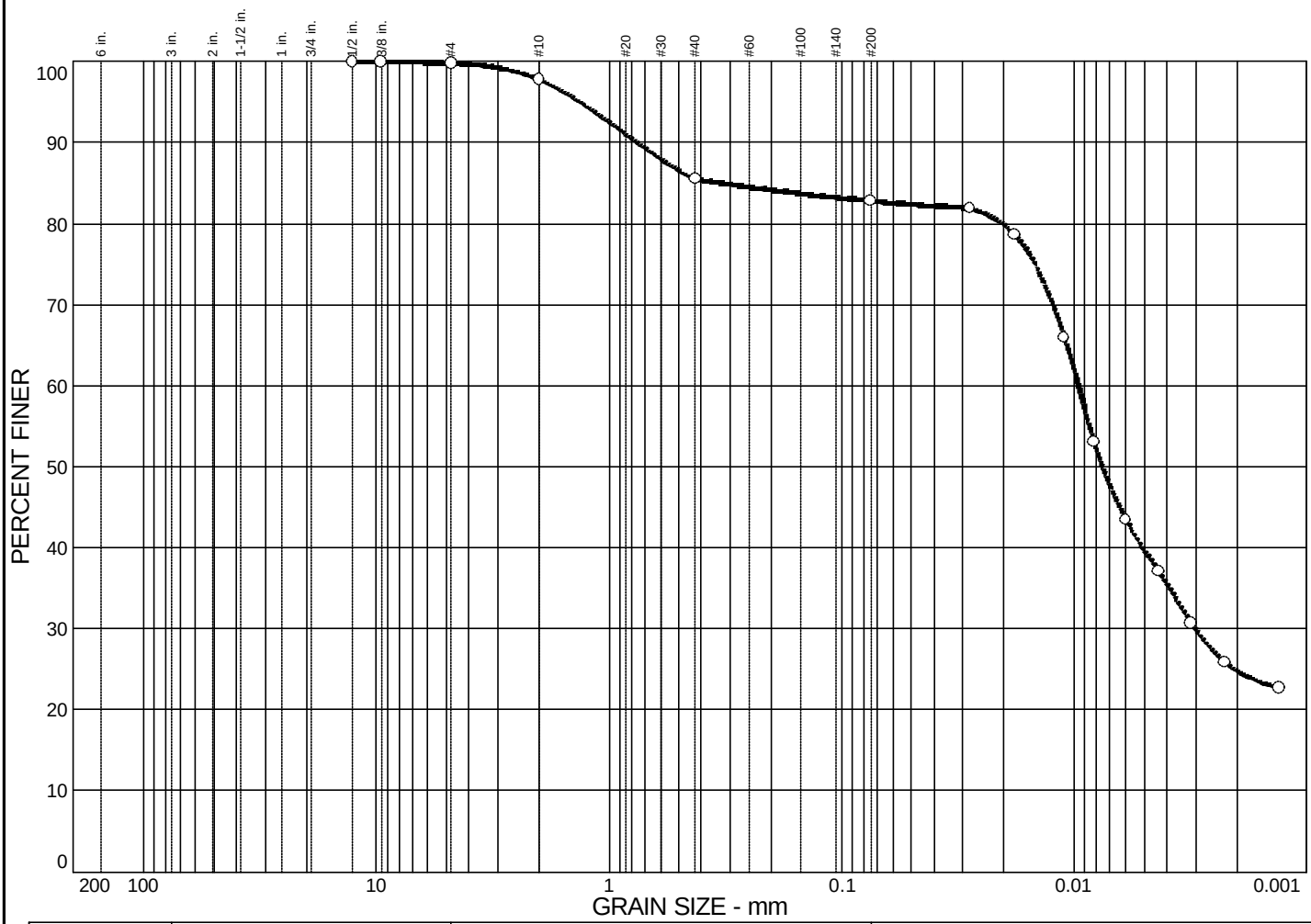
Particle Size Distribution Report



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.2	2.0	12.3	2.7	43.1	39.7

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	35	20	0.327	0.0096	0.0075	0.0030				

MATERIAL DESCRIPTION	USCS	AASHTO
○ BROWN SILTY CLAY	CL	A-6(12)

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

○ **Source:** BORING 19 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

○

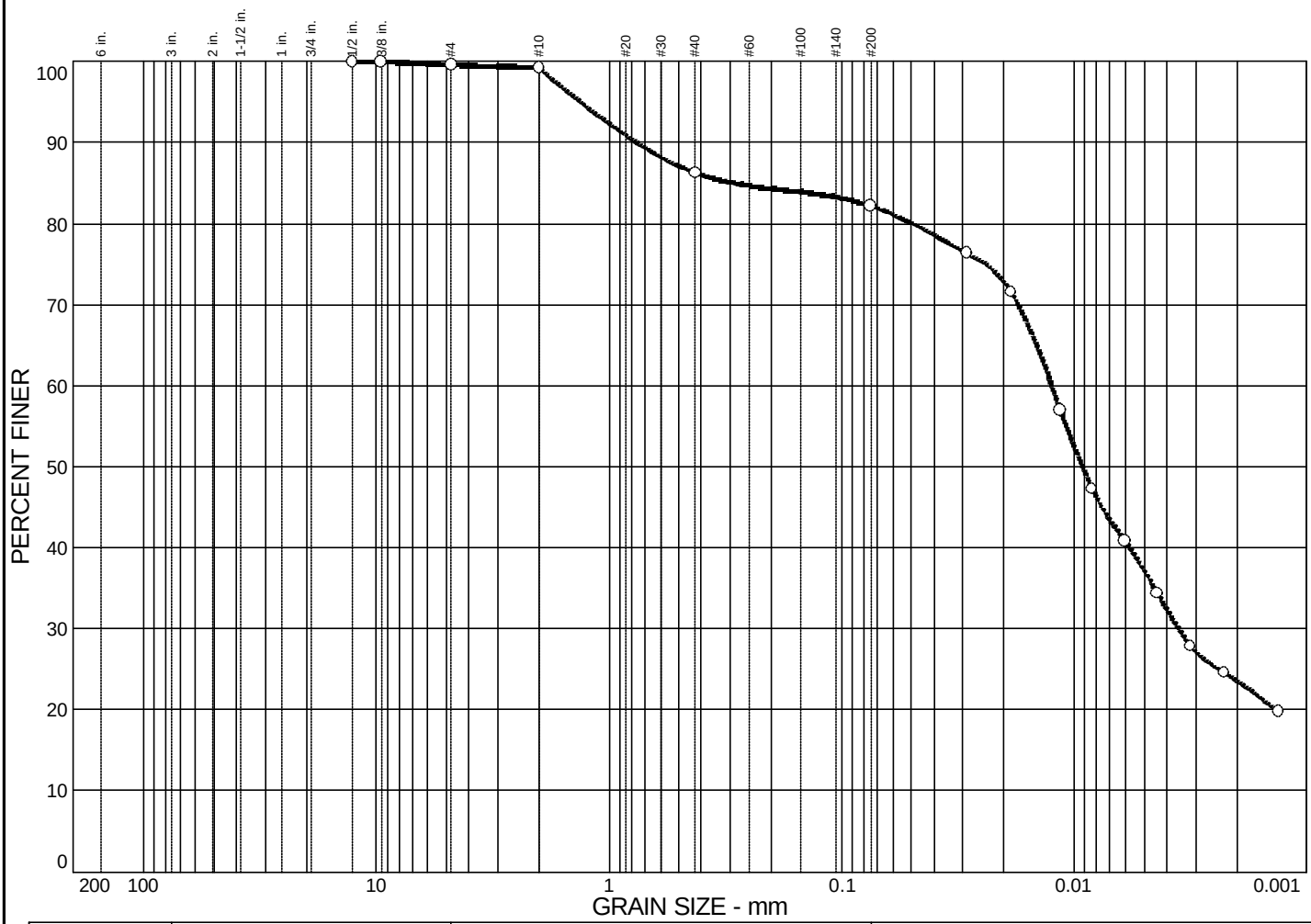
Particle Size Distribution Report

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-1

Particle Size Distribution Report



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.4	0.4	12.9	4.1	45.1	37.1

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	35	19	0.290	0.0125	0.0092	0.0036				

MATERIAL DESCRIPTION	USCS	AASHTO
○ GRAY AND BRWON CLAYEY SILT	CL	A-6(12)

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

○ **Source:** BORING 19 **Sample No.:** S-2 **Elev./Depth:** 5.0'-10.0'

Remarks:

○

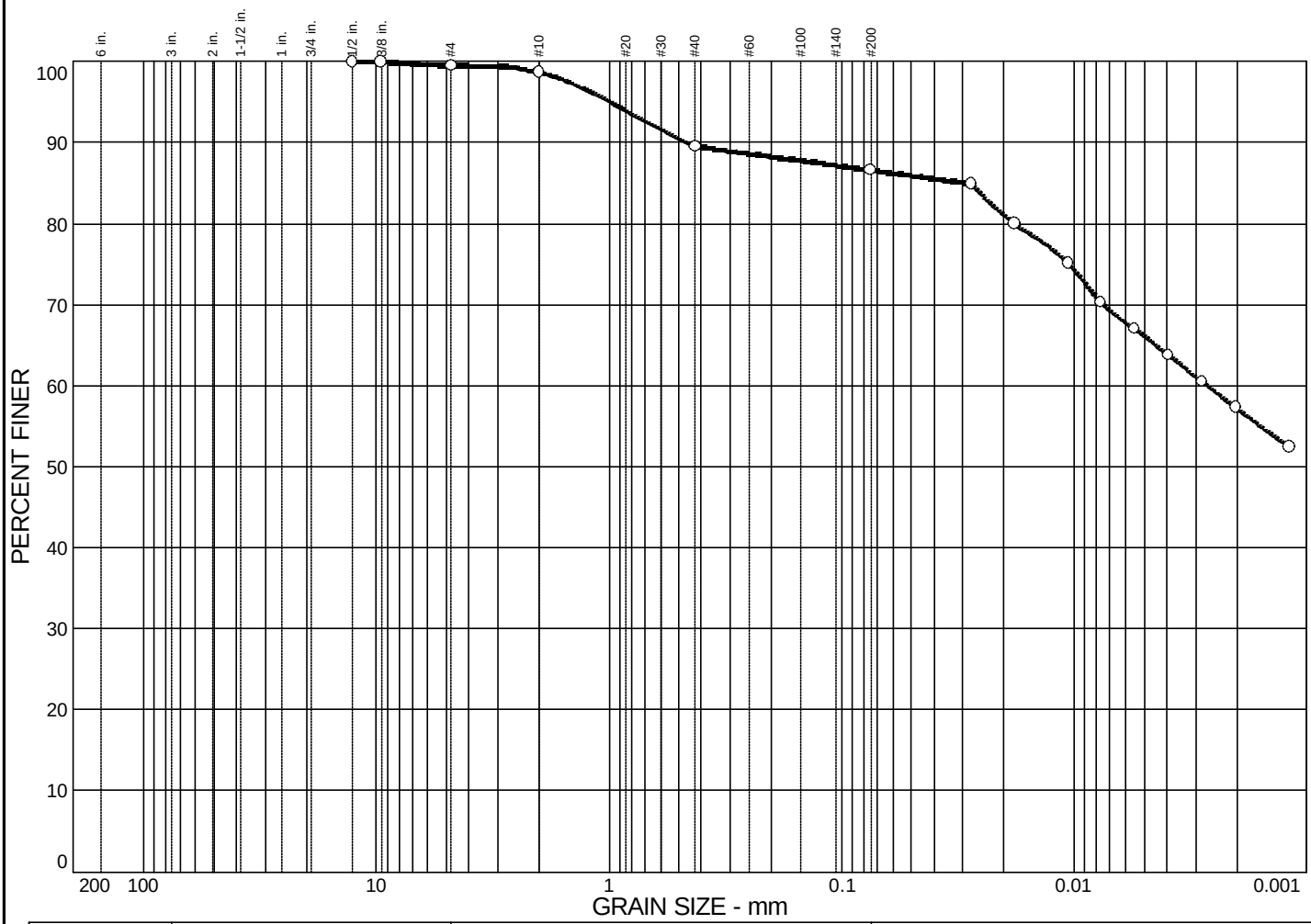
Particle Size Distribution Report

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-2

Particle Size Distribution Report



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	0.5	0.8	9.2	2.9	20.5	66.1

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	69	26	0.0295	0.0027						

MATERIAL DESCRIPTION	USCS	AASHTO
○ REDDISH-BROWN SILTY CLAY	CH	A-7-6(42)

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

○ **Source:** BORING 2 **Sample No.:** S-1 **Elev./Depth:** 1.0'-5.0'

Remarks:

○

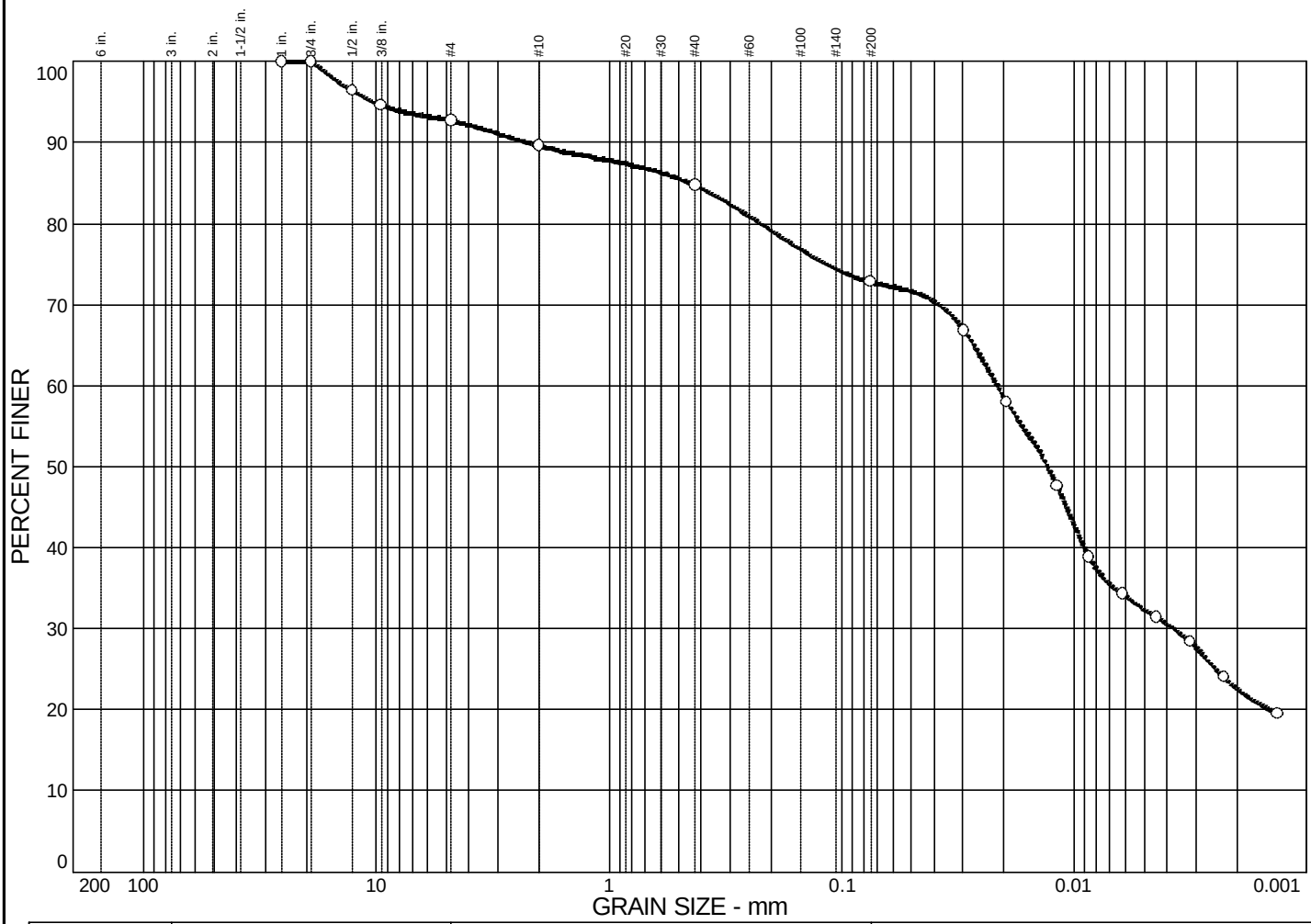
Particle Size Distribution Report

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-2,S-1

Particle Size Distribution Report



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	7.3	3.1	4.9	11.9	40.4	32.4

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	35	17	0.449	0.0215	0.0130	0.0037				

MATERIAL DESCRIPTION	USCS	AASHTO
○ REDDISH-BROWN SILTY CLAY	CL	A-6(11)

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

○ **Source:** BORING 25 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

○

Particle Size Distribution Report

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

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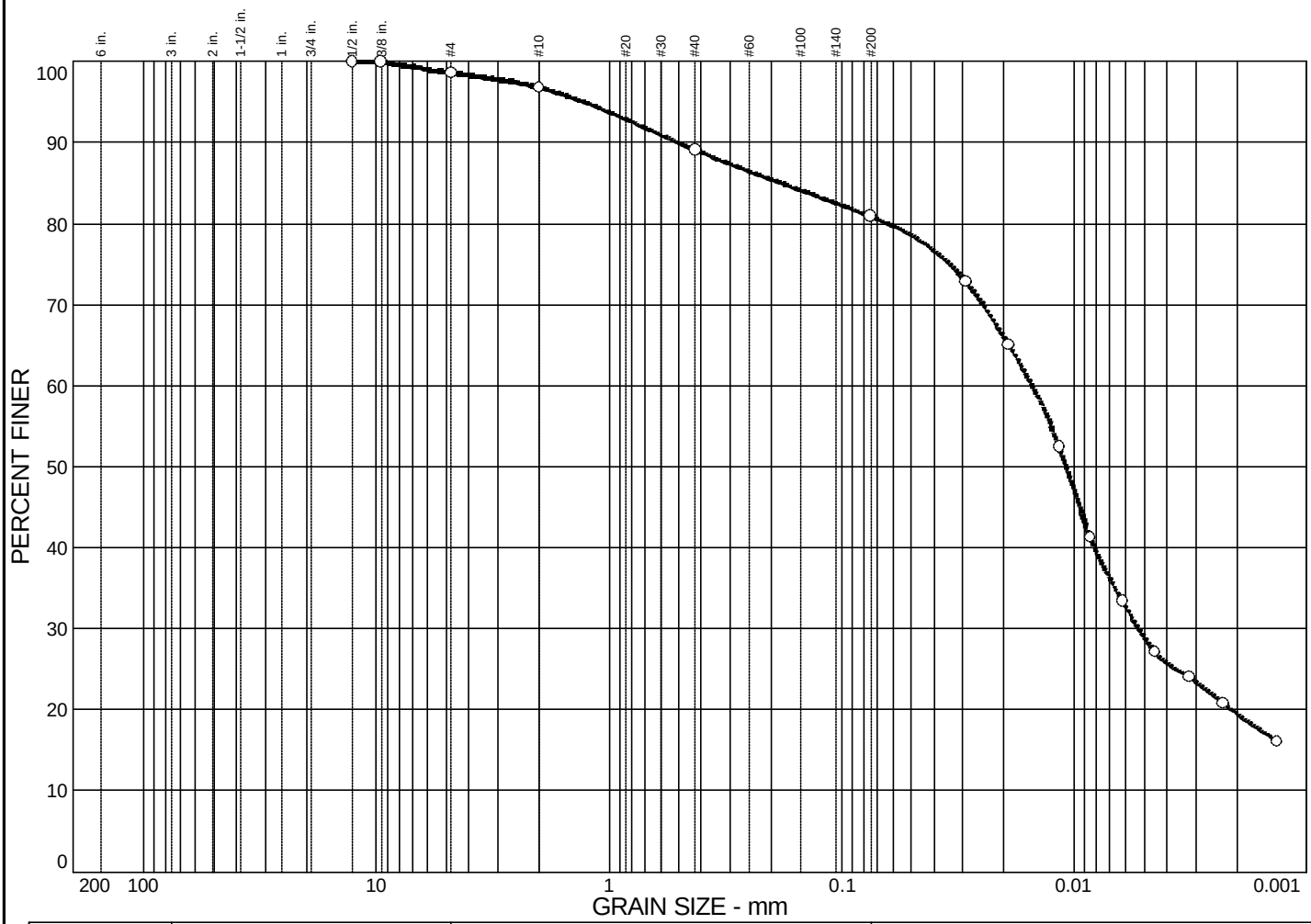
FIGURE: B-25,S-1

Particle Size Distribution Report



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	1.4	1.8	7.7	8.2	52.0	28.9

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	29	20	0.181	0.0151	0.0108	0.0053				

MATERIAL DESCRIPTION	USCS	AASHTO
○ BROWN CLAY	CL	A-4(6)

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

○ **Source:** BORING 6 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

○

Particle Size Distribution Report

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

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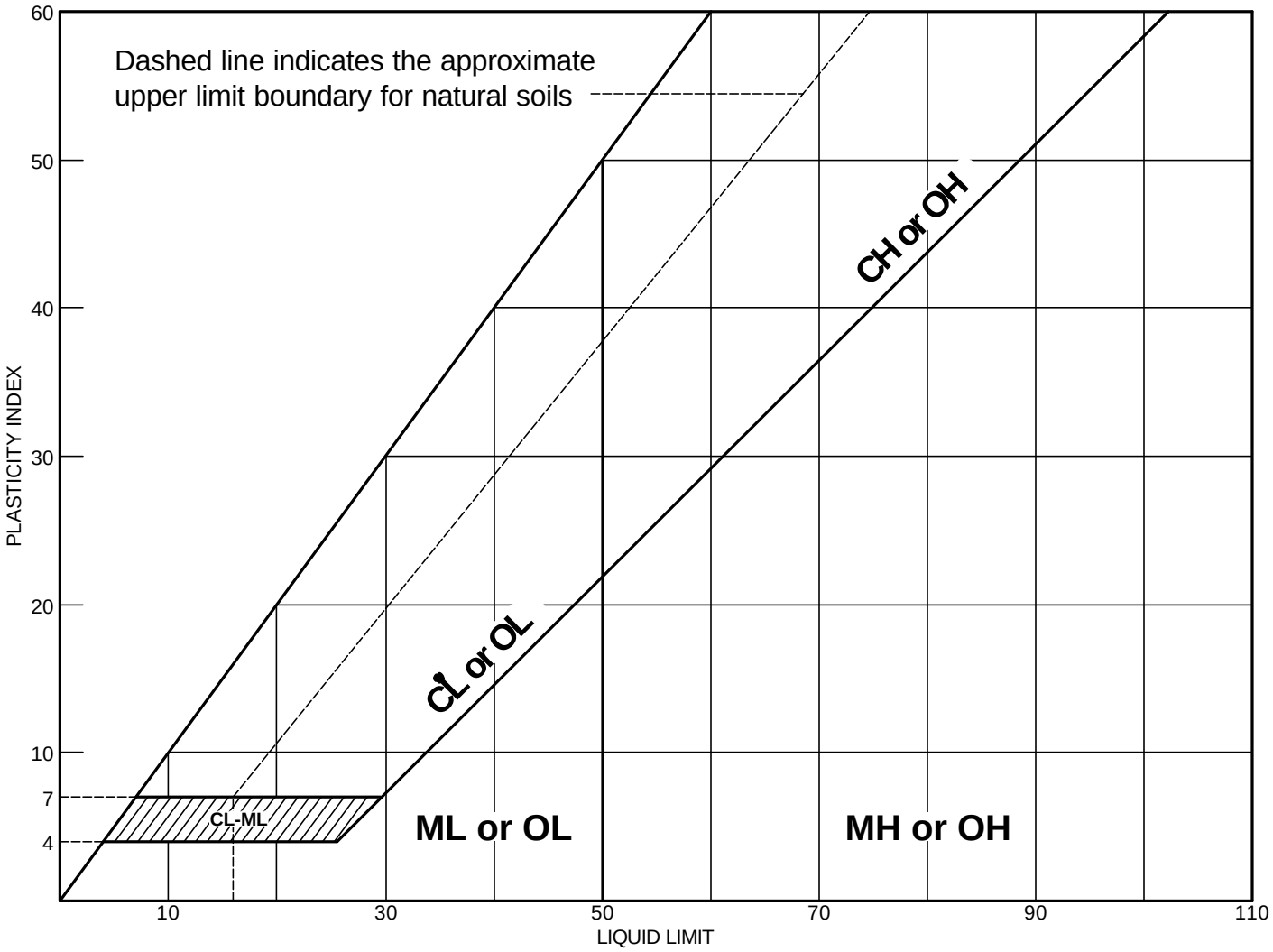
FIGURE: B-6,S-1

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	BROWN SILTY CLAY	35	20	15	85.5	82.8	CL

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 19 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

●

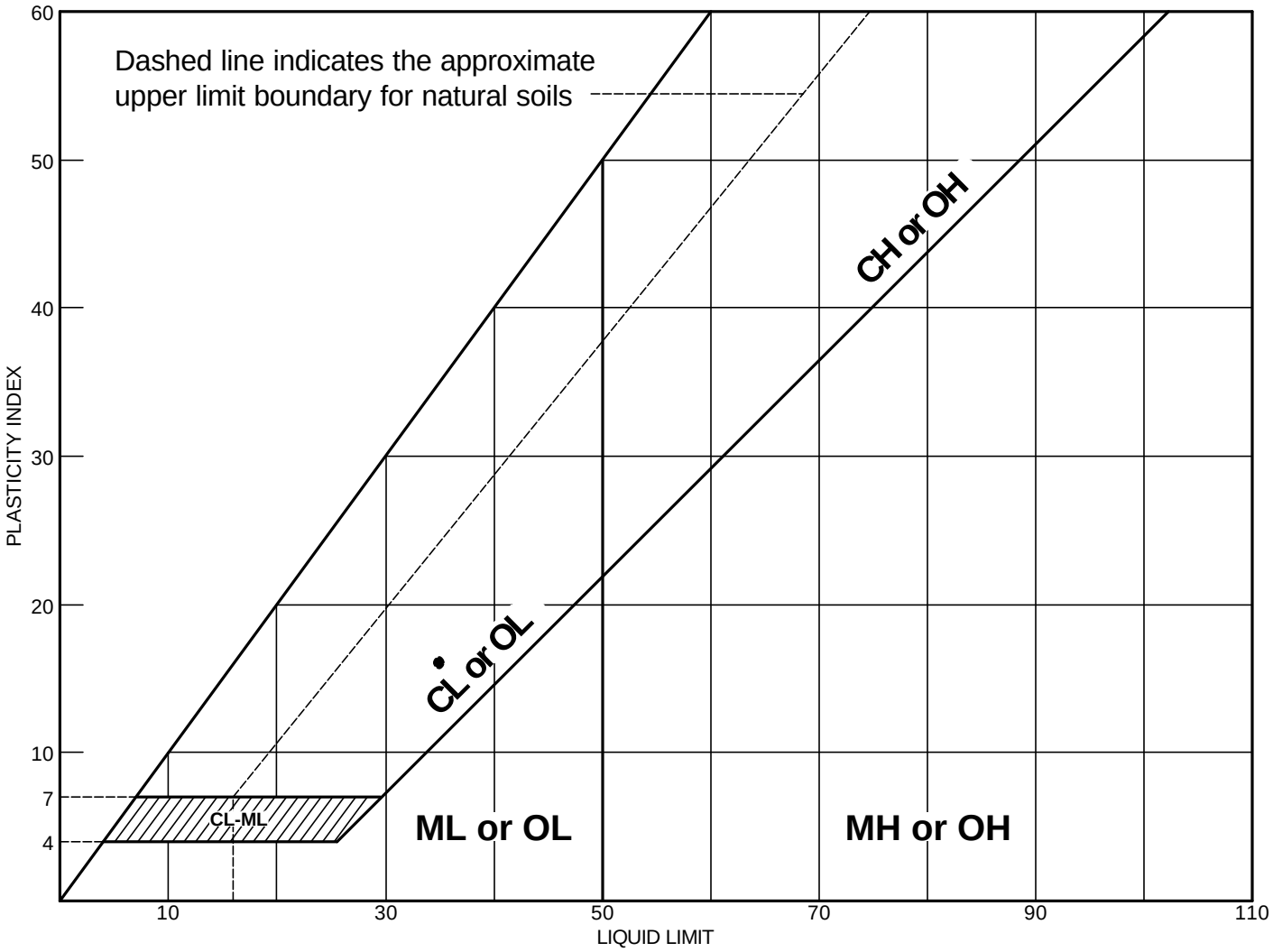
LIQUID AND PLASTIC LIMITS TEST REPORT

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-1

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	GRAY AND BRWON CLAYEY SILT	35	19	16	86.3	82.2	CL

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 19 **Sample No.:** S-2 **Elev./Depth:** 5.0'-10.0'

Remarks:

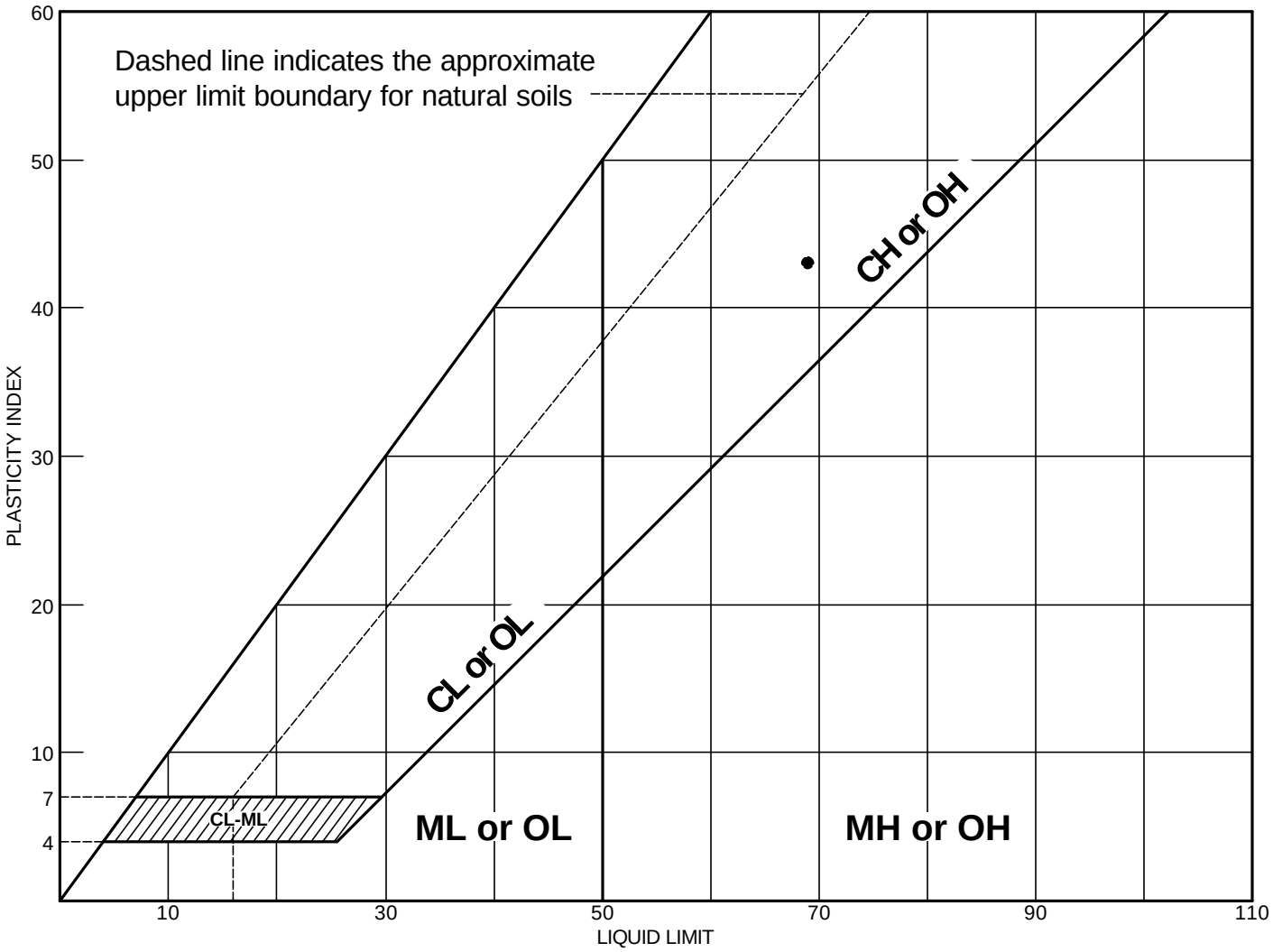
●

LIQUID AND PLASTIC LIMITS TEST REPORT
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-2

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	REDDISH-BROWN SILTY CLAY	69	26	43	89.5	86.6	CH

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 2 **Sample No.:** S-1 **Elev./Depth:** 1.0'-5.0'

Remarks:

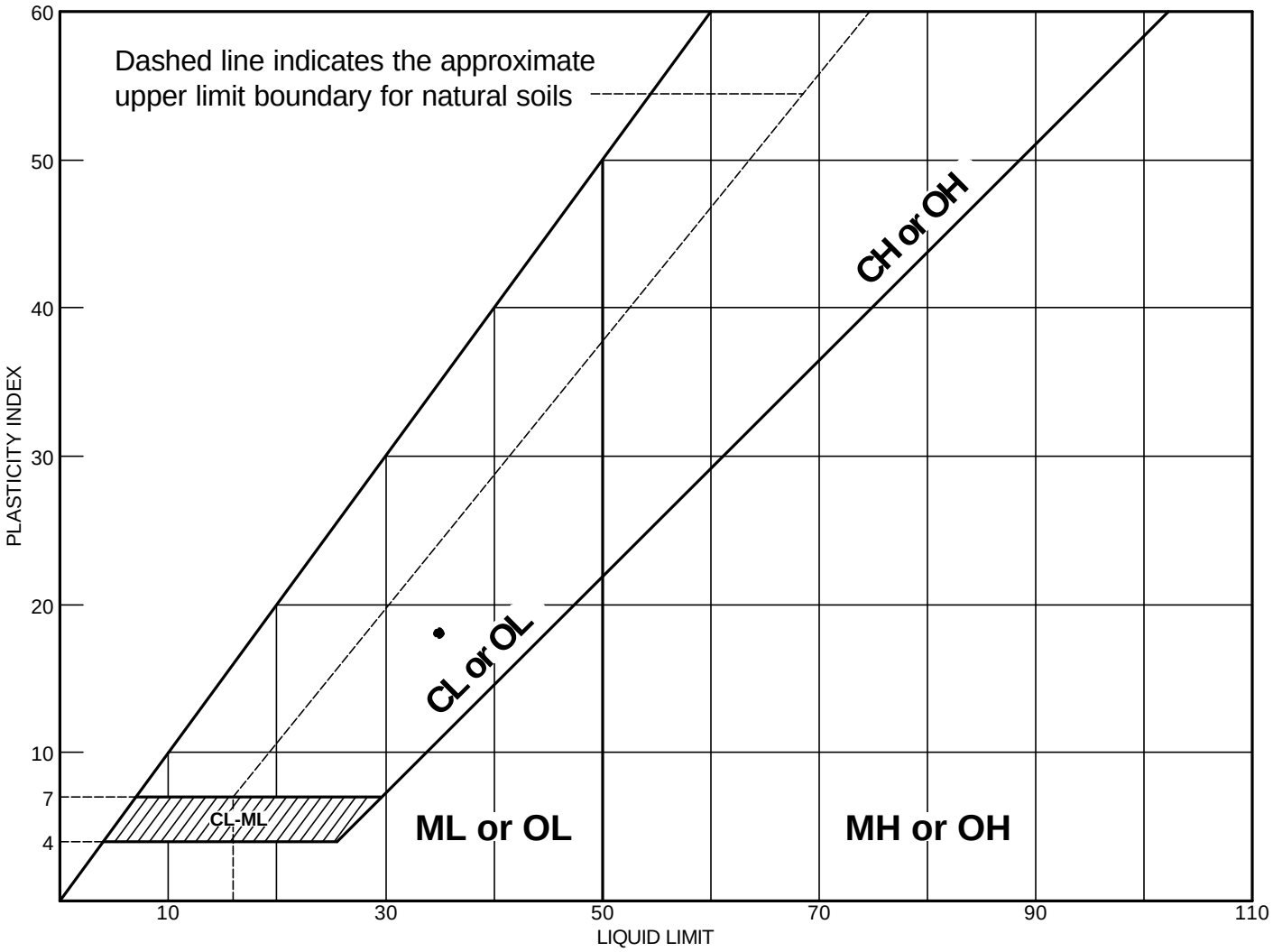
●

LIQUID AND PLASTIC LIMITS TEST REPORT
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-2,S-1

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	REDDISH-BROWN SILTY CLAY	35	17	18	84.7	72.8	CL

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 25 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

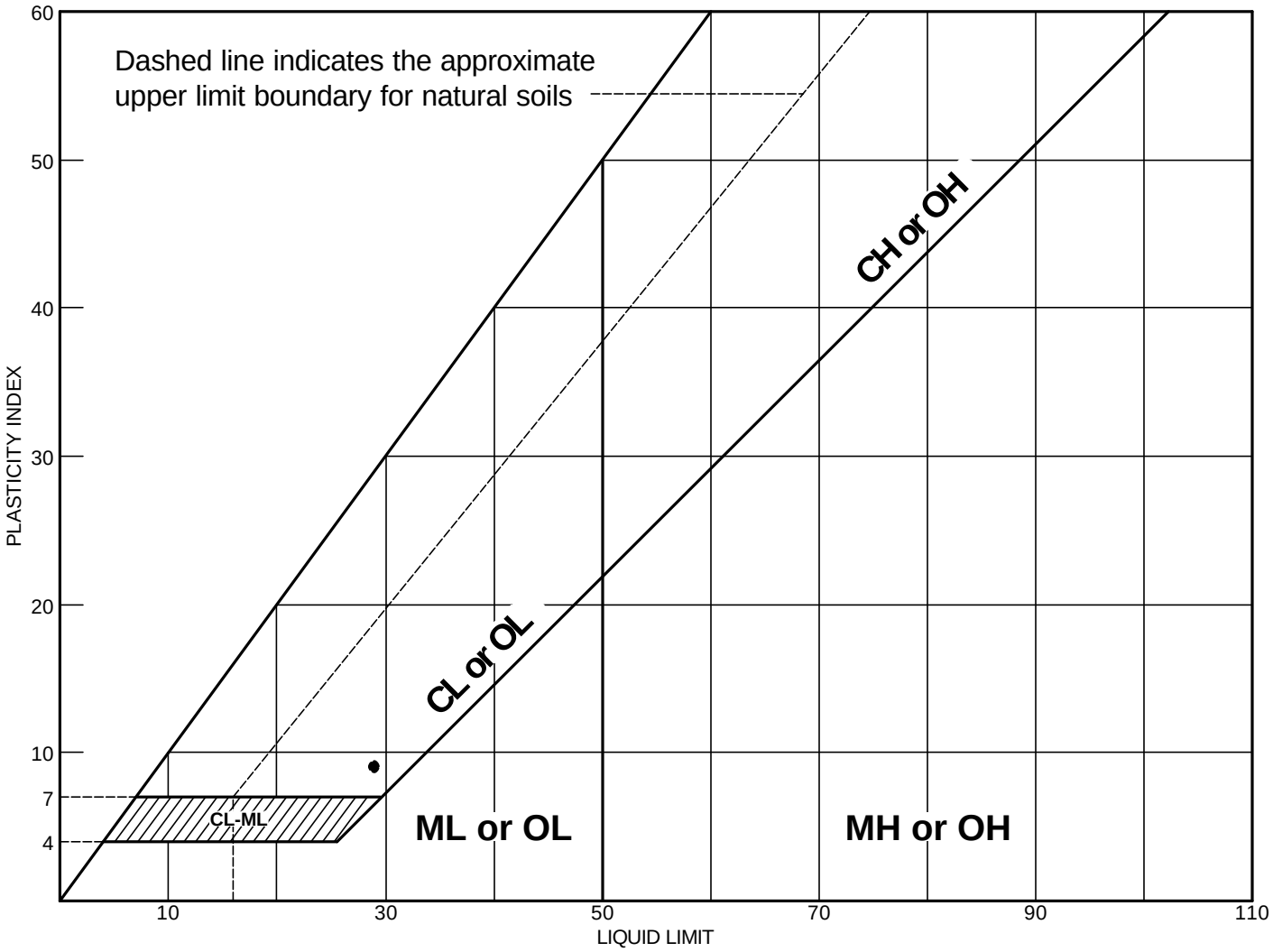
●

LIQUID AND PLASTIC LIMITS TEST REPORT
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-25,S-1

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	BROWN CLAY	29	20	9	89.1	80.9	CL

Project No. 3-7590-0000 **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 6 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

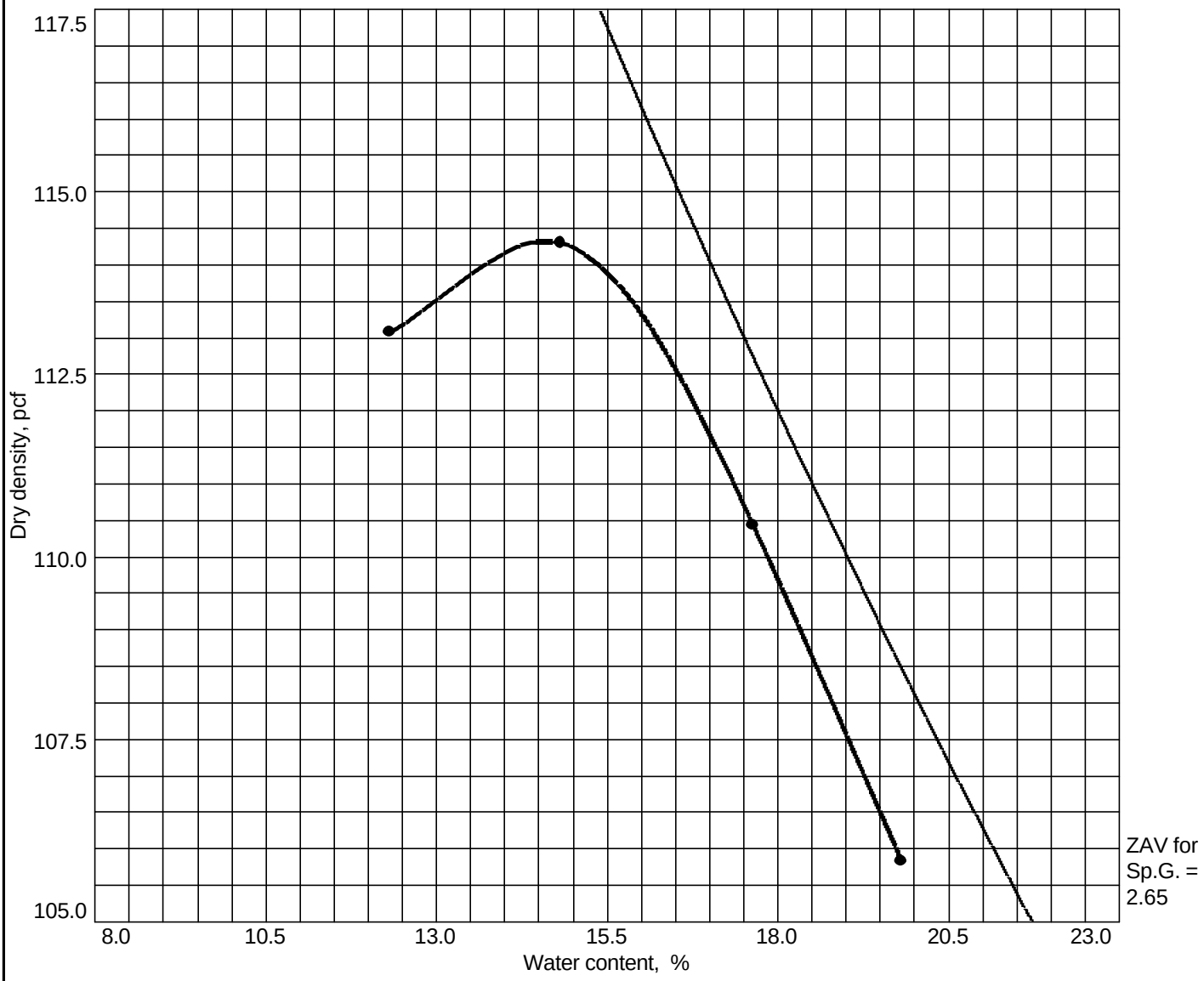
●

LIQUID AND PLASTIC LIMITS TEST REPORT
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-6,S-1

MOISTURE-DENSITY RELATIONSHIP



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0.0'-5.0'	CL	A-6(12)			35	15	0.2	82.8

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 114.3 pcf Optimum moisture = 14.6 %	BROWN SILTY CLAY

Project No. 3-7590-0000 **Client:** naboo1
Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 19 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

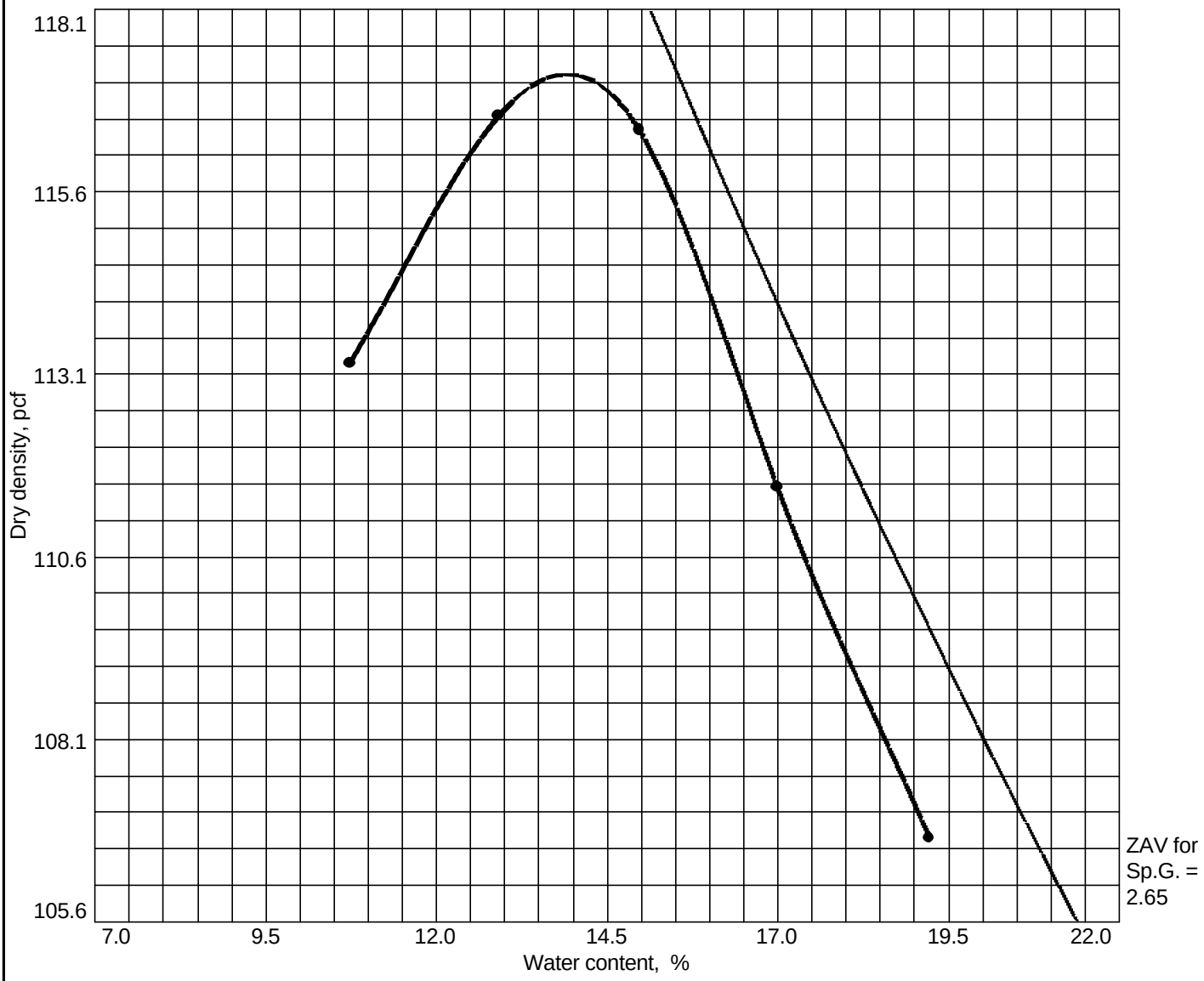
Remarks:

MOISTURE-DENSITY RELATIONSHIP
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-1

MOISTURE-DENSITY RELATIONSHIP



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
5.0'-10.0'	CL	A-6(12)			35	16	0.4	82.2

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 117.2 pcf Optimum moisture = 13.9 %	GRAY AND BRWON CLAYEY SILT

Project No. **Client:** naboo1

Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 19 **Sample No.:** S-2 **Elev./Depth:** 5.0'-10.0'

Remarks:

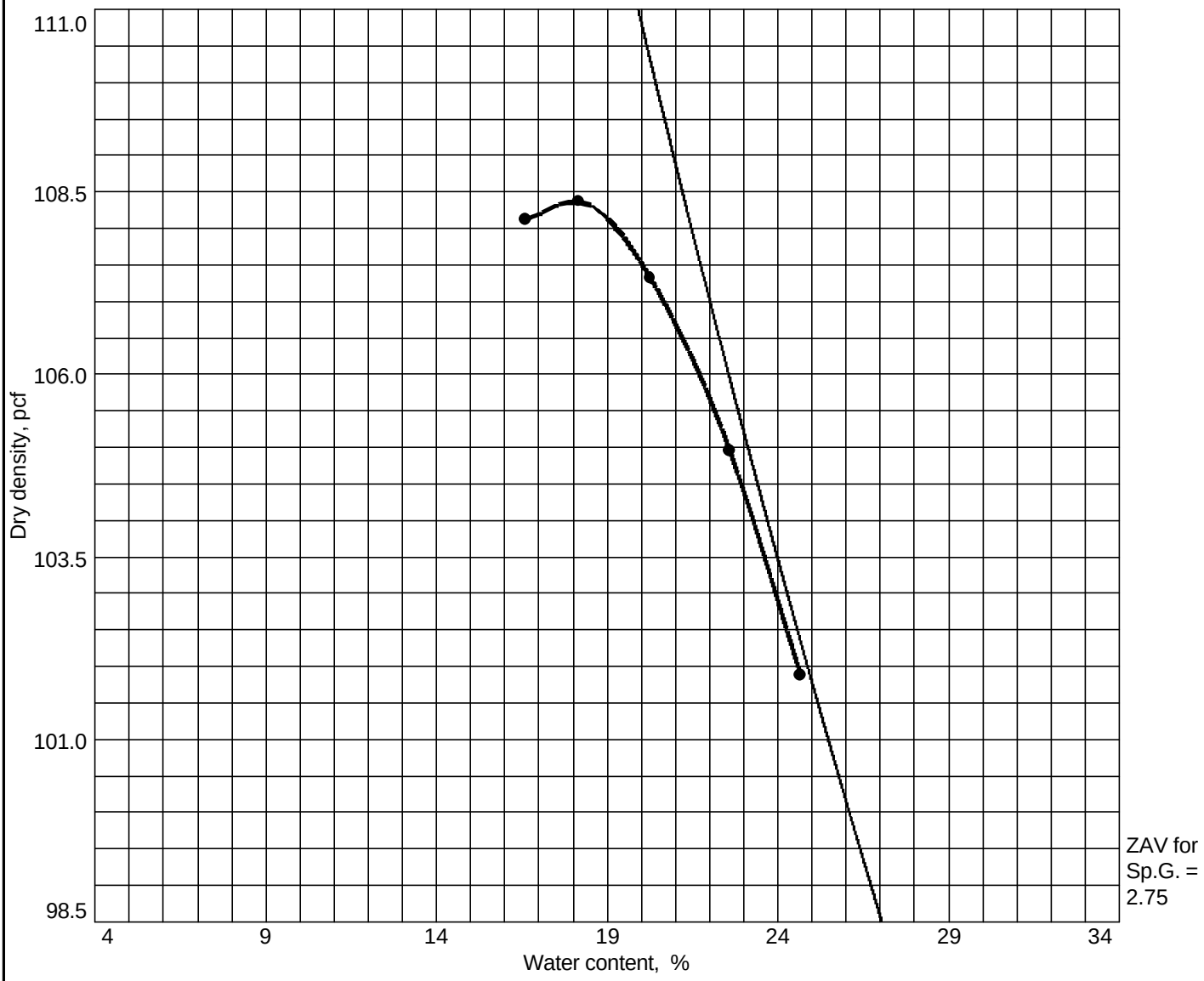
MOISTURE-DENSITY RELATIONSHIP

AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-19,S-2

MOISTURE-DENSITY RELATIONSHIP



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
1.0'-5.0'	CH	A-7-6(42)			69	43	0.5	86.6

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 108.4 pcf Optimum moisture = 18.0 %	REDDISH-BROWN SILTY CLAY

Project No. 3-7590-0000 **Client:** naboo1
Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 2 **Sample No.:** S-1 **Elev./Depth:** 1.0'-5.0'

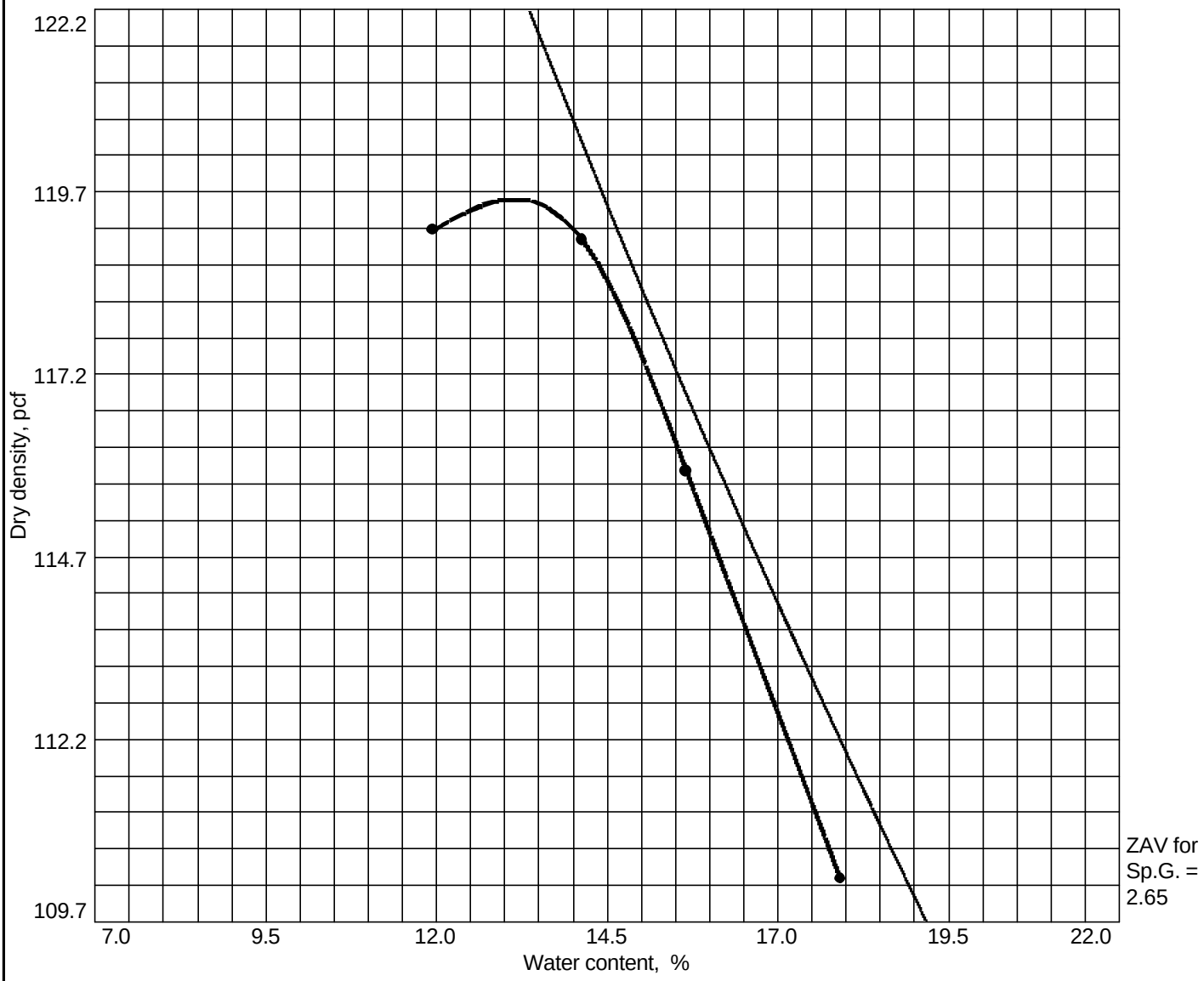
Remarks:

MOISTURE-DENSITY RELATIONSHIP
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-2,S-1

MOISTURE-DENSITY RELATIONSHIP



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0.0'-5.0'	CL	A-6(11)			35	18	7.3	72.8

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 119.6 pcf Optimum moisture = 13.1 %	REDDISH-BROWN SILTY CLAY

Project No. 3-7590-0000 **Client:** naboo1
Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 25 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

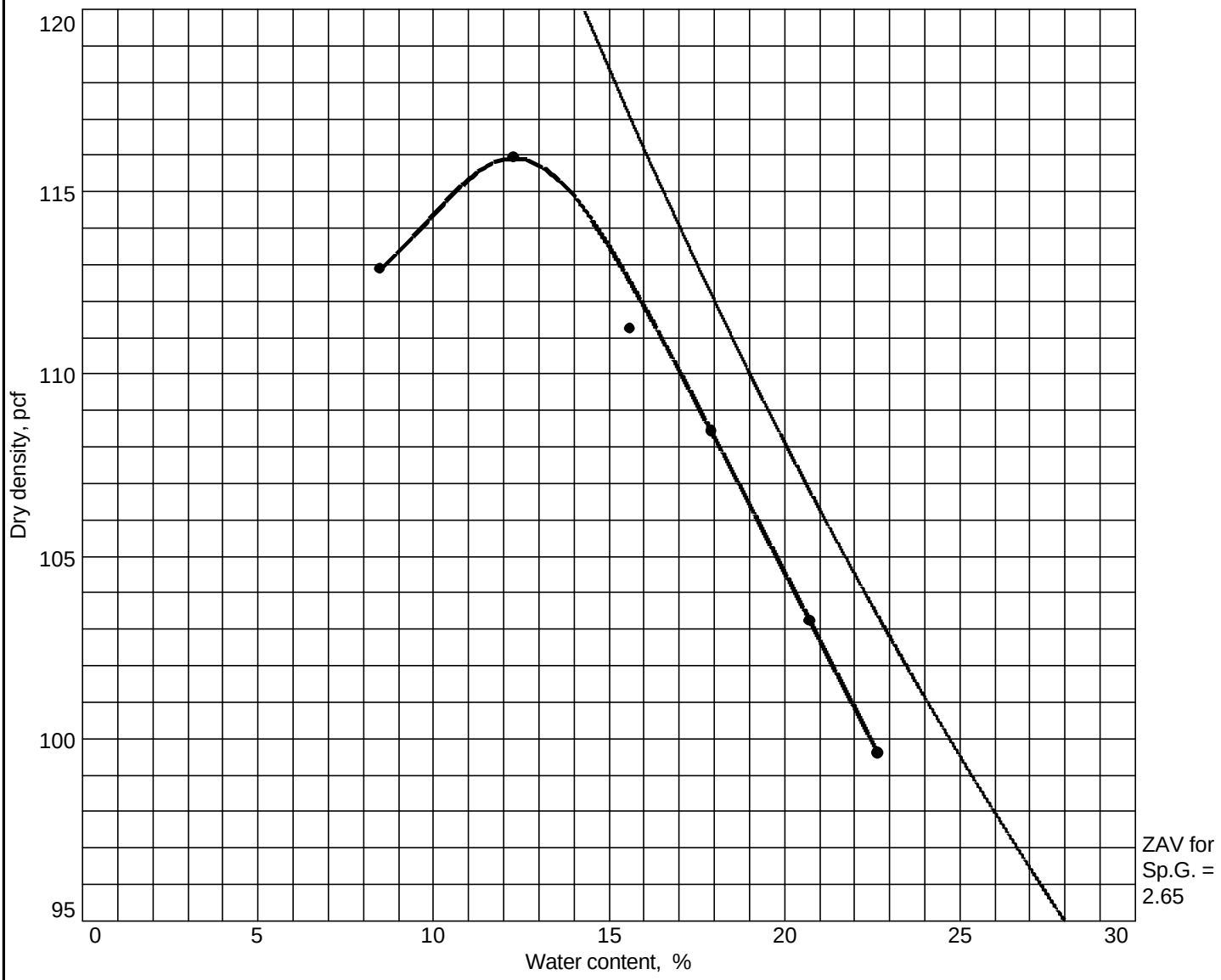
Remarks:

MOISTURE-DENSITY RELATIONSHIP
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

Amendment 4

FIGURE: B-25,S-1

MOISTURE-DENSITY RELATIONSHIP



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0.0'-5.0'	CL	A-4(6)			29	9	1.4	80.9

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 115.9 pcf Optimum moisture = 12.3 %	BROWN CLAY

Project No. 3-7590-0000 **Client:** naboo1
Project: RSP/FORT KNOX HOUSING/GEO

● **Source:** BORING 6 **Sample No.:** S-1 **Elev./Depth:** 0.0'-5.0'

Remarks:

MOISTURE-DENSITY RELATIONSHIP
AMEC GEOTECHNICAL AND CONSTRUCTION MATERIALS LABORATORY

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FIGURE: B-6,S-1