
APPENDIX B

Laboratory Testing

To evaluate their engineering properties, laboratory tests were performed on selected soil samples obtained during the field exploration. The tests are described in the following paragraphs.

B.1 MOISTURE CONTENT AND DRY DENSITY

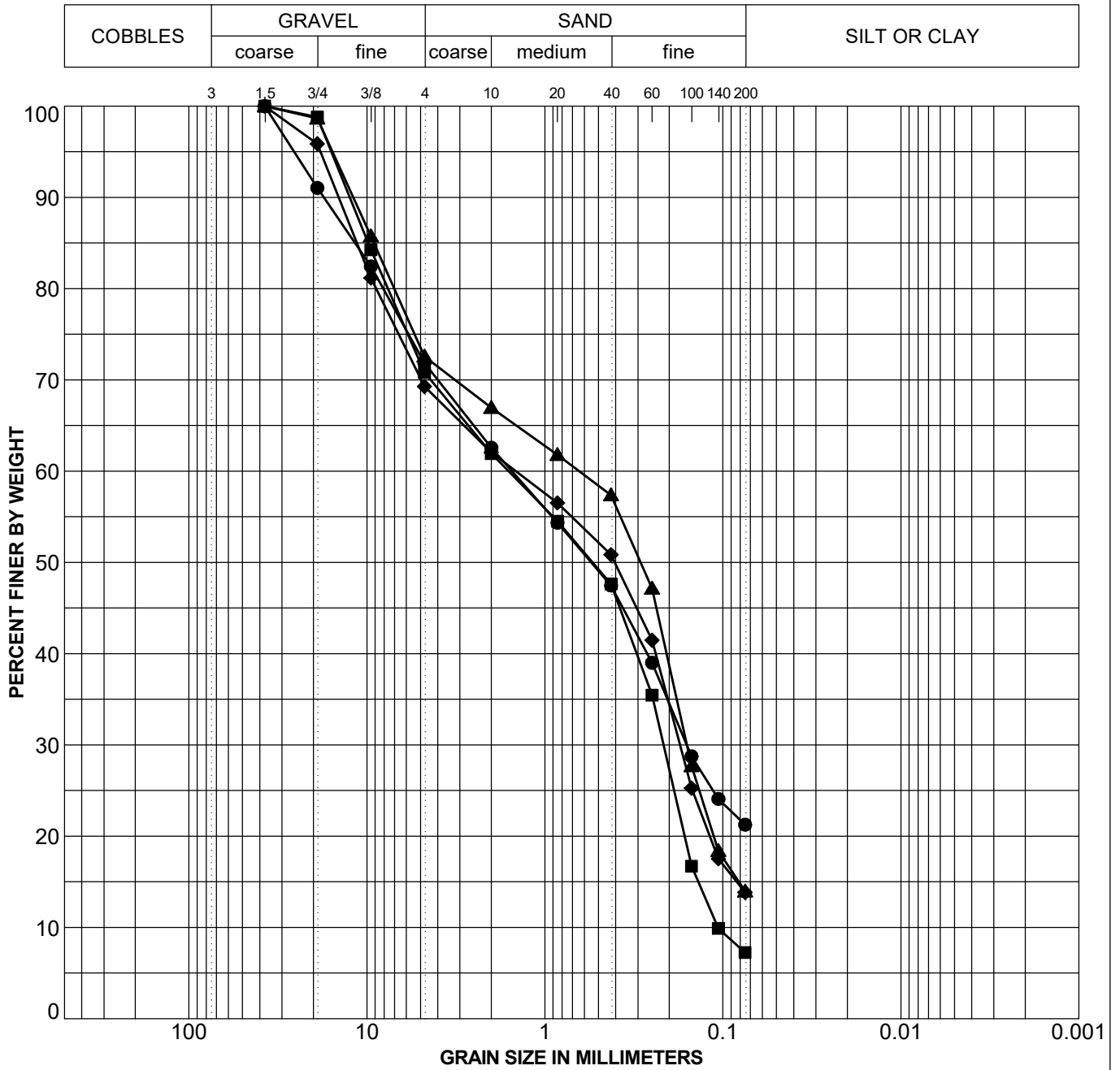
Selected soil samples were tested to measure their moisture contents and dry densities in accordance with ASTM D2216 and D7263, respectively. The soil densities were found by testing relatively less disturbed ring samples obtained using Modified California samplers. The moisture contents and dry densities are presented in the Log of Borings at the appropriate sample depths.

B.2 GRADATION ANALYSIS

Gradation analyses were performed on selected soil samples using the wash sieve method to evaluate grain size distribution in accordance with ASTM D422. The soil was passed through various sieves with decreasing opening sizes. The dry weights retained on each sieve were used to calculate the percent passing for each grain size. The results are presented in Figures B-1.1 to B-1.7.

B.3 ATTERBERG LIMITS (PLASTICITY INDEX)

To assist in soil classification, liquid limit and plastic limit tests were performed on selected samples in accordance with ASTM D4318. The plasticity index is the difference between the liquid limit and plastic limit. The results are presented in Figure B-2, and the Log of Borings at the appropriate sample depths.



Boring	Depth (ft)	Description	Gravel %	Sand %	Fines %	Cc	Cu
● B-1	1.0	Silty sand with gravel (SM)	28	51	21		
■ B-2	4.0	Poorly graded sand with silt and gravel (SP-SM)	29	64	7	0.27	15.0
▲ B-2	10.0	Silty sand with gravel (SM)	27	59	14		
◆ B-4	1.3	Silty sand with gravel (SM)	31	55	14		

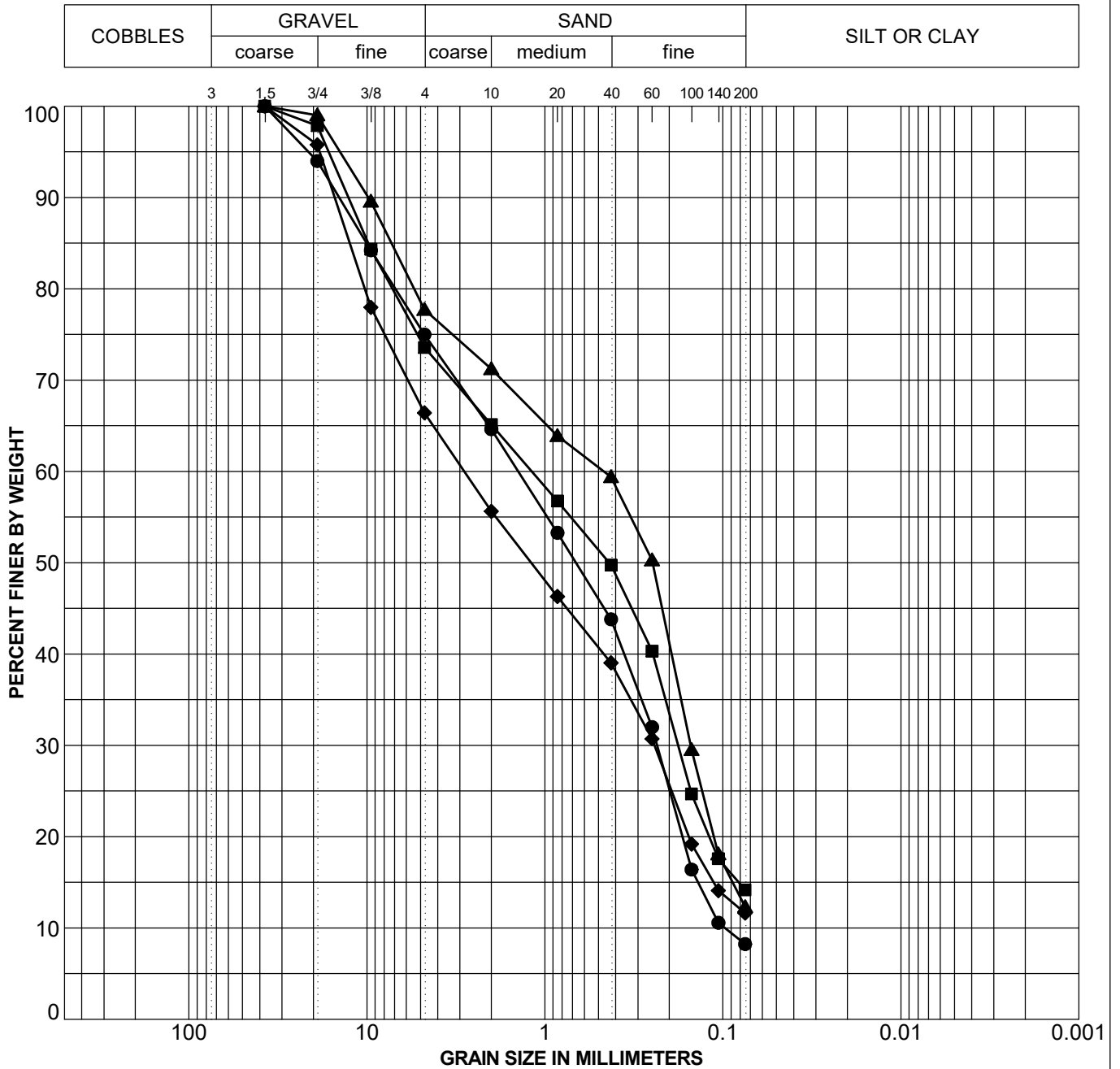
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GRAIN SIZE DISTRIBUTION CURVES

FIGURE B-1.1



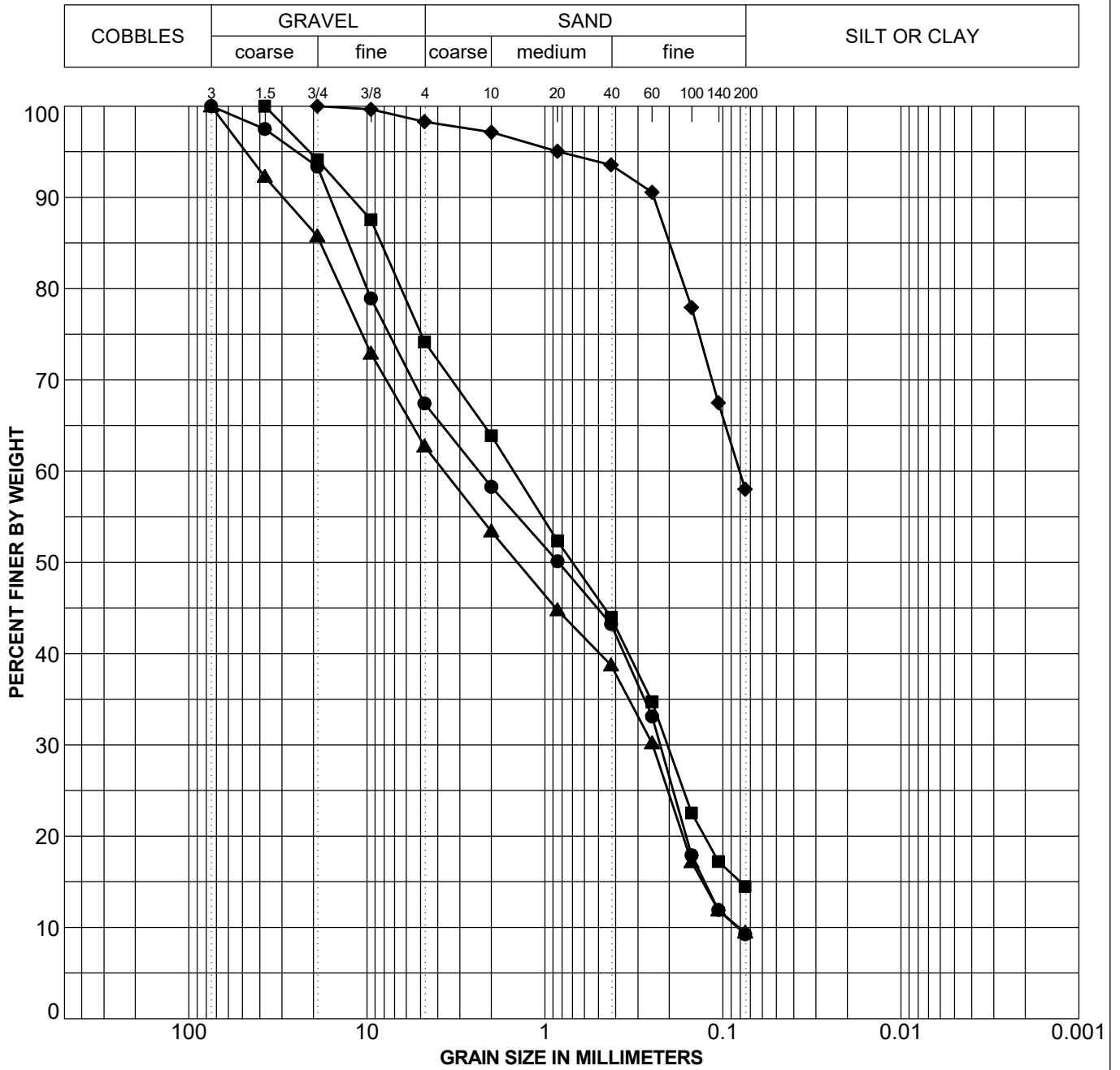
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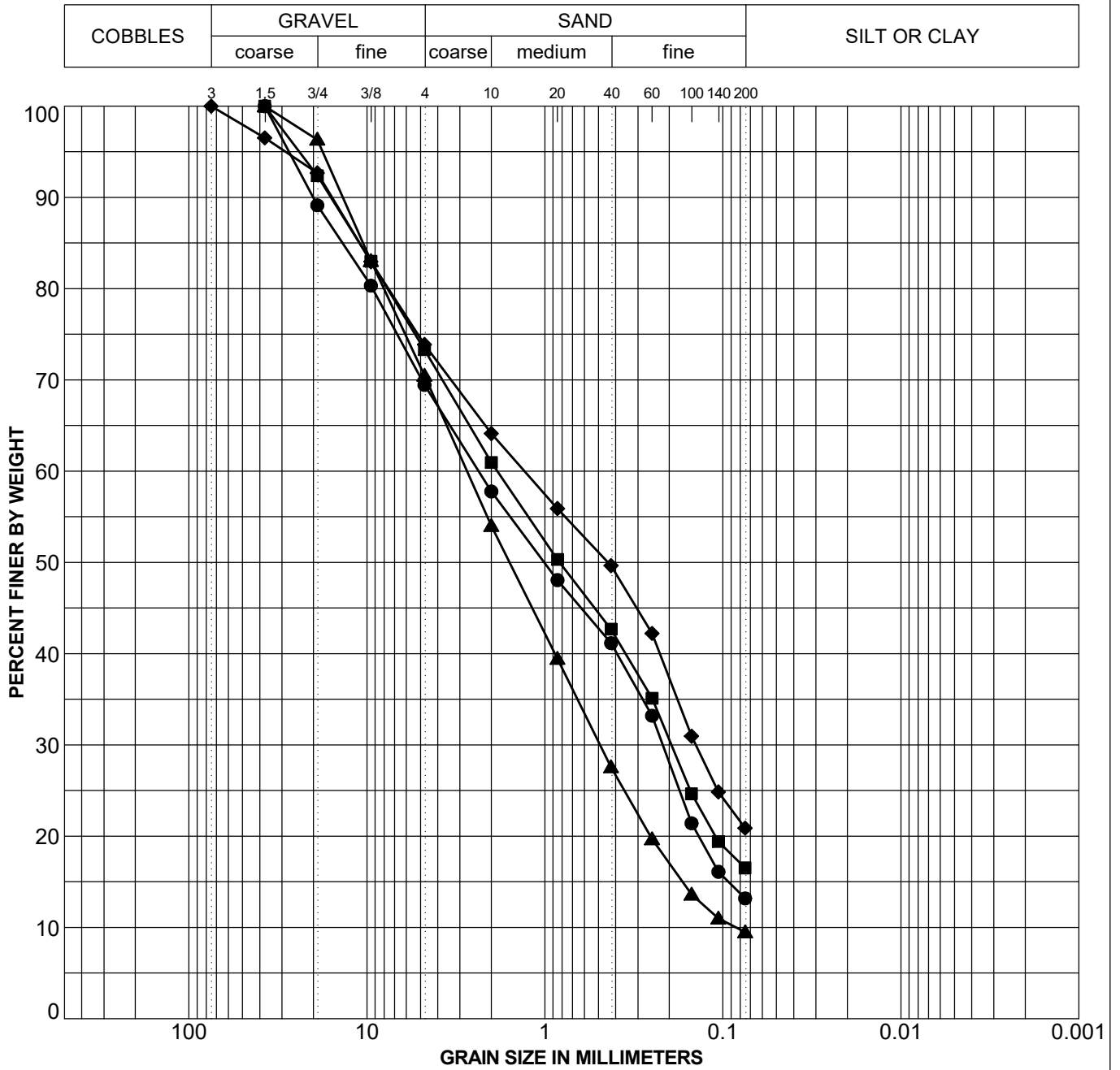
GRAIN SIZE DISTRIBUTION CURVES

Project Number: 24012

FIGURE B-1.2



Boring	Depth (ft)	Description	Gravel %	Sand %	Fines %	Cc	Cu
● B-9	4.0	Poorly graded sand with silt and gravel (SP-SM)	33	58	9	0.26	28.5
■ B-10	2.0	Silty sand with gravel (SM)	26	60	14		
▲ B-11	4.0	Poorly graded sand with silt and gravel (SP-SM)	37	53	10	0.21	45.4
◆ B-11	8.5	Sandy silt (ML)	2	40	58		



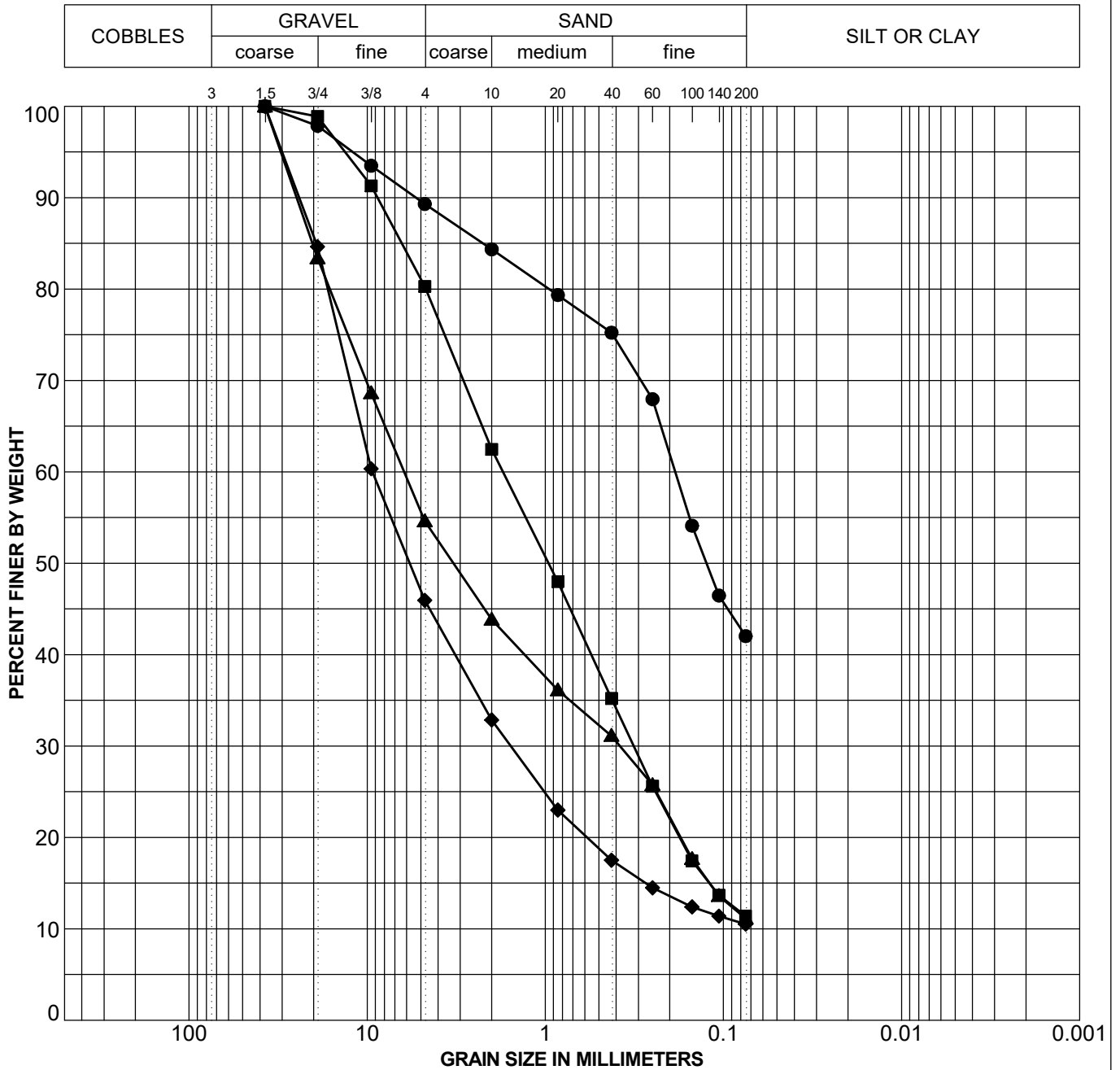
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GRAIN SIZE DISTRIBUTION CURVES

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FIGURE B-1.4



Boring	Depth (ft)	Description	Gravel %	Sand %	Fines %	Cc	Cu
● B-15	7.0	Silty sand (SM)	11	47	42		
■ B-16	2.0	Poorly graded sand with silt and gravel (SP-SM)	20	69	11	0.97	28.6
▲ B-16	8.0	Poorly graded gravel with silt and sand (GP-GM)	45	43	12	0.36	96.8
◆ B-17	2.9	Poorly graded gravel with silt and sand (GP-GM)	54	35	11	4.26	152.9

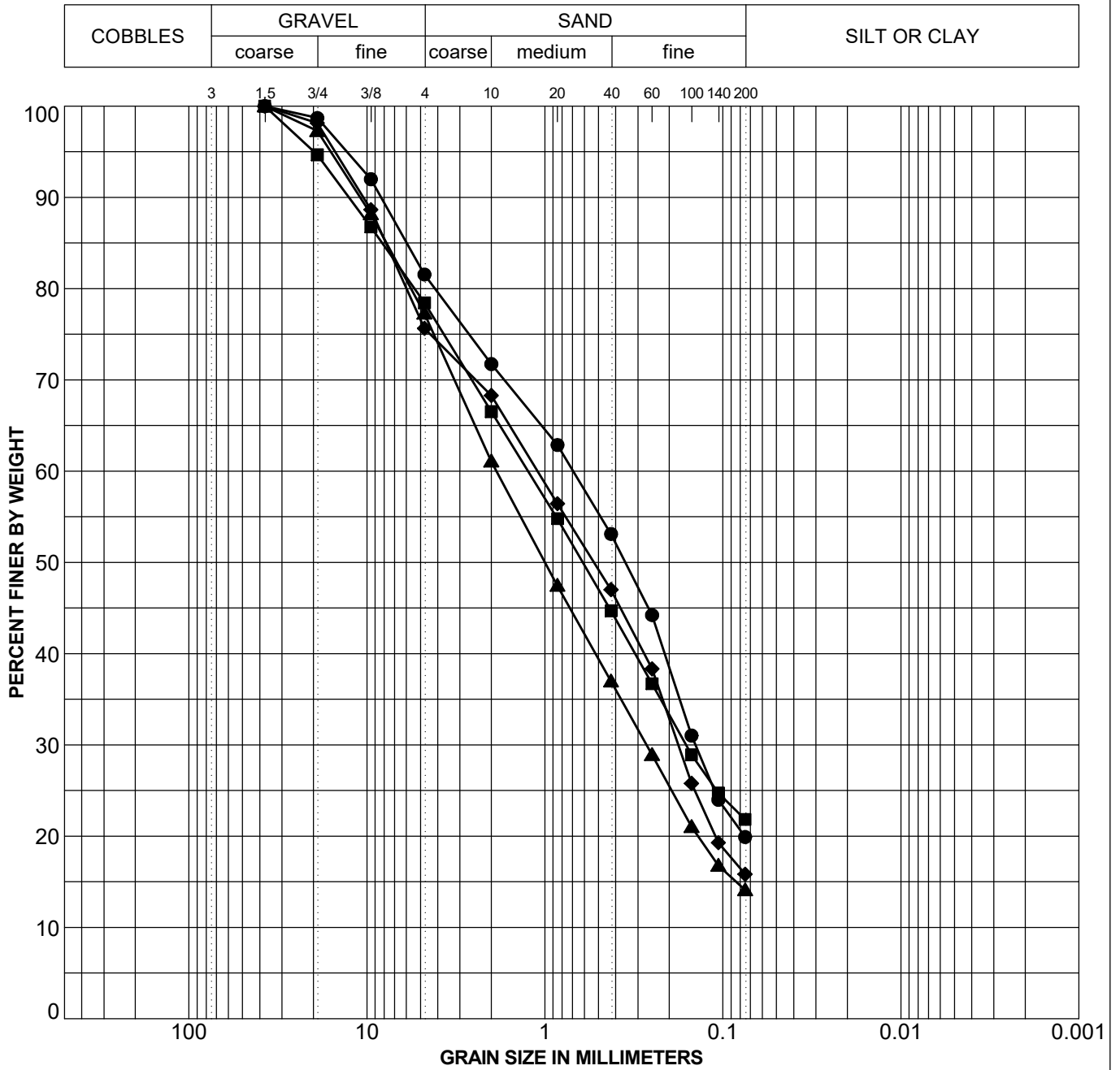
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GRAIN SIZE DISTRIBUTION CURVES

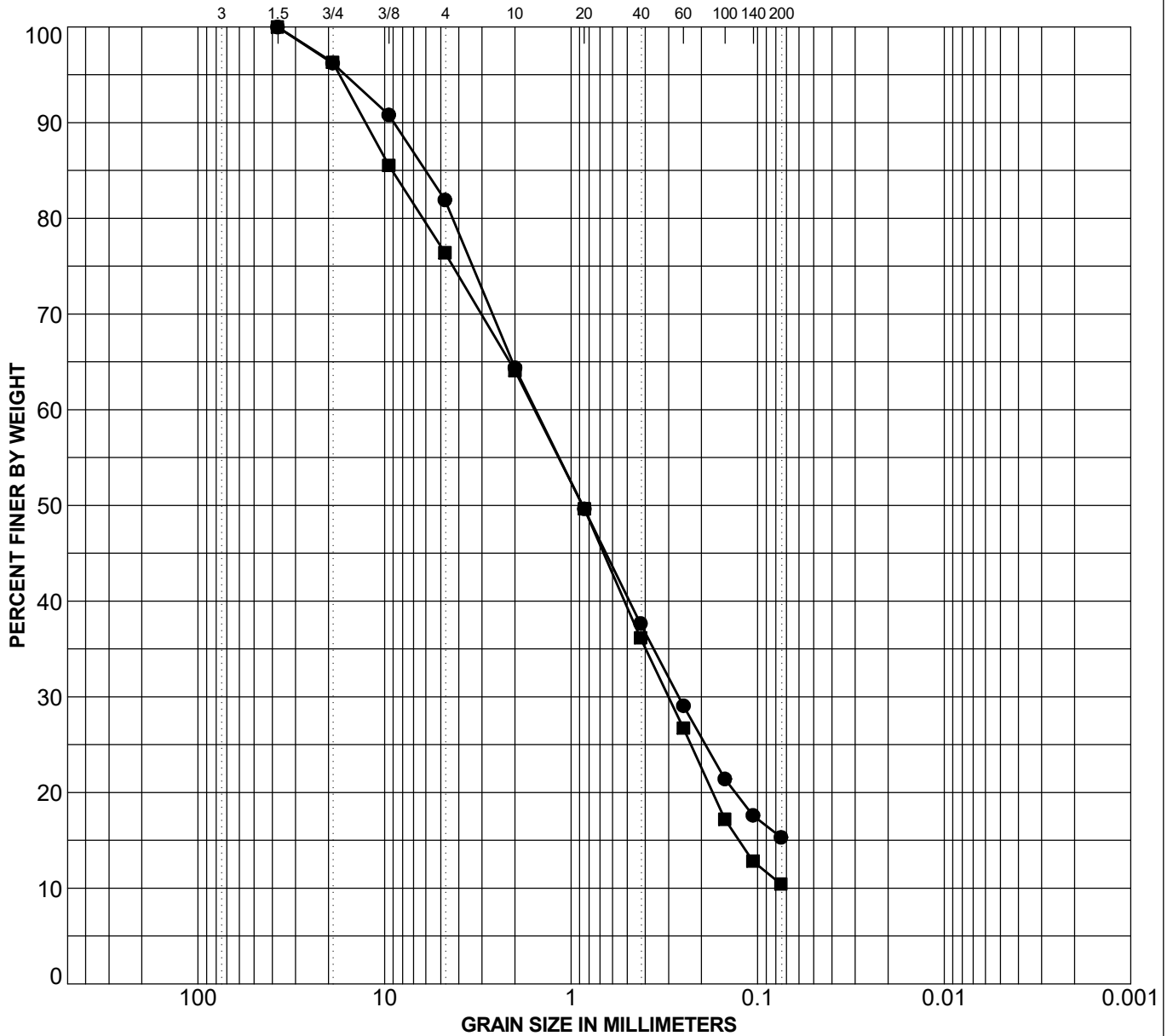
FIGURE B-1.5



Boring	Depth (ft)	Description	Gravel %	Sand %	Fines %	Cc	Cu
● B-17	7.5	Silty sand with gravel (SM)	18	62	20		
■ B-18	5.0	Silty sand with gravel (SM)	22	57	21		
▲ B-19	1.8	Silty sand with gravel (SM)	23	63	14		
◆ B-19	8.5	Silty sand with gravel (SM)	24	60	16		



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	



Boring	Depth (ft)	Description	Gravel %	Sand %	Fines %	Cc	Cu
● B-20	5.0	Silty sand with gravel (SM)	18	67	15		
■ B-21	2.3	Poorly graded sand with silt and gravel (SP-SM)	24	66	10	0.82	22.3

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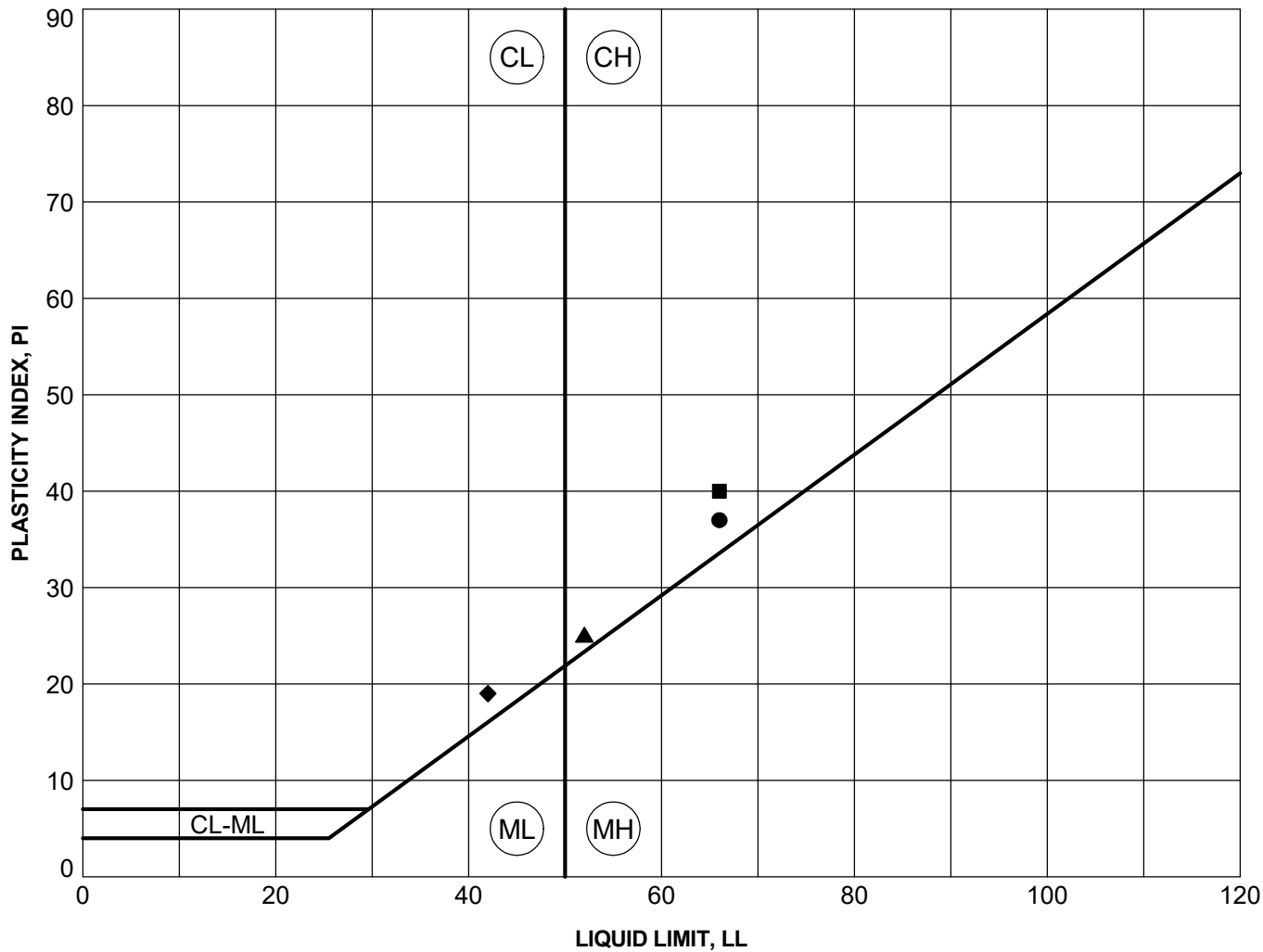
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GRAIN SIZE DISTRIBUTION CURVES

FIGURE B-1.7





Boring		Depth (ft)	LL	PL	PI	Description
●	B-1	5.5	66	29	37	Fat Clay (CH)
■	B-4	5.8	66	26	40	Fat Clay (CH)
▲	B-9	7.0	52	27	25	Fat Clay (CH)
◆	B-12	8.5	42	23	19	Lean Clay (CL)

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PLASTICITY CHART

FIGURE B-2



APPENDIX C

Selected Photographs of Soil Samples Taken During Field Exploration



Boring B-1, Sample 1, Depth: 0.5' - 1.0'



Boring B-1, Sample 1, Depth: 0.5' - 1.0'



Boring B-1, Sample 2, Depth: 1.0' - 2.5'



Boring B-1, Sample 2, Depth: 1.0' - 2.5'



Boring B-1, Sample 2, Depth: 1.0' - 2.5'



Boring B-1, Sample 2, Depth: 1.0' - 2.5'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-1



Boring B-1, Sample 3, Depth: 2.5' - 4.0'



Boring B-1, Sample 3, Depth: 2.5' - 4.0'



Boring B-1, Sample 3, Depth: 2.5' - 4.0'



Boring B-1, Sample 3, Depth: 2.5' - 4.0'



Boring B-1, Sample 4, Depth: 4.0' - 5.5'



Boring B-1, Sample 4, Depth: 4.0' - 5.5'

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FIGURE C-2



Boring B-1, Sample 4, Depth: 4.0' - 5.5'



Boring B-1, Sample 4, Depth: 4.0' - 5.5'



Boring B-1, Sample 5, Depth: 5.5' - 7.0'



Boring B-1, Sample 5, Depth: 5.5' - 7.0'



Boring B-1, Sample 5, Depth: 5.5' - 7.0'



Boring B-1, Sample 5, Depth: 5.5' - 7.0'

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FIGURE C-3



Boring B-1, Sample 6, Depth: 7.0' - 8.5'



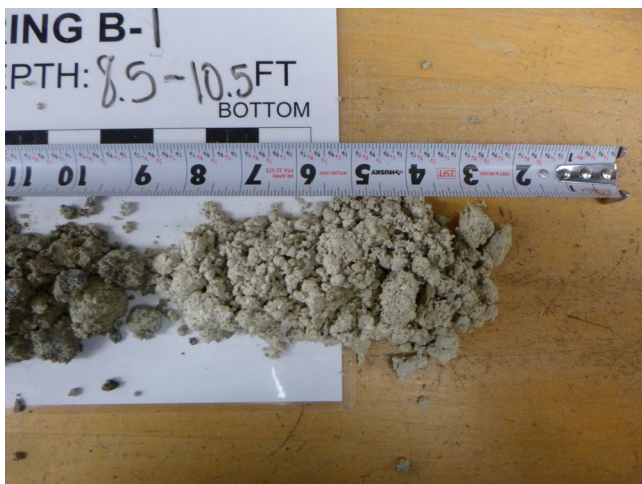
Boring B-1, Sample 7, Depth: 8.5' - 10.5'



Boring B-1, Sample 7, Depth: 8.5' - 10.5'



Boring B-1, Sample 7, Depth: 8.5' - 10.5'



Boring B-1, Sample 7, Depth: 8.5' - 10.5'

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FIGURE C-4



Boring B-2, Sample 1, Depth: 0.4 - 1.0



Boring B-2, Sample 1, Depth: 0.4 - 1.0



Boring B-2, Sample 1, Depth: 0.4 - 1.0



Boring B-2, Sample 2, Depth: 1.0 - 2.5



Boring B-2, Sample 2, Depth: 1.0 - 2.5



Boring B-2, Sample 2, Depth: 1.0 - 2.5

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FIGURE C-5



Boring B-2, Sample 2, Depth: 1.0 - 2.5



Boring B-2, Sample 3, Depth: 2.5 - 4.0



Boring B-2, Sample 3, Depth: 2.5 - 4.0



Boring B-2, Sample 3, Depth: 2.5 - 4.0



Boring B-2, Sample 3, Depth: 2.5 - 4.0



Boring B-2, Sample 4, Depth: 4.0' - 5.5'

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FIGURE C-6



Boring B-2, Sample 4, Depth: 4.0' - 5.5'



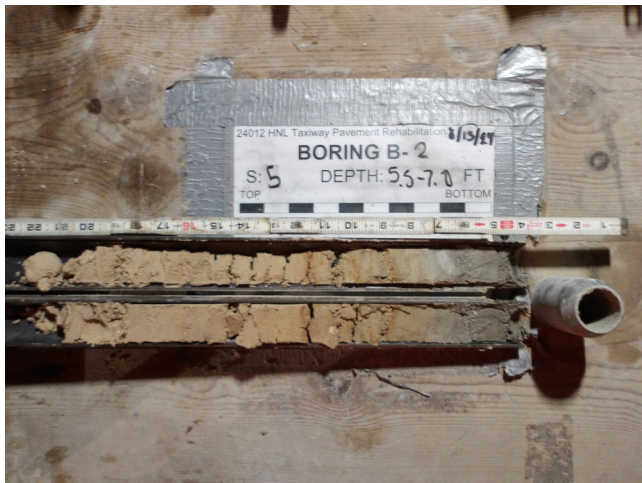
Boring B-2, Sample 4, Depth: 4.0' - 5.5'



Boring B-2, Sample 4, Depth: 4.0' - 5.5'



Boring B-2, Sample 4, Depth: 4.0' - 5.5'



Boring B-2, Sample 5, Depth: 5.5' - 7.0'



Boring B-2, Sample 5, Depth: 5.5' - 7.0'

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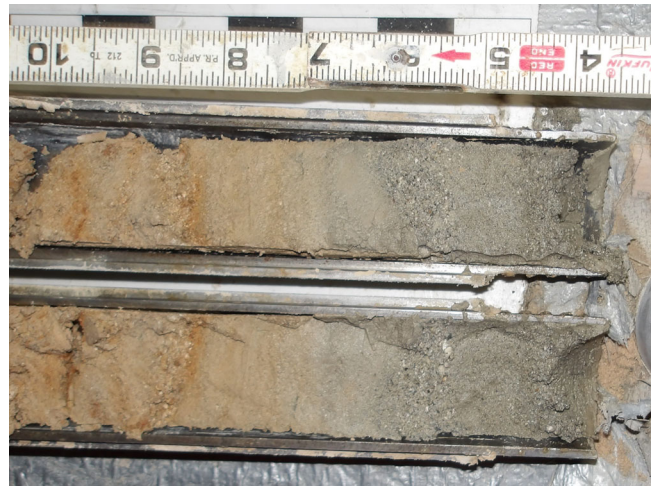
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FIGURE C-7



Boring B-2, Sample 5, Depth: 5.5' - 7.0'



Boring B-2, Sample 5, Depth: 5.5' - 7.0'



Boring B-2, Sample 6, Depth: 7.0' - 8.5'



Boring B-2, Sample 7, Depth: 8.5' - 10.0'



Boring B-2, Sample 7, Depth: 8.5' - 10.0'



Boring B-2, Sample 7, Depth: 8.5' - 10.0'

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FIGURE C-8



Boring B-2, Sample 8, Depth: 10.0' - 11.5'



Boring B-2, Sample 8, Depth: 10.0' - 11.5'



Boring B-2, Sample 8, Depth: 10.0' - 11.5'



Boring B-2, Sample 8, Depth: 10.0' - 11.5'



Boring B-2, Sample 9, Depth: 11.5' - 13.0'



Boring B-2, Sample 9, Depth: 11.5' - 13.0'

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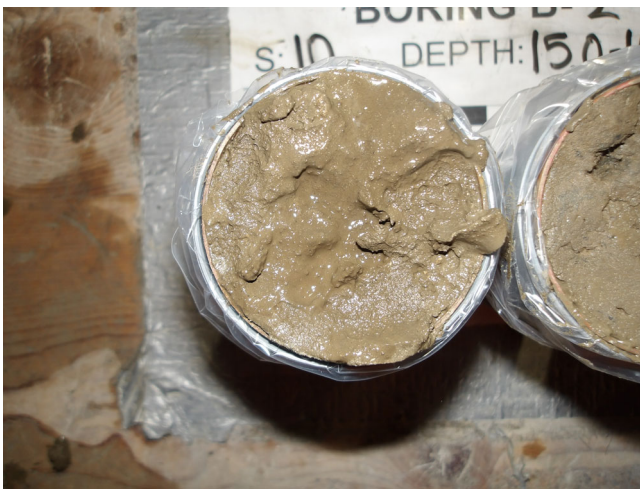
FIGURE C-9



Boring B-2, Sample 9, Depth: 11.5' - 13.0'



Boring B-2, Sample 10, Depth: 15.0' - 16.5'



Boring B-2, Sample 10, Depth: 15.0' - 16.5'



Boring B-2, Sample 10, Depth: 15.0' - 16.5'



Boring B-2, Sample 10, Depth: 15.0' - 16.5'

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FIGURE C-10



Boring B-4, Sample 1, Depth: 0.8' - 1.3'



Boring B-4, Sample 1, Depth: 0.8' - 1.3'



Boring B-4, Sample 1, Depth: 0.8' - 1.3'



Boring B-4, Sample 2, Depth: 1.3' - 2.8'



Boring B-4, Sample 2, Depth: 1.3' - 2.8'



Boring B-4, Sample 2, Depth: 1.3' - 2.8'

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FIGURE C-11



Boring B-4, Sample 2, Depth: 1.3' - 2.8'



Boring B-4, Sample 3, Depth: 2.8' - 4.3'



Boring B-4, Sample 3, Depth: 2.8' - 4.3'



Boring B-4, Sample 3, Depth: 2.8' - 4.3'



Boring B-4, Sample 4, Depth: 4.3' - 5.8'



Boring B-4, Sample 4, Depth: 4.3' - 5.8'

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FIGURE C-12



Boring B-4, Sample 4, Depth: 4.3' - 5.8'



Boring B-4, Sample 4, Depth: 4.3' - 5.8'



Boring B-4, Sample 5, Depth: 5.8' - 7.3'



Boring B-4, Sample 5, Depth: 5.8' - 7.3'



Boring B-4, Sample 5, Depth: 5.8' - 7.3'



Boring B-4, Sample 6, Depth: 7.3' - 8.8'

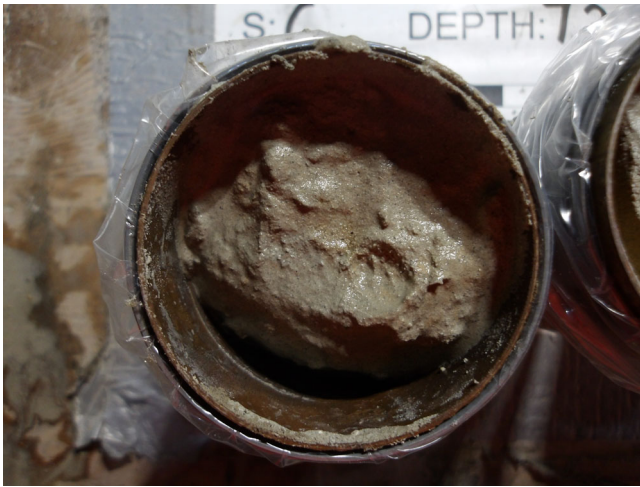
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FIGURE C-13



Boring B-4, Sample 6, Depth: 7.3' - 8.8'



Boring B-4, Sample 6, Depth: 7.3' - 8.8'



Boring B-4, Sample 6, Depth: 7.3' - 8.8'



Boring B-4, Sample 7, Depth: 8.8' - 10.3'



Boring B-4, Sample 7, Depth: 8.8' - 10.3'



Boring B-4, Sample 7, Depth: 8.8' - 10.3'

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FIGURE C-14



Boring B-4, Sample 7, Depth: 8.8' - 10.3'



Boring B-4, Sample 8, Depth: 10.3' - 11.8'



Boring B-4, Sample 8, Depth: 10.3' - 11.8'



Boring B-4, Sample 8, Depth: 10.3' - 11.8'



Boring B-4, Sample 8, Depth: 10.3' - 11.8'



Boring B-4, Sample 9, Depth: 11.8' - 13.3'

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FIGURE C-15



Boring B-4, Sample 9, Depth: 11.8' - 13.3'



Boring B-4, Sample 9, Depth: 11.8' - 13.3'



Boring B-4, Sample 9, Depth: 11.8' - 13.3'

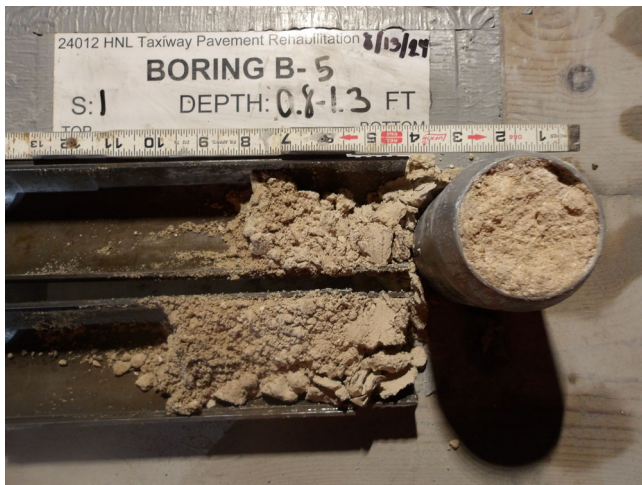
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FIGURE C-16



Boring B-5, Sample 1, Depth: 0.8' - 1.3'



Boring B-5, Sample 1, Depth: 0.8' - 1.3'



Boring B-5, Sample 2, Depth: 1.3' - 2.8'



Boring B-5, Sample 2, Depth: 1.3' - 2.8'



Boring B-5, Sample 2, Depth: 1.3' - 2.8'



Boring B-5, Sample 2, Depth: 1.3' - 2.8'

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FIGURE C-17



Boring B-5, Sample 3, Depth: 4.0' - 5.5'



Boring B-5, Sample 3, Depth: 4.0' - 5.5'



Boring B-5, Sample 3, Depth: 4.0' - 5.5'



Boring B-5, Sample 3, Depth: 4.0' - 5.5'



Boring B-5, Sample 4, Depth: 5.5' - 7.0'



Boring B-5, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-18



Boring B-5, Sample 4, Depth: 5.5' - 7.0'



Boring B-5, Sample 4, Depth: 5.5' - 7.0'



Boring B-5, Sample 5, Depth: 7.0' - 8.5'



Boring B-5, Sample 5, Depth: 7.0' - 8.5'



Boring B-5, Sample 5, Depth: 7.0' - 8.5'



Boring B-5, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-19



Boring B-5, Sample 6, Depth: 8.5' - 10.0'



Boring B-5, Sample 6, Depth: 8.5' - 10.0'



Boring B-5, Sample 6, Depth: 8.5' - 10.0'



Boring B-5, Sample 6, Depth: 8.5' - 10.0'

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FIGURE C-20



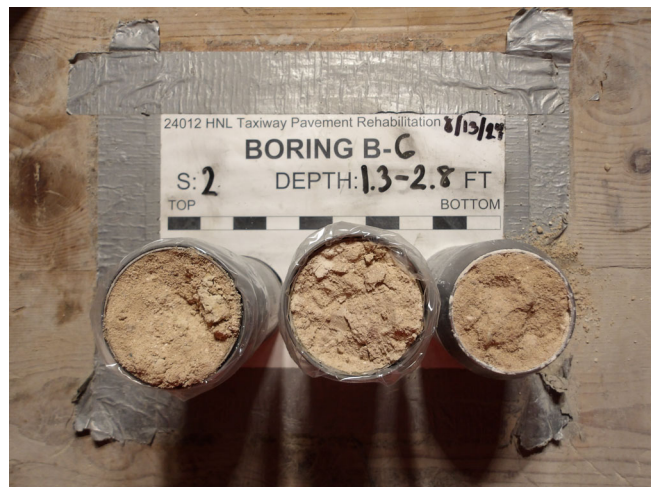
Boring B-6, Sample 1, Depth: 0.8' - 1.3'



Boring B-6, Sample 1, Depth: 0.8' - 1.3'



Boring B-6, Sample 1, Depth: 0.8' - 1.3'



Boring B-6, Sample 2, Depth: 1.3' - 2.8'



Boring B-6, Sample 2, Depth: 1.3' - 2.8'



Boring B-6, Sample 2, Depth: 1.3' - 2.8'

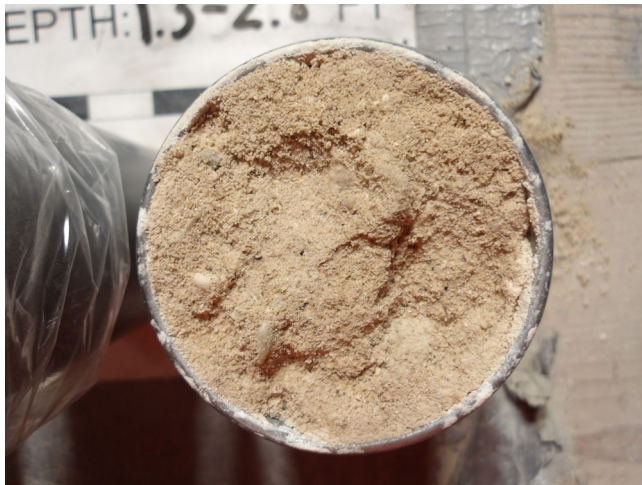
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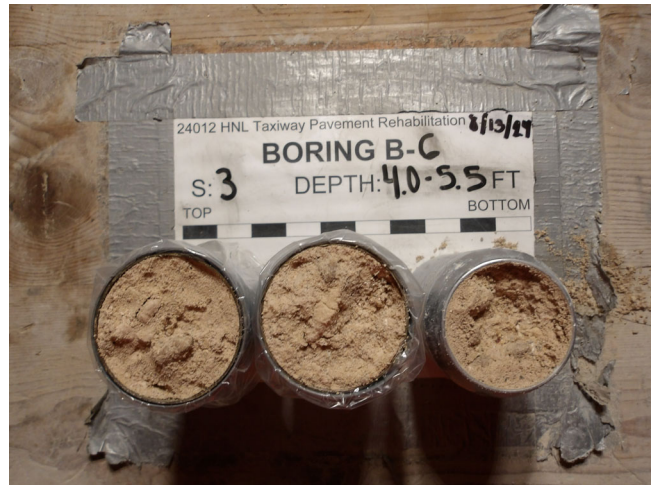
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FIGURE C-21



Boring B-6, Sample 2, Depth: 1.3' - 2.8'



Boring B-6, Sample 3, Depth: 4.0' - 5.5'



Boring B-6, Sample 3, Depth: 4.0' - 5.5'



Boring B-6, Sample 3, Depth: 4.0' - 5.5'



Boring B-6, Sample 3, Depth: 4.0' - 5.5'



Boring B-6, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-22



Boring B-6, Sample 4, Depth: 5.5' - 7.0'



Boring B-6, Sample 4, Depth: 5.5' - 7.0'



Boring B-6, Sample 4, Depth: 5.5' - 7.0'



Boring B-6, Sample 5, Depth: 7.0' - 8.5'



Boring B-6, Sample 5, Depth: 7.0' - 8.5'



Boring B-6, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-23



Boring B-6, Sample 5, Depth: 7.0' - 8.5'



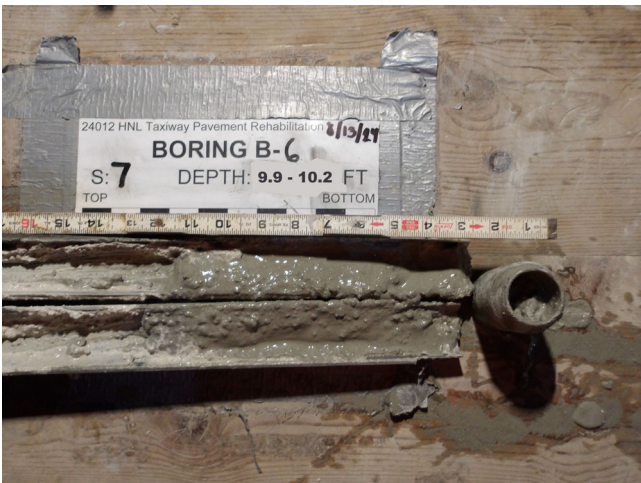
Boring B-6, Sample 6, Depth: 8.5' - 9.9'



Boring B-6, Sample 6, Depth: 8.5' - 9.9'



Boring B-6, Sample 6, Depth: 8.5' - 9.9'



Boring B-6, Sample 8, Depth: 9.9' - 10.2'

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FIGURE C-24



Boring B-7, Sample 1, Depth: 1.2' - 1.7'



Boring B-7, Sample 1, Depth: 1.2' - 1.7'



Boring B-7, Sample 2, Depth: 1.7' - 3.2'



Boring B-7, Sample 2, Depth: 1.7' - 3.2'



Boring B-7, Sample 2, Depth: 1.7' - 3.2'



Boring B-7, Sample 2, Depth: 1.7' - 3.2'

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FIGURE C-25



Boring B-7, Sample 3, Depth: 4.0' - 5.5'



Boring B-7, Sample 3, Depth: 4.0' - 5.5'



Boring B-7, Sample 3, Depth: 4.0' - 5.5'



Boring B-7, Sample 3, Depth: 4.0' - 5.5'



Boring B-7, Sample 4, Depth: 5.5' - 7.0'



Boring B-7, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-26



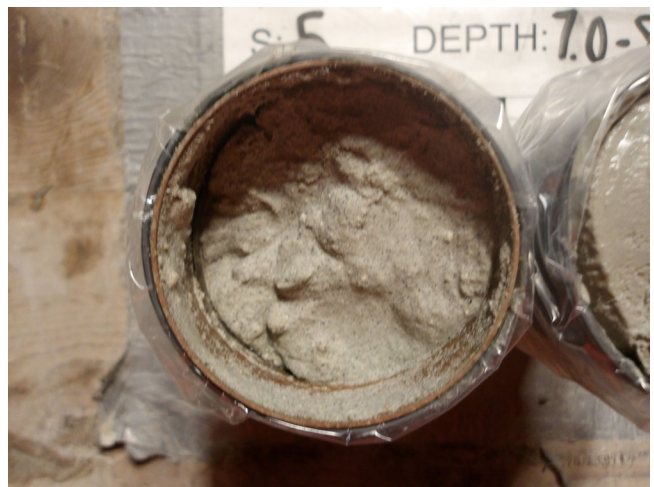
Boring B-7, Sample 4, Depth: 5.5' - 7.0'



Boring B-7, Sample 4, Depth: 5.5' - 7.0'



Boring B-7, Sample 5, Depth: 7.0' - 8.5'



Boring B-7, Sample 5, Depth: 7.0' - 8.5'



Boring B-7, Sample 5, Depth: 7.0' - 8.5'



Boring B-7, Sample 5, Depth: 7.0' - 8.5'

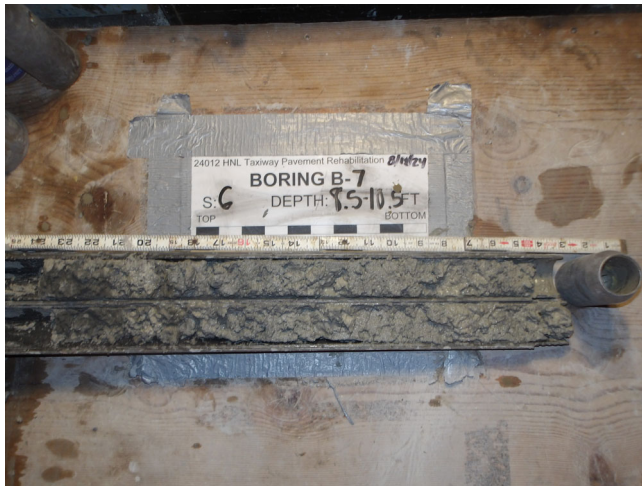
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FIGURE C-27



Boring B-7, Sample 6, Depth: 8.5 - 10.5'



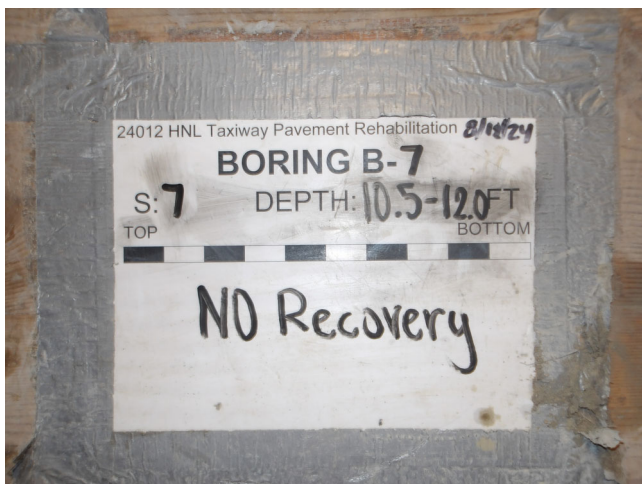
Boring B-7, Sample 6, Depth: 8.5 - 10.5'



Boring B-7, Sample 6, Depth: 8.5 - 10.5'



Boring B-7, Sample 6, Depth: 8.5 - 10.5'



Boring B-7, Sample 7, Depth: 10.5' - 12.0'



Boring B-7, Sample 8, Depth: 13.0' - 13.5'

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FIGURE C-28



Boring B-7, Sample 8, Depth: 13.0' - 13.5



Boring B-7, Sample 8, Depth: 13.0' - 13.5



Boring B-7, Sample 8, Depth: 13.0' - 13.5

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FIGURE C-29



Boring B-8, Sample 1, Depth: 1.3' - 1.8'



Boring B-8, Sample 1, Depth: 1.3' - 1.8'



Boring B-8, Sample 1, Depth: 1.3' - 1.8'



Boring B-8, Sample 2, Depth: 1.8' - 3.3'



Boring B-8, Sample 2, Depth: 1.8' - 3.3'



Boring B-8, Sample 2, Depth: 1.8' - 3.3'

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FIGURE C-30



Boring B-8, Sample 2, Depth: 1.8' - 3.3'



Boring B-8, Sample 3, Depth: 4.0' - 5.5'



Boring B-8, Sample 3, Depth: 4.0' - 5.5'



Boring B-8, Sample 3, Depth: 4.0' - 5.5'



Boring B-8, Sample 3, Depth: 4.0' - 5.5'



Boring B-8, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-31



Boring B-8, Sample 4, Depth: 5.5' - 7.0'



Boring B-8, Sample 4, Depth: 5.5' - 7.0'



Boring B-8, Sample 5, Depth: 7.0' - 8.5'



Boring B-8, Sample 5, Depth: 7.0' - 8.5'



Boring B-8, Sample 5, Depth: 7.0' - 8.5'



Boring B-8, Sample 5, Depth: 7.0' - 8.5'

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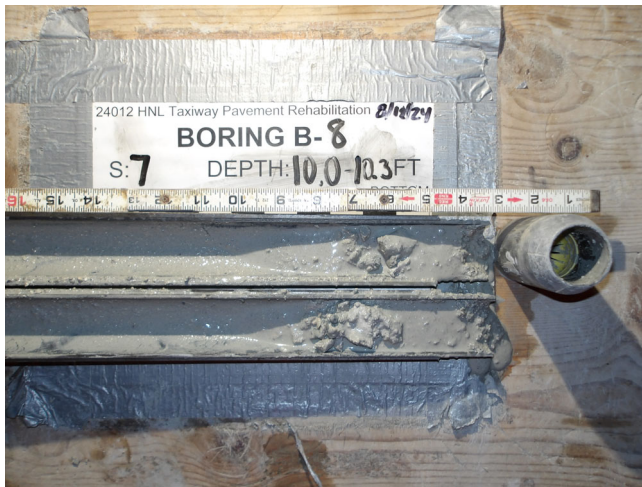
FIGURE C-32



Boring B-8, Sample 6, Depth: 8.5' - 9.3'



Boring B-8, Sample 6, Depth: 8.5' - 9.3'



Boring B-8, Sample 7, Depth: 10.0' - 10.3'

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FIGURE C-33



Boring B-9, Sample 1, Depth: 1.4' - 1.9'



Boring B-9, Sample 1, Depth: 1.4' - 1.9'



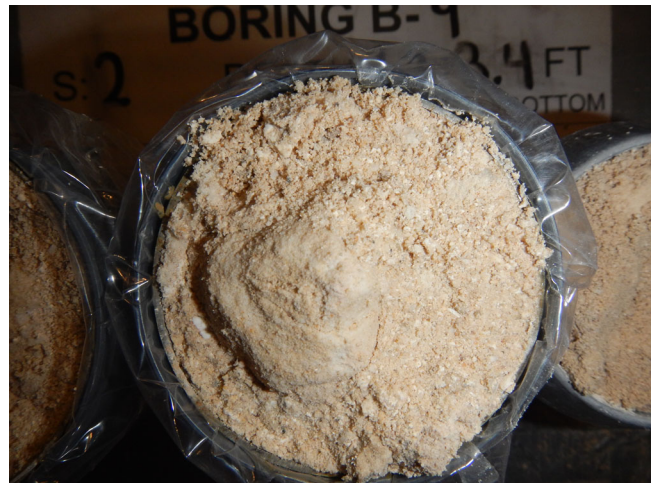
Boring B-9, Sample 1, Depth: 1.4' - 1.9'



Boring B-9, Sample 2, Depth: 1.9' - 3.4'



Boring B-9, Sample 2, Depth: 1.9' - 3.4'



Boring B-9, Sample 2, Depth: 1.9' - 3.4'

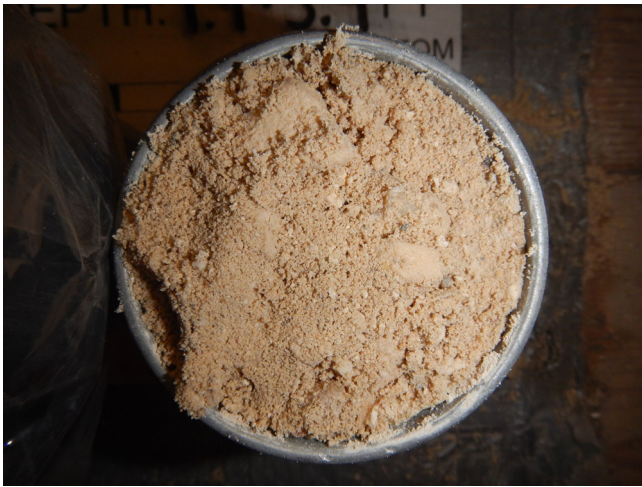
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FIGURE C-34



Boring B-9, Sample 2, Depth: 1.9' - 3.4'



Boring B-9, Sample 3, Depth: 4.0' - 5.5'



Boring B-9, Sample 3, Depth: 4.0' - 5.5'



Boring B-9, Sample 3, Depth: 4.0' - 5.5'



Boring B-9, Sample 3, Depth: 4.0' - 5.5'



Boring B-9, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-35



Boring B-9, Sample 4, Depth: 5.5' - 7.0'



Boring B-9, Sample 4, Depth: 5.5' - 7.0'



Boring B-9, Sample 4, Depth: 5.5' - 7.0'



Boring B-9, Sample 4, Depth: 5.5' - 7.0'



Boring B-9, Sample 5, Depth: 7.0' - 8.5'



Boring B-9, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-36



Boring B-9, Sample 5, Depth: 7.0' - 8.5'



Boring B-9, Sample 5, Depth: 7.0' - 8.5'



Boring B-9, Sample 6, Depth: 8.5' - 10.0'



Boring B-9, Sample 6, Depth: 8.5' - 10.0'



Boring B-9, Sample 6, Depth: 8.5' - 10.0'



Boring B-9, Sample 6, Depth: 8.5' - 10.0'

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FIGURE C-37



Boring B-10, Sample 1, Depth: 1.4' - 1.9'



Boring B-10, Sample 1, Depth: 1.4' - 1.9'



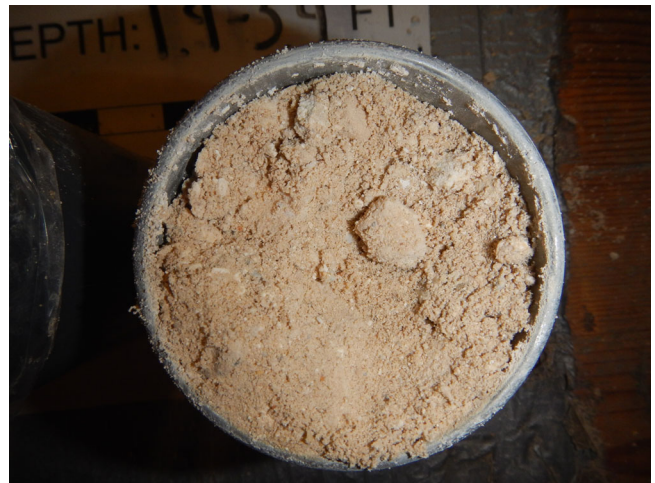
Boring B-10, Sample 2, Depth: 1.9' - 3.4'



Boring B-10, Sample 2, Depth: 1.9' - 3.4'



Boring B-10, Sample 2, Depth: 1.9' - 3.4'



Boring B-10, Sample 2, Depth: 1.9' - 3.4'

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FIGURE C-38



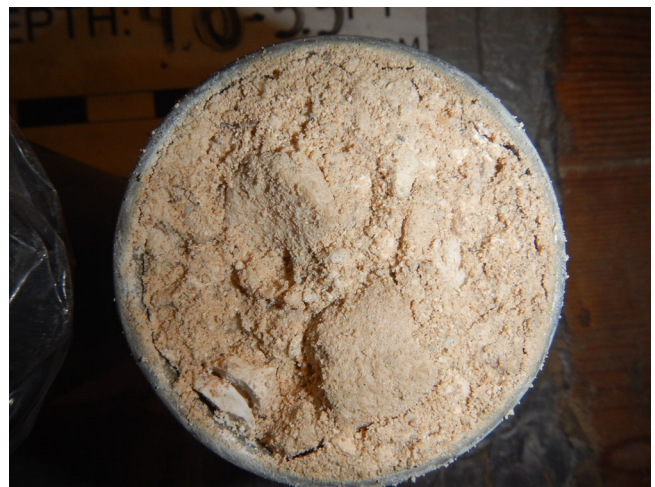
Boring B-10, Sample 3, Depth: 4.0' - 5.5'



Boring B-10, Sample 3, Depth: 4.0' - 5.5'



Boring B-10, Sample 3, Depth: 4.0' - 5.5'



Boring B-10, Sample 3, Depth: 4.0' - 5.5'



Boring B-10, Sample 4, Depth: 5.5' - 7.0'



Boring B-10, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-39



Boring B-10, Sample 4, Depth: 5.5' - 7.0'



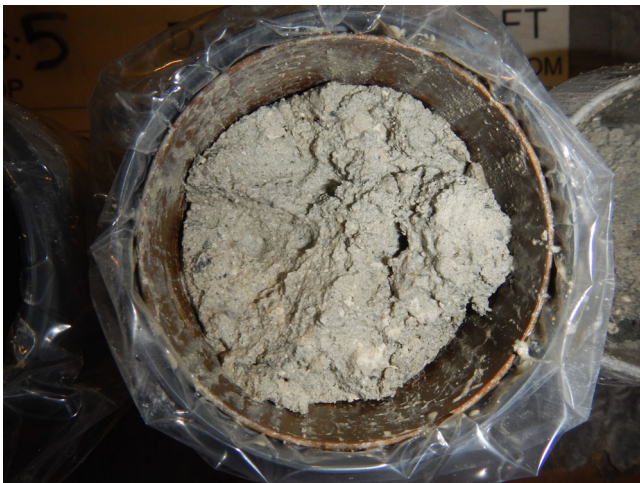
Boring B-10, Sample 4, Depth: 5.5' - 7.0'



Boring B-10, Sample 5, Depth: 7.0' - 8.5'



Boring B-10, Sample 5, Depth: 7.0' - 8.5'



Boring B-10, Sample 5, Depth: 7.0' - 8.5'



Boring B-10, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-40



Boring B-10, Sample 6, Depth: 8.5' - 10.0'



Boring B-10, Sample 6, Depth: 8.5' - 10.0'



Boring B-10, Sample 6, Depth: 8.5' - 10.0'



Boring B-10, Sample 6, Depth: 8.5' - 10.0'

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FIGURE C-41



Boring B-11, Sample 1, Depth: 1.2' - 1.7'



Boring B-11, Sample 1, Depth: 1.2' - 1.7'



Boring B-11, Sample 1, Depth: 1.2' - 1.7'



Boring B-11, Sample 2, Depth: 1.7' - 3.2'



Boring B-11, Sample 2, Depth: 1.7' - 3.2'



Boring B-11, Sample 2, Depth: 1.7' - 3.2'

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FIGURE C-42



Boring B-11, Sample 2, Depth: 1.7' - 3.2'



Boring B-11, Sample 3, Depth: 4.0' - 5.5'



Boring B-11, Sample 3, Depth: 4.0' - 5.5'



Boring B-11, Sample 3, Depth: 4.0' - 5.5'



Boring B-11, Sample 3, Depth: 4.0' - 5.5'



Boring B-11, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-43



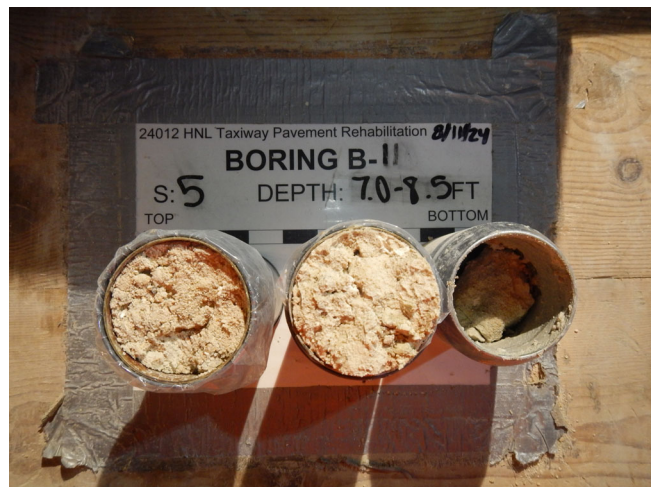
Boring B-11, Sample 4, Depth: 5.5' - 7.0'



Boring B-11, Sample 4, Depth: 5.5' - 7.0'



Boring B-11, Sample 4, Depth: 5.5' - 7.0'



Boring B-11, Sample 5, Depth: 7.0' - 8.5'



Boring B-11, Sample 5, Depth: 7.0' - 8.5'



Boring B-11, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-44



Boring B-11, Sample 5, Depth: 7.0' - 8.5'



Boring B-11, Sample 6, Depth: 8.5' - 10.0'



Boring B-11, Sample 6, Depth: 8.5' - 10.0'



Boring B-11, Sample 6, Depth: 8.5' - 10.0'



Boring B-11, Sample 6, Depth: 8.5' - 10.0'



Boring B-11, Sample 7, Depth: 10.0' - 11.5'

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FIGURE C-45



Boring B-11, Sample 7, Depth: 10.0' - 11.5'



Boring B-11, Sample 7, Depth: 10.0' - 11.5'



Boring B-11, Sample 8, Depth: 11.5' - 13.0'



Boring B-11, Sample 8, Depth: 11.5' - 13.0'



Boring B-11, Sample 8, Depth: 11.5' - 13.0'



Boring B-11, Sample 8, Depth: 11.5' - 13.0'

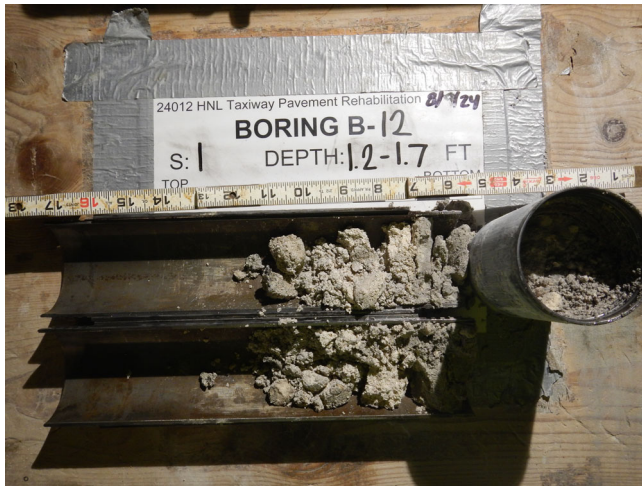
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-46



Boring B-12, Sample 1, Depth: 1.2' - 1.7'



Boring B-12, Sample 1, Depth: 1.2' - 1.7'



Boring B-12, Sample 1, Depth: 1.2' - 1.7'



Boring B-12, Sample 2, Depth: 1.7' - 3.2'



Boring B-12, Sample 2, Depth: 1.7' - 3.2'



Boring B-12, Sample 2, Depth: 1.7' - 3.2'

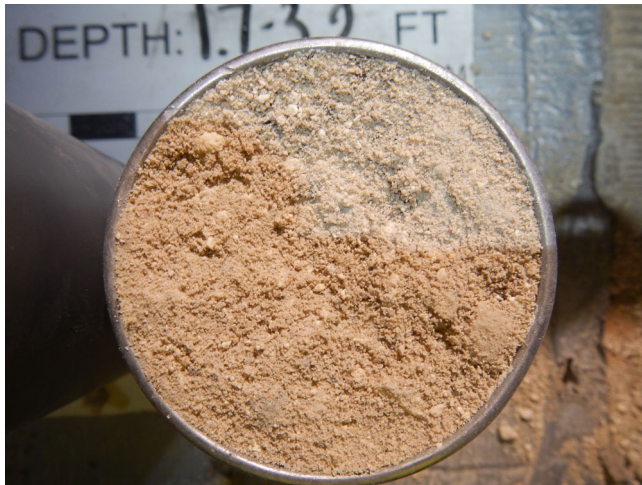
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FIGURE C-47



Boring B-12, Sample 2, Depth: 1.7' - 3.2'



Boring B-12, Sample 3, Depth: 4.0' - 5.5'



Boring B-12, Sample 3, Depth: 4.0' - 5.5'



Boring B-12, Sample 3, Depth: 4.0' - 5.5'



Boring B-12, Sample 3, Depth: 4.0' - 5.5'



Boring B-12, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-48



Boring B-12, Sample 4, Depth: 5.5' - 7.0'



Boring B-12, Sample 4, Depth: 5.5' - 7.0'



Boring B-12, Sample 4, Depth: 5.5' - 7.0'



Boring B-12, Sample 4, Depth: 5.5' - 7.0'



Boring B-12, Sample 5, Depth: 7.0' - 8.5'



Boring B-12, Sample 5, Depth: 7.0' - 8.5'

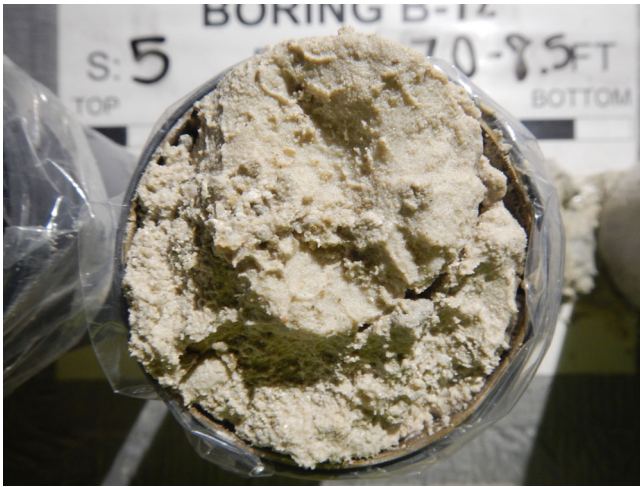
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FIGURE C-49



Boring B-12, Sample 5, Depth: 7.0' - 8.5'



Boring B-12, Sample 5, Depth: 7.0' - 8.5'



Boring B-12, Sample 6, Depth: 8.5' - 10.0'



Boring B-12, Sample 6, Depth: 8.5' - 10.0'



Boring B-12, Sample 6, Depth: 8.5' - 10.0'



Boring B-12, Sample 6, Depth: 8.5' - 10.0'

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FIGURE C-50



Boring B-13, Sample 1, Depth: 1.1' - 1.6'



Boring B-13, Sample 1, Depth: 1.1' - 1.6'



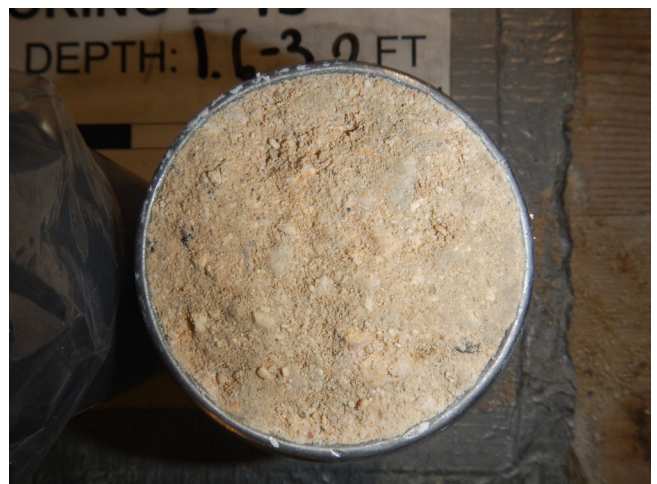
Boring B-13, Sample 2, Depth: 1.6' - 3.2'



Boring B-13, Sample 2, Depth: 1.6' - 3.2'



Boring B-13, Sample 2, Depth: 1.6' - 3.2'



Boring B-13, Sample 2, Depth: 1.6' - 3.2'

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FIGURE C-51



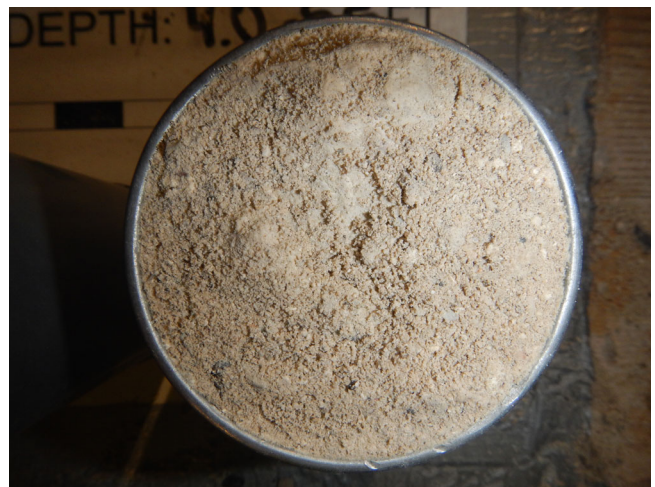
Boring B-13, Sample 3, Depth: 4.0' - 5.5'



Boring B-13, Sample 3, Depth: 4.0' - 5.5'



Boring B-13, Sample 3, Depth: 4.0' - 5.5'



Boring B-13, Sample 3, Depth: 4.0' - 5.5'



Boring B-13, Sample 4, Depth: 5.5' - 7.0'



Boring B-13, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-52



Boring B-13, Sample 4, Depth: 5.5' - 7.0'



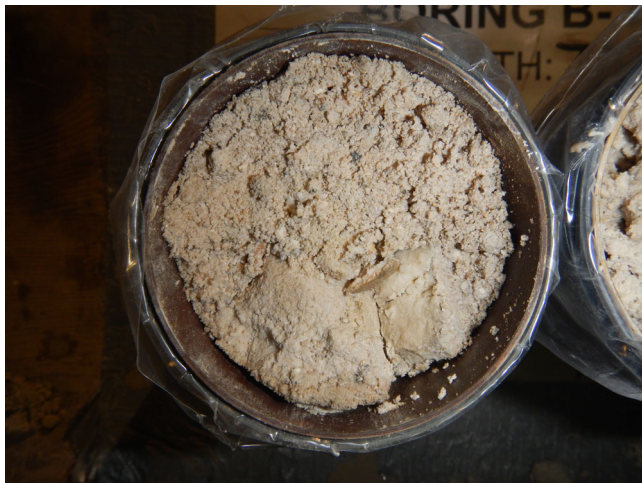
Boring B-13, Sample 4, Depth: 5.5' - 7.0'



Boring B-13, Sample 4, Depth: 5.5' - 7.0'



Boring B-13, Sample 5, Depth: 7.0' - 8.5'



Boring B-13, Sample 5, Depth: 7.0' - 8.5'



Boring B-13, Sample 5, Depth: 7.0' - 8.5'

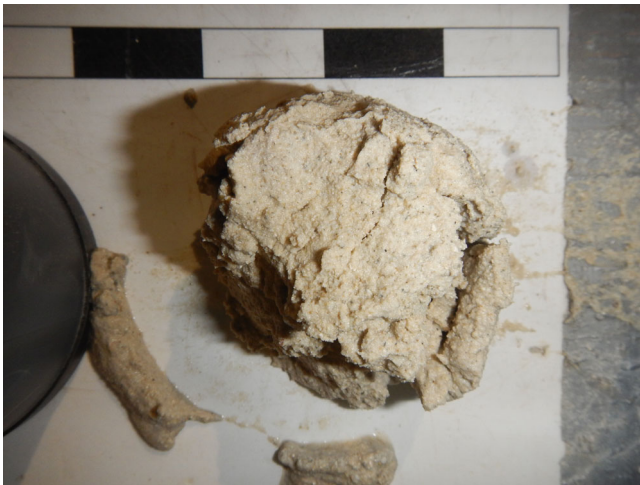
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FIGURE C-53



Boring B-13, Sample 5, Depth: 7.0' - 8.5'



Boring B-13, Sample 6, Depth: 8.5' - 10.0'



Boring B-13, Sample 6, Depth: 8.5' - 10.0'



Boring B-13, Sample 6, Depth: 8.5' - 10.0'



Boring B-13, Sample 6, Depth: 8.5' - 10.0'

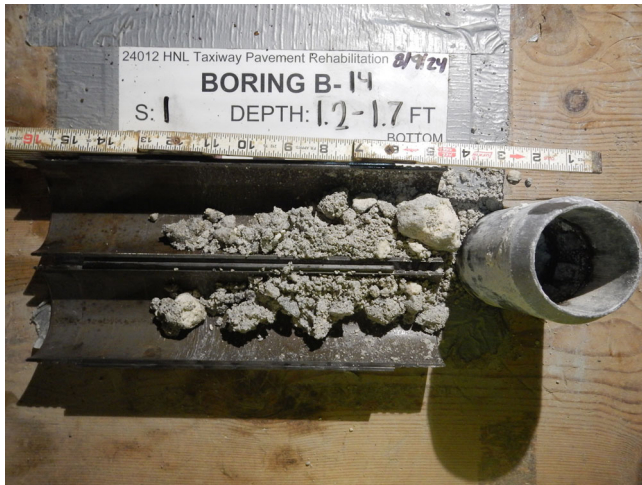
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FIGURE C-54



Boring B-14, Sample 1, Depth: 1.2' - 1.7'



Boring B-14, Sample 1, Depth: 1.2' - 1.7'



Boring B-14, Sample 1, Depth: 1.2' - 1.7'



Boring B-14, Sample 2, Depth: 1.7' - 3.2'



Boring B-14, Sample 2, Depth: 1.7' - 3.2'



Boring B-14, Sample 2, Depth: 1.7' - 3.2'

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FIGURE C-55



Boring B-14, Sample 3, Depth: 4.0' - 5.5'



Boring B-14, Sample 3, Depth: 4.0' - 5.5'



Boring B-14, Sample 3, Depth: 4.0' - 5.5'



Boring B-14, Sample 3, Depth: 4.0' - 5.5'



Boring B-14, Sample 4, Depth: 5.5' - 7.0'



Boring B-14, Sample 4, Depth: 5.5' - 7.0'

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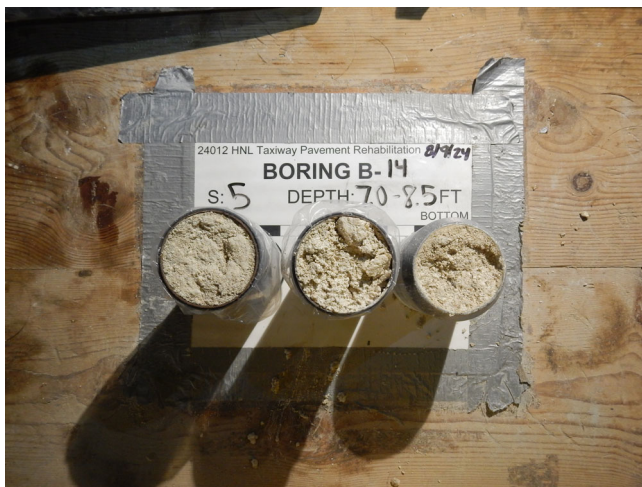
FIGURE C-56



Boring B-14, Sample 4, Depth: 5.5' - 7.0'



Boring B-14, Sample 4, Depth: 5.5' - 7.0'



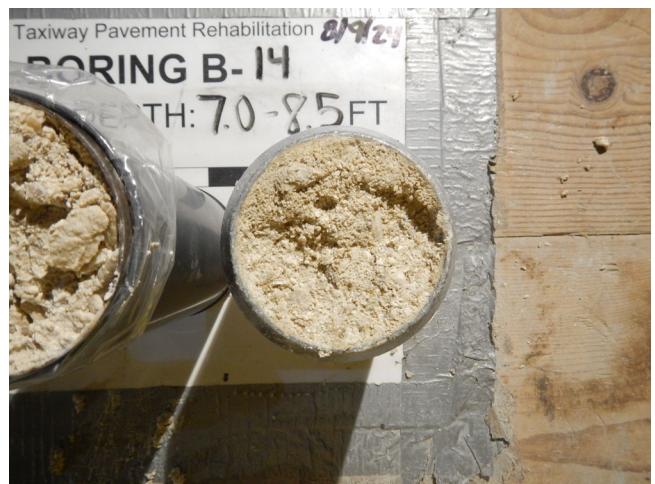
Boring B-14, Sample 5, Depth: 7.0' - 8.5'



Boring B-14, Sample 5, Depth: 7.0' - 8.5'



Boring B-14, Sample 5, Depth: 7.0' - 8.5'



Boring B-14, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-57



Boring B-14, Sample 6, Depth: 8.5' - 10.0'



Boring B-14, Sample 6, Depth: 8.5' - 10.0'



Boring B-14, Sample 6, Depth: 8.5' - 10.0'

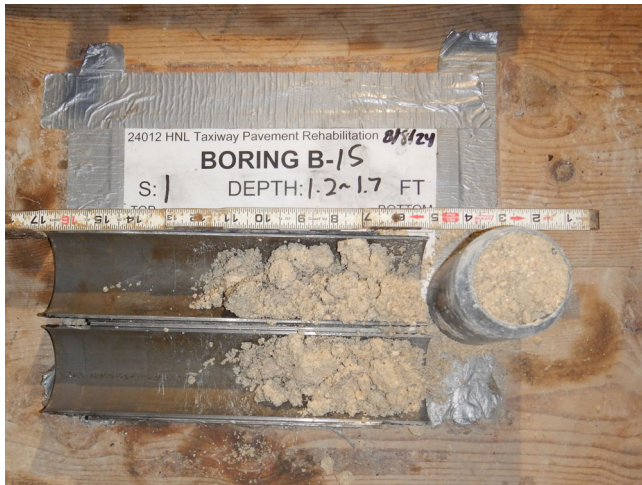
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FIGURE C-58



Boring B-15, Sample 1, Depth: 1.2' - 1.7'



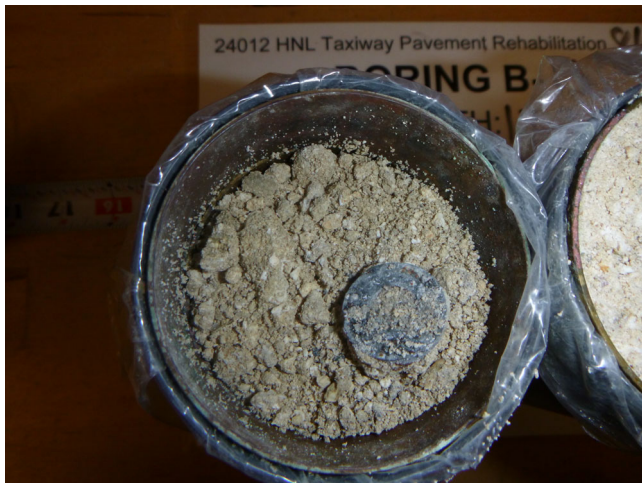
Boring B-15, Sample 1, Depth: 1.2' - 1.7'



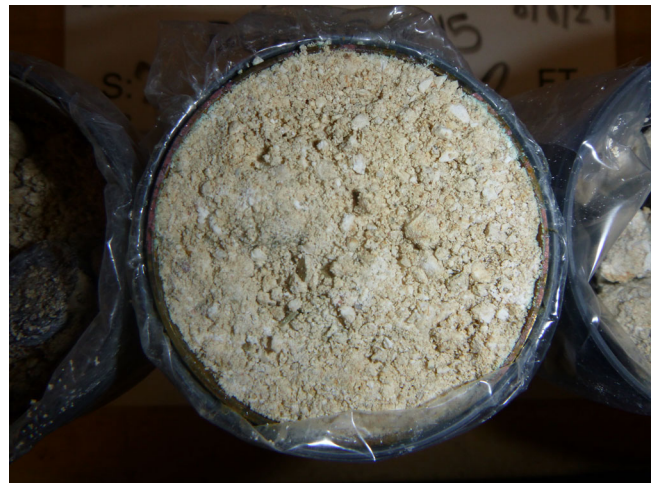
Boring B-15, Sample 1, Depth: 1.2' - 1.7'



Boring B-15, Sample 2, Depth: 1.7' - 3.2'



Boring B-15, Sample 2, Depth: 1.7' - 3.2'



Boring B-15, Sample 2, Depth: 1.7' - 3.2'

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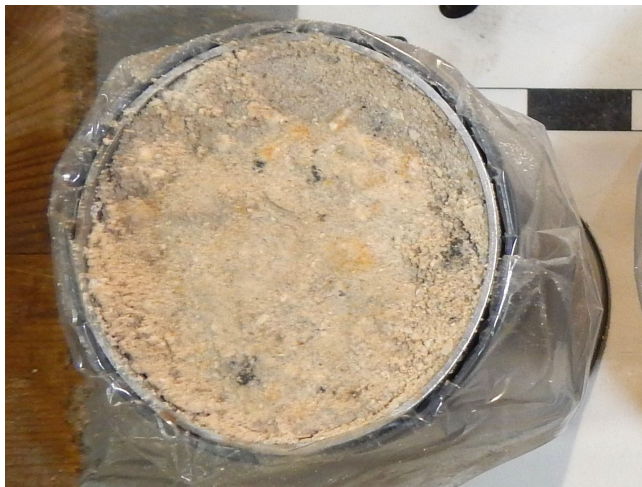
FIGURE C-59



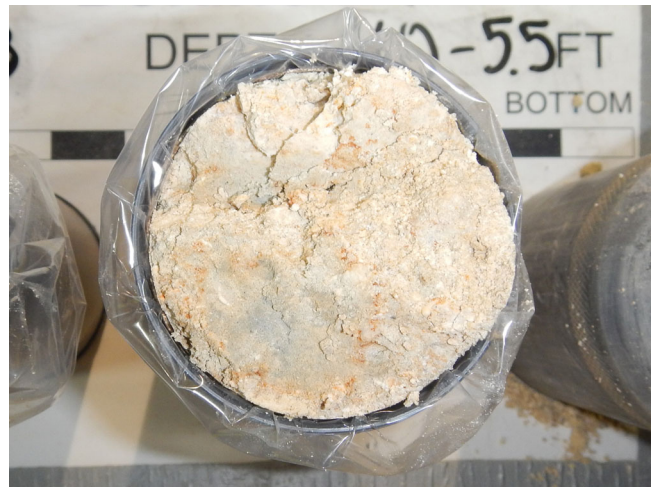
Boring B-15, Sample 2, Depth: 1.7' - 3.2'



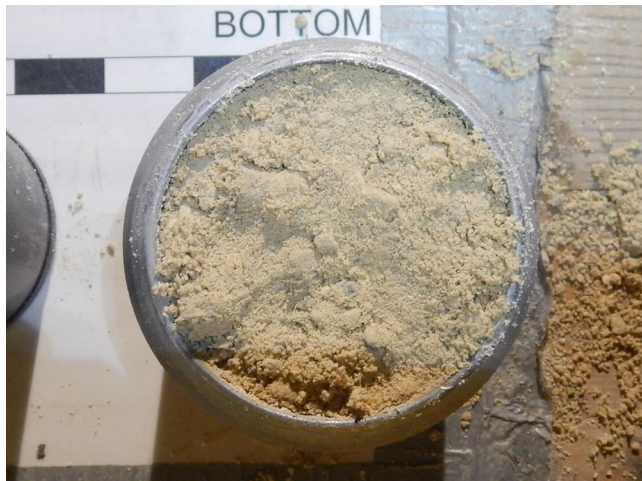
Boring B-15, Sample 3, Depth: 4.0' - 5.5'



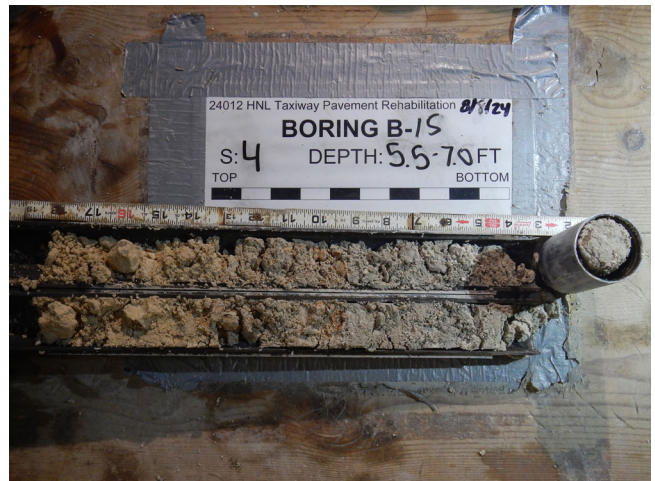
Boring B-15, Sample 3, Depth: 4.0' - 5.5'



Boring B-15, Sample 3, Depth: 4.0' - 5.5'



Boring B-15, Sample 3, Depth: 4.0' - 5.5'



Boring B-15, Sample 4, Depth: 5.5' - 7.0'

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FIGURE C-60



Boring B-15, Sample 4, Depth: 5.5' - 7.0'



Boring B-15, Sample 4, Depth: 5.5' - 7.0'



Boring B-15, Sample 4, Depth: 5.5' - 7.0'



Boring B-15, Sample 5, Depth: 7.0' - 8.5'



Boring B-15, Sample 5, Depth: 7.0' - 8.5'



Boring B-15, Sample 5, Depth: 7.0' - 8.5'

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FIGURE C-61



Boring B-15, Sample 6, Depth: 8.5' - 10.0'



Boring B-15, Sample 6, Depth: 8.5' - 10.0'



Boring B-15, Sample 6, Depth: 8.5' - 10.0'

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FIGURE C-62



Boring B-16, Sample 1, Depth: 0.4' - 1.0'



Boring B-16, Sample 1, Depth: 0.4' - 1.0'



Boring B-16, Sample 1, Depth: 0.4' - 1.0'



Boring B-16, Sample 2, Depth: 1.0' - 1.5'



Boring B-16, Sample 2, Depth: 1.0' - 1.5'



Boring B-16, Sample 2, Depth: 1.0' - 1.5'

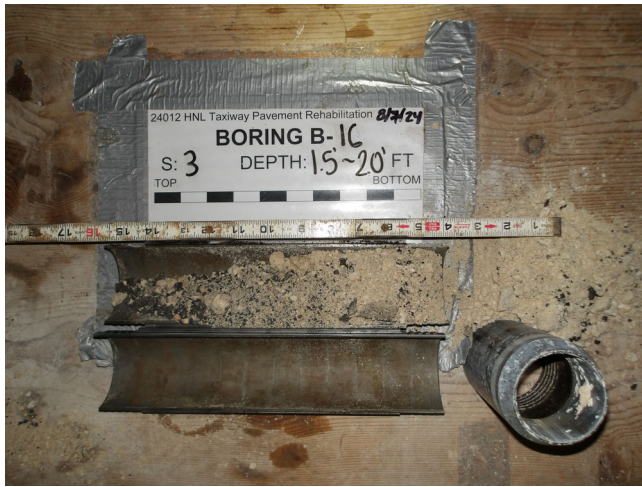
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-63



Boring B-16, Sample 3, Depth: 1.5' - 2.0'



Boring B-16, Sample 3, Depth: 1.5' - 2.0'



Boring B-16, Sample 3, Depth: 1.5' - 2.0'



Boring B-16, Sample 4, Depth: 2.0' - 3.5'



Boring B-16, Sample 4, Depth: 2.0' - 3.5'



Boring B-16, Sample 4, Depth: 2.0' - 3.5'

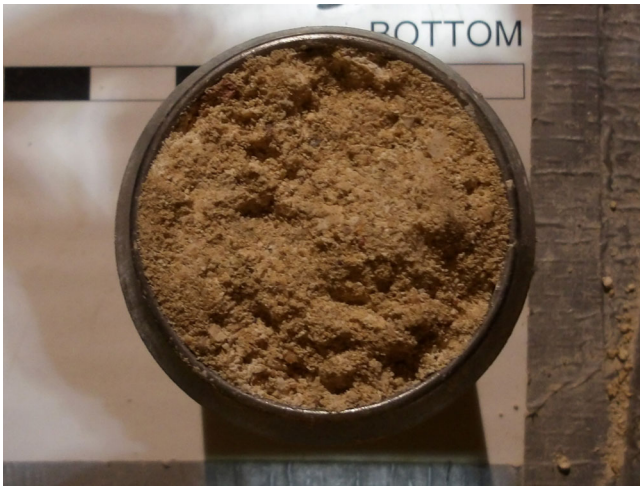
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-64



Boring B-16, Sample 4, Depth: 2.0' - 3.5'



Boring B-16, Sample 5, Depth: 3.5' - 5.0'



Boring B-16, Sample 5, Depth: 3.5' - 5.0'



Boring B-16, Sample 5, Depth: 3.5' - 5.0'



Boring B-16, Sample 5, Depth: 3.5' - 5.0'



Boring B-16, Sample 5, Depth: 3.5' - 5.0'

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FIGURE C-65



Boring B-16, Sample 6, Depth: 5.0' - 6.5'



Boring B-16, Sample 6, Depth: 5.0' - 6.5'



Boring B-16, Sample 6, Depth: 5.0' - 6.5'



Boring B-16, Sample 6, Depth: 5.0' - 6.5'



Boring B-16, Sample 7, Depth: 6.5' - 8.0'



Boring B-16, Sample 7, Depth: 6.5' - 8.0'

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FIGURE C-66



Boring B-16, Sample 7, Depth: 6.5' - 8.0'



Boring B-16, Sample 7, Depth: 6.5' - 8.0'



Boring B-16, Sample 8, Depth: 8.0' - 9.5'



Boring B-16, Sample 8, Depth: 8.0' - 9.5'



Boring B-16, Sample 8, Depth: 8.0' - 9.5'



Boring B-16, Sample 8, Depth: 8.0' - 9.5'

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FIGURE C-67



Boring B-16, Sample 9, Depth: 9.5' - 11.0'



Boring B-16, Sample 9, Depth: 9.5' - 11.0'



Boring B-16, Sample 9, Depth: 9.5' - 11.0'



Boring B-16, Sample 9, Depth: 9.5' - 11.0'

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FIGURE C-68



Boring B-17, Sample 1, Depth: 0.7' - 1.0'



Boring B-17, Sample 1, Depth: 0.7' - 1.0'



Boring B-17, Sample 1, Depth: 0.7' - 1.0'



Boring B-17, Sample 2, Depth: 1.0' - 1.5'



Boring B-17, Sample 2, Depth: 1.0' - 1.5'



Boring B-17, Sample 2, Depth: 1.0' - 1.5'

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FIGURE C-69



Boring B-17, Sample 3, Depth: 1.5' - 2.0'



Boring B-17, Sample 3, Depth: 1.5' - 2.0'



Boring B-17, Sample 3, Depth: 1.5' - 2.0'



Boring B-17, Sample 4, Depth: 2.0' - 2.5'



Boring B-17, Sample 4, Depth: 2.0' - 2.5'



Boring B-17, Sample 5, Depth: 2.7' - 3.2'

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FIGURE C-70



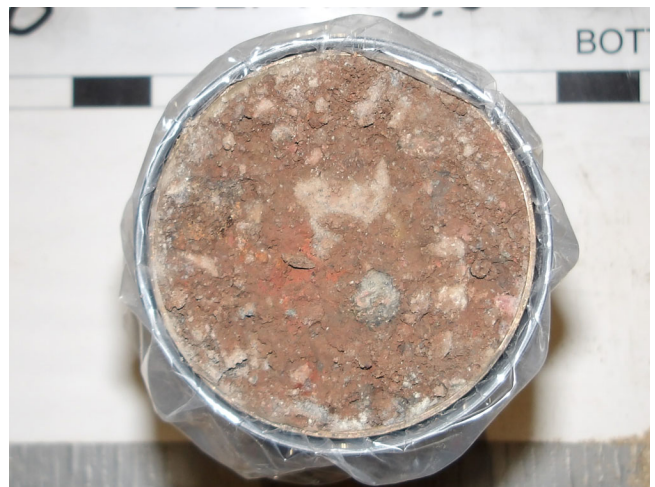
Boring B-17, Sample 5, Depth: 2.7' - 3.2'



Boring B-17, Sample 5, Depth: 2.7' - 3.2'



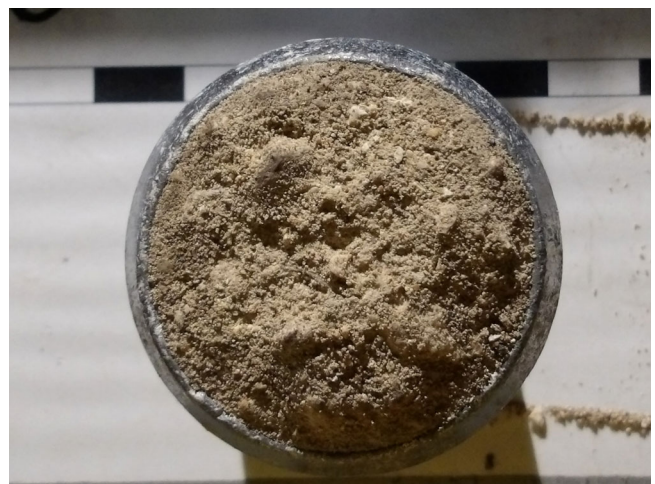
Boring B-17, Sample 6, Depth: 3.0' - 4.5'



Boring B-17, Sample 6, Depth: 3.0' - 4.5'



Boring B-17, Sample 6, Depth: 3.0' - 4.5'



Boring B-17, Sample 6, Depth: 3.0' - 4.5'

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FIGURE C-71



Boring B-17, Sample 7, Depth: 4.5' - 6.0'



Boring B-17, Sample 7, Depth: 4.5' - 6.0'



Boring B-17, Sample 7, Depth: 4.5' - 6.0'



Boring B-17, Sample 7, Depth: 4.5' - 6.0'



Boring B-17, Sample 8, Depth: 6.0' - 7.5'



Boring B-17, Sample 8, Depth: 6.0' - 7.5'

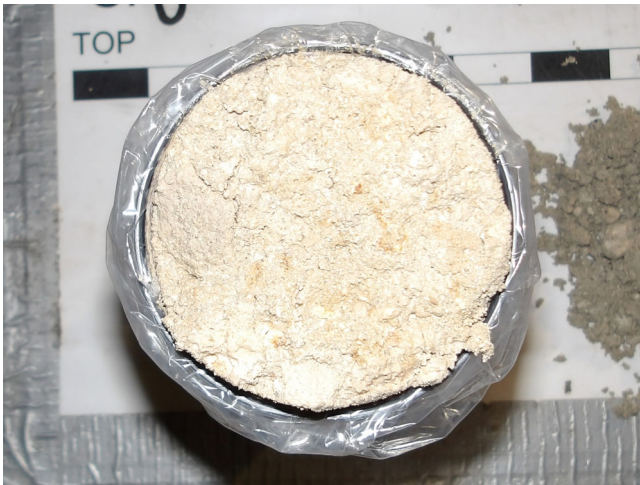
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-72



Boring B-17, Sample 8, Depth: 6.0' - 7.5'



Boring B-17, Sample 8, Depth: 6.0' - 7.5'



Boring B-17, Sample 9, Depth: 7.5' - 9.0'



Boring B-17, Sample 9, Depth: 7.5' - 9.0'



Boring B-17, Sample 9, Depth: 7.5' - 9.0'



Boring B-17, Sample 9, Depth: 7.5' - 9.0'

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FIGURE C-73



Boring B-17, Sample 10, Depth: 9.0' - 10.5'



Boring B-17, Sample 10, Depth: 9.0' - 10.5'



Boring B-17, Sample 10, Depth: 9.0' - 10.5'



Boring B-17, Sample 10, Depth: 9.0' - 10.5'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-74



Boring B-18, Sample 1, Depth: 1.3' - 1.9'



Boring B-18, Sample 1, Depth: 1.3' - 1.9'



Boring B-18, Sample 1, Depth: 1.3' - 1.9'



Boring B-18, Sample 2, Depth: 2.3' - 3.8'



Boring B-18, Sample 2, Depth: 2.3' - 3.8'



Boring B-18, Sample 2, Depth: 2.3' - 3.8'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-75



Boring B-18, Sample 2, Depth: 2.3' - 3.8'



Boring B-18, Sample 3, Depth: 5.0' - 7.0'



Boring B-18, Sample 3, Depth: 5.0' - 7.0'



Boring B-18, Sample 3, Depth: 5.0' - 7.0'



Boring B-18, Sample 3, Depth: 5.0' - 7.0'



Boring B-18, Sample 4, Depth: 7.0' - 8.5'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-76



Boring B-18, Sample 4, Depth: 7.0' - 8.5'



Boring B-18, Sample 4, Depth: 7.0' - 8.5'



Boring B-18, Sample 5, Depth: 8.5' - 10.5'



Boring B-18, Sample 5, Depth: 8.5' - 10.5'



Boring B-18, Sample 5, Depth: 8.5' - 10.5'



Boring B-18, Sample 5, Depth: 8.5' - 10.5'

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FIGURE C-77



Boring B-19, Sample 1, Depth: 1.3' - 1.9'



Boring B-19, Sample 1, Depth: 1.3' - 1.9'



Boring B-19, Sample 1, Depth: 1.3' - 1.9'



Boring B-19, Sample 2, Depth: 2.3' - 3.8'



Boring B-19, Sample 2, Depth: 2.3' - 3.8'



Boring B-19, Sample 2, Depth: 2.3' - 3.8'

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FIGURE C-78



Boring B-19, Sample 2, Depth: 2.3' - 3.8'



Boring B-19, Sample 2, Depth: 2.3' - 3.8'



Boring B-19, Sample 3, Depth: 5.0' - 7.0'



Boring B-19, Sample 3, Depth: 5.0' - 7.0'



Boring B-19, Sample 3, Depth: 5.0' - 7.0'



Boring B-19, Sample 4, Depth: 7.0' - 8.5'

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FIGURE C-79



Boring B-19, Sample 4, Depth: 7.0' - 8.5'



Boring B-19, Sample 4, Depth: 7.0' - 8.5'



Boring B-19, Sample 4, Depth: 7.0' - 8.5'



Boring B-19, Sample 5, Depth: 8.5' - 10.5'



Boring B-19, Sample 5, Depth: 8.5' - 10.5'



Boring B-19, Sample 5, Depth: 8.5' - 10.5'

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FIGURE C-80



Boring B-19, Sample 5, Depth: 8.5' - 10.5'



Boring B-19, Sample 5, Depth: 8.5' - 10.5'

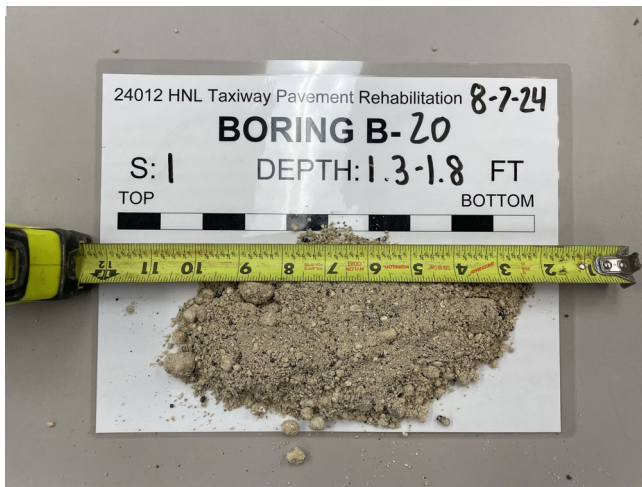
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-81



Boring B-20, Sample 1, Depth: 1.3' - 1.8'



Boring B-20, Sample 1, Depth: 1.3' - 1.8'



Boring B-20, Sample 1, Depth: 1.3' - 1.8'



Boring B-20, Sample 1, Depth: 1.3' - 1.8'



Boring B-20, Sample 2, Depth: 1.8' - 3.3'



Boring B-20, Sample 2, Depth: 1.8' - 3.3'

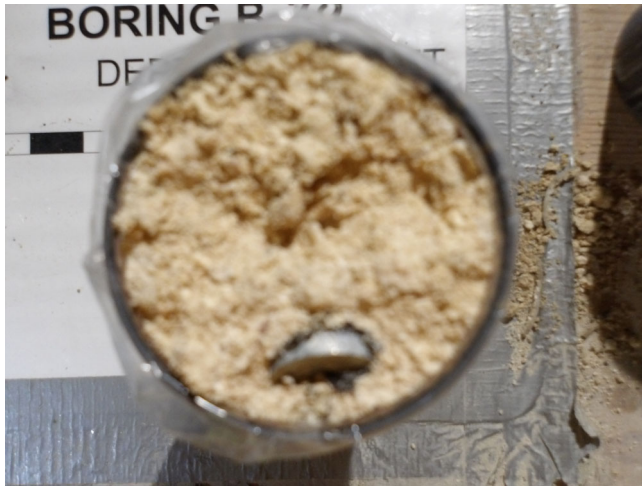
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-82



Boring B-20, Sample 2, Depth: 1.8' - 3.3'



Boring B-20, Sample 2, Depth: 1.8' - 3.3'



Boring B-20, Sample 3, Depth: 5.0' - 7.0'



Boring B-20, Sample 3, Depth: 5.0' - 7.0'



Boring B-20, Sample 3, Depth: 5.0' - 7.0'



Boring B-20, Sample 3, Depth: 5.0' - 7.0'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-83



Boring B-20, Sample 3, Depth: 5.0' - 7.0'



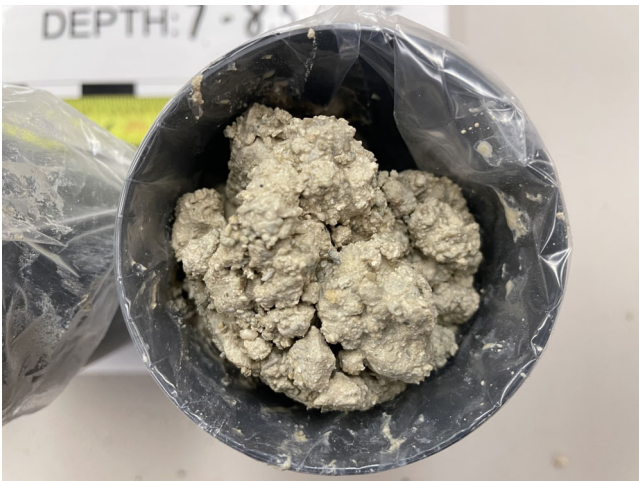
Boring B-20, Sample 4, Depth: 7.0' - 8.5'



Boring B-20, Sample 4, Depth: 7.0' - 8.5'



Boring B-20, Sample 4, Depth: 7.0' - 8.5'



Boring B-20, Sample 4, Depth: 7.0' - 8.5'



Boring B-20, Sample 5, Depth: 8.5' - 10.5'

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FIGURE C-84



Boring B-20, Sample 5, Depth: 8.5' - 10.5'



Boring B-20, Sample 5, Depth: 8.5' - 10.5'



Boring B-20, Sample 5, Depth: 8.5' - 10.5'

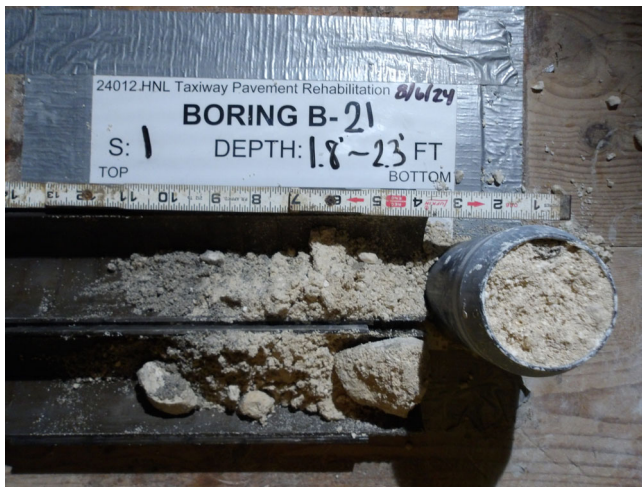
SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-85



Boring B-21, Sample 1, Depth: 1.8' - 2.3'



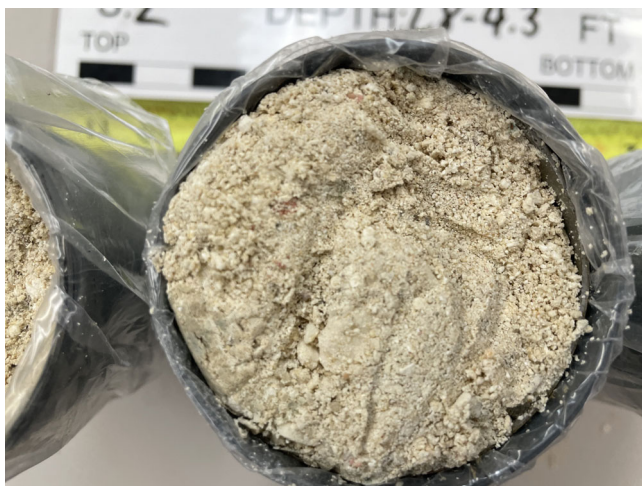
Boring B-21, Sample 1, Depth: 1.8' - 2.3'



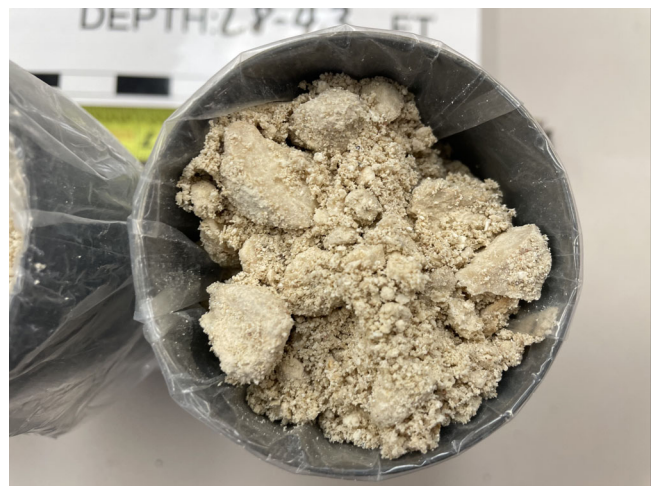
Boring B-21, Sample 2, Depth: 2.8' - 4.3'



Boring B-21, Sample 2, Depth: 2.8' - 4.3'



Boring B-21, Sample 2, Depth: 2.8' - 4.3'



Boring B-21, Sample 2, Depth: 2.8' - 4.3'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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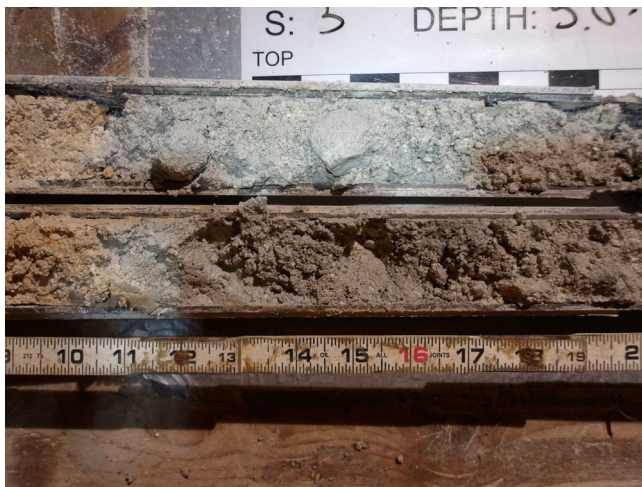
FIGURE C-86



Boring B-21, Sample 3, Depth: 5.0' - 7.0'



Boring B-21, Sample 3, Depth: 5.0' - 7.0'



Boring B-21, Sample 3, Depth: 5.0' - 7.0'



Boring B-21, Sample 3, Depth: 5.0' - 7.0'



Boring B-21, Sample 4, Depth: 7.0' - 8.5'



Boring B-21, Sample 5, Depth: 8.5' - 10.5'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-87



Boring B-21, Sample 5, Depth: 8.5' - 10.5'



Boring B-21, Sample 5, Depth: 8.5' - 10.5'



Boring B-21, Sample 5, Depth: 8.5' - 10.5'

SELECTED PHOTOGRAPHS OF SOIL SAMPLES TAKEN DURING FIELD EXPLORATION

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FIGURE C-88

APPENDIX D

Selected Photographs of Site Conditions Taken During Field Exploration



General Site Conditions around Boring B-1



General Site Conditions around Boring B-1



General Site Conditions around Boring B-1



General Site Conditions around Boring B-1



General Site Conditions around Boring B-2



General Site Conditions around Boring B-2

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-1



General Site Conditions around Boring B-2



General Site Conditions around Boring B-2



General Site Conditions around Boring B-4



General Site Conditions around Boring B-4



General Site Conditions around Boring B-4



General Site Conditions around Boring B-4

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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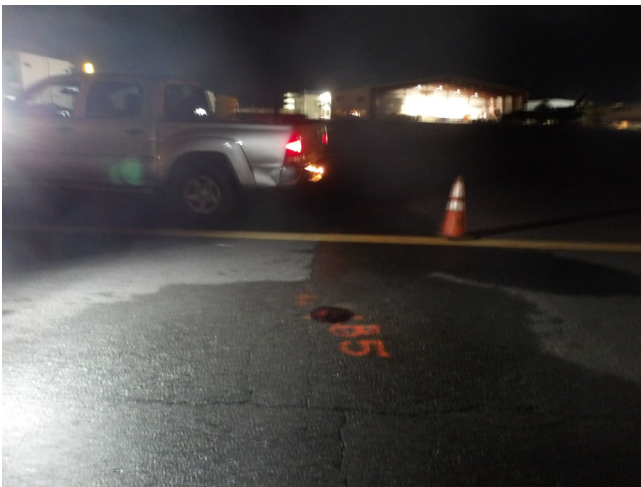
FIGURE D-2



General Site Conditions around Boring B-5



General Site Conditions around Boring B-5



General Site Conditions around Boring B-5



General Site Conditions around Boring B-5



General Site Conditions around Boring B-6



General Site Conditions around Boring B-6

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-3



General Site Conditions around Boring B-6



General Site Conditions around Boring B-6



General Site Conditions around Boring B-7



General Site Conditions around Boring B-7



General Site Conditions around Boring B-7



General Site Conditions around Boring B-7

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-4



General Site Conditions around Boring B-8



General Site Conditions around Boring B-8



General Site Conditions around Boring B-8



General Site Conditions around Boring B-8



General Site Conditions around Boring B-9



General Site Conditions around Boring B-9

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-5



General Site Conditions around Boring B-9



General Site Conditions around Boring B-9



General Site Conditions around Boring B-10



General Site Conditions around Boring B-10



General Site Conditions around Boring B-10



General Site Conditions around Boring B-10

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-6



General Site Conditions around Boring B-11



General Site Conditions around Boring B-11



General Site Conditions around Boring B-11



General Site Conditions around Boring B-11



General Site Conditions around Boring B-12



General Site Conditions around Boring B-12

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

Taxiway C Reconstruction at Daniel K. Inouye International Airport
Honolulu, Oahu, Hawaii

Project No. 24012



FIGURE D-7



General Site Conditions around Boring B-12



General Site Conditions around Boring B-12



General Site Conditions around Boring B-13



General Site Conditions around Boring B-13



General Site Conditions around Boring B-13



General Site Conditions around Boring B-13

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Project No. 24012



FIGURE D-8



General Site Conditions around Boring B-14



General Site Conditions around Boring B-14



General Site Conditions around Boring B-14



General Site Conditions around Boring B-14



General Site Conditions around Boring B-15



General Site Conditions around Boring B-15

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Project No. 24012



FIGURE D-9



General Site Conditions around Boring B-15



General Site Conditions around Boring B-15



General Site Conditions around Boring B-16



General Site Conditions around Boring B-16



General Site Conditions around Boring B-16



General Site Conditions around Boring B-16

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FIGURE D-10



General Site Conditions around Boring B-17



General Site Conditions around Boring B-17



General Site Conditions around Boring B-17



General Site Conditions around Boring B-17



General Site Conditions around Boring B-18



General Site Conditions around Boring B-18

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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Project No. 24012



FIGURE D-11



General Site Conditions around Boring B-18



General Site Conditions around Boring B-18



General Site Conditions around Boring B-19



General Site Conditions around Boring B-19



General Site Conditions around Boring B-19



General Site Conditions around Boring B-19

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-12



General Site Conditions around Boring B-20



General Site Conditions around Boring B-20



General Site Conditions around Boring B-20



General Site Conditions around Boring B-20



General Site Conditions around Boring B-21



General Site Conditions around Boring B-21

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-13



General Site Conditions around Boring B-21



General Site Conditions around Boring B-21

SELECTED PHOTOGRAPHS OF SITE CONDITIONS TAKEN DURING FIELD EXPLORATION

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FIGURE D-14