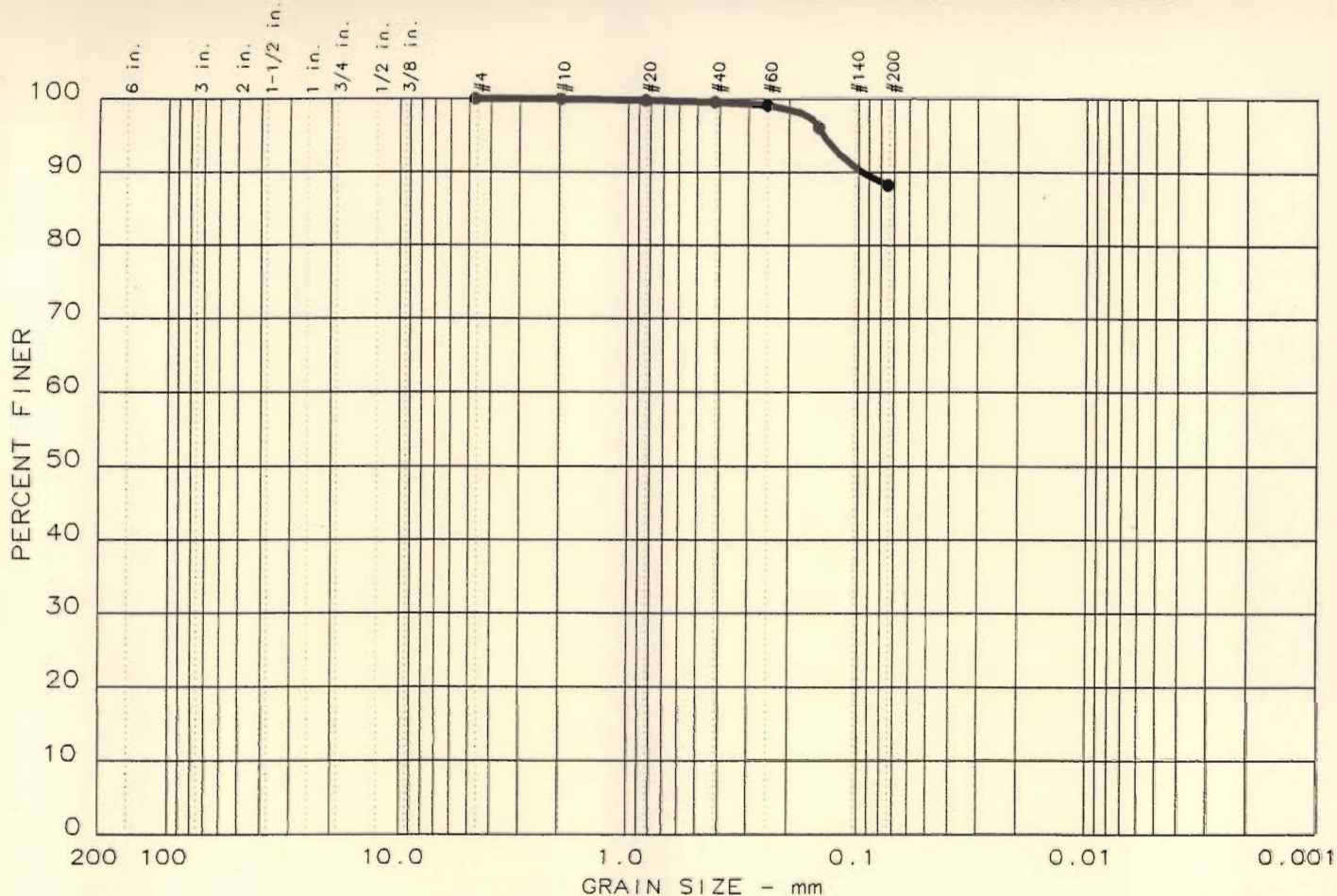
Sample information:

• Boring 34, Sample 6
Loose grn - gray FINE
SAND w/ sh frag

Remarks:

Sample depth 11'-12'

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.0	11.8	88.2		CH		

SIEVE inches size	PERCENT FINER		
	•		
GRAIN SIZE			
D ₆₀			
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	•		
4	100.0		
10	99.9		
20	99.8		
40	99.5		
60	99.1		
100	96.0		
200	88.2		

Sample information:
 • Boring 202, Sample 2
 Soft gray CLAY
 w/ cilsa lens

Remarks:
 Sample depth 3'-4'

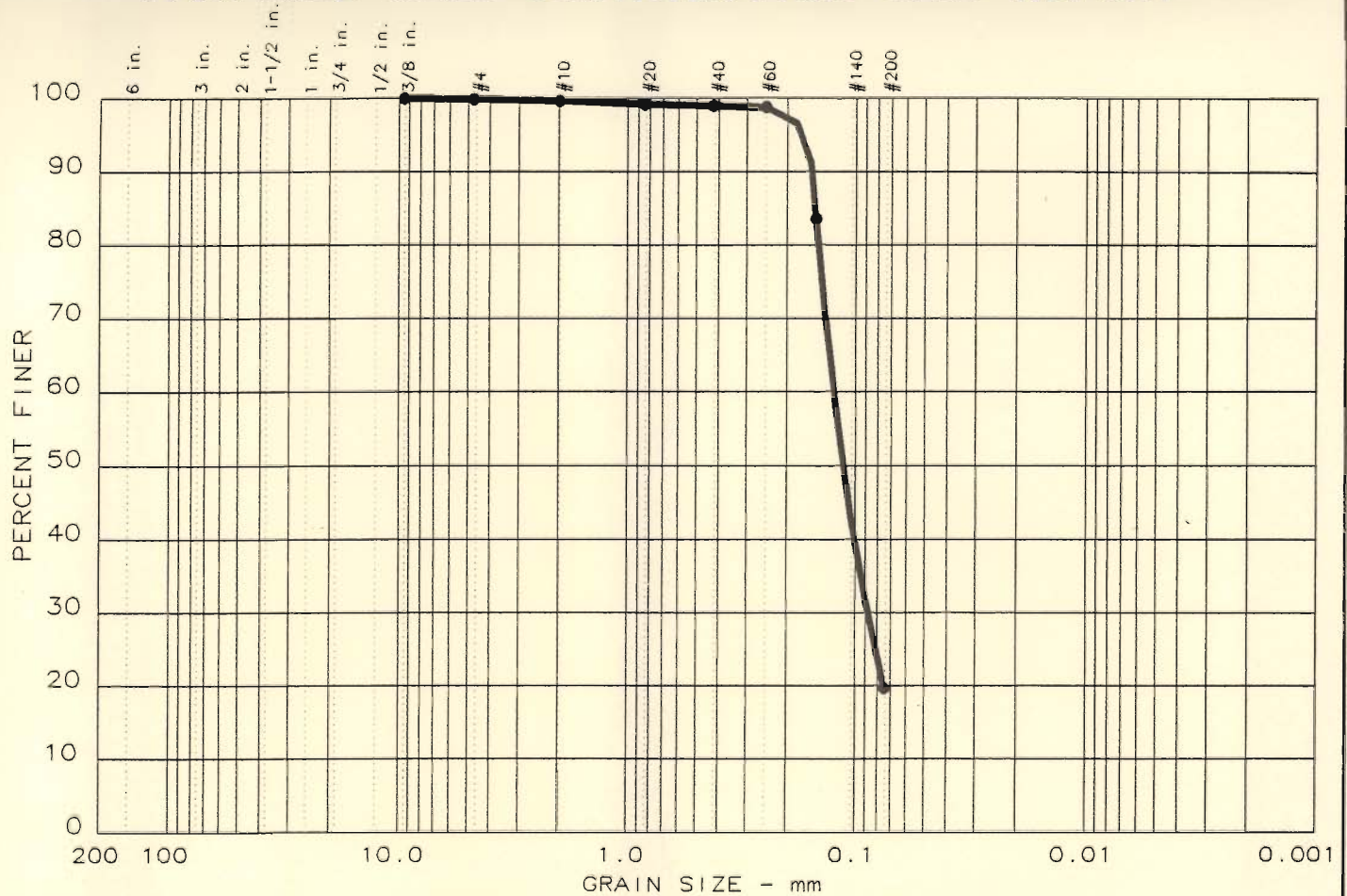
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	80.2	19.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.6		
20	99.2		
40	99.0		
60	98.7		
100	83.6		
200	19.7		

Sample information:
 • Boring 202, Sample 5
 Loose gray FINE SAND
 w/cl lay, poc & sh frag

Remarks:
 Sample depth 9'-10'

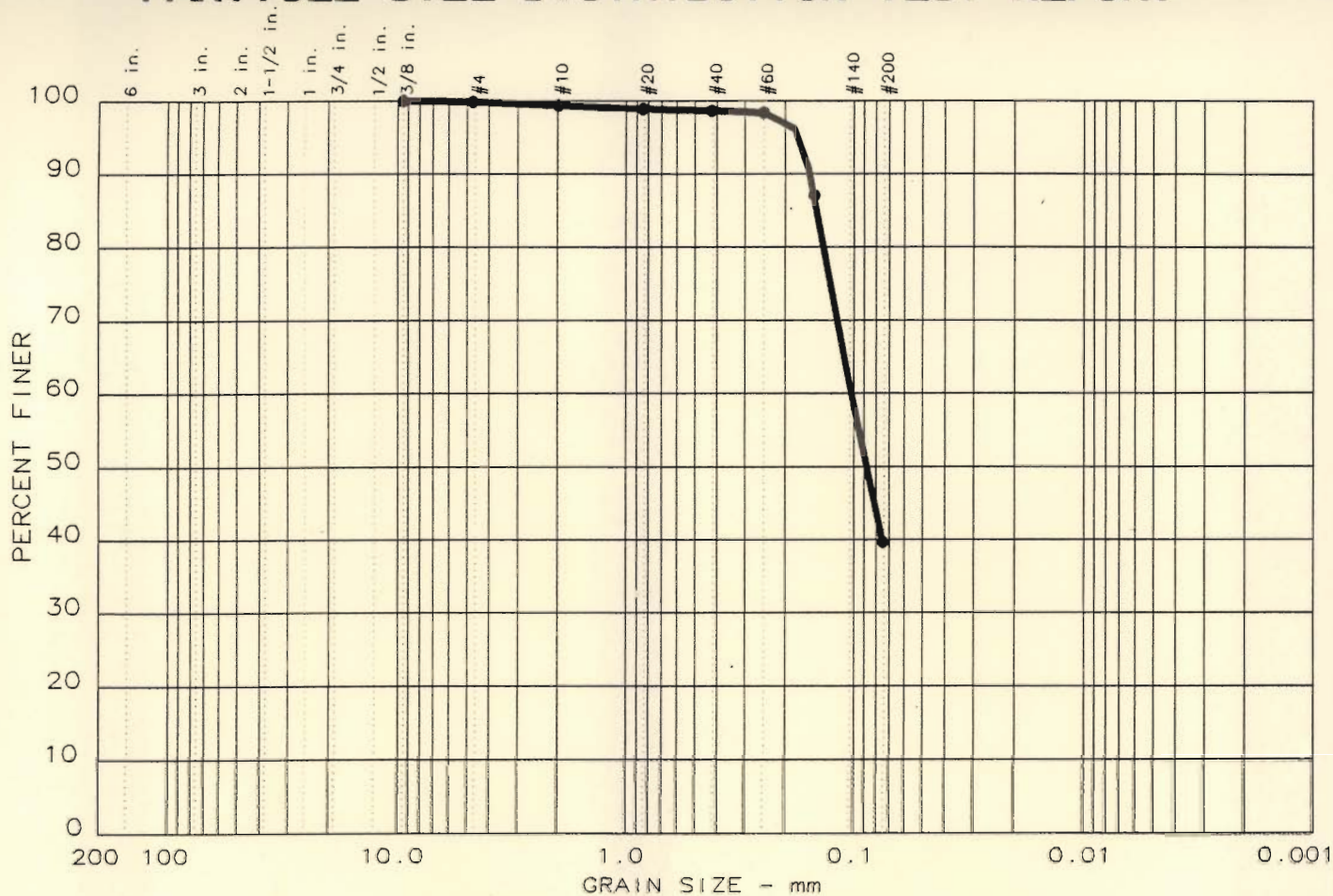
**Eustis
Engineering
Company, Inc.**

Project No.: 15300
 Project: DNR / Whiskey Pass

Date: 03-27-98

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	60.2	39.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.10		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
U _c			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.4		
20	98.9		
40	98.7		
60	98.4		
100	87.0		
200	39.7		

Sample information:

- Boring 202, Sample 7
- Loose gray CLAYEY SAND
- w/ tr sh frag

Remarks:

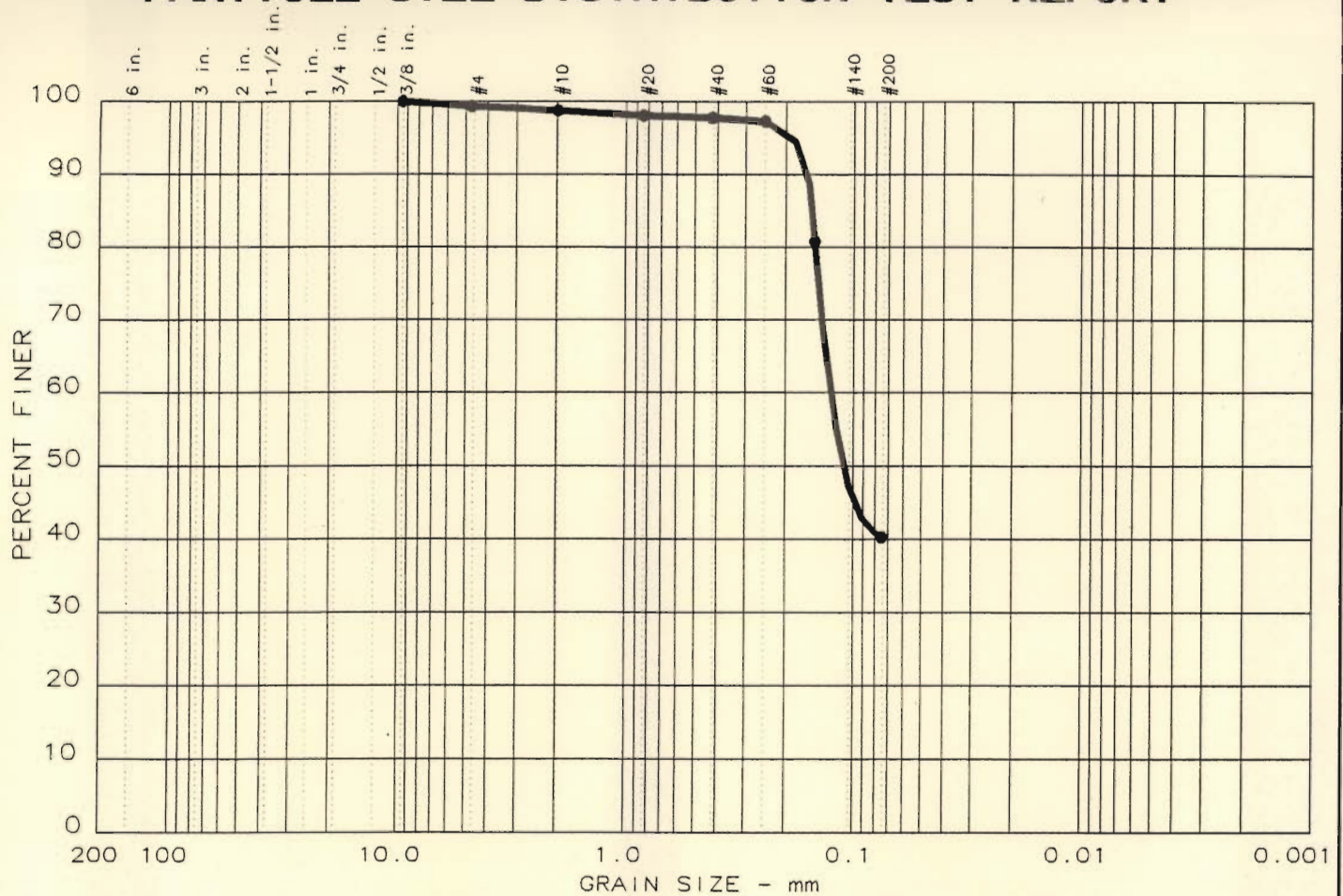
Sample depth 15'-16"

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.7	59.0	40.3		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.3		
10	98.7		
20	98.0		
40	97.7		
60	97.3		
100	80.8		
200	40.3		

Sample information:

● Boring F-1M, Sample 2
Loose gray CLAYEY SAND
w/ cl lens

Remarks:

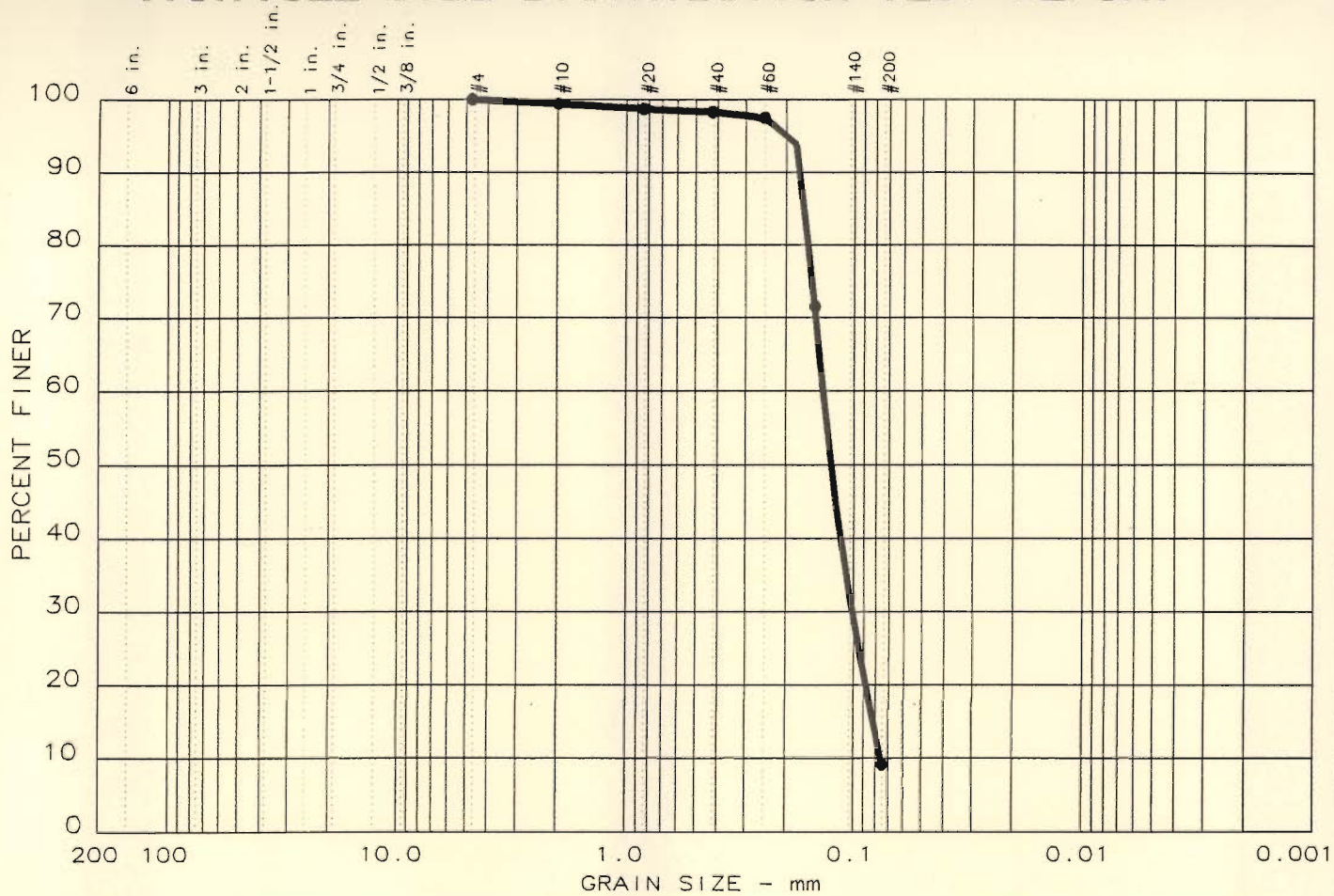
Sample depth 3'-4'

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Company, Inc.**

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	90.8	9.2		SP-SM		

SIEVE inches size	PERCENT FINER		
	GRAIN SIZE		
D ₆₀	0.14		
D ₃₀	0.10		
D ₁₀	0.07		
	COEFFICIENTS		
C _c	0.99		
C _u	1.8		

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.4		
20	98.7		
40	98.3		
60	97.5		
100	71.5		
200	9.2		

Sample information:
● Boring F-1M, Sample 5
Loose gray FINE SAND
w/ si & few sh frags

Remarks:
Sample depth 9'-10'

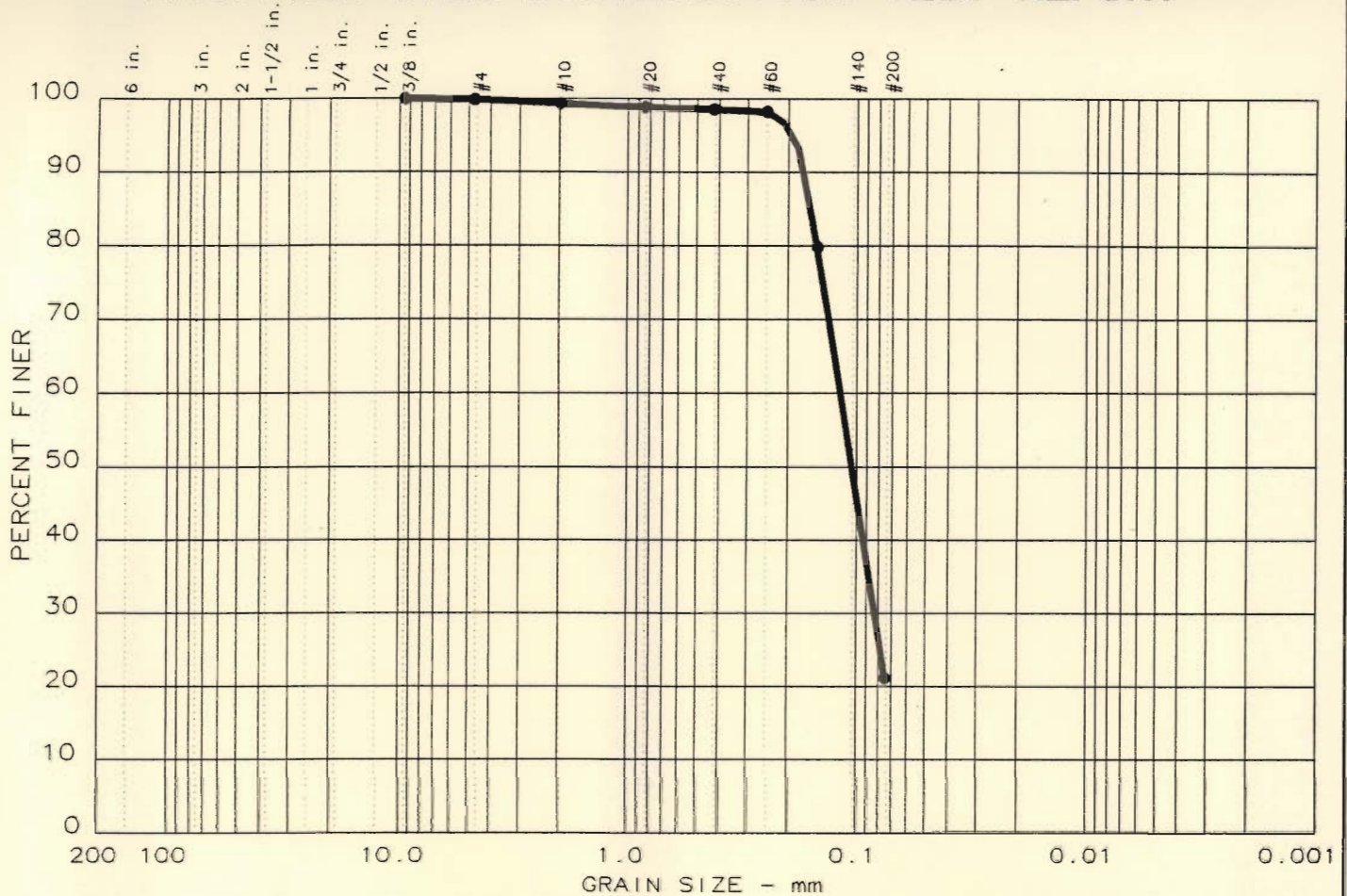
**Eustis
Engineering
Company, Inc.**

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	78.7	21.2		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.12		
D ₃₀	0.08		
D ₁₀			
X COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.3		
20	98.8		
40	98.6		
60	98.2		
100	79.9		
200	21.2		

Sample information:

- Boring F-1N, Sample 2
- Loose gray CLAYEY SAND
- w/fine lay & few sh frag

Remarks:

Sample depth 3'-4'

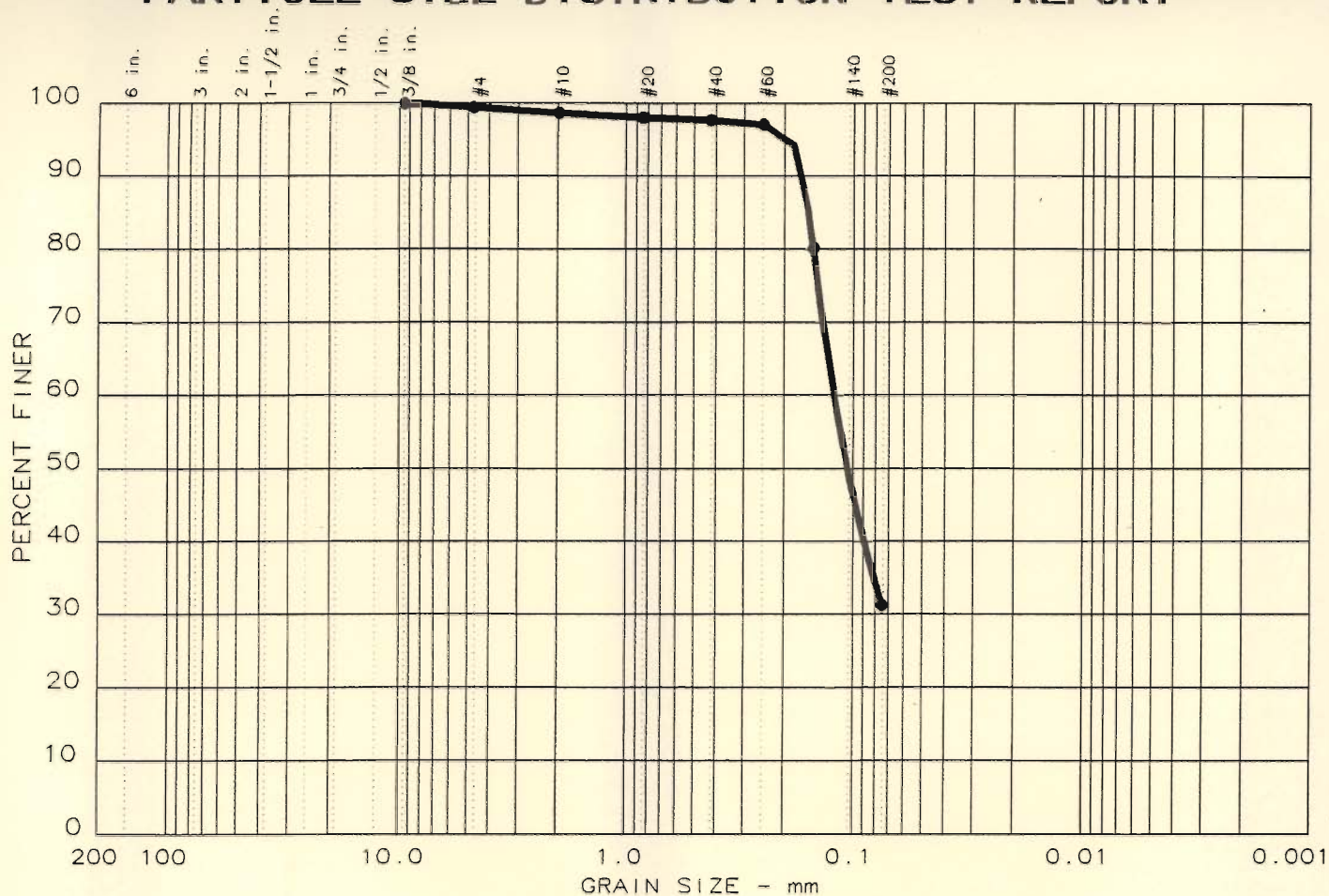
**Eustis
Engineering
Company, Inc.**

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PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.6	68.2	31.2		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.12		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.4		
10	98.6		
20	98.0		
40	97.6		
60	97.1		
100	80.2		
200	31.2		

Sample information:

● Boring F-1N, Sample 4
Loose gray CLAYEY SAND
w/fisa lay & few sh frag

Remarks:

Sample depth 7'-8'

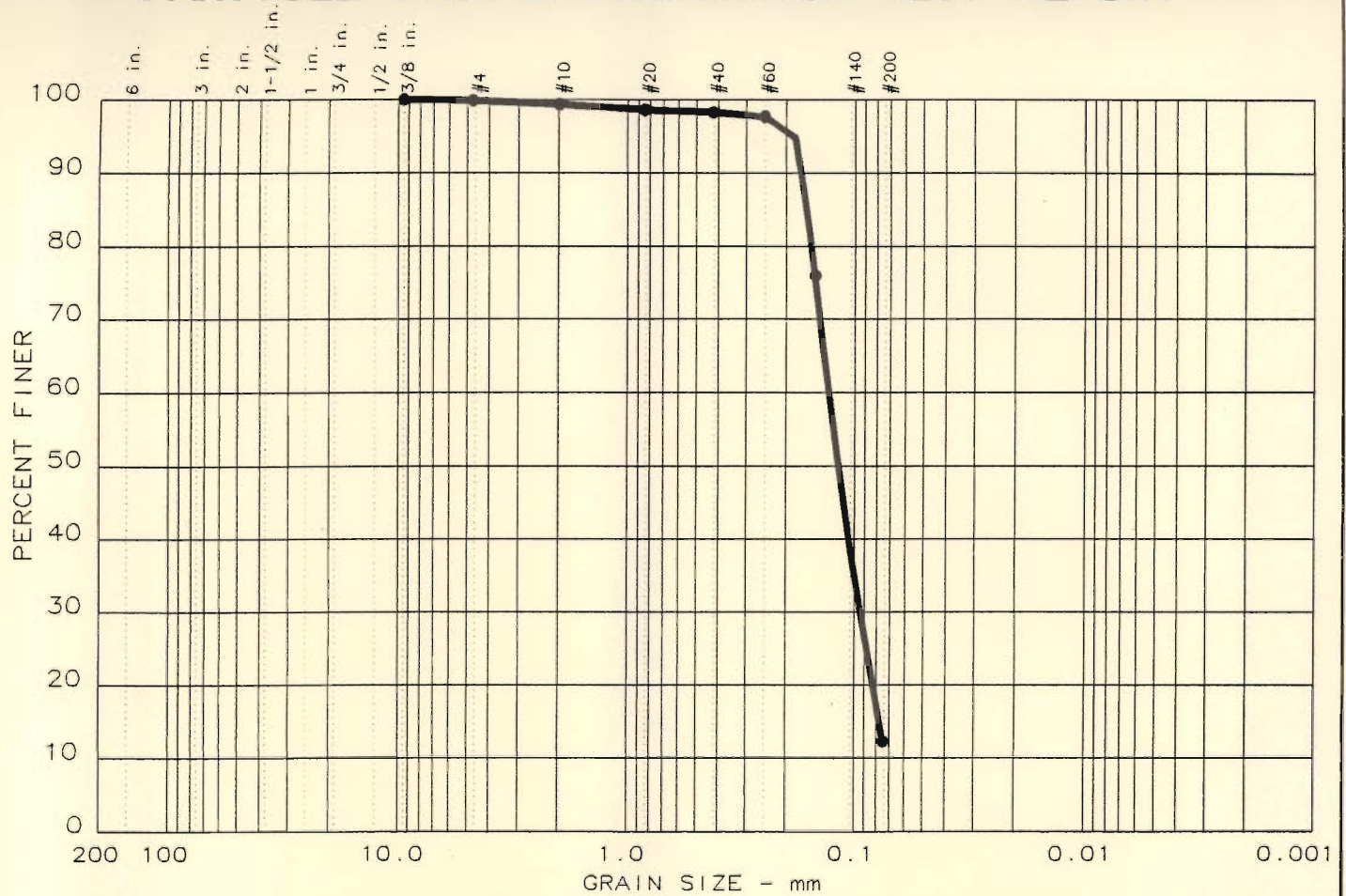
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	87.5	12.4		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.09		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.4		
20	98.6		
40	98.3		
60	97.7		
100	76.0		
200	12.3		

Sample information:

● Boring F-1N, Sample 6
Loose gray FINE SAND
w/cl pocs & few sh frag

Remarks:

Sample depth 11'-12'

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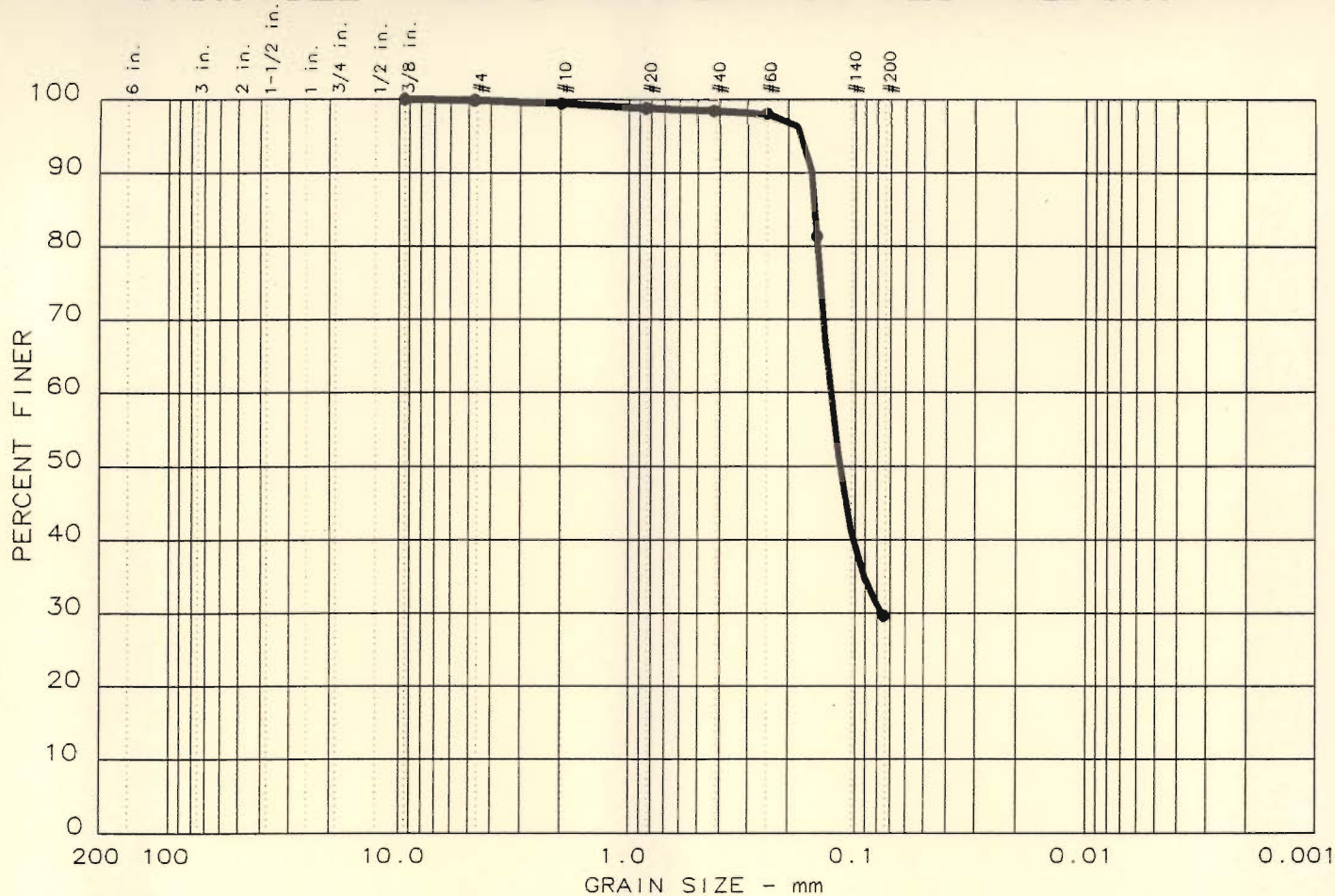
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	70.2	29.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.08		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.4		
20	98.8		
40	98.5		
60	98.0		
100	81.4		
200	29.7		

Sample information:

● Boring F-1S, Sample 2
Loose gray CLAYEY SAND
w/sacl len & few sh frag

Remarks:
Sample depth 3'-4'

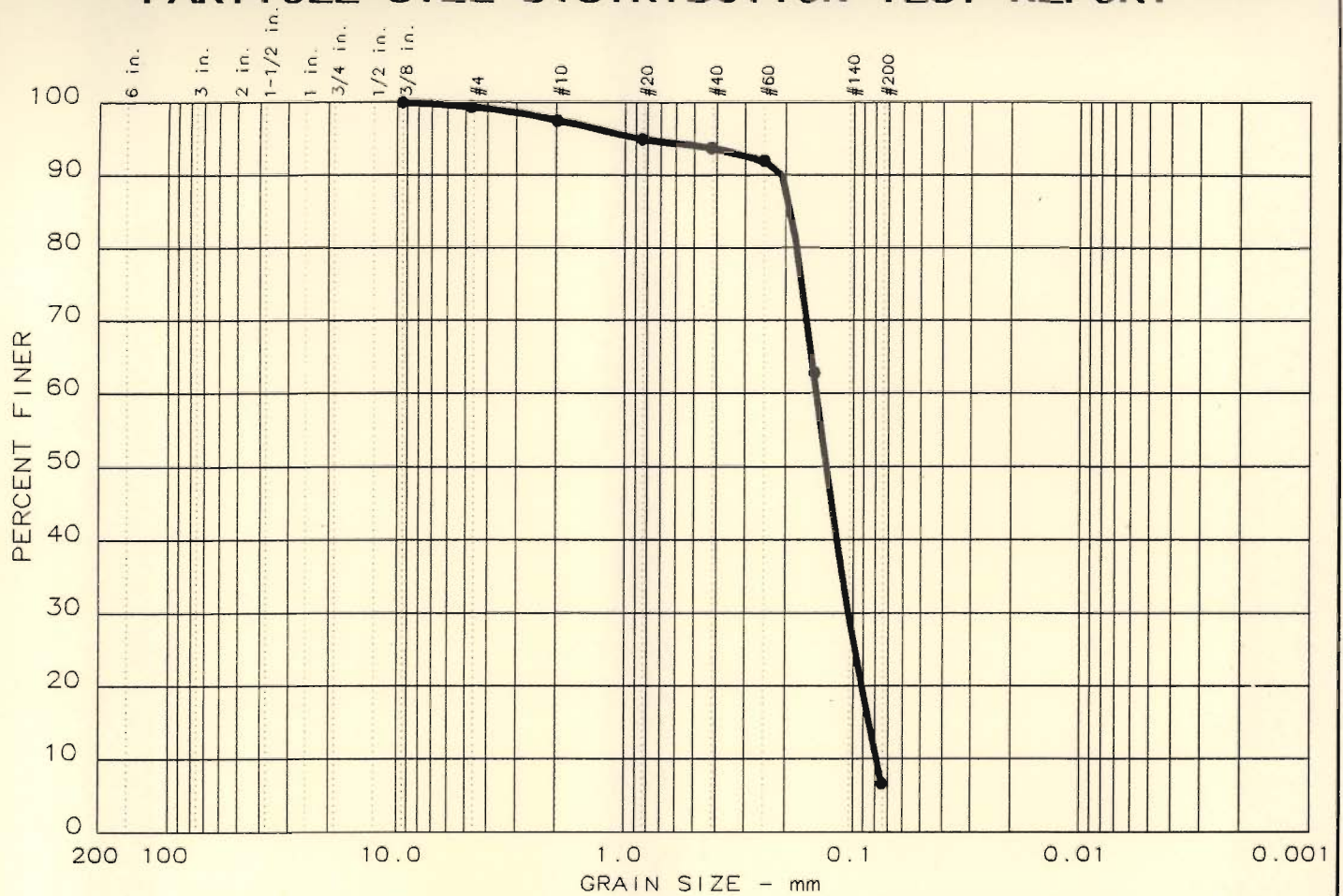
**Eustis
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Project: DNR / Whiskey Pass

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.6	92.7	6.7		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.15		
D ₃₀	0.11		
D ₁₀	0.07		
COEFFICIENTS			
C _c	0.96		
C _u	1.9		

SIEVE number size	PERCENT FINER		
4	99.4		
10	97.5		
20	95.0		
40	93.7		
60	92.0		
100	62.8		
200	6.6		

Sample information:
 • Boring F-1S, Sample 4
 Loose gray FINE SAND
 w/ si & shell fragments

Remarks:
 Sample depth 7'-8'

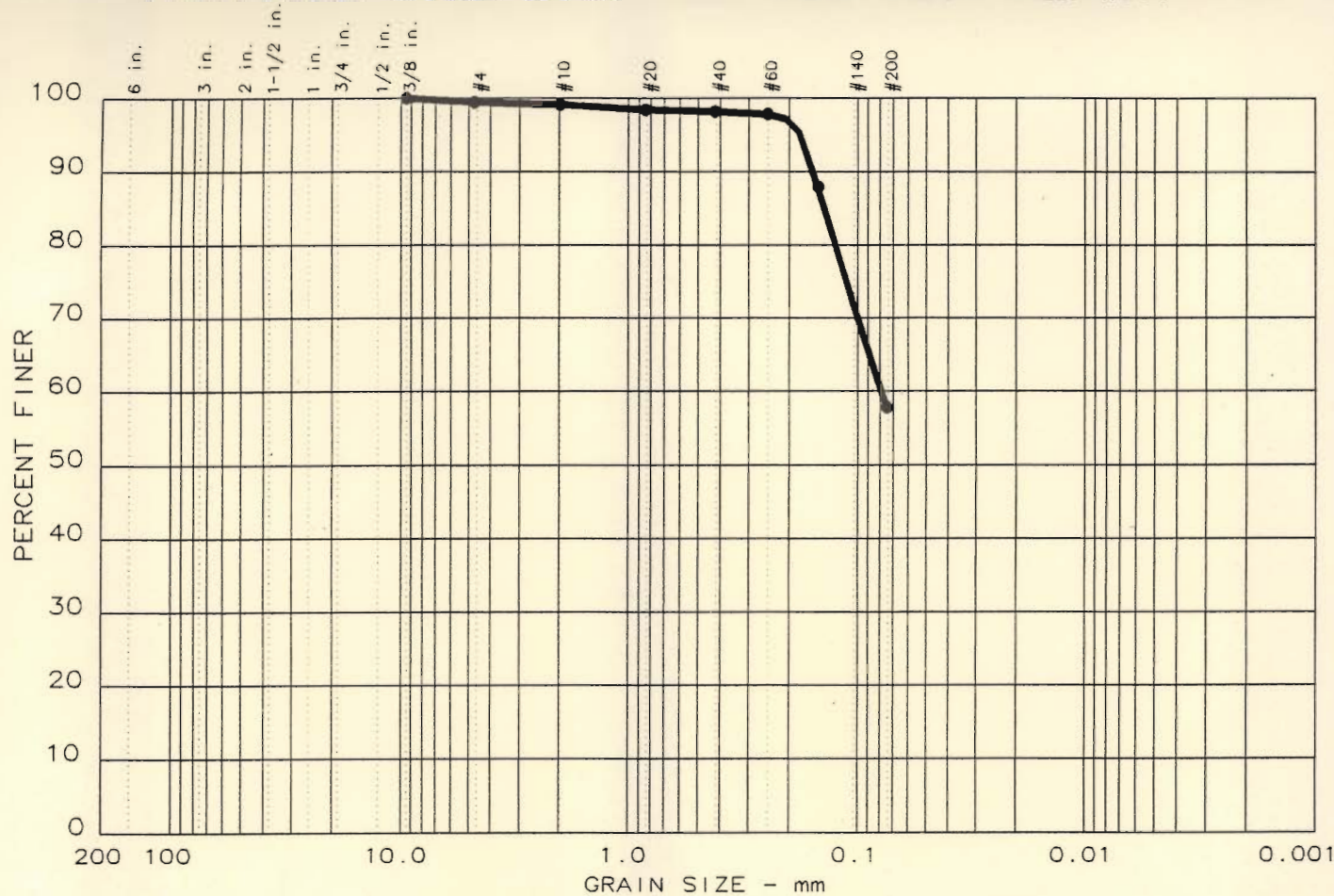
**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.6	41.6	57.8		CL		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
X GRAIN SIZE			
D ₆₀	0.08		
D ₃₀			
D ₁₀			
X COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.4		
10	99.1		
20	98.4		
40	98.2		
60	97.8		
100	87.9		
200	57.8		

Sample information:

- Boring F-1S, Sample 6
- Very Soft gray SANDY CLAY

Remarks:

Sample depth 11'-12'

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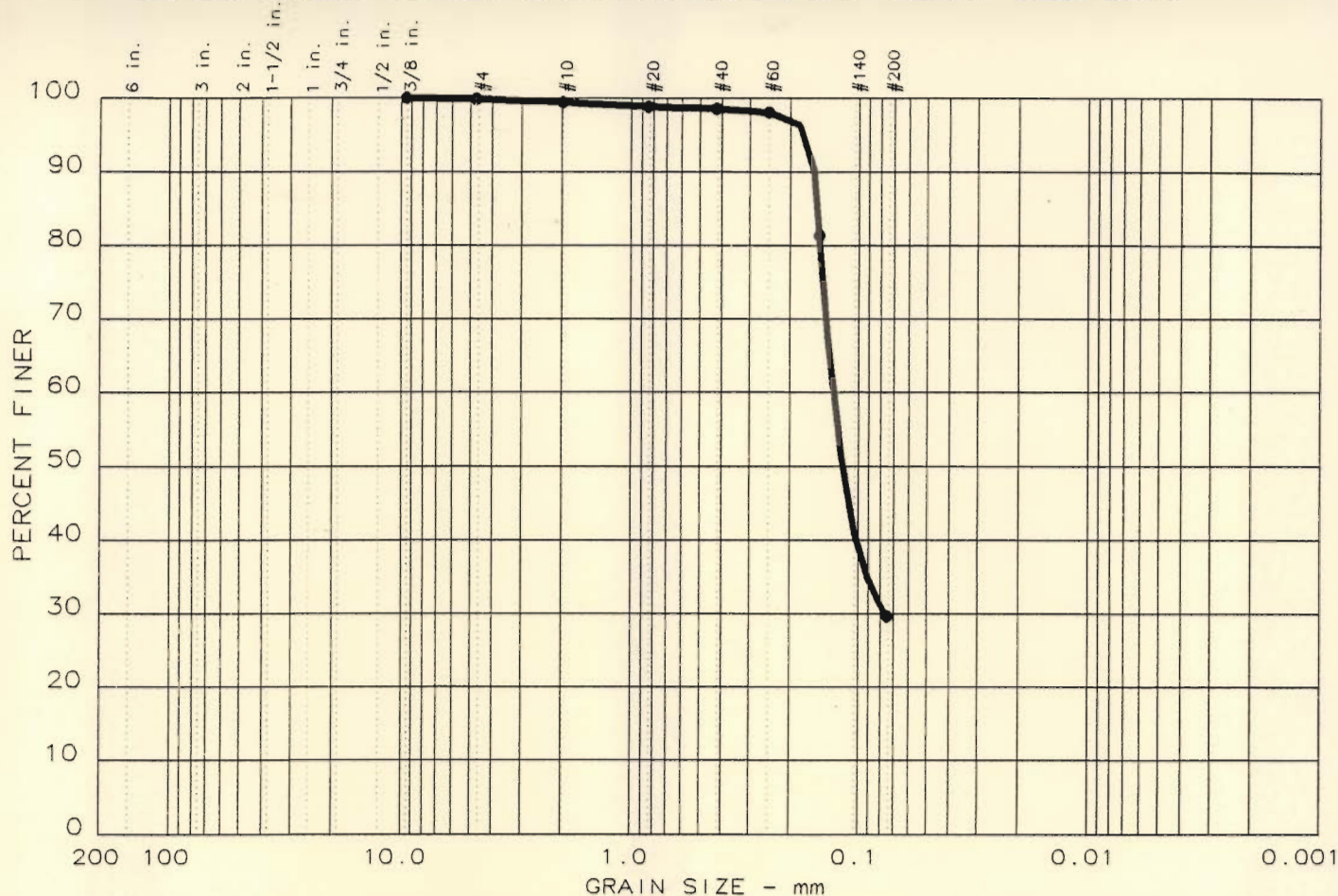
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Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.1	70.2	29.7		SC		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.13		
D ₃₀	0.08		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.9		
10	99.4		
20	98.8		
40	98.5		
60	98.0		
100	81.4		
200	29.7		

Sample information:
 • Boring F-1S, Sample 2
 Loose gray CLAYEY SAND
 w/sacl len & few sh frag

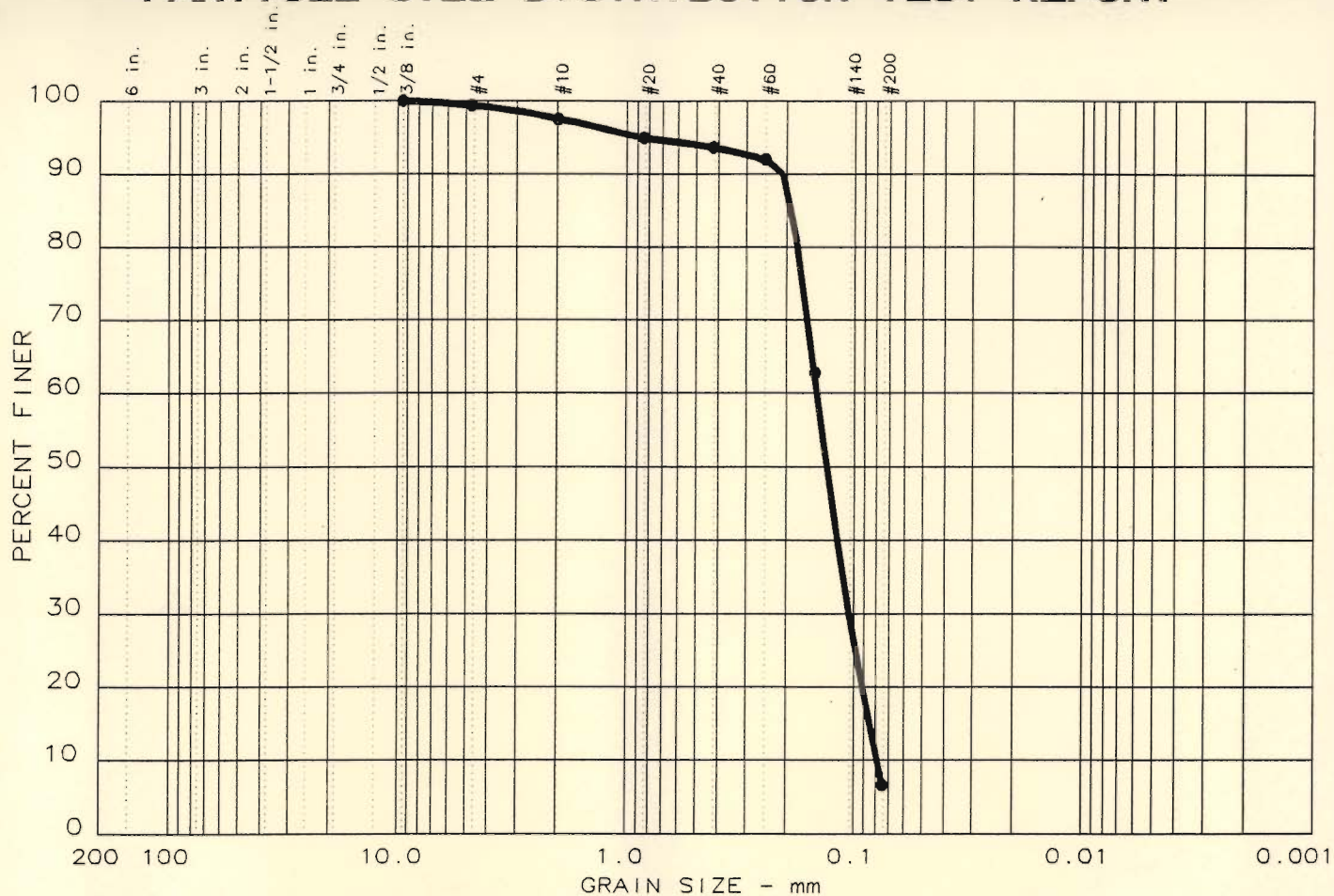
Remarks:
 Sample depth 3'-4'

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PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.6	92.7	6.7		SP-SM		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.15		
D ₃₀	0.11		
D ₁₀	0.07		
COEFFICIENTS			
C _c	0.96		
C _u	1.9		

SIEVE number size	PERCENT FINER		
4	99.4		
10	97.5		
20	95.0		
40	93.7		
60	92.0		
100	62.8		
200	6.6		

Sample information:
 • Boring F-1S, Sample 4
 Loose gray FINE SAND
 w/ si & shell fragments

Remarks:
 Sample depth 7'-8'

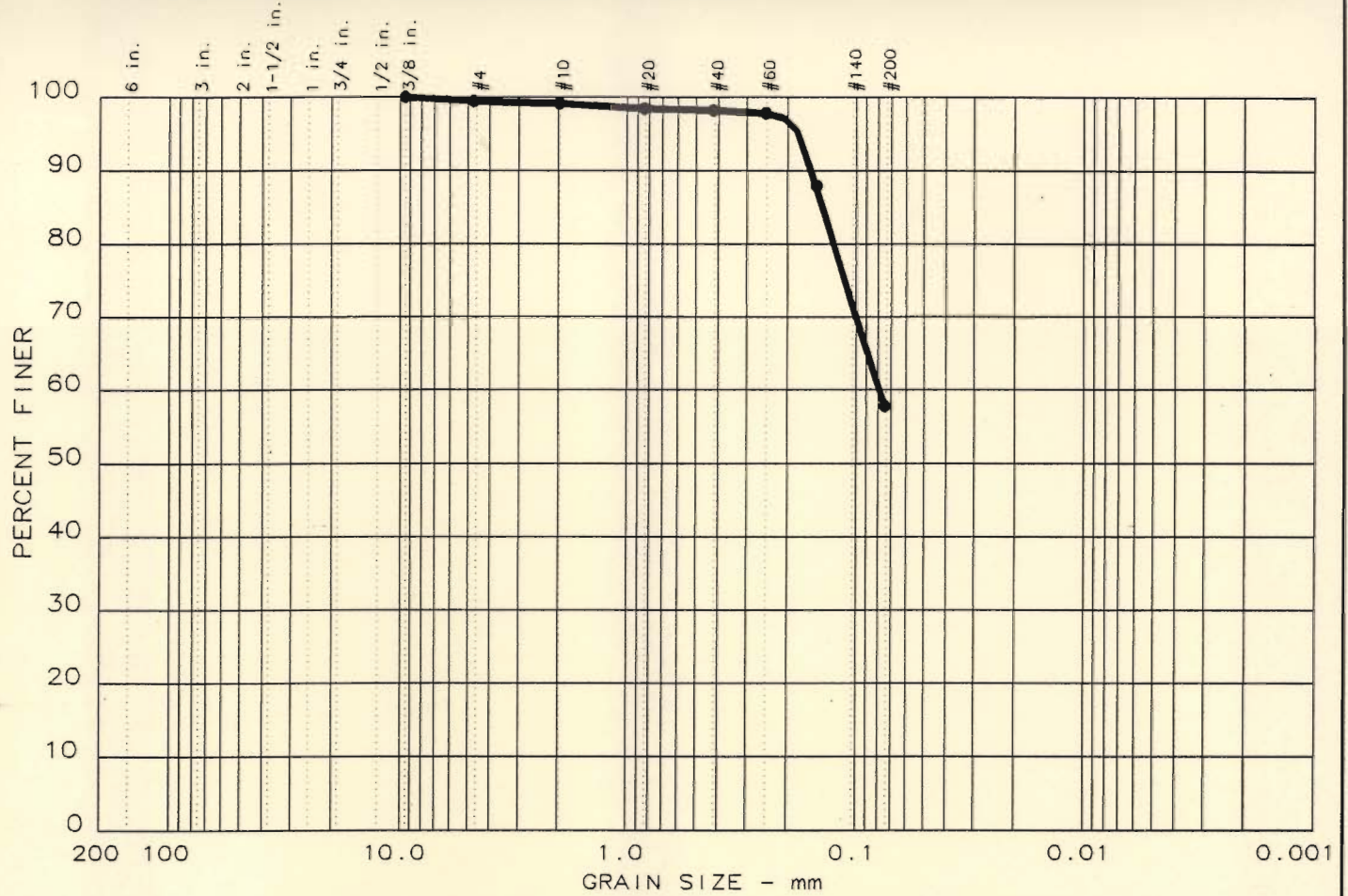
**Eustis
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Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	0.6	41.6	57.8		CL		

SIEVE inches size	PERCENT FINER		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.08		
D ₃₀			
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	99.4		
10	99.1		
20	98.4		
40	98.2		
60	97.8		
100	87.9		
200	57.8		

Sample information:
 • Boring F-1S, Sample 6
 Very Soft gray SANDY CLAY

Remarks:
 Sample depth 11'-12'

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