

TETRA TECH – GREEN BAY

Engineering – Surveying – Material Testing

TRANSMITTAL

TO: Logan Seipel
Ayres Associates

FROM: Bob Rouse / Justin Naumann
Tetra Tech – Green Bay

2679 Continental Drive

Green Bay, WI 54311

PHONE: (920) 465-3911

DATE: January 18, 2023

RE: Lab Test Result Reports

PROJECT: Adams County – North Borrow East
Expansion

WE ARE SENDING YOU:

☒ ATTACHED

☐ UNDER SEPARATE COVER VIA

☐ DRAWINGS

☐ SPECIFICATIONS

☐ CD/DVD

☐ DOCUMENTS

☐ COPY OF LETTER

☐ _____

QUANTITY	DESCRIPTION
1	Lab Test Results Reports
	Test Pits 1 to 10
Still to Come	Remolded Perm Reports for TP3 (8-10), TP4 (9-11), TP6 (5-7), TP9 (13-14)
1	Summary Table For North Borrow – East Expansion

IF MATERIAL RECEIVED IS NOT AS LISTED, PLEASE NOTIFY US AT ONCE.

REMARKS: _____

COPY TO: _____

TABLE

SUMMARY OF LABORATORY TEST RESULTS

FOR

CLAY MATERIAL (BORROW SOURCE)

AYRES ASSOCIATES

ADAMS COUNTY - NORTH BORROW - EAST EXPANSION

JANUARY 2023

Updated: 1/12/23

ASTM No.		D6913/D7928				D4318		D2216		D1557		D2487	
Date Sampled	Sample Number	Sample Location	Sample Depth	Grain Size Analysis		Atterberg Limits			Sampled Water		Modified Proctor Density		Coefficient Permeability (cm/sec)
				%Fines <#200	%Clay <.005	Liquid Limit	Plastic Limit	Plasticity Index	Water Content (%)	Max. Dry Density (pcf)	Optimum Water (%)		
11/29/22	TP1 (4-6)	Test Pit 1	4.0'-6.0'	80.1	8.6	NV	NP	NP	23.0				ML
11/29/22	TP1(8-10)	Test Pit 1	8.0'-10.0'	99.5	49.0	29	16	13	27.6				CL
11/29/22	TP1 (13-15)	Test Pit 1	13.0'-15.0'	91.3	56.4	35	16	19	28.6				CL
11/29/22	TP2 (9-11)	Test Pit 2	9.0'-11.0'	99.0	50.0	39	19	20	40.1				CL
11/29/22	TP2 (11-13)	Test Pit 2	11.0'-13.0'	98.5	38.1	29	17	12	26.4				CL
11/29/22	TP3 (3-6)	Test Pit 3	3.0'-6.0'	77.7	8.8	NV	NP	NP	20.1				ML
11/29/22	TP3(8-10)	Test Pit 3	8.0'-10.0'	92.1	42.9	38	19	19	35.5	118.1	13.6		CL
11/29/22	TP3(11-13)	Test Pit 3	11.0'-13.0'	95.9	61.9	35	17	18	29.8				CL
11/29/22	TP4 (9-11)	Test Pit 4	9.0'-11.0'	99.1	52.5	35	17	18	33.5	117.0	14.1		CL
11/29/22	TP4 (11-12)	Test Pit 4	11.0'-12.0'	96.0	54.5	31	17	14	31.0				CL
11/29/22	TP5 (9-10)	Test Pit 5	9.0'-10.0'	95.7	41.4	25	15	10	26.4				CL
11/29/22	TP5 (10-11)	Test Pit 5	10.0'-11.0'	97.8	53.0	33	18	15	38.6				CL
11/29/22	TP5 (11-13)	Test Pit 5	11.0'-13.0'	94.3	65.3	38	19	19	31.0				CL
11/29/22	TP6 (1-2)	Test Pit 6	1.0'-2.0'	98.4	46.5	30	17	13	28.3				CL

TABLE

SUMMARY OF LABORATORY TEST RESULTS

FOR

CLAY MATERIAL (BORROW SOURCE)

AYRES ASSOCIATES

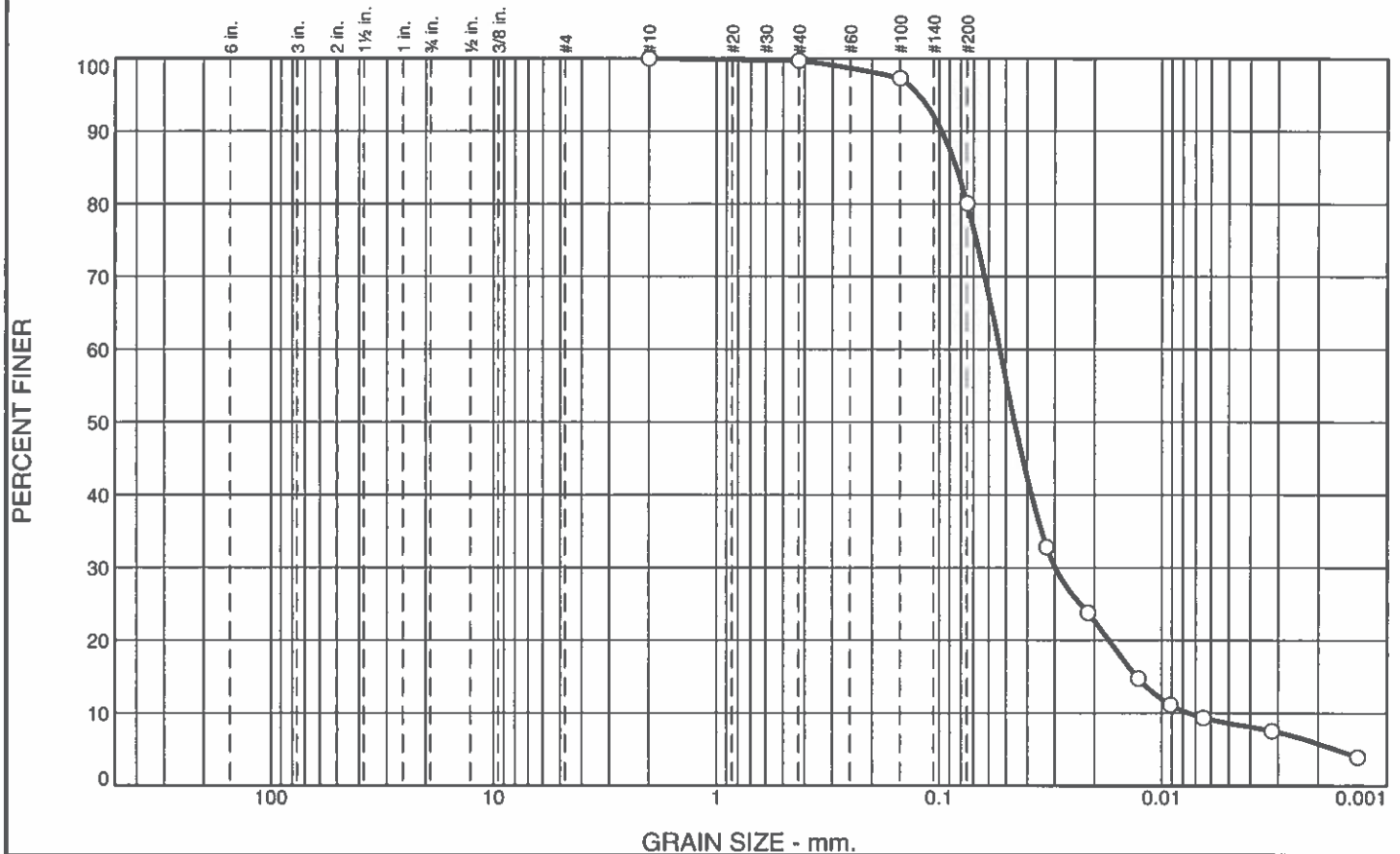
ADAMS COUNTY - NORTH BORROW - EAST EXPANSION

JANUARY 2023

Updated: 1/12/23

ASTM No.		D6913/D7928			D4318		D2216		D1557			D2487		
Date Sampled	Sample Number	Sample Location	Sample Depth	Grain Size Analysis		Atterberg Limits			Sampled Water		Modified Proctor Density		Coefficient Permeability (cm/sec)	U.S.C.S.
				%Fines <#200	%Clay <.005	Liquid Limit	Plastic Limit	Plasticity Index	Water Content (%)	Max. Dry Density (pcf)	Optimum Water (%)			
11/29/22	TP6 (5-7)	Test Pit 6	5.0'-7.0'	93.8	65.0	39	18	21	28.6	110.5	18.0			CL
11/29/22	TP7 (8-10)	Test Pit 7	8.0'-10.0'	98.0	57.6	33	18	15	29.6					CL
11/29/22	TP7 (11-13)	Test Pit 7	11.0'-13.0'	97.5	60.2	33	18	15	32.1					CL
11/29/22	TP8 (1-4)	Test Pit 8	1.0'-4.0'	59.7	16.6	NV	NP	NP	19.4					ML
11/29/22	TP8 (11-13)	Test Pit 8	11.0'-13.0'	95.5	57.9	39	20	19	48.2					CL
11/29/22	TP9 (10-12)	Test Pit 9	10.0'-12.0'	97.7	40.1	28	17	11	28.3					CL
11/29/22	TP9 (13-14)	Test Pit 9	13.0'-14.0'	98.4	51.8	31	17	14	27.9	116.9	14.3			CL
11/29/22	TP10 (10-12)	Test Pit 10	10.0'-12.0'	97.6	43.8	31	21	10	43.4					CL
11/29/22	TP10 (14-15)	Test Pit 10	14.0'-15.0'	95.3	51.6	32	18	14	30.4					CL
Minimum:				59.7	8.6	25	15	10	19.4	110.5	13.6			
Maximum:				99.5	65.3	39	21	21	48.2	118.1	18.0			
Average:				93.4	46.7	33	18	15	30.8	115.6	15.0			
Project Requirements:				≥50.0	≥20.0	Avg. >25.0		≥10.0	Avg. >12.0		≤1.0E-07		CL/CH	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	19.6	71.5	8.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.7		
#100	97.3		
#200	80.1		

* (no specification provided)

Material Description

SILT W/SAND, reddish brown

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients
D₉₀= 0.0977 D₈₅= 0.0840 D₆₀= 0.0534
D₅₀= 0.0457 D₃₀= 0.0300 D₁₅= 0.0130
D₁₀= 0.0076 C_u= 7.05 C_c= 2.23

Classification
USCS= ML AASHTO= A-4(0)

Remarks
Munsell Color Code: 5YR 5/3
Location: Test Pit #1

Source of Sample: TP-Test Pits
Sample Number: TP-1 (4-6)

Depth: 4.0'-6.0'

Date: 11/29/2022

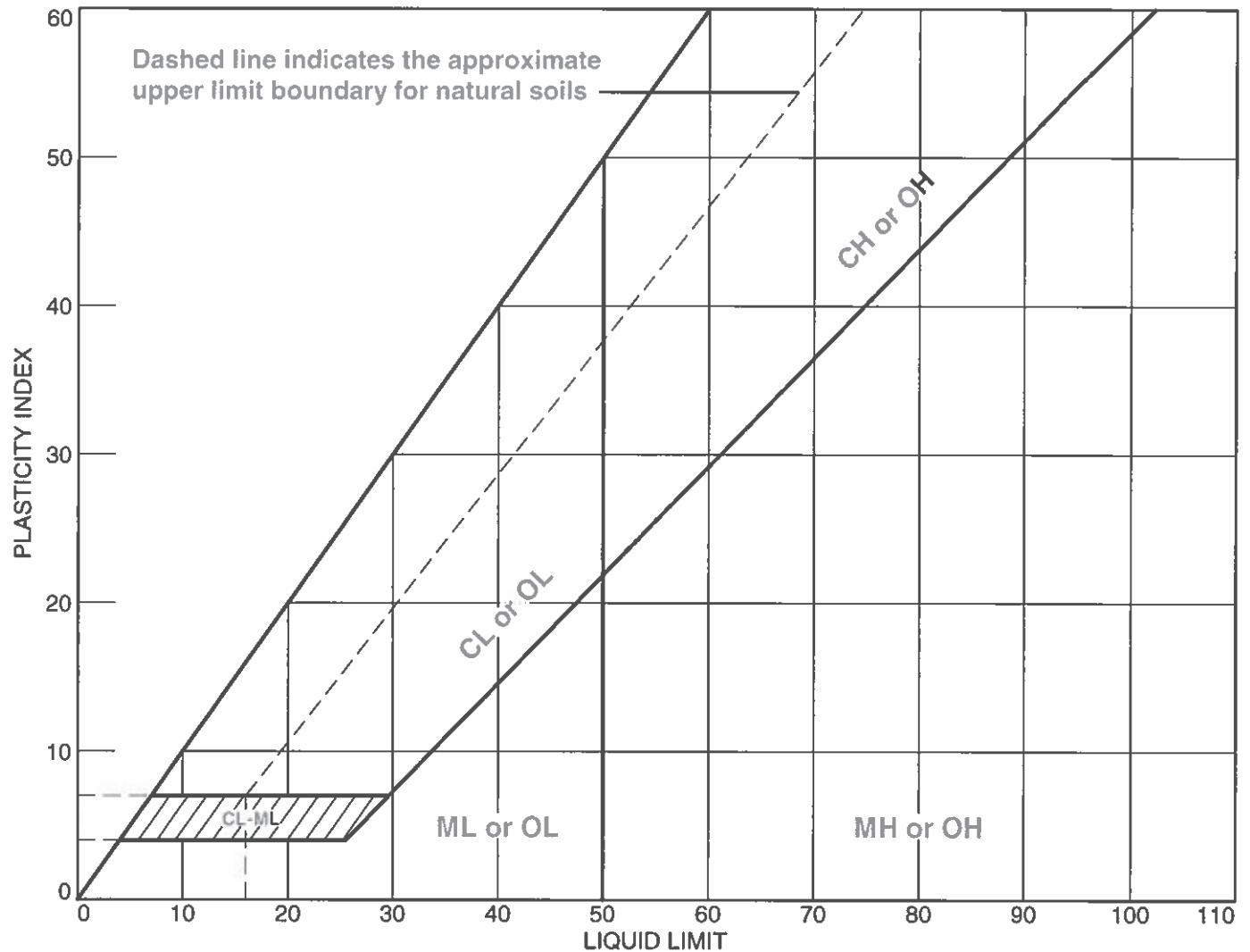
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: _____ Figure _____

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-1 (4-6)	4.0'-6.0'	23.0	NP	NV	NP	ML

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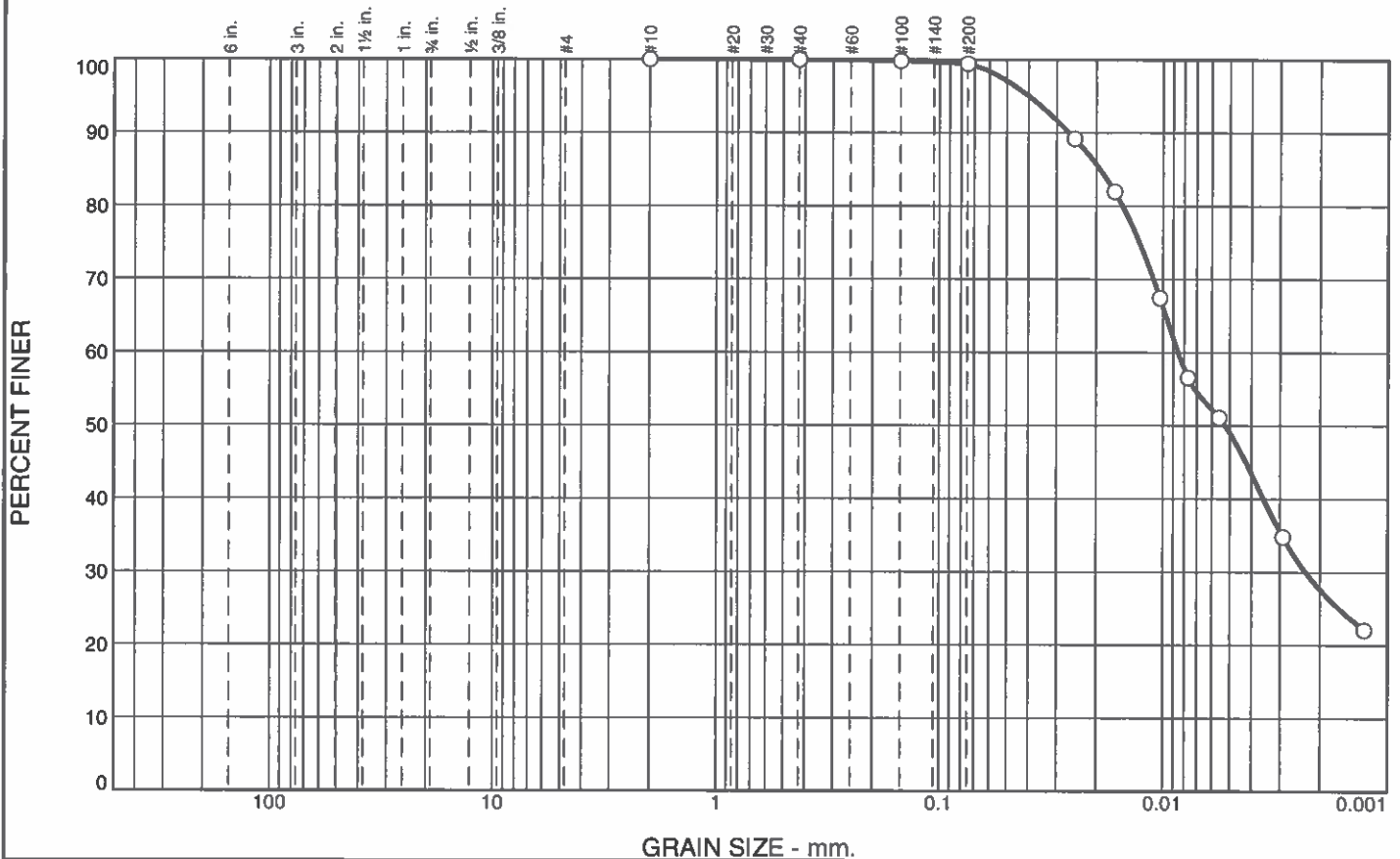
Project: Adams County Landfill North Borrow Area East Expansion

Project No.:

Figure

Tested By: JJN **Checked By:** JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	0.5	50.5	49.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	100.0		
#100	99.8		
#200	99.5		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 16

LL= 29

PI= 13

Coefficients

D₉₀= 0.0265

D₈₅= 0.0192

D₆₀= 0.0086

D₅₀= 0.0052

D₃₀= 0.0023

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= CL

AASHTO= A-6(12)

Remarks

Munsell Color Code: 5YR 5/3

Location: Test Pit #1

Source of Sample: TP-Test Pits
Sample Number: TP-1 (8-10)

Depth: 8.0'-10.0'

Date: 11/29/2022

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Project: Adams County Landfill North Borrow Area East Expansion

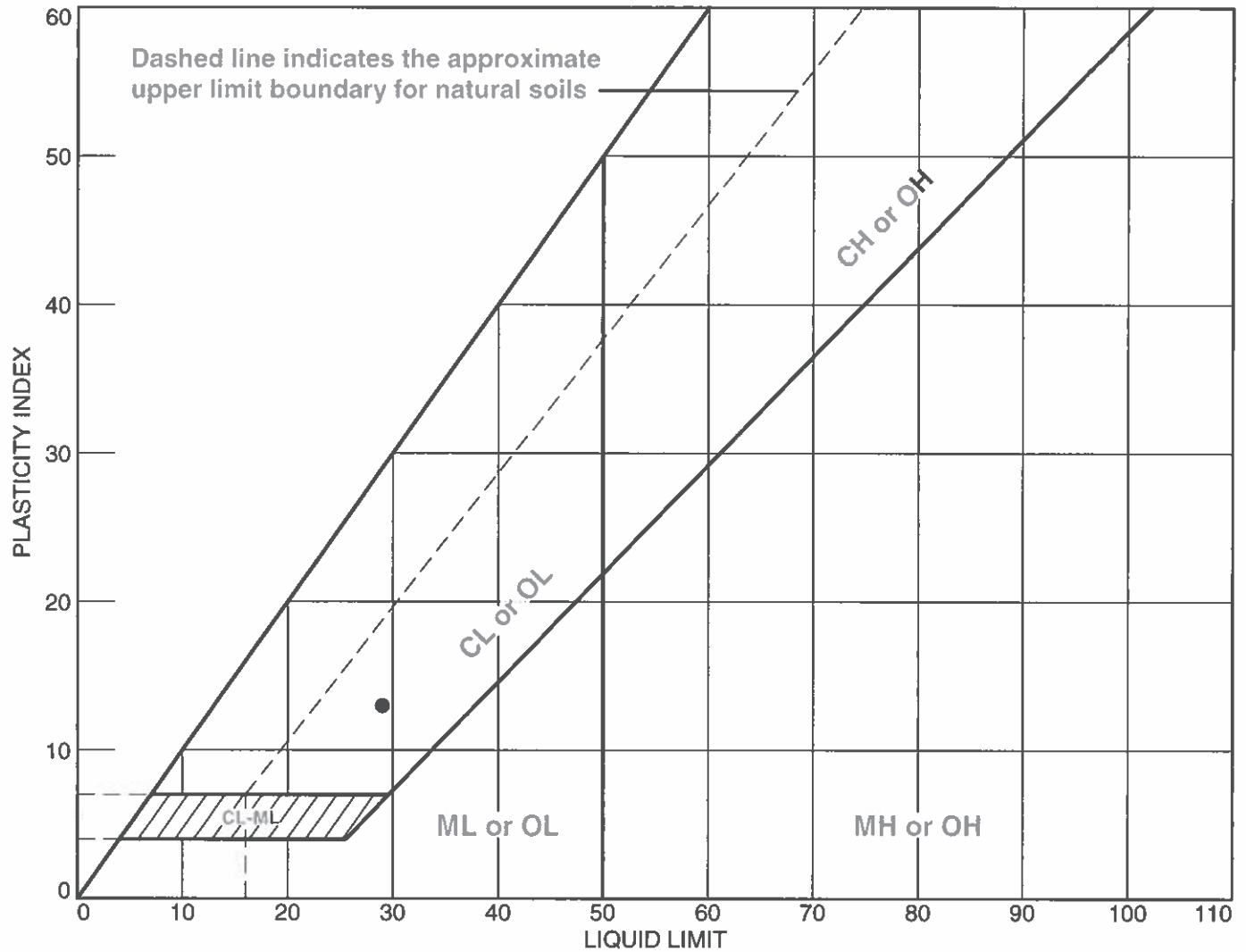
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-1 (8-10)	8.0'-10.0'	27.6	16	29	13	CL

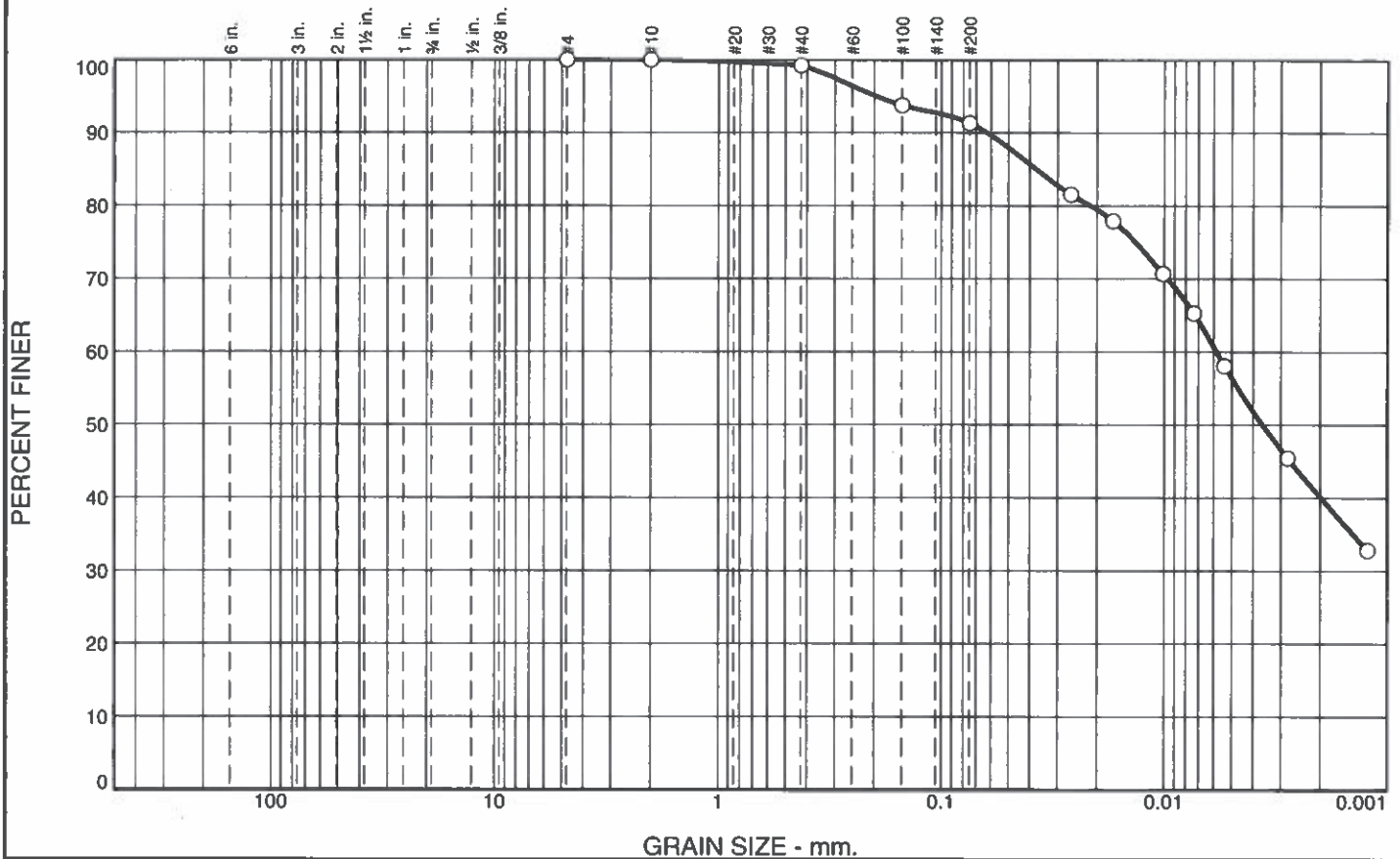
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.8	7.9	34.9	56.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.2		
#100	93.8		
#200	91.3		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

PL= 16 **Atterberg Limits** LL= 35 PI= 19

Coefficients
D₉₀= 0.0624 D₈₅= 0.0376 D₆₀= 0.0058
D₅₀= 0.0036 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(17)

Remarks
Munsell Color Code: 5YR 5/3
Location: Test Pit #1

Source of Sample: TP-Test Pits
Sample Number: TP-1 (13-15)

Depth: 13.0'-15.0'

Date: 11/29/2022

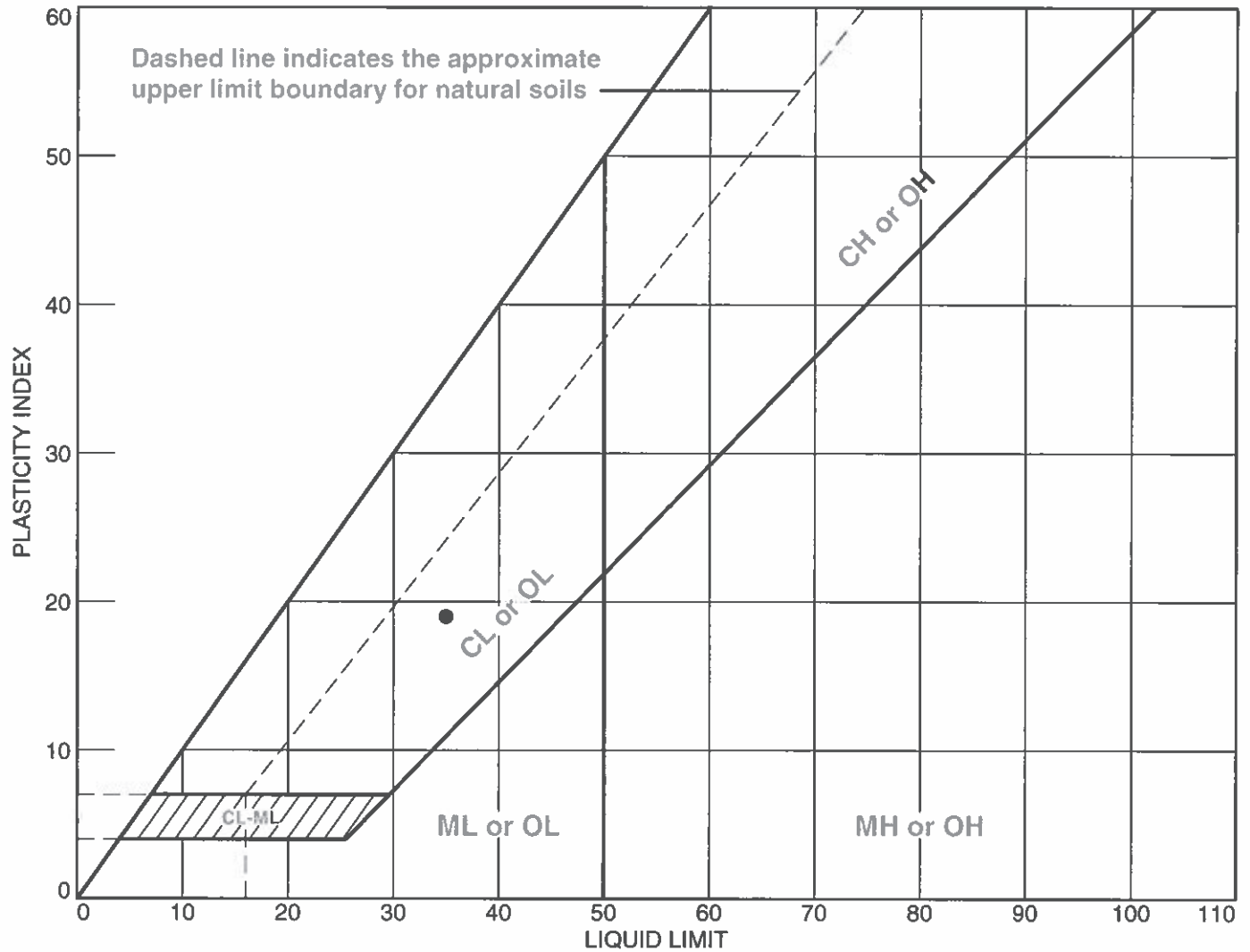
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: **Figure**

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-1 (13-15)	13.0'-15.0'	28.6	16	35	19	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

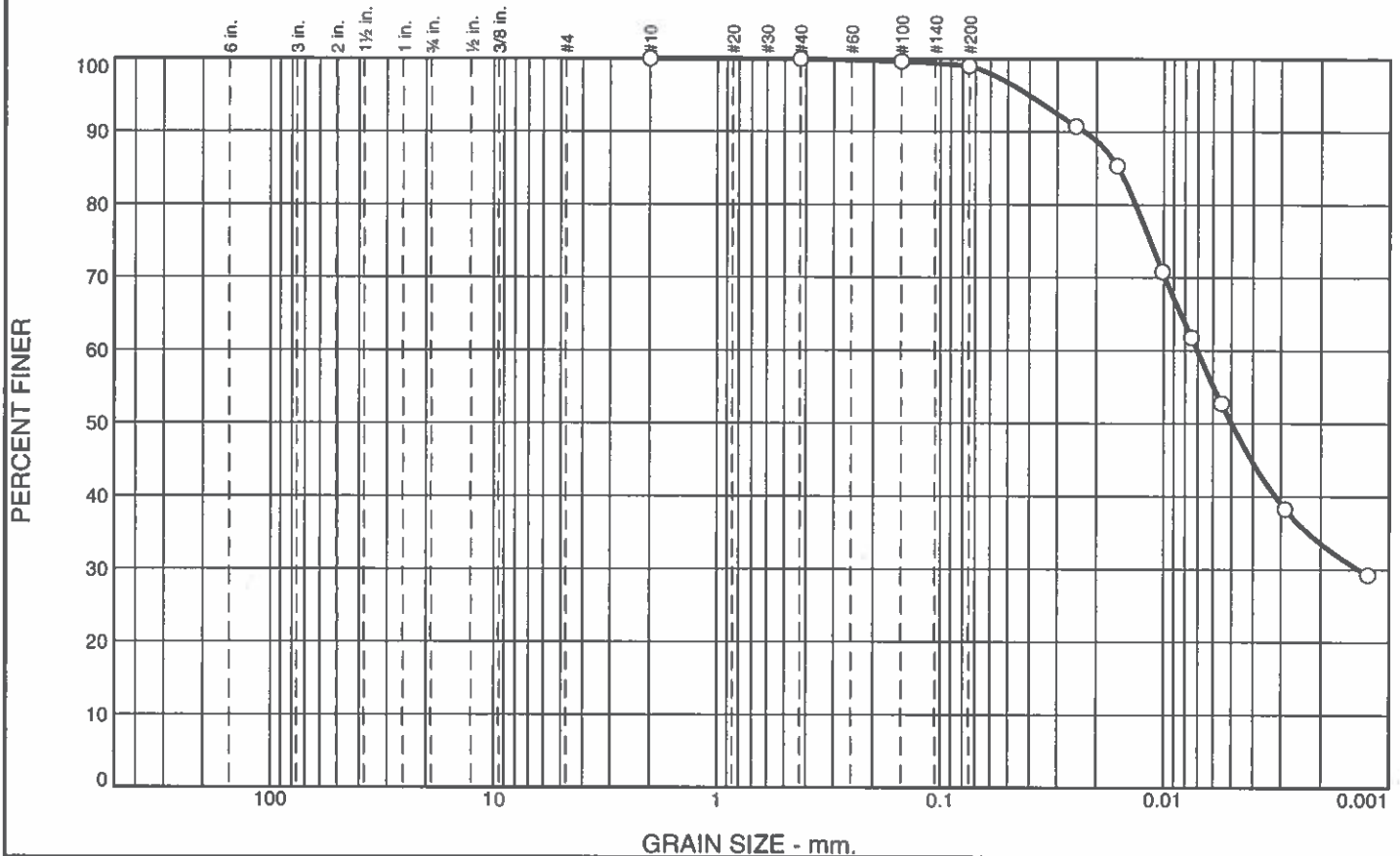
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	1.0	49.0	50.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	100.0		
#100	99.6		
#200	99.0		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

PL= 19 **Atterberg Limits** LL= 39 PI= 20

Coefficients
D₉₀= 0.0227 D₈₅= 0.0160 D₆₀= 0.0071
D₅₀= 0.0050 D₃₀= 0.0014 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(21)

Remarks
Munsell Color Code: 5YR 4/3
Location: Test Pit #2

Source of Sample: TP-Test Pits
Sample Number: TP-2 (9-11)

Depth: 9.0'-11.0'

Date: 11/29/2022

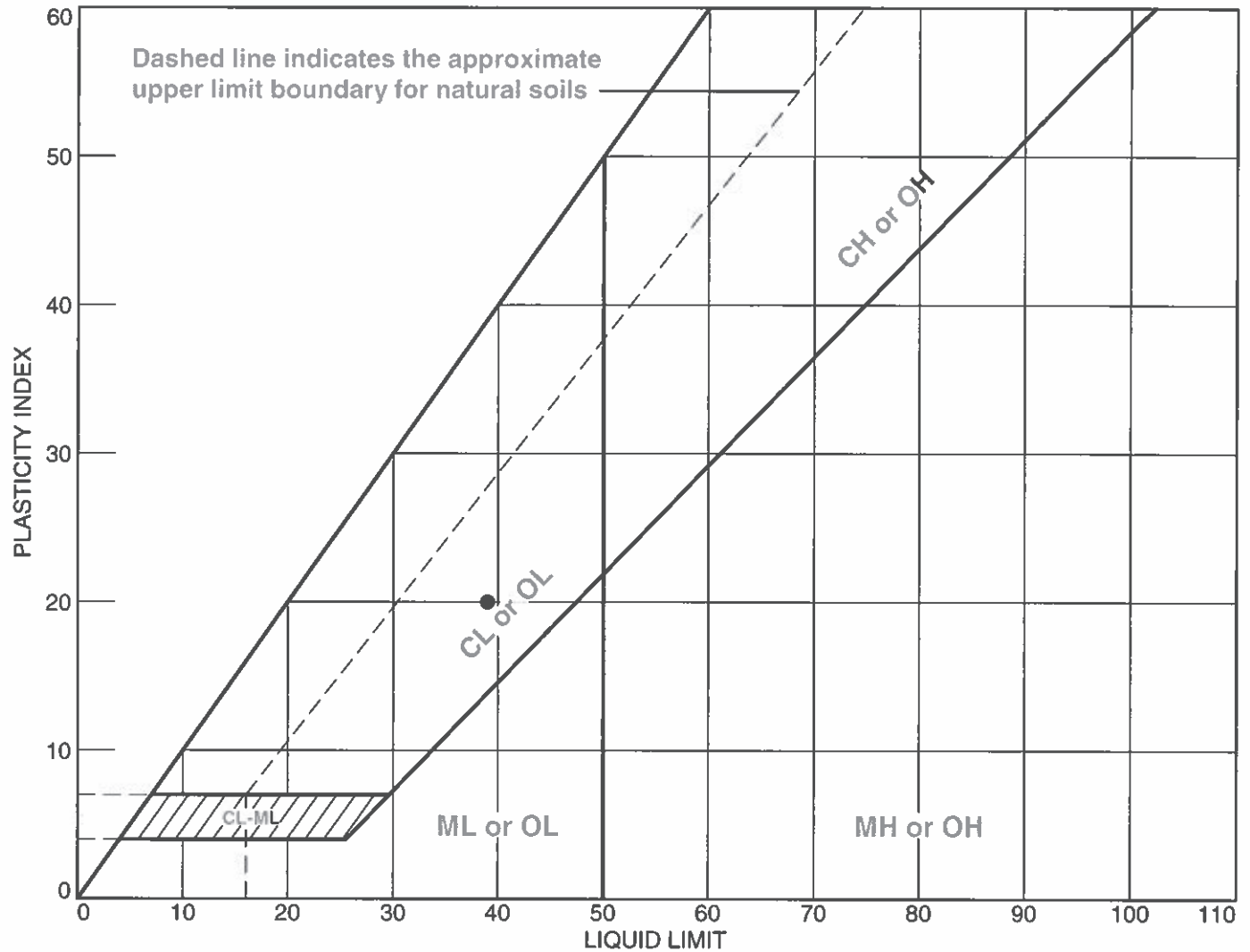
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-2 (9-11)	9.0'-11.0'	40.1	19	39	20	CL

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Project: Adams County Landfill North Borrow Area East Expansion

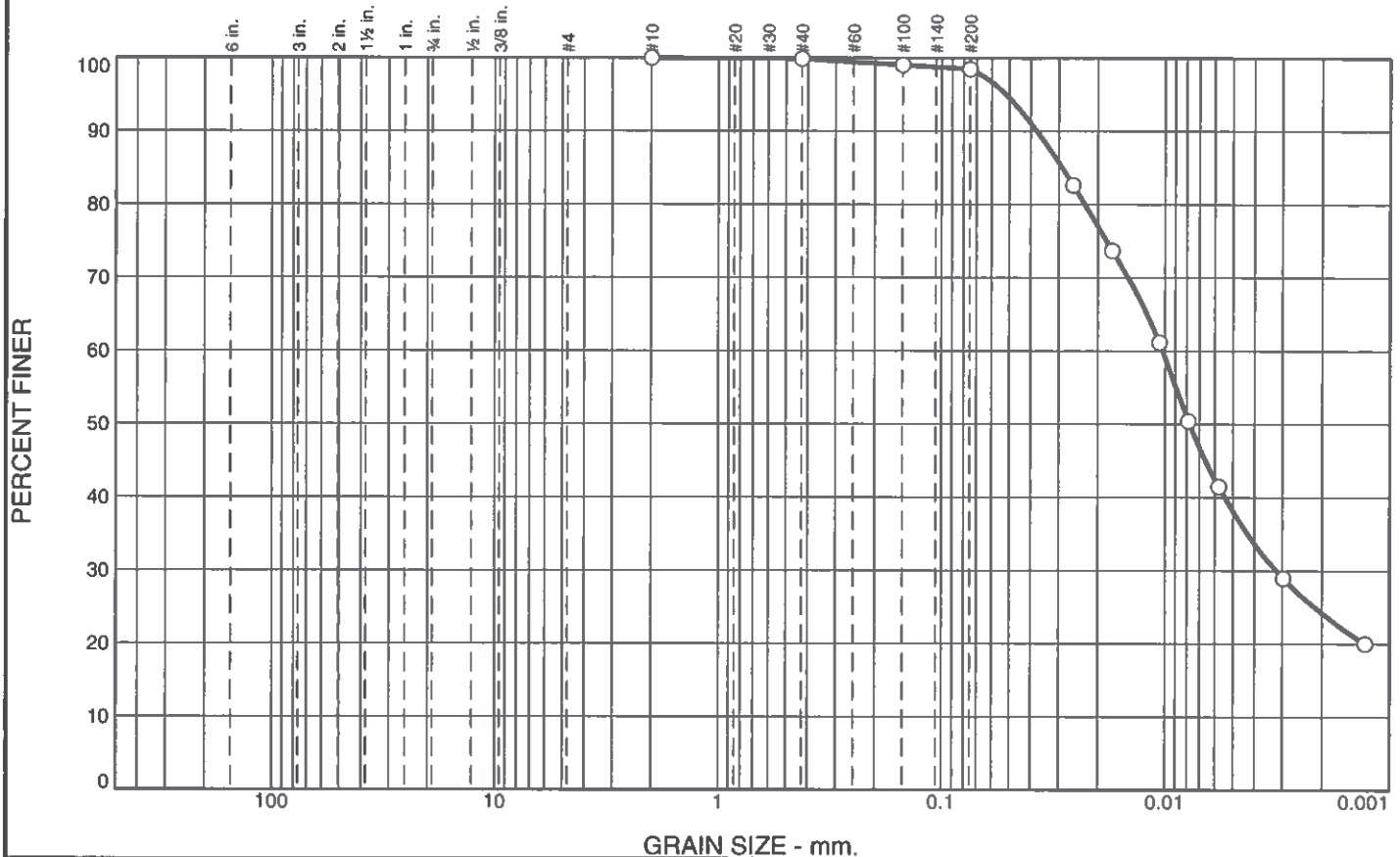
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	1.4	60.4	38.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.9		
#100	99.0		
#200	98.5		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 17 LL= 29 PI= 12

Coefficients

D₉₀= 0.0376 D₈₅= 0.0290 D₆₀= 0.0103
D₅₀= 0.0078 D₃₀= 0.0032 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(11)

Remarks

Munsell Color Code: 5YR 5/3
Location: Test Pit #2

Source of Sample: TP-Test Pits
Sample Number: TP-2 (11-13)

Depth: 11.0'-13.0'

Date: 11/29/2022

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Project: Adams County Landfill North Borrow Area East Expansion

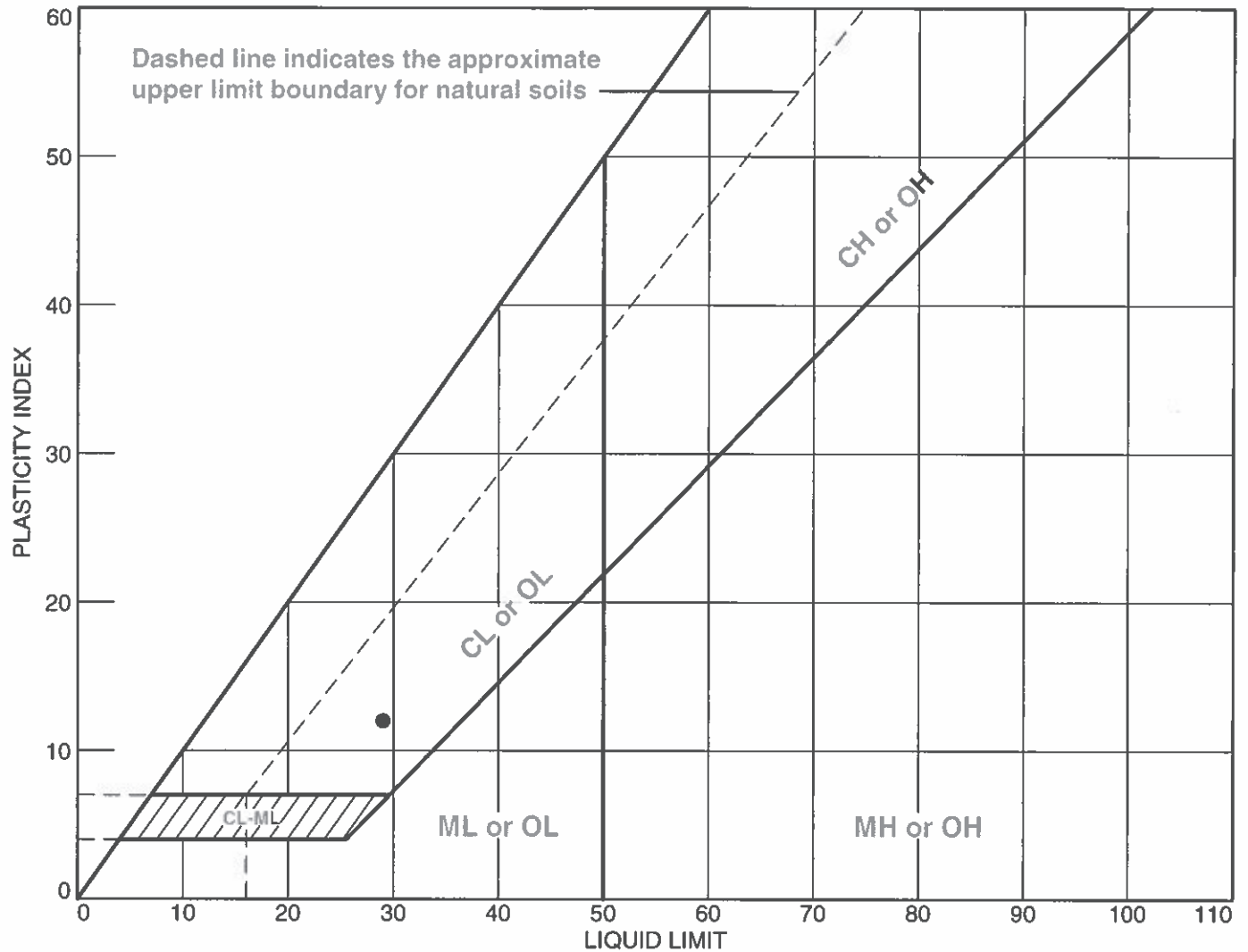
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-2 (11-13)	11.0'-13.0'	26.4	17	29	12	CL

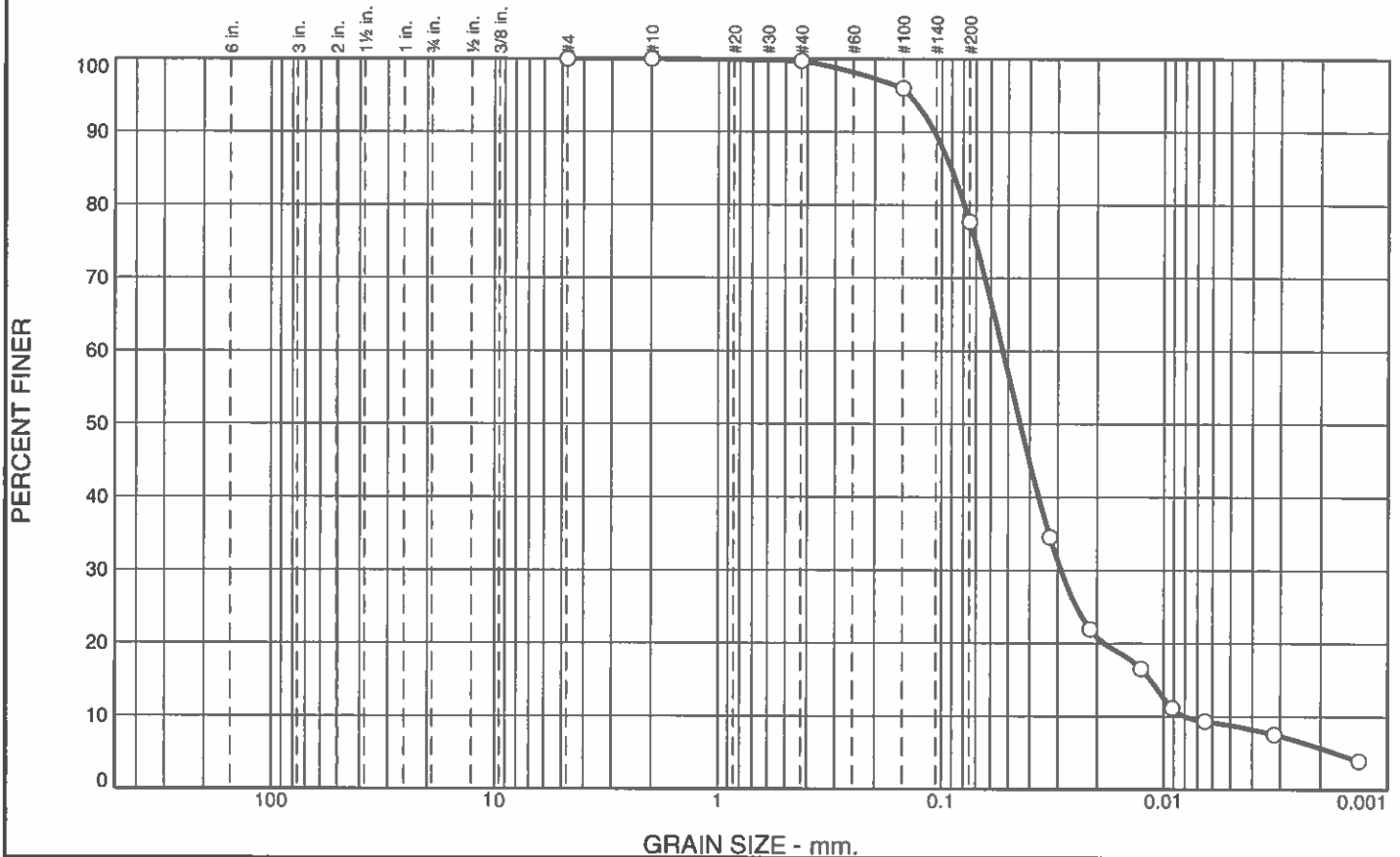
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	22.0	68.9	8.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.7		
#100	96.0		
#200	77.7		

* (no specification provided)

Material Description

SILT W/SAND, strong brown

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 0.1082

D₈₅= 0.0908

D₆₀= 0.0530

D₅₀= 0.0443

D₃₀= 0.0291

D₁₅= 0.0115

D₁₀= 0.0080

C_u= 6.59

C_c= 1.98

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

Munsell Color Code: 7.5YR 4/6

Location: Test Pit #3

Source of Sample: TP-Test Pits
Sample Number: TP-3 (3-6)

Depth: 3.0'-6.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

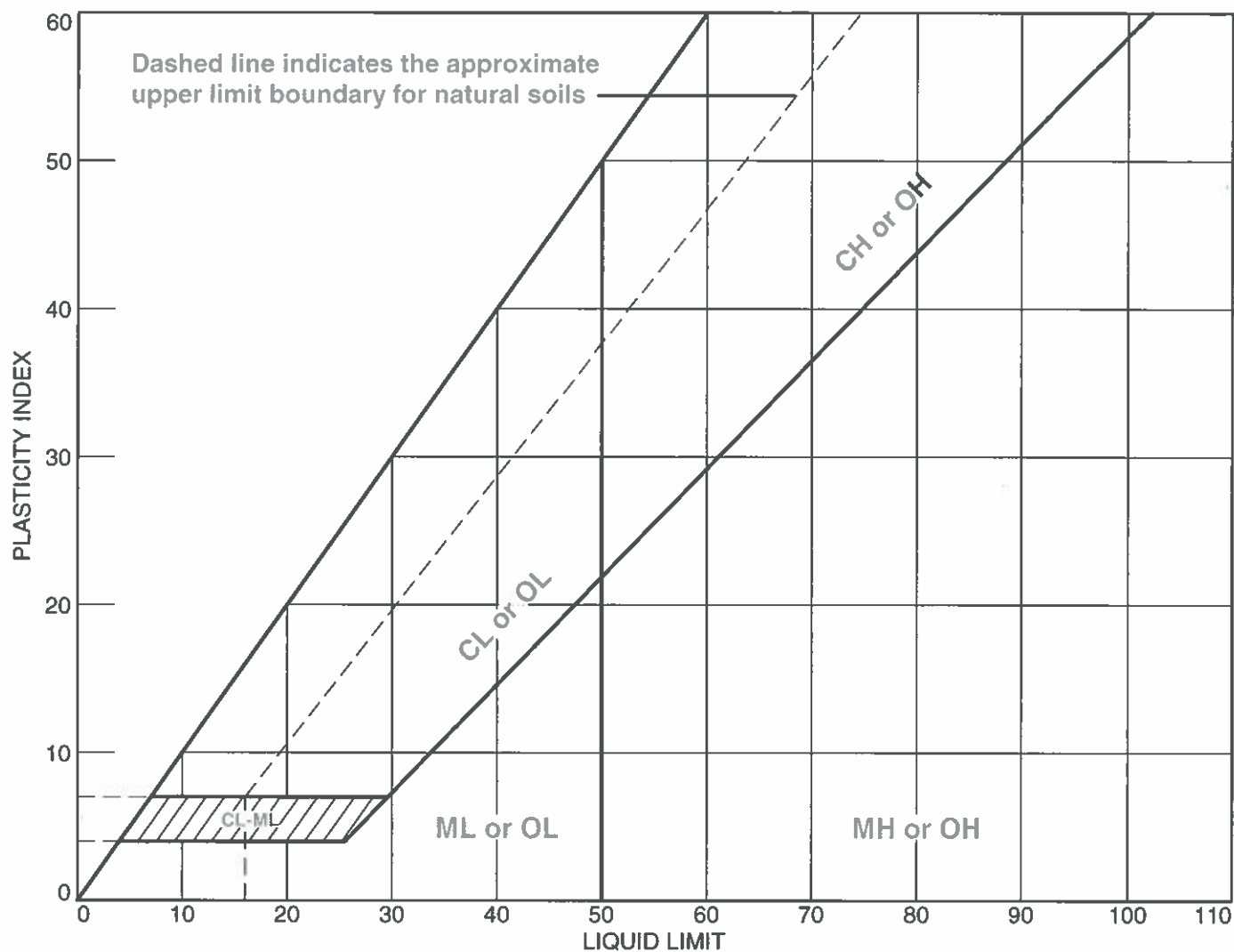
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-3 (3-6)	3.0'-6.0'	20.1	NP	NV	NP	ML

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

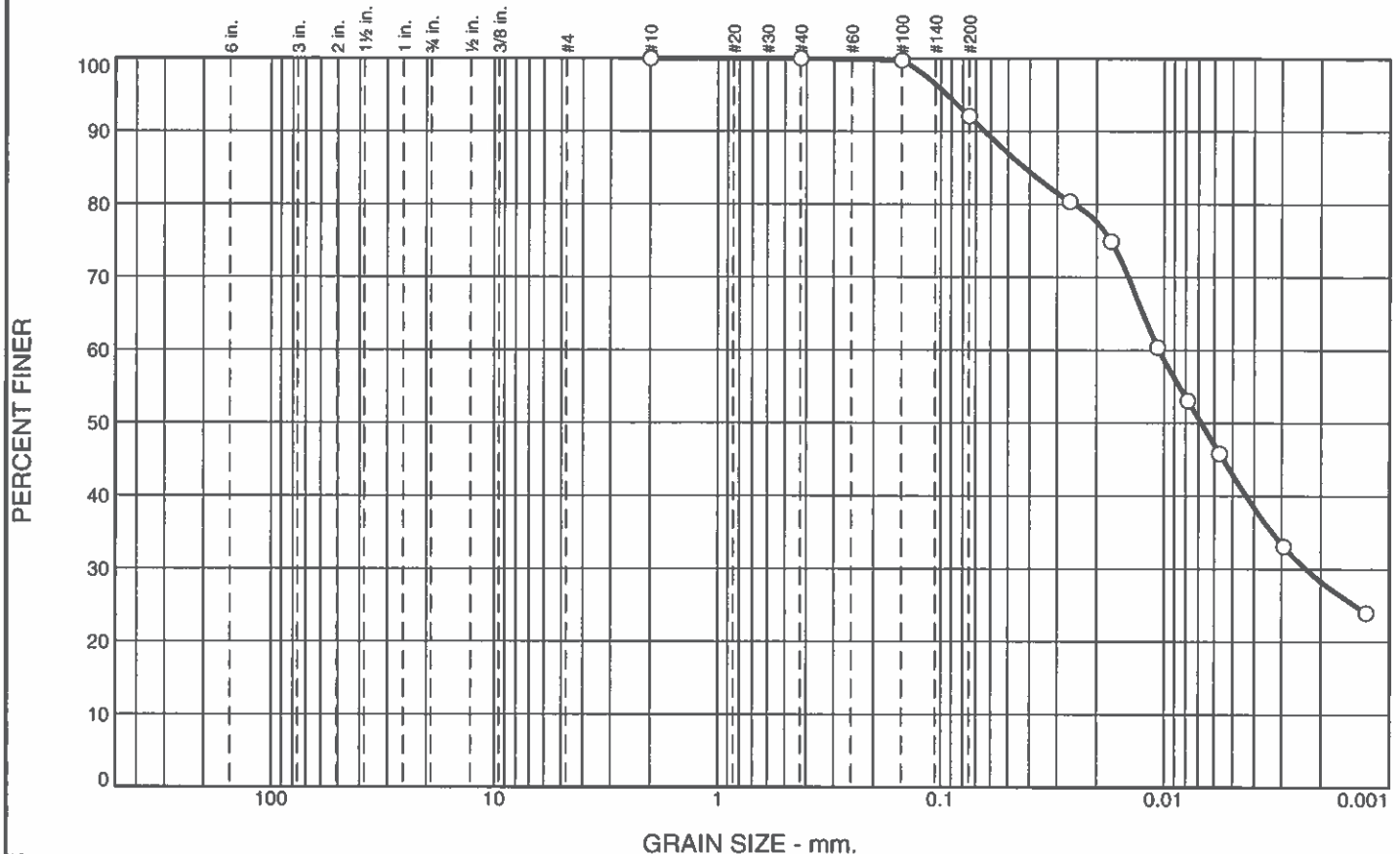
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	7.9	49.2	42.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	100.0		
#100	99.7		
#200	92.1		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

PL= 19 Atterberg Limits LL= 38 PI= 19

Coefficients
D₉₀= 0.0639 D₈₅= 0.0421 D₆₀= 0.0106
D₅₀= 0.0068 D₃₀= 0.0023 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(18)

Remarks
Munsell Color Code: 5YR 5/3
Location: Test Pit #3

Source of Sample: TP-Test Pits
Sample Number: TP-3 (8-10)

Depth: 8.0'-10.0'

Date: 11/29/2022

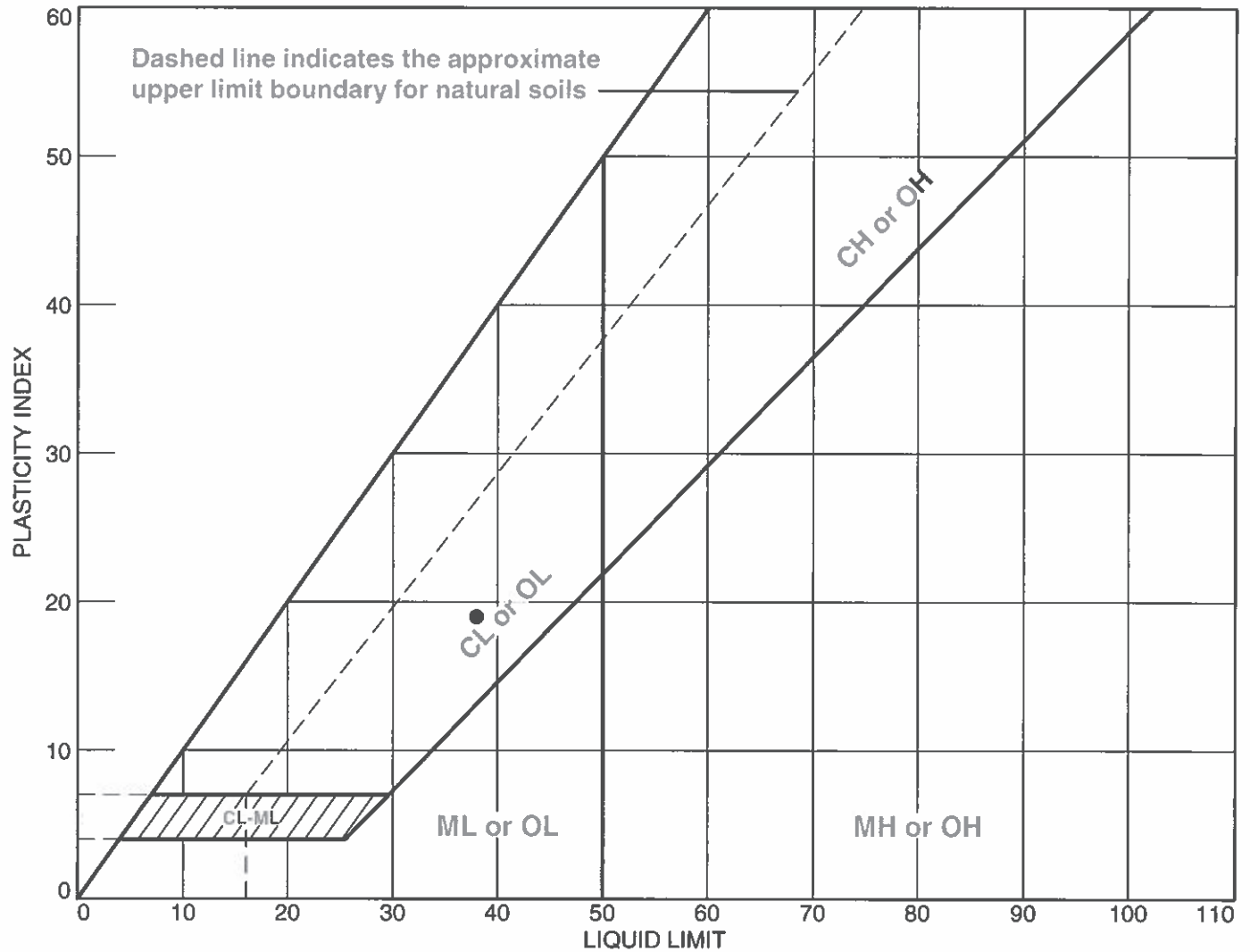
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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-3 (8-10)	8.0'-10.0'	35.5	19	38	19	CL

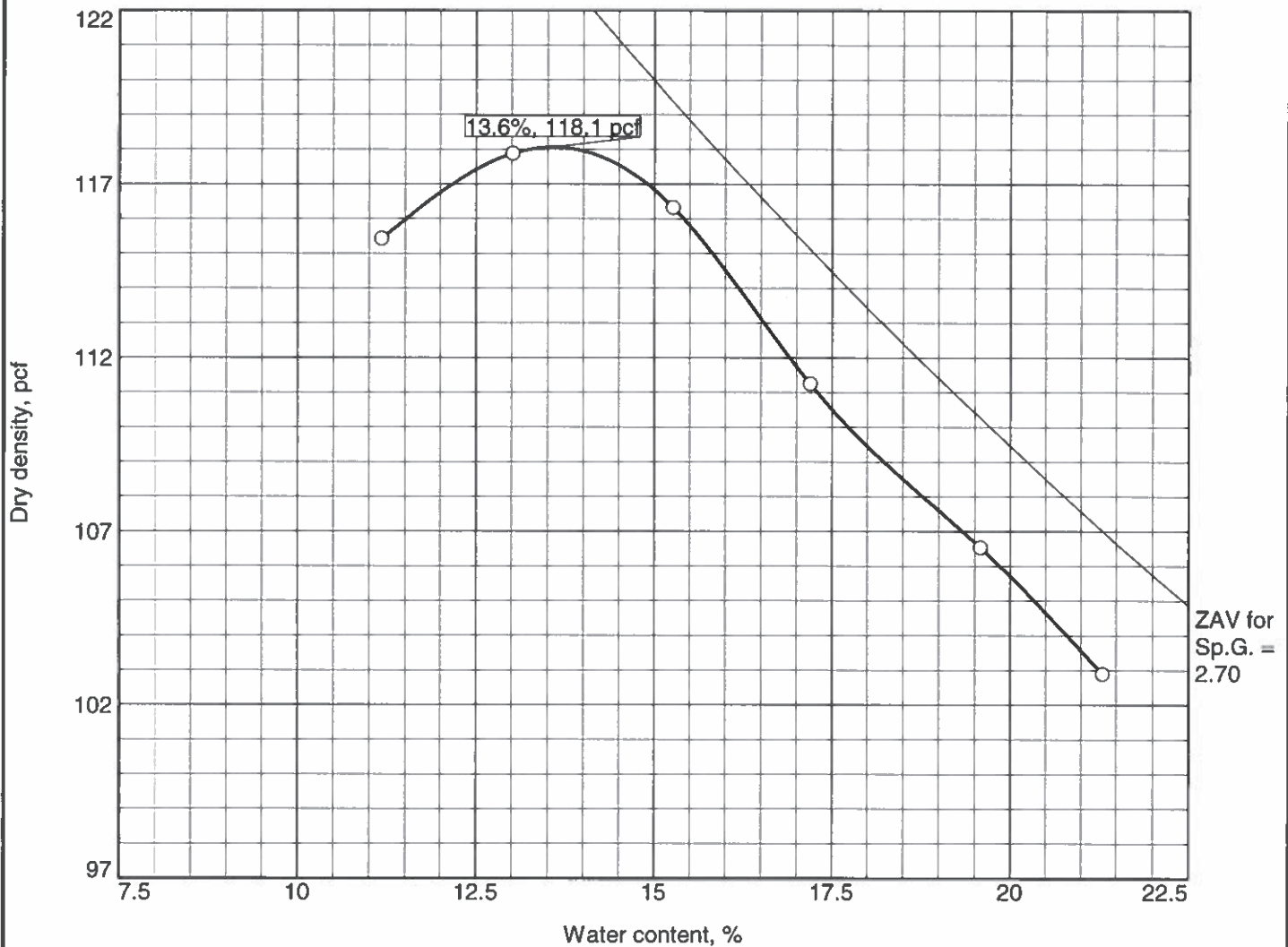
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
8.0'-10.0'	CL	A-6(18)	35.5	2.70	38	19	0.0	92.1

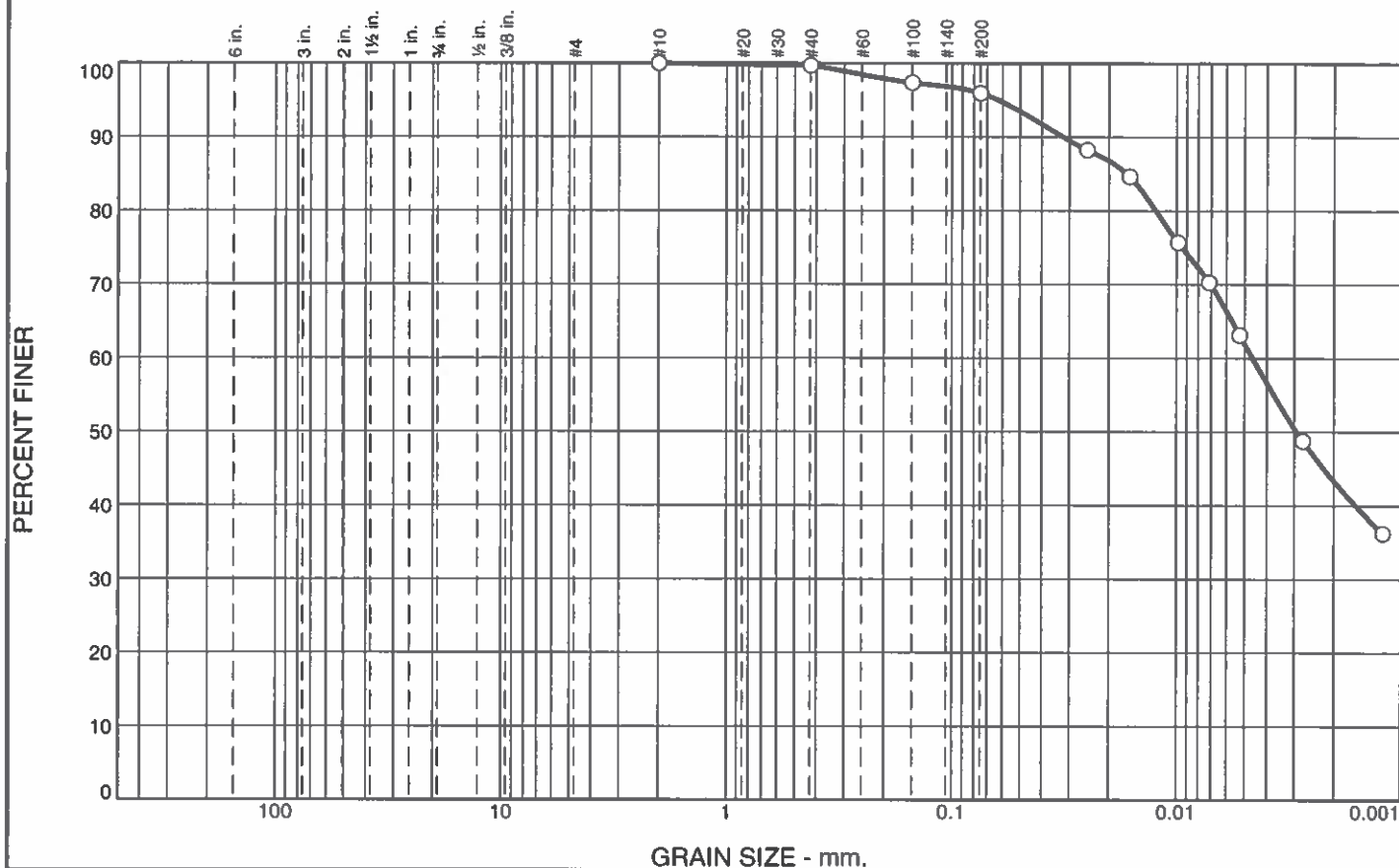
TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 118.1 pcf Optimum moisture = 13.6 %		LEAN CLAY, reddish brown
Project No. Client: Ayres Associates Project: Adams County Landfill North Borrow Area East Expansion ☐ Source of Sample: TP-Test Pits Sample Number: TP-3 (8-10)		Remarks:

Figure

Tested By: MRG

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	3.8	34.0	61.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.7		
#100	97.4		
#200	95.9		

* (no specification provided)

Material Description

LEAN CLAY, reddish gray

Atterberg Limits

PL= 17 LL= 35 PI= 18

Coefficients

D₉₀= 0.0320 D₈₅= 0.0166 D₆₀= 0.0046
D₅₀= 0.0029 D₃₀= C_u=
D₁₀= C_c=

Classification

USCS= CL AASHTO= A-6(17)

Remarks

Munsell Color Code: 5YR 5/2
Location: Test Pit #3

Source of Sample: TP-Test Pits
Sample Number: TP-3 (11-13)

Depth: 11.0'-13.0'

Date: 11/29/2022

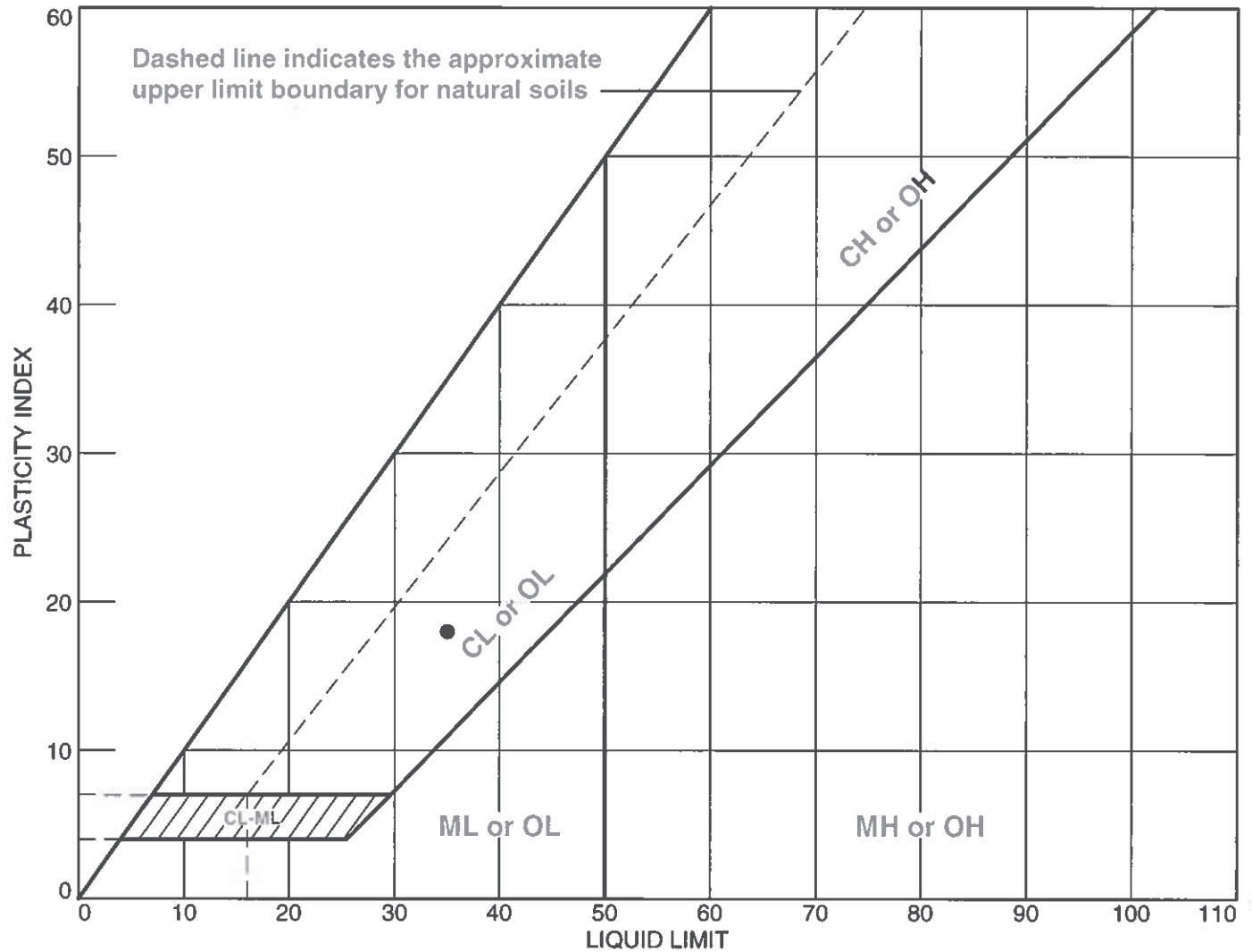
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: **Figure**

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-3 (11-13)	11.0'-13.0'	29.8	17	35	18	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

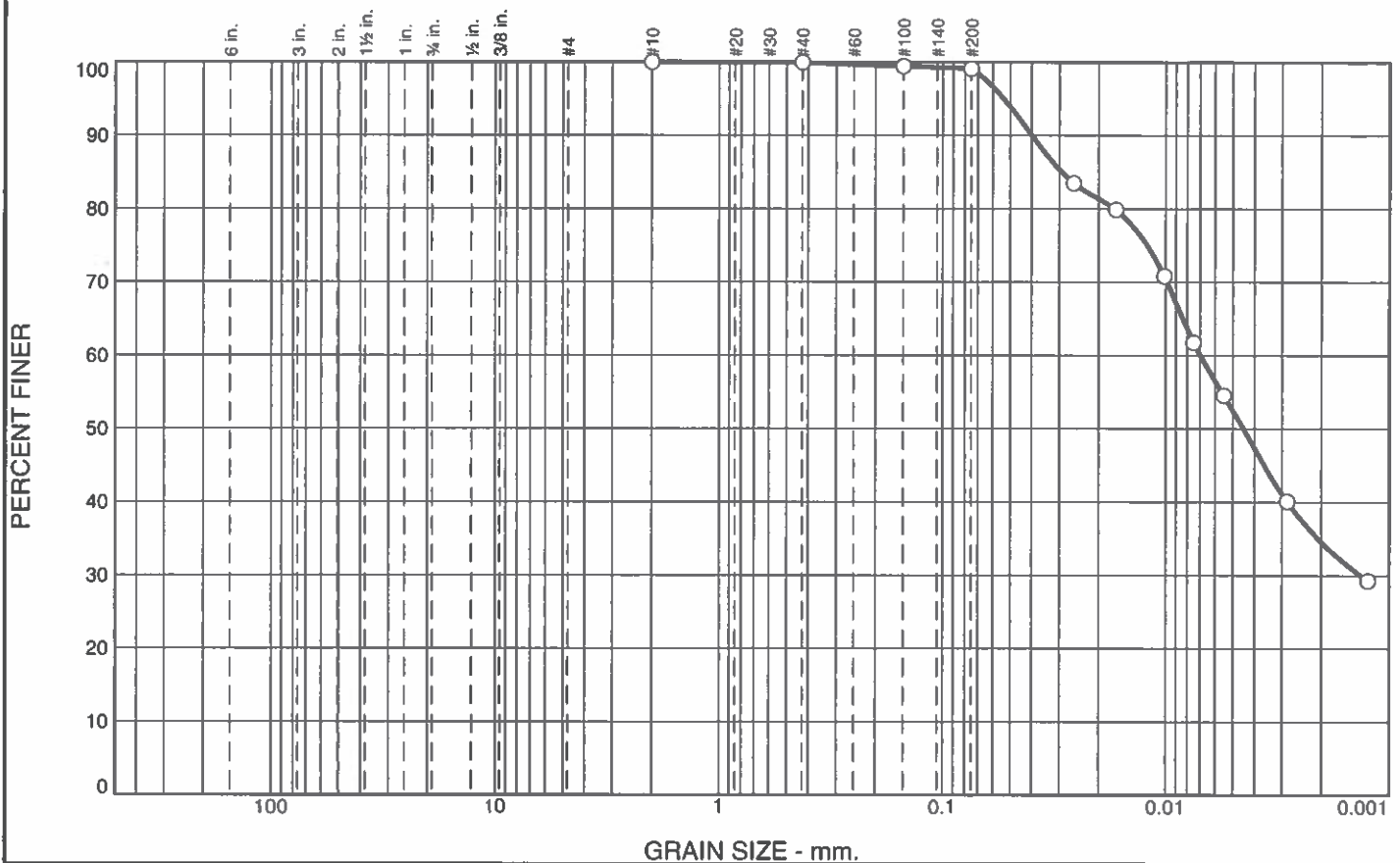
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	0.8	46.6	52.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.9		
#100	99.5		
#200	99.1		

(no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 17 LL= 35 PI= 18

Coefficients

D₉₀= 0.0400 D₈₅= 0.0293 D₆₀= 0.0070
D₅₀= 0.0045 D₃₀= 0.0013 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(18)

Remarks

Munsell Color Code: 5R 5/3
Location: Test Pit #4

Source of Sample: TP-Test Pits
Sample Number: TP-4 (9-11)

Depth: 9.0'-11.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

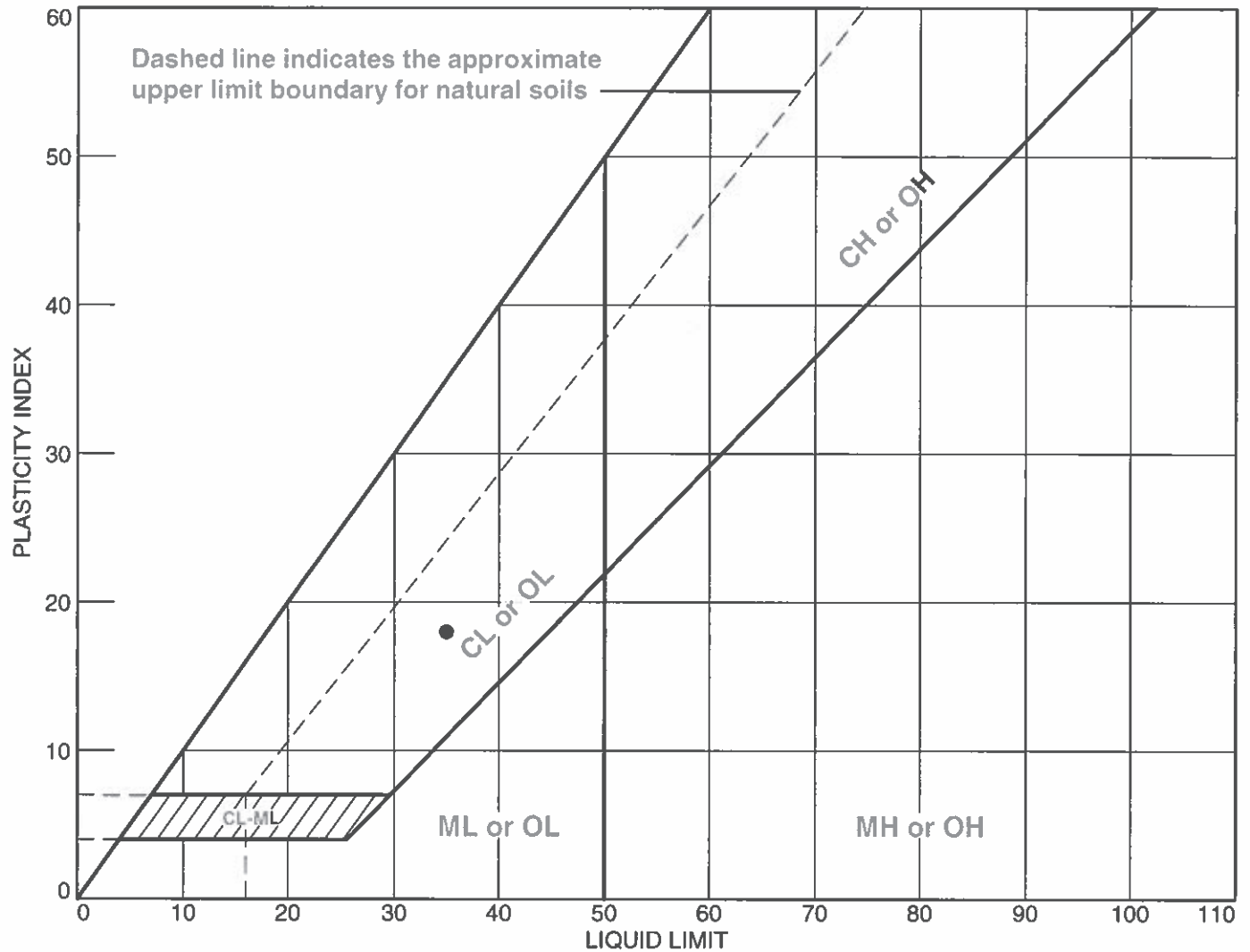
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-4 (9-11)	9.0'-11.0'	33.5	17	35	18	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

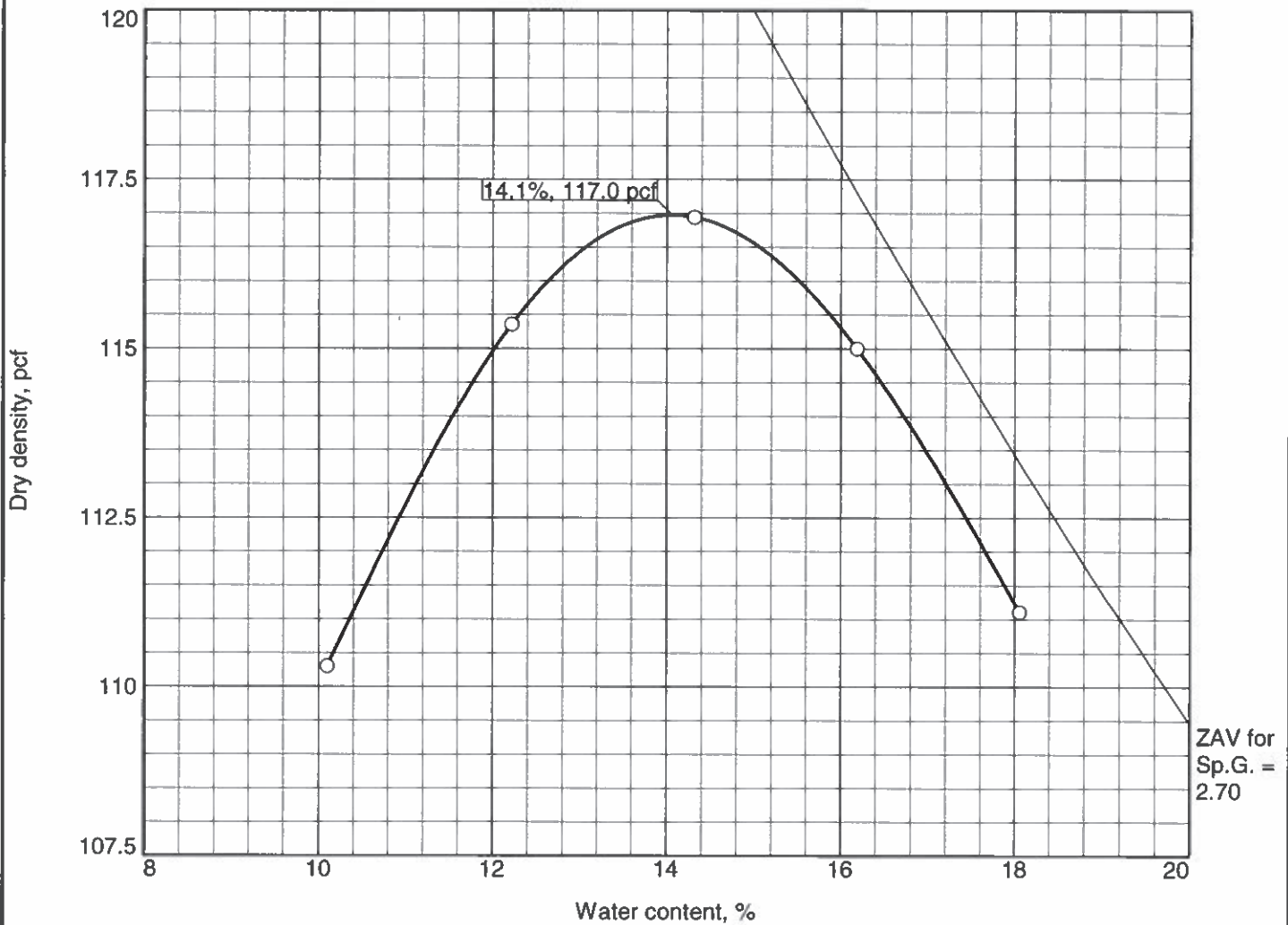
Project No.:

Figure

Tested By: JJN

Checked By: JJN

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
9.0'-11.0'	CL	A-6(18)	33.5	2.70	35	18	0.0	99.1

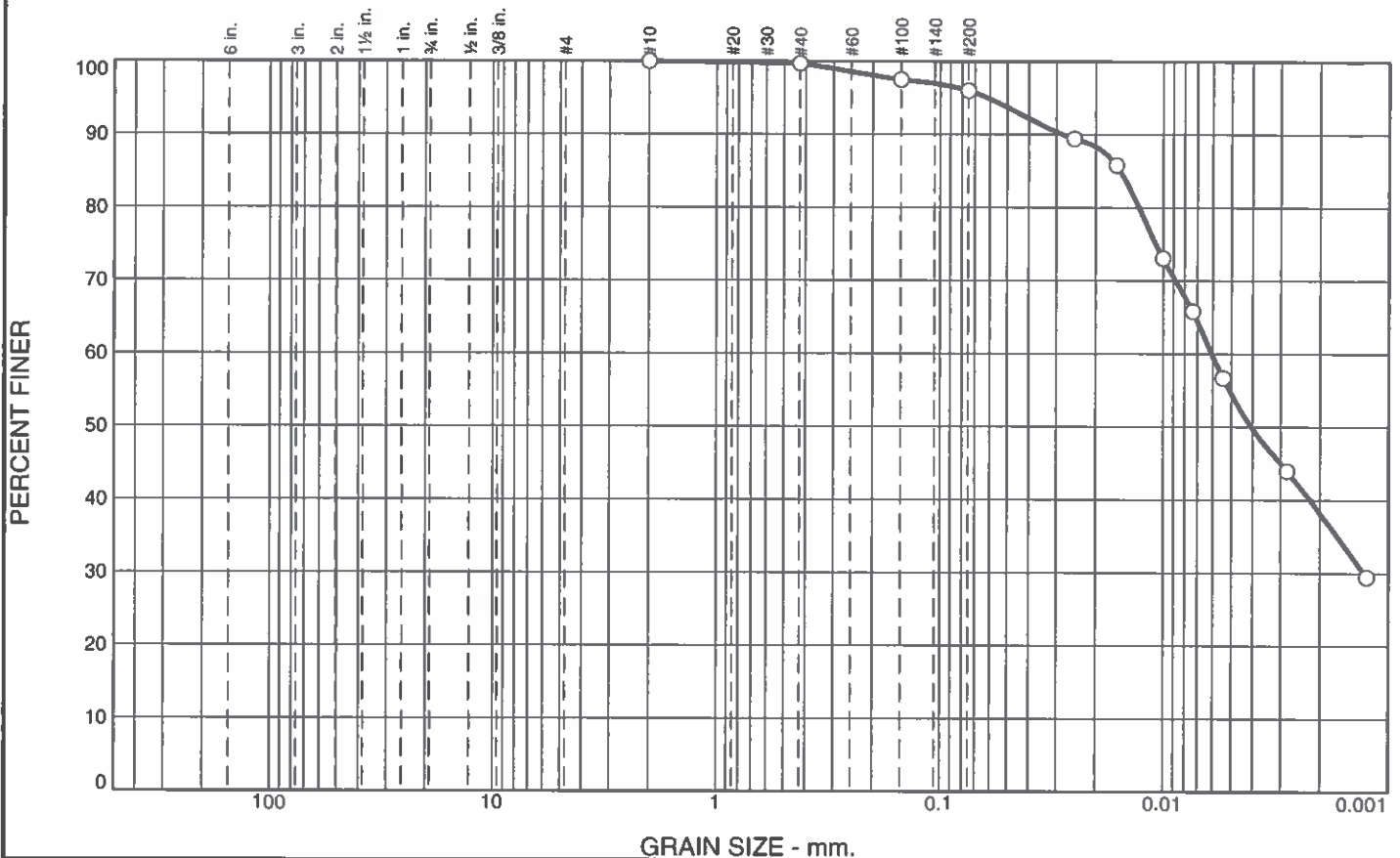
TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 117.0 pcf Optimum moisture = 14.1 %		LEAN CLAY, reddish brown
Project No. Client: Ayres Associates Project: Adams County Landfill North Borrow Area East Expansion Source of Sample: TP-Test Pits Sample Number: TP-4 (9-11)		Remarks:

Figure

Tested By: MRG

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	3.7	41.5	54.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.7		
#100	97.5		
#200	96.0		

(no specification provided)

Material Description

LEAN CLAY, reddish gray

Atterberg Limits

PL= 17 LL= 31 PI= 14

Coefficients

D₉₀= 0.0282 D₈₅= 0.0156 D₆₀= 0.0061
D₅₀= 0.0041 D₃₀= 0.0013 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(13)

Remarks

Munsell Color Code: 5YR 5/2
Location: Test Pit #4

Source of Sample: TP-Test Pits
Sample Number: TP-4 (11-12)

Depth: 11.0'-12.0'

Date: 11/29/2022

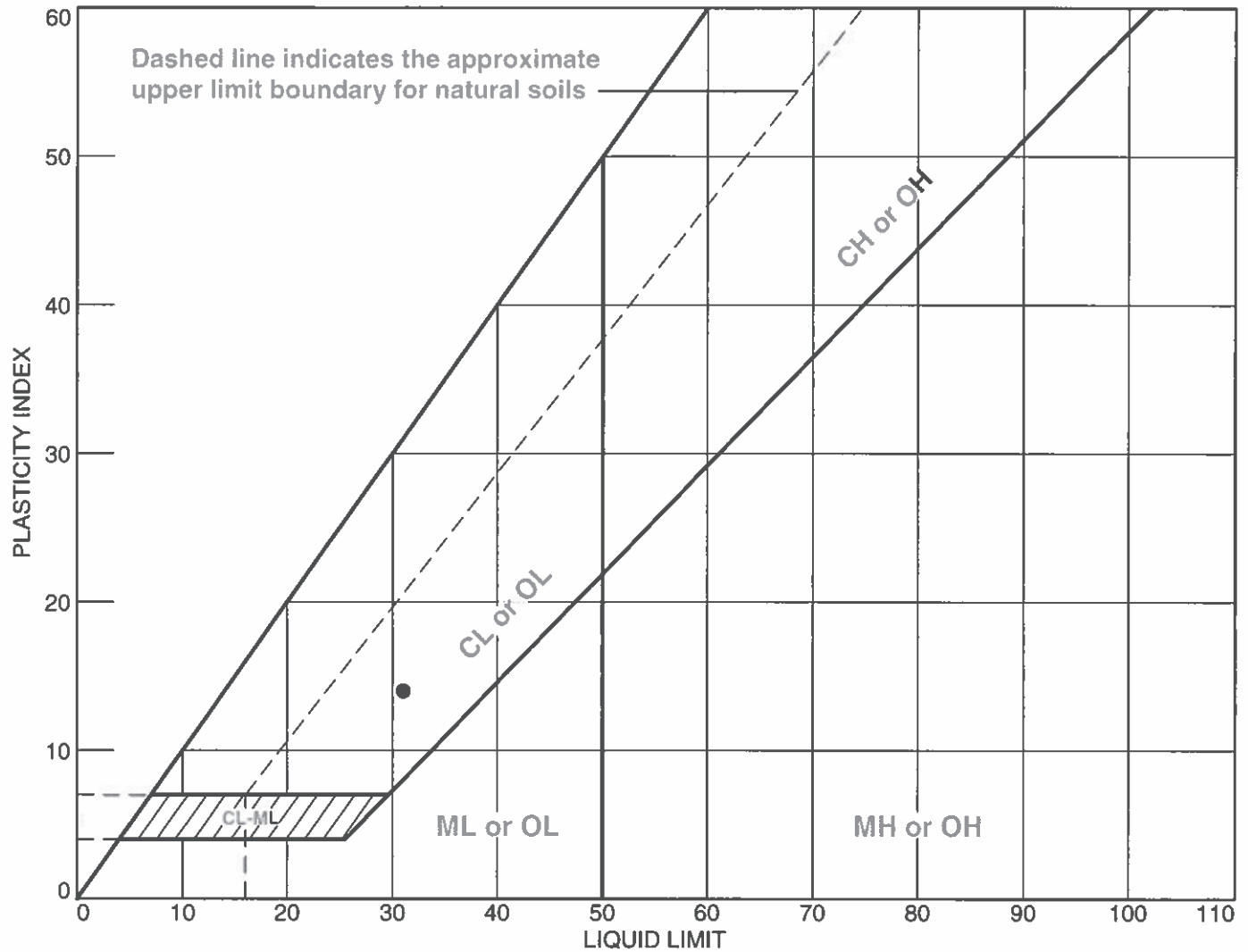
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-4 (11-12)	11.0'-12.0'	31.0	17	31	14	CL

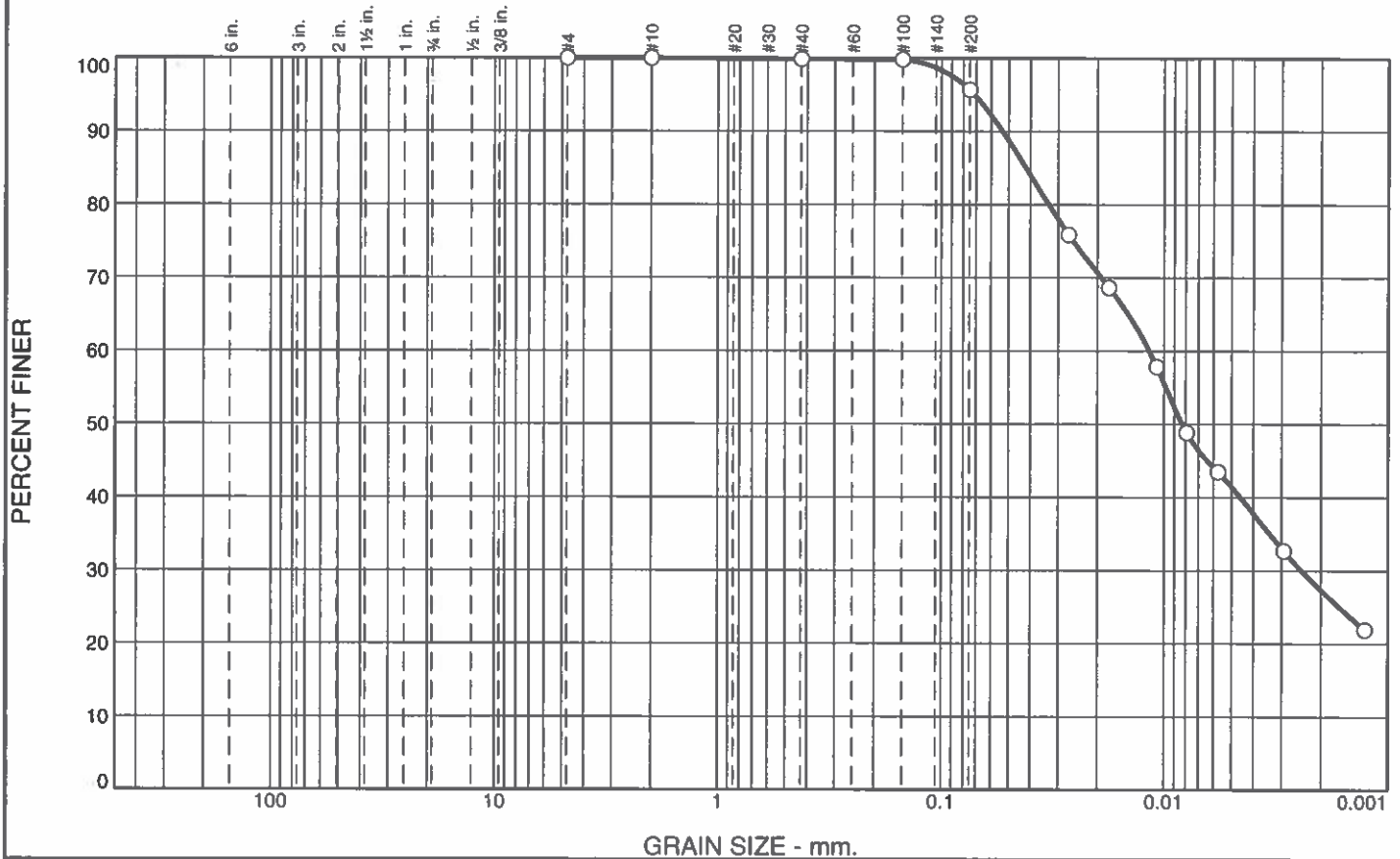
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	4.2	54.3	41.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.9		
#100	99.8		
#200	95.7		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

PL= 15 **Atterberg Limits** LL= 25 PI= 10

Coefficients
D₉₀= 0.0533 D₈₅= 0.0419 D₆₀= 0.0117
D₅₀= 0.0083 D₃₀= 0.0024 D₁₅=
D₁₀= C_u= C_c=

USCS= CL **Classification** AASHTO= A-4(8)

Remarks
Munsell Color Code: 5YR 5/3
Location: Test Pit #5

Source of Sample: TP-Test Pits
Sample Number: TP-5 (9-10)

Depth: 9.0'-10.0'

Date: 11/29/2022

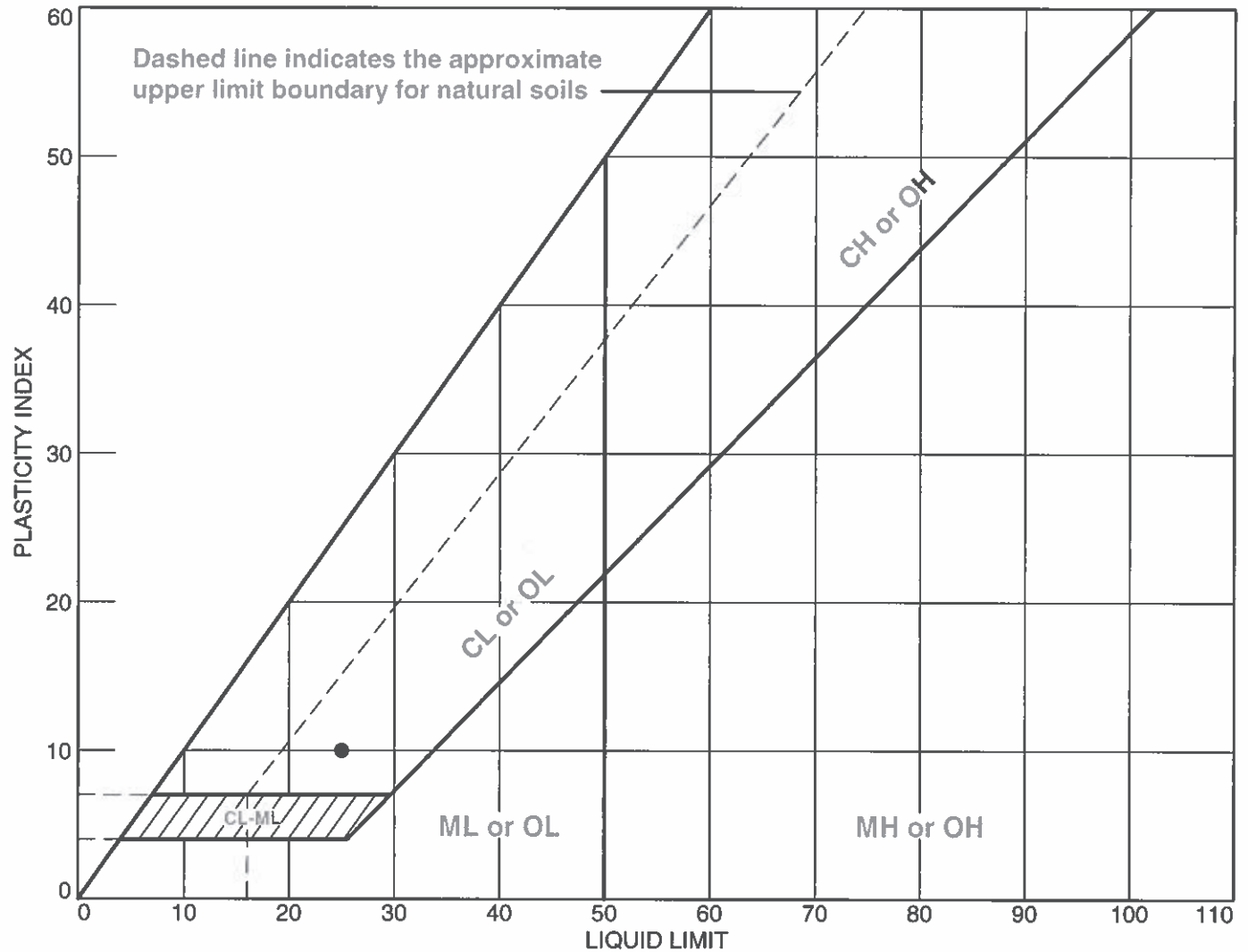
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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-5 (9-10)	9.0'-10.0'	26.4	15	25	10	CL

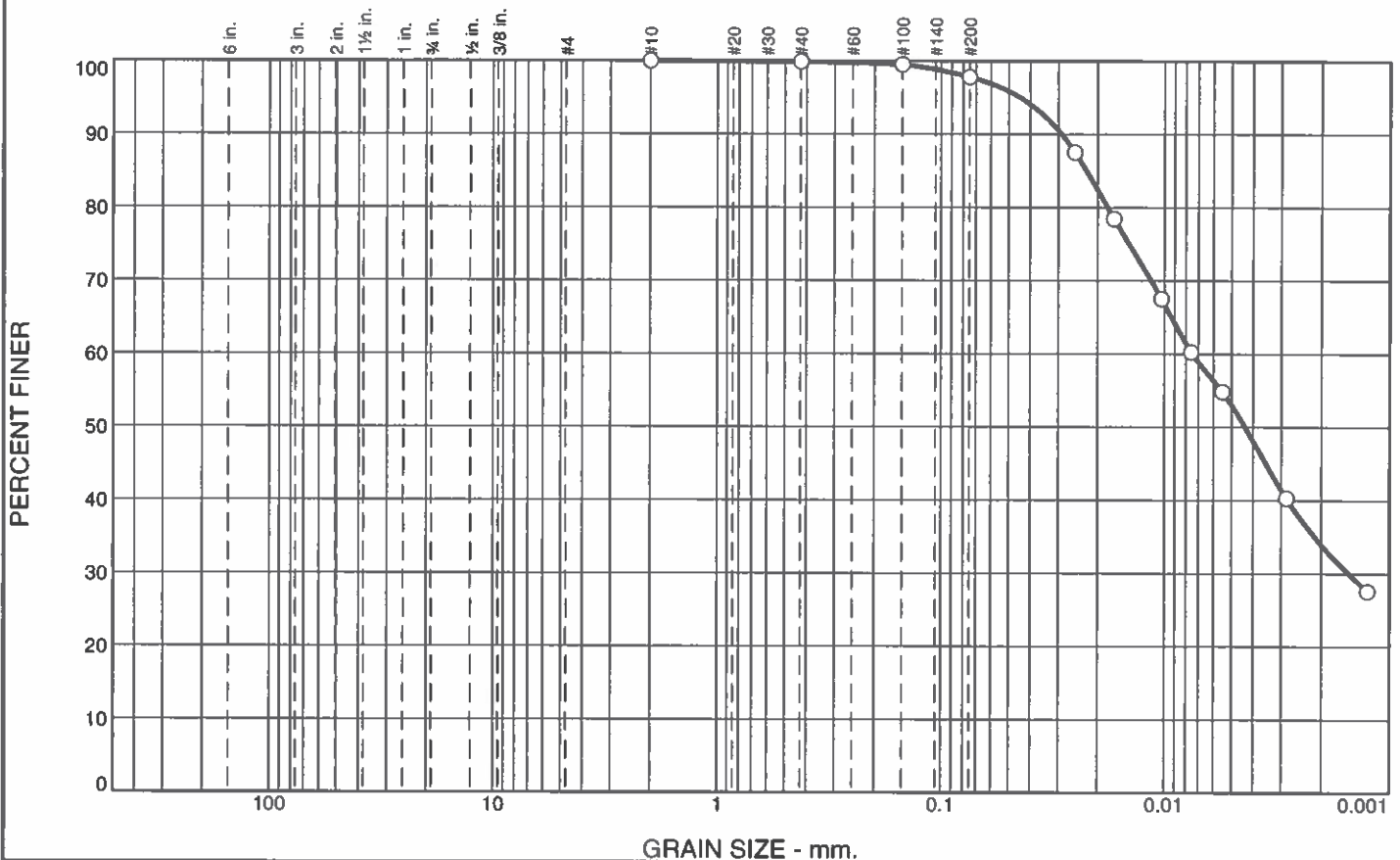
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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	2.1	44.8	53.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.9		
#100	99.5		
#200	97.8		

(no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 18 LL= 33 PI= 15

Coefficients

D₉₀= 0.0291 D₈₅= 0.0225 D₆₀= 0.0075
D₅₀= 0.0043 D₃₀= 0.0015 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(15)

Remarks

Munsell Color Code: 5YR 5/3
Location: Test Pit #5

Source of Sample: TP-Test Pits
Sample Number: TP-5 (10-11)

Depth: 10.0'-11.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

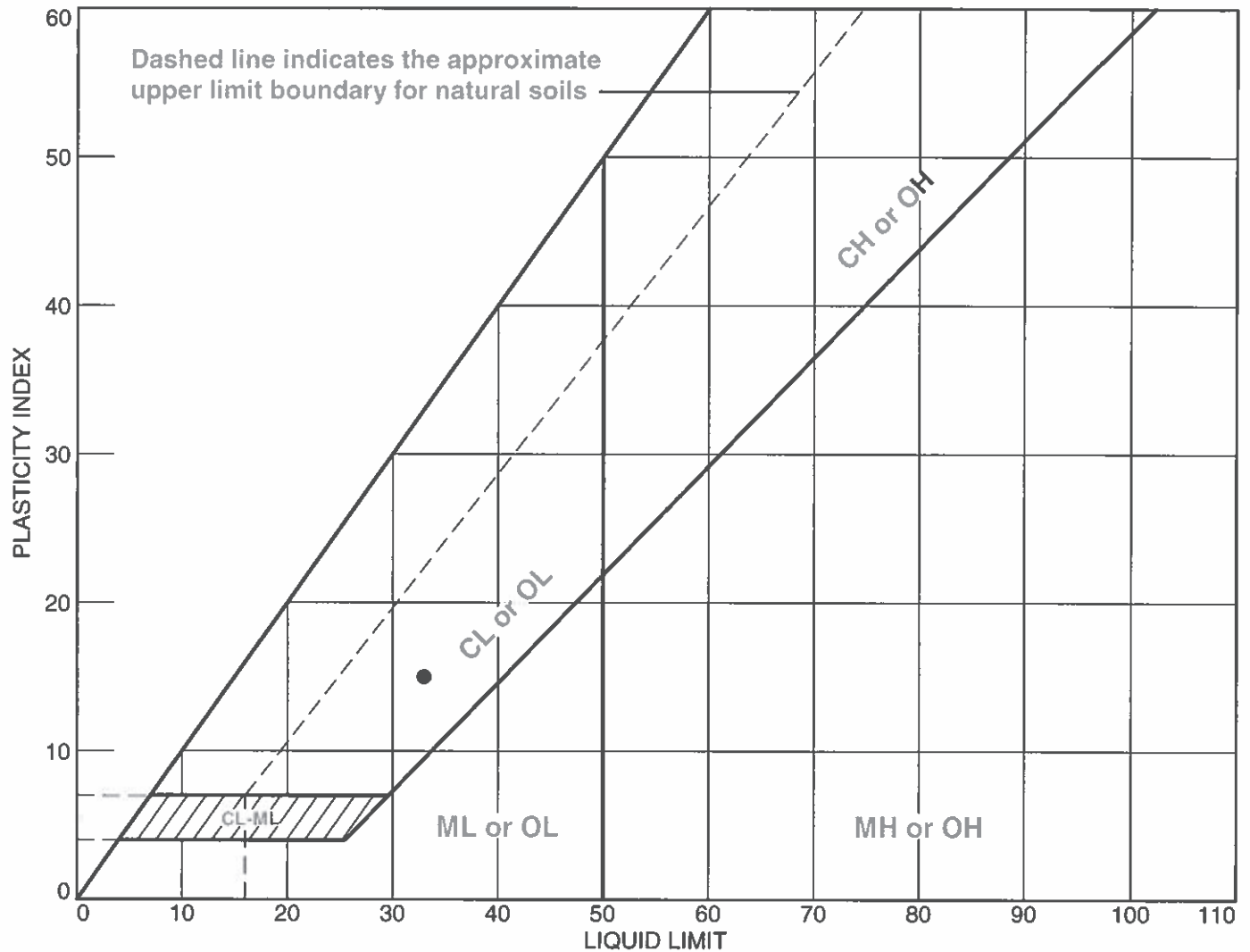
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-5 (10-11)	10.0'-11.0'	38.6	18	33	15	CL

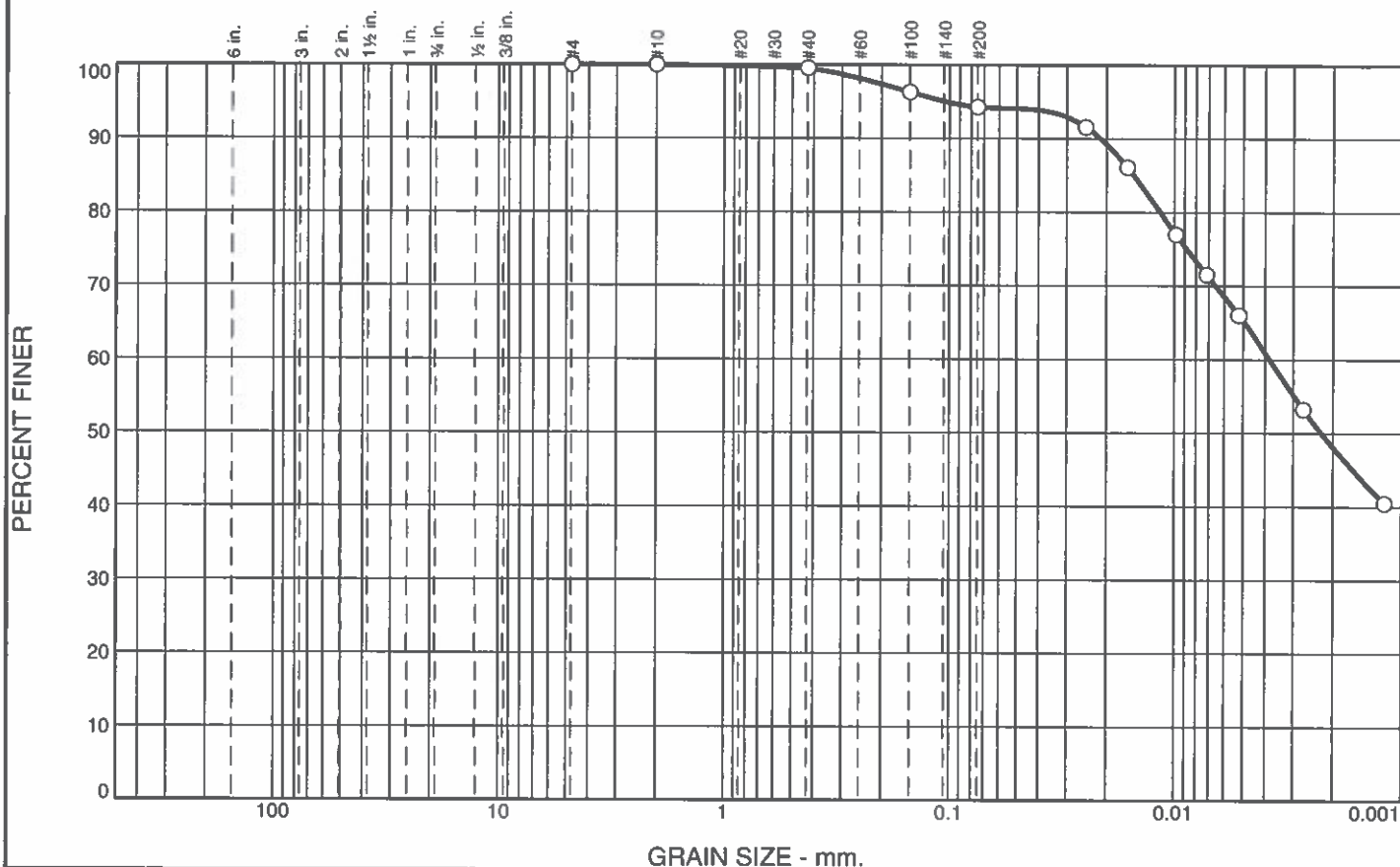
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.5	5.2	29.0	65.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.5		
#100	96.3		
#200	94.3		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 19 LL= 38 PI= 19

Coefficients

D₉₀= 0.0213 D₈₅= 0.0152 D₆₀= 0.0038
D₅₀= 0.0022 D₃₀= C_u= D₁₅=
D₁₀= C_c=

Classification

USCS= CL AASHTO= A-6(18)

Remarks

Munsell Color Code: 5YR 5/3
Location: Test Pit #5

Source of Sample: TP-Test Pits
Sample Number: TP-5 (11-13)

Depth: 11.0'-13.0'

Date: 11/29/2022

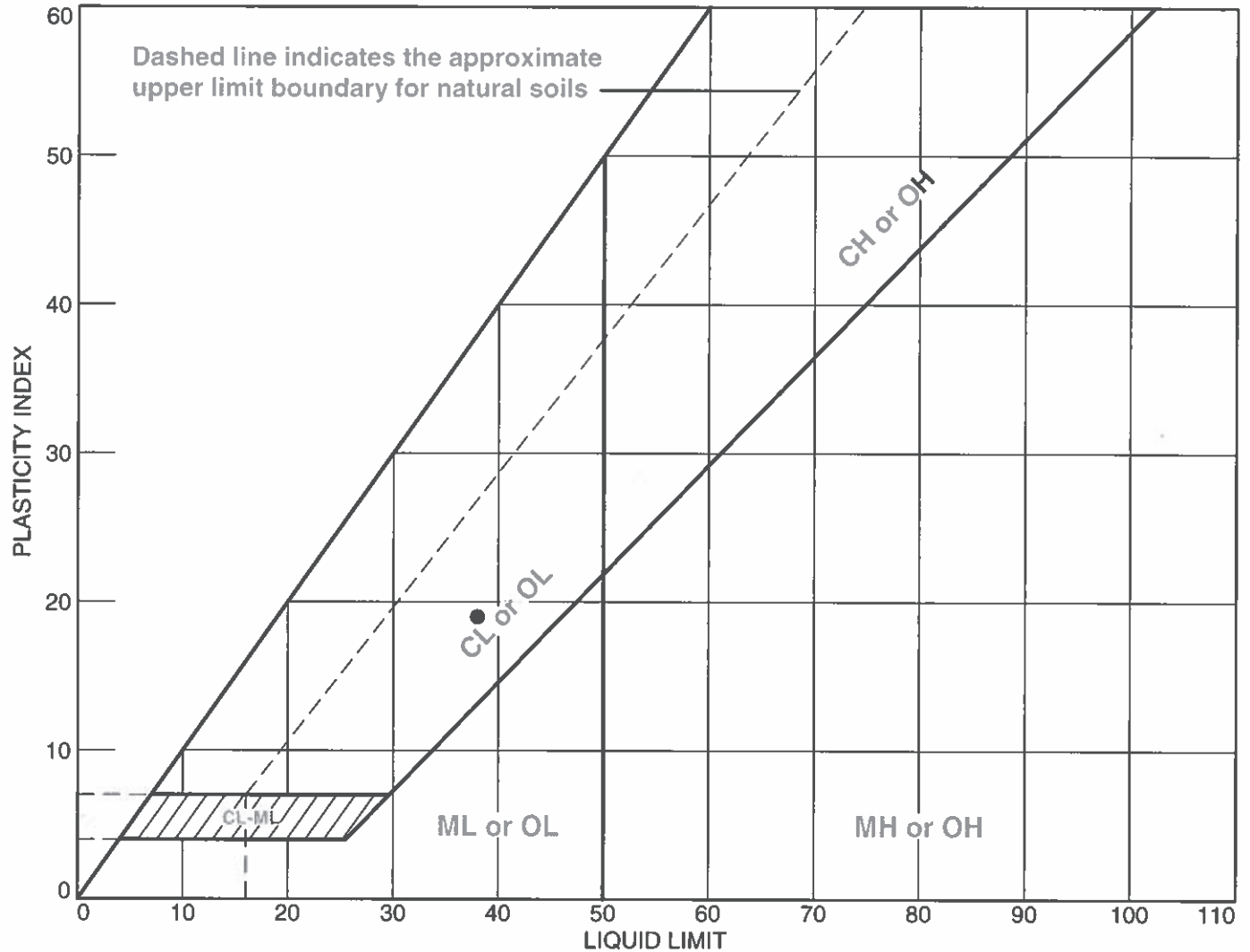
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: **Figure**

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



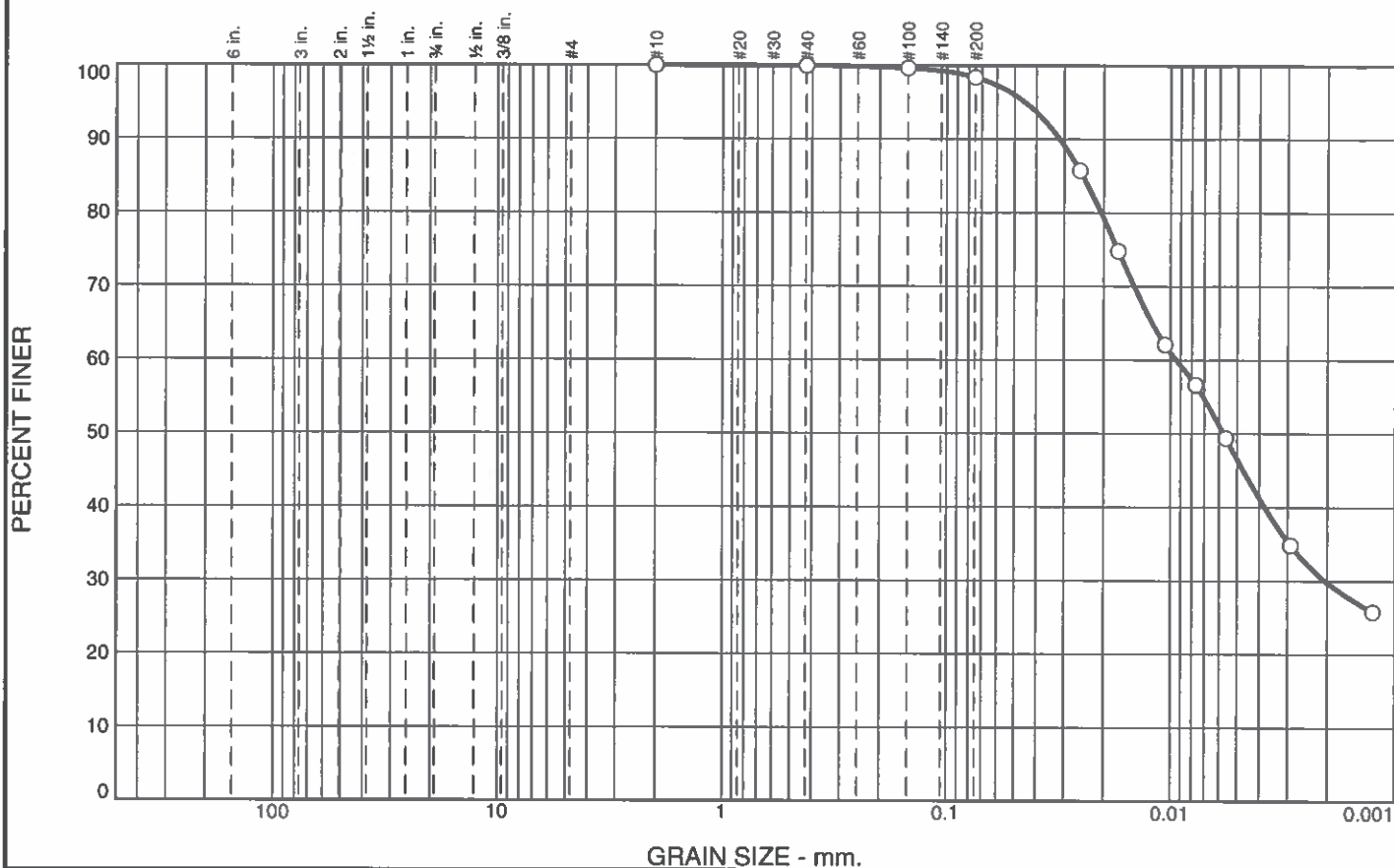
SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-5 (11-13)	11.0'-13.0'	31.0	19	38	19	CL

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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN **Checked By:** JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	1.6	51.9	46.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	100.0		
#100	99.6		
#200	98.4		

(no specification provided)

Material Description

LEAN CLAY, brown

Atterberg Limits

PL= 17 LL= 30 PI= 13

Coefficients

D₉₀= 0.0315 D₈₅= 0.0249 D₆₀= 0.0094
D₅₀= 0.0058 D₃₀= 0.0020 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(12)

Remarks

Munsell Color Code: 7.5YR 5/3
Location: Test Pit #6

Source of Sample: TP-Test Pits
Sample Number: TP-6 (1-2)

Depth: 1.0'-2.0'

Date: 11/29/2022

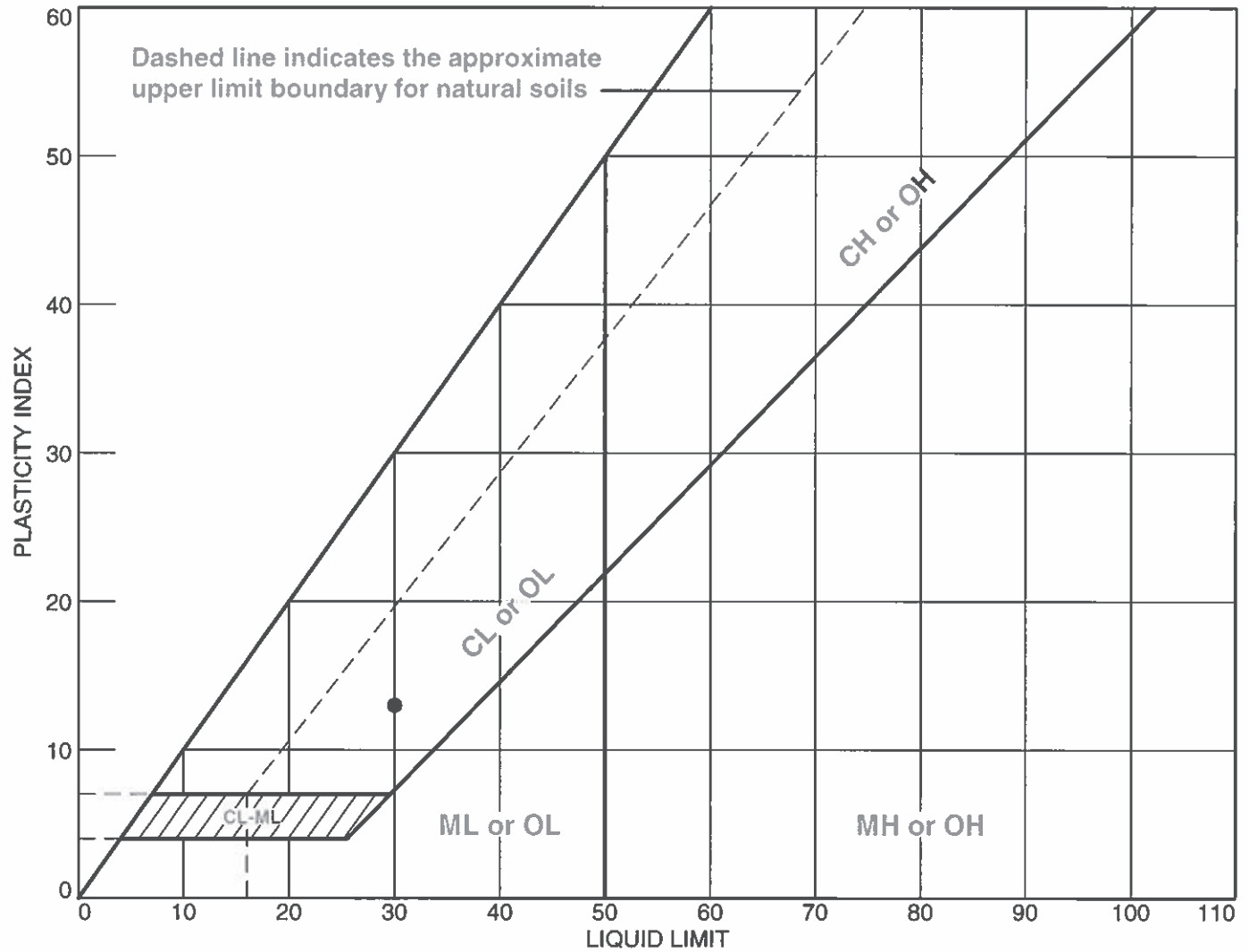
Tetra Tech
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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-6 (1-2)	1.0'-2.0'	28.3	17	30	13	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

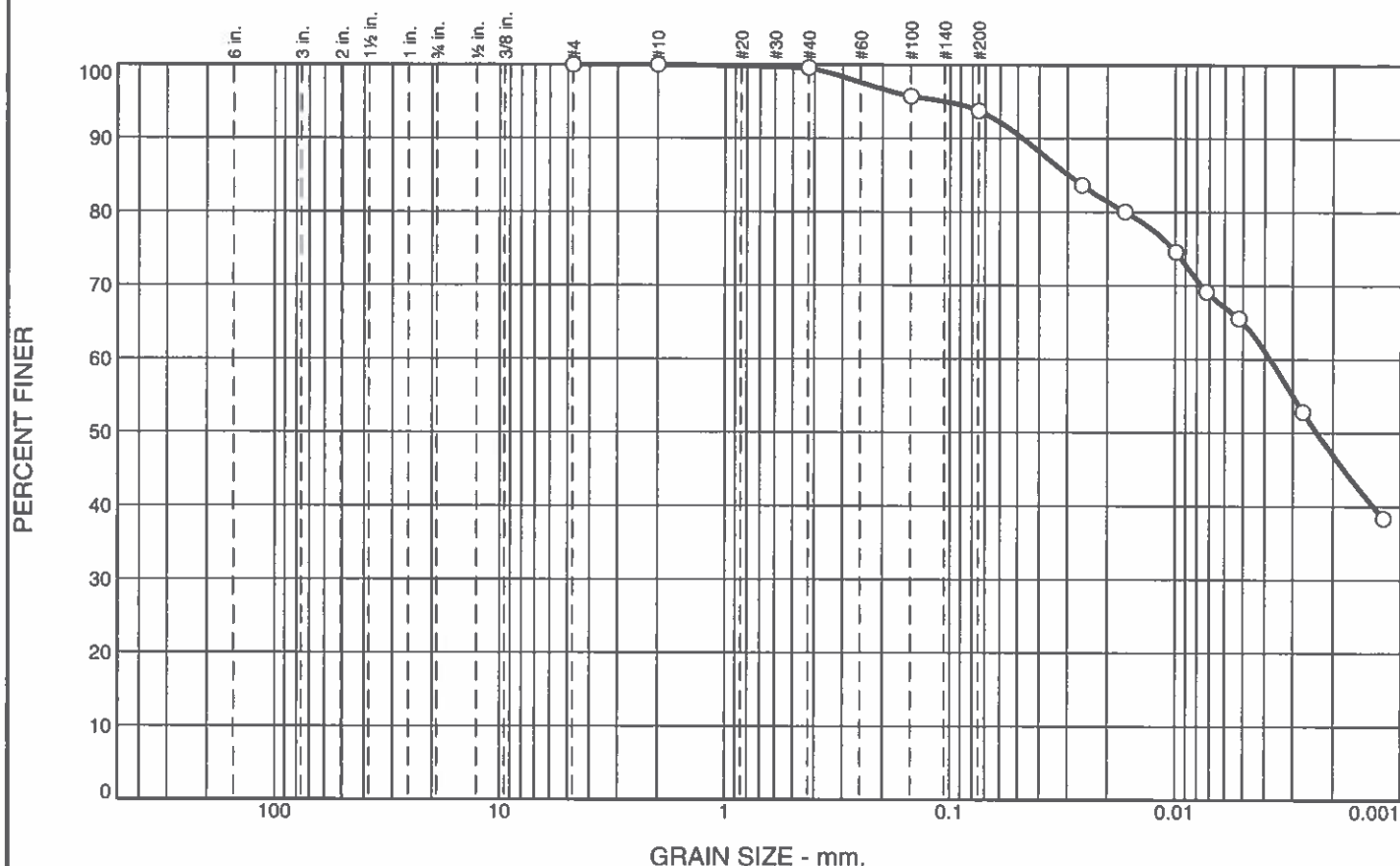
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.4	5.8	28.8	65.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.6		
#100	95.7		
#200	93.8		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 18 LL= 39 PI= 21

Coefficients

D₉₀= 0.0476 D₈₅= 0.0297 D₆₀= 0.0038
D₅₀= 0.0023 D₃₀= C_u=
D₁₀= C_c=

Classification

USCS= CL AASHTO= A-6(20)

Remarks

Munsell Color Code: 5YR 4/3
Location: Test Pit #6

Source of Sample: TP-Test Pits
Sample Number: TP-6 (5-7)

Depth: 5.0'-7.0'

Date: 11/29/2022

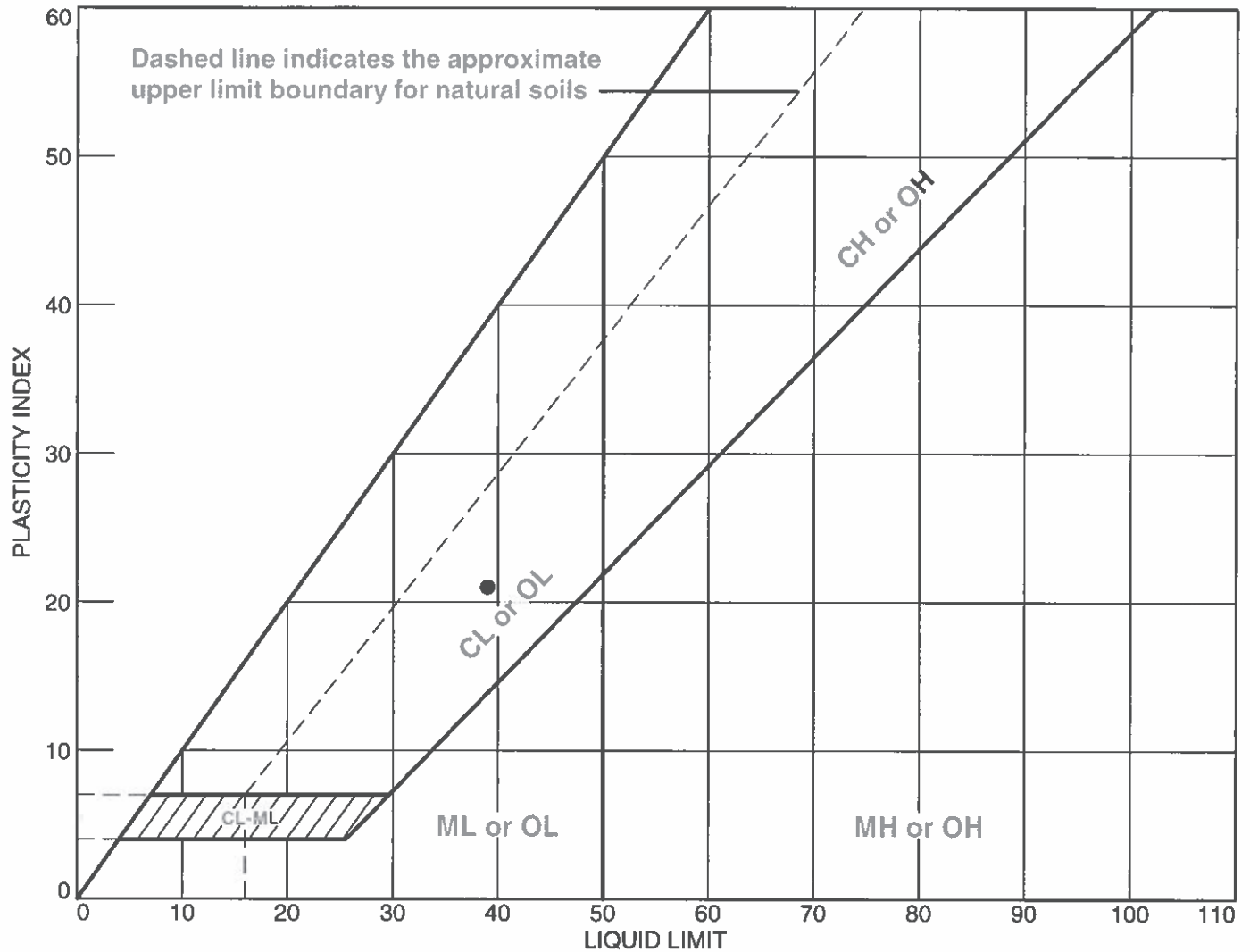
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-6 (5-7)	5.0'-7.0'	28.6	18	39	21	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

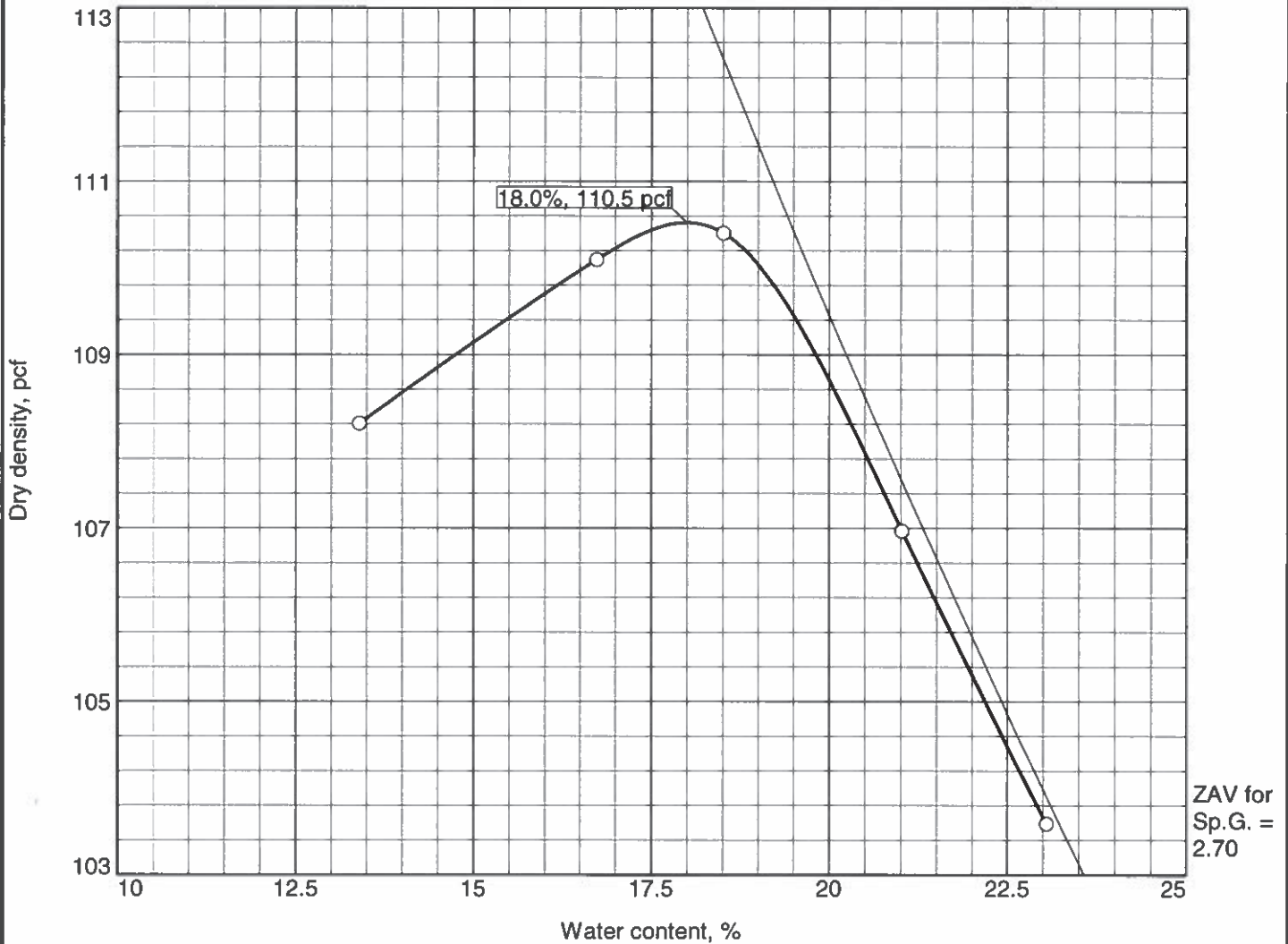
Project No.:

Figure

Tested By: JJN

Checked By: JJN

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method A Modified

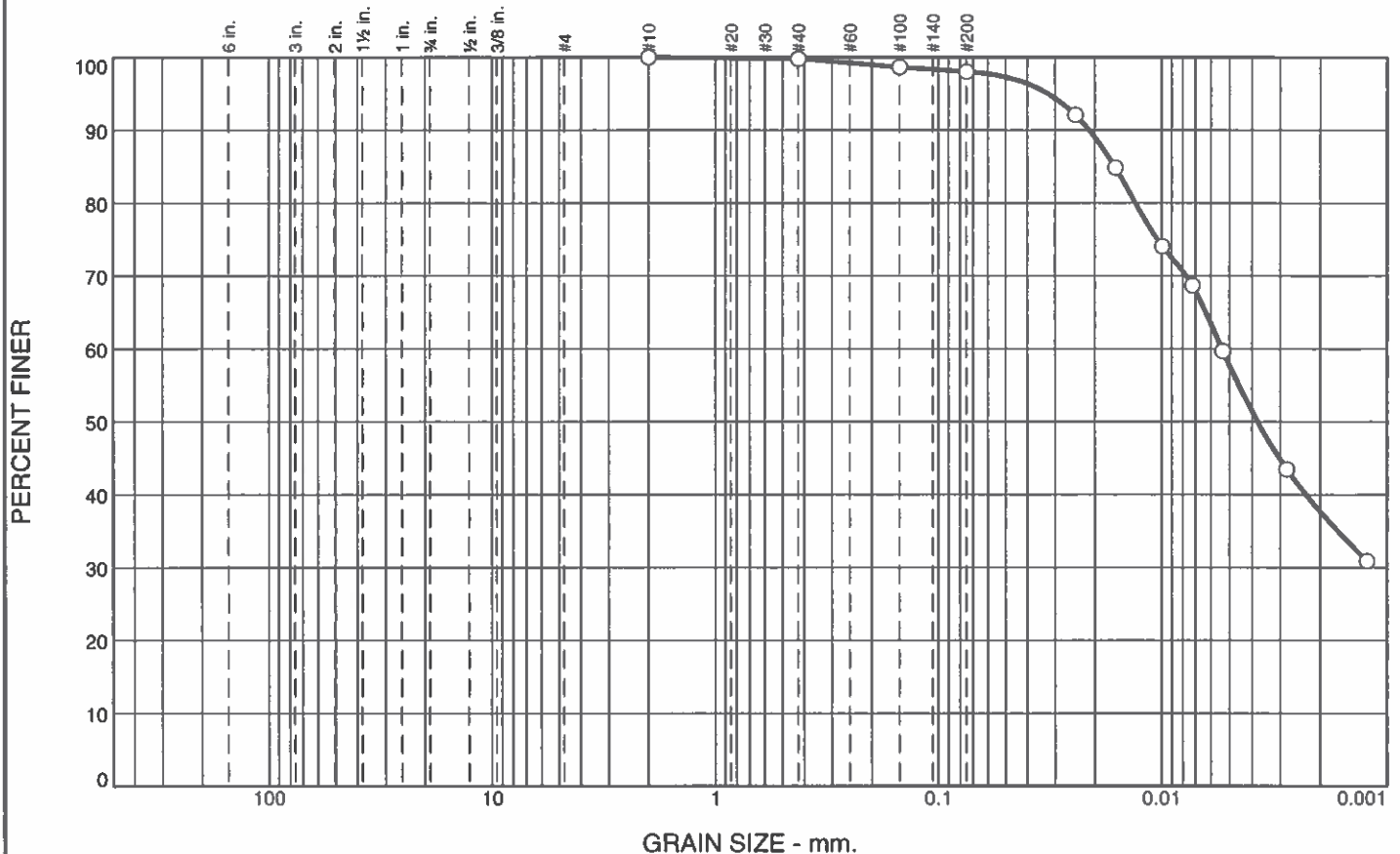
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
5.0'-7.0'	CL	A-6(20)	28.6	2.70	39	21	0.0	93.8

TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 110.5 pcf Optimum moisture = 18.0 %		LEAN CLAY, reddish brown
Project No. _____ Client: Ayres Associates Project: Adams County Landfill North Borrow Area East Expansion ☐ Source of Sample: TP-Test Pits Sample Number: TP-6 (5-7)		Remarks: <

Figure

Tested By: MRG Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.2	1.8	40.4	57.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.8		
#100	98.6		
#200	98.0		

* (no specification provided)

Material Description
LEAN CLAY, reddish brown

Atterberg Limits
PL= 18 LL= 33 PI= 15

Coefficients
D₉₀= 0.0212 D₈₅= 0.0163 D₆₀= 0.0054
D₅₀= 0.0038 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(15)

Remarks
Munsell Color Code: 5YR 5/3
Location: Test Pit #7

Source of Sample: TP-Test Pits
Sample Number: TP-7 (8-10)

Depth: 8.0'-10.0'

Date: 11/29/2022

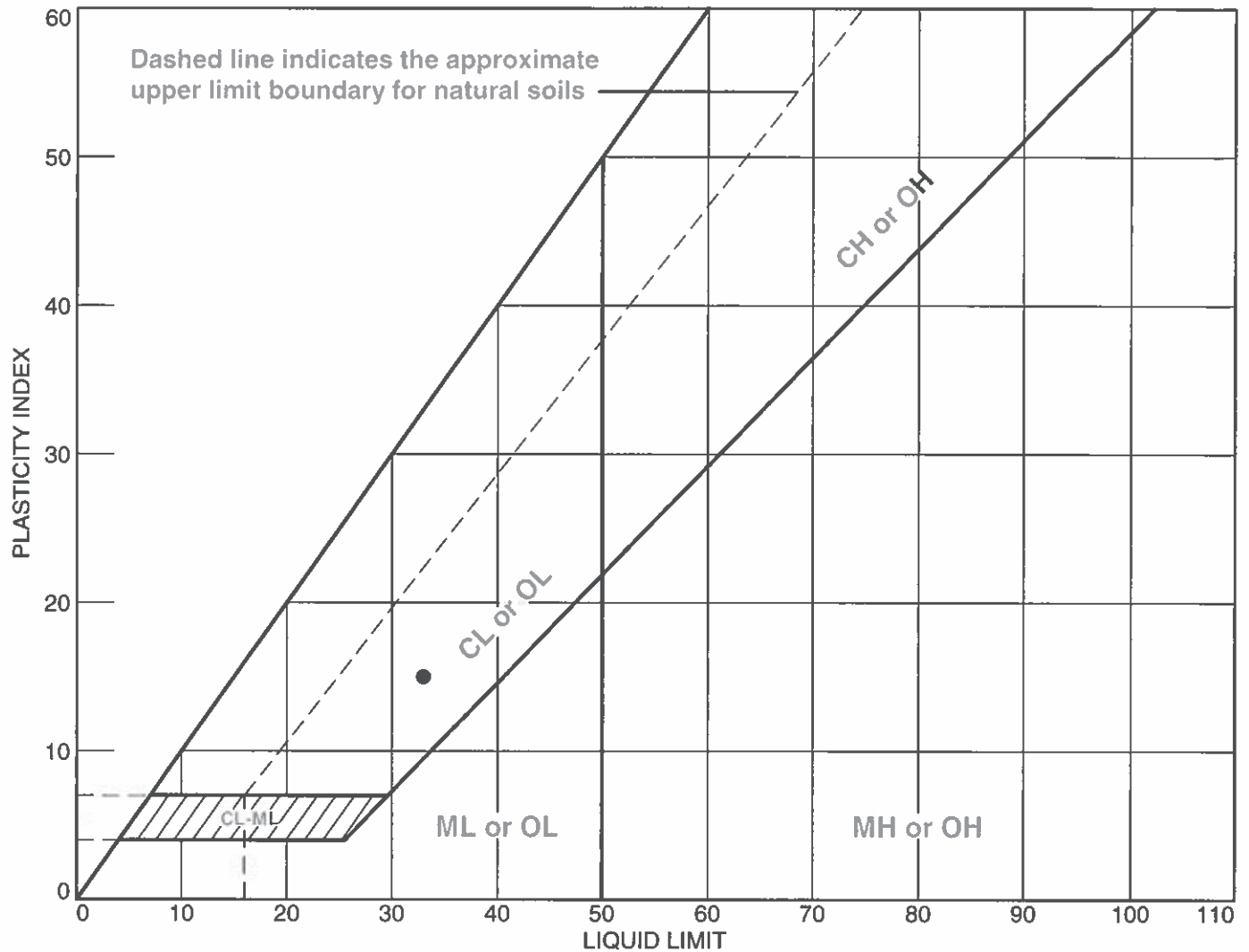
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-7 (8-10)	8.0'-10.0'	29.6	18	33	15	CL

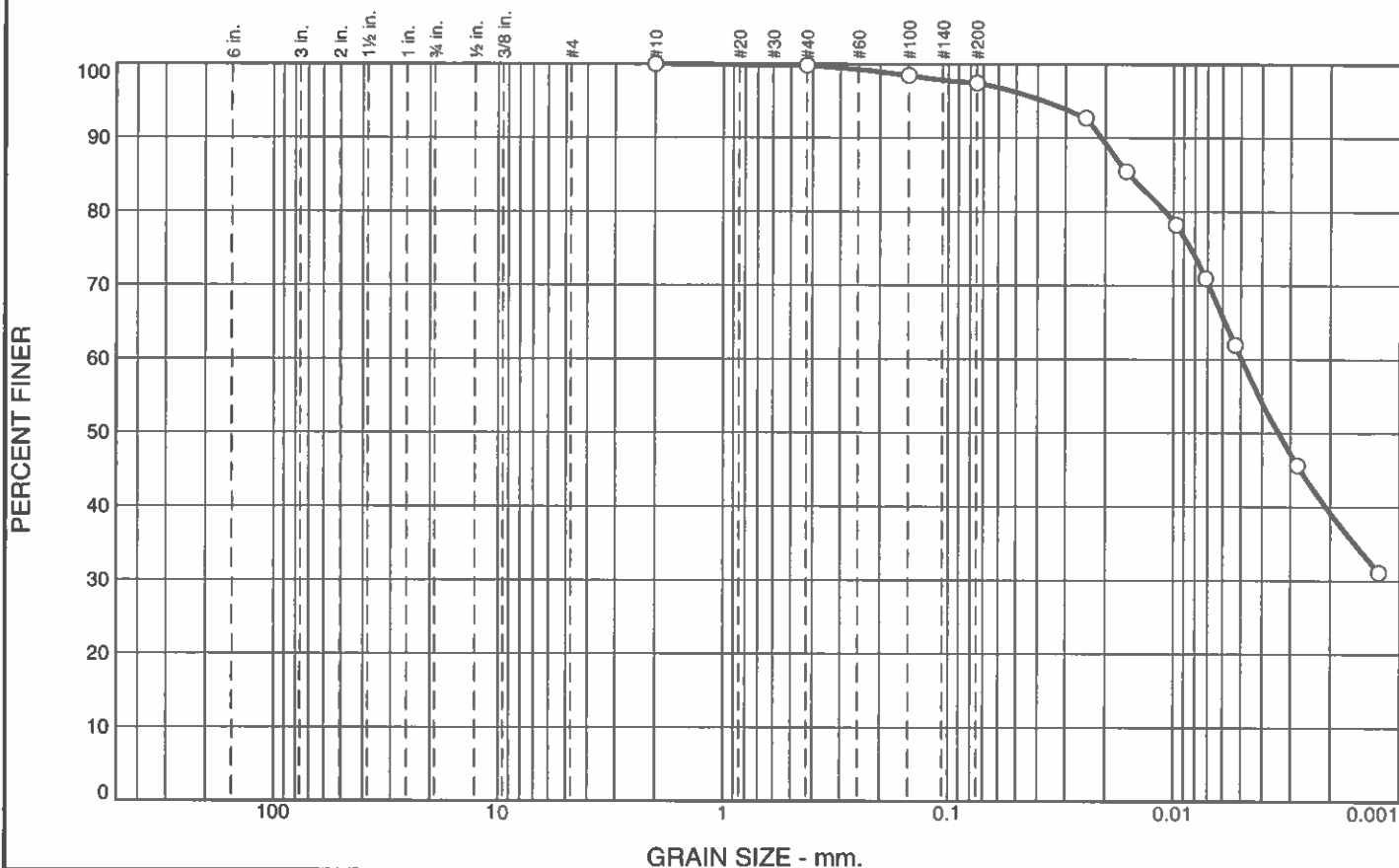
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.:
Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.2	2.3	37.3	60.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.8		
#100	98.5		
#200	97.5		

(no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 18 LL= 33 PI= 15

Coefficients

D₉₀= 0.0209 D₈₅= 0.0157 D₆₀= 0.0050
D₅₀= 0.0034 D₃₀= C_u=
D₁₀= C_c=

Classification

USCS= CL AASHTO= A-6(15)

Remarks

Munsell Color Code: 5YR 5/3
Location: Test Pit #7

Source of Sample: TP-Test Pits
Sample Number: TP-7 (11-13)

Depth: 11.0'-13.0'

Date: 11/29/2022

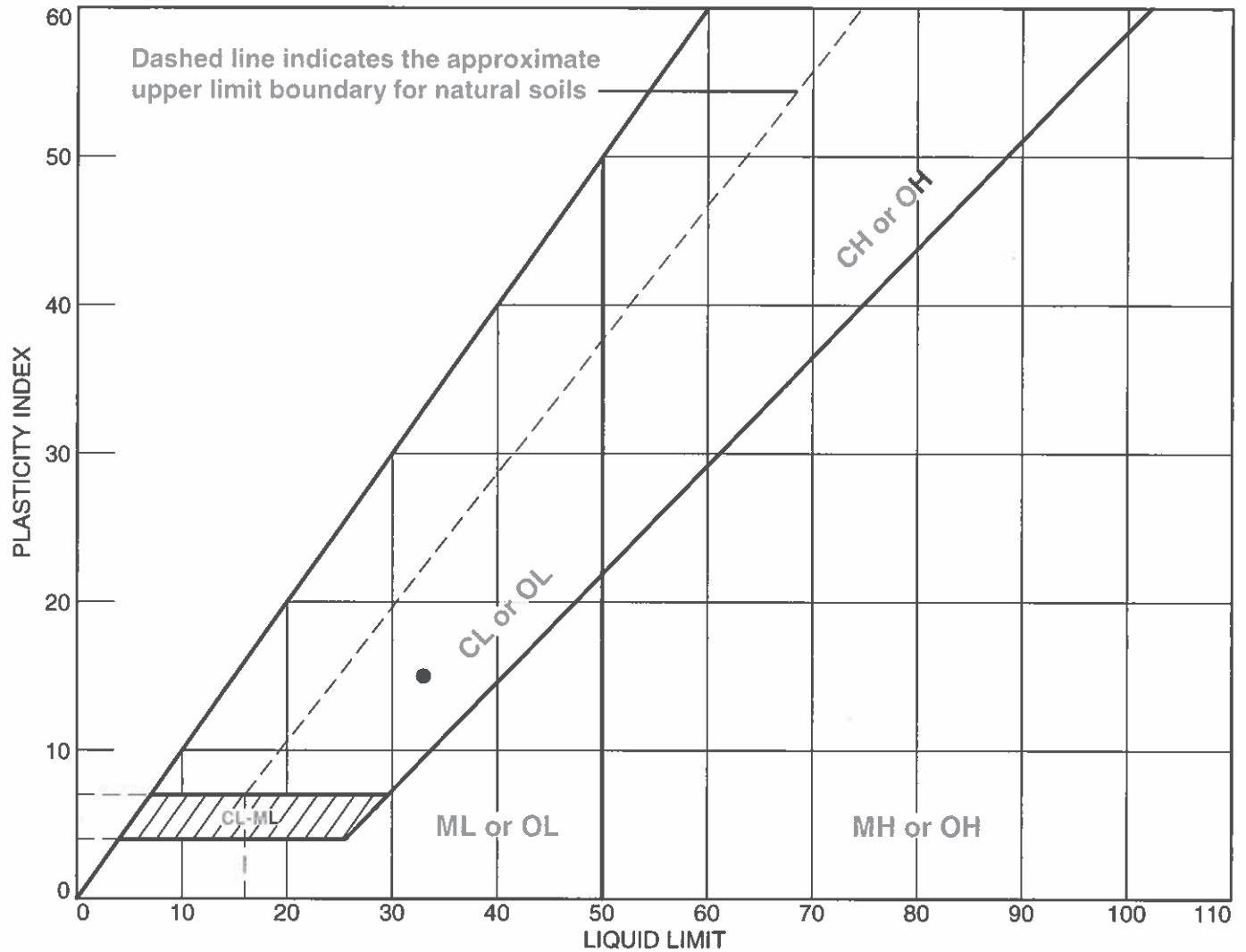
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-7 (11-13)	11.0'-13.0'	32.1	18	33	15	CL

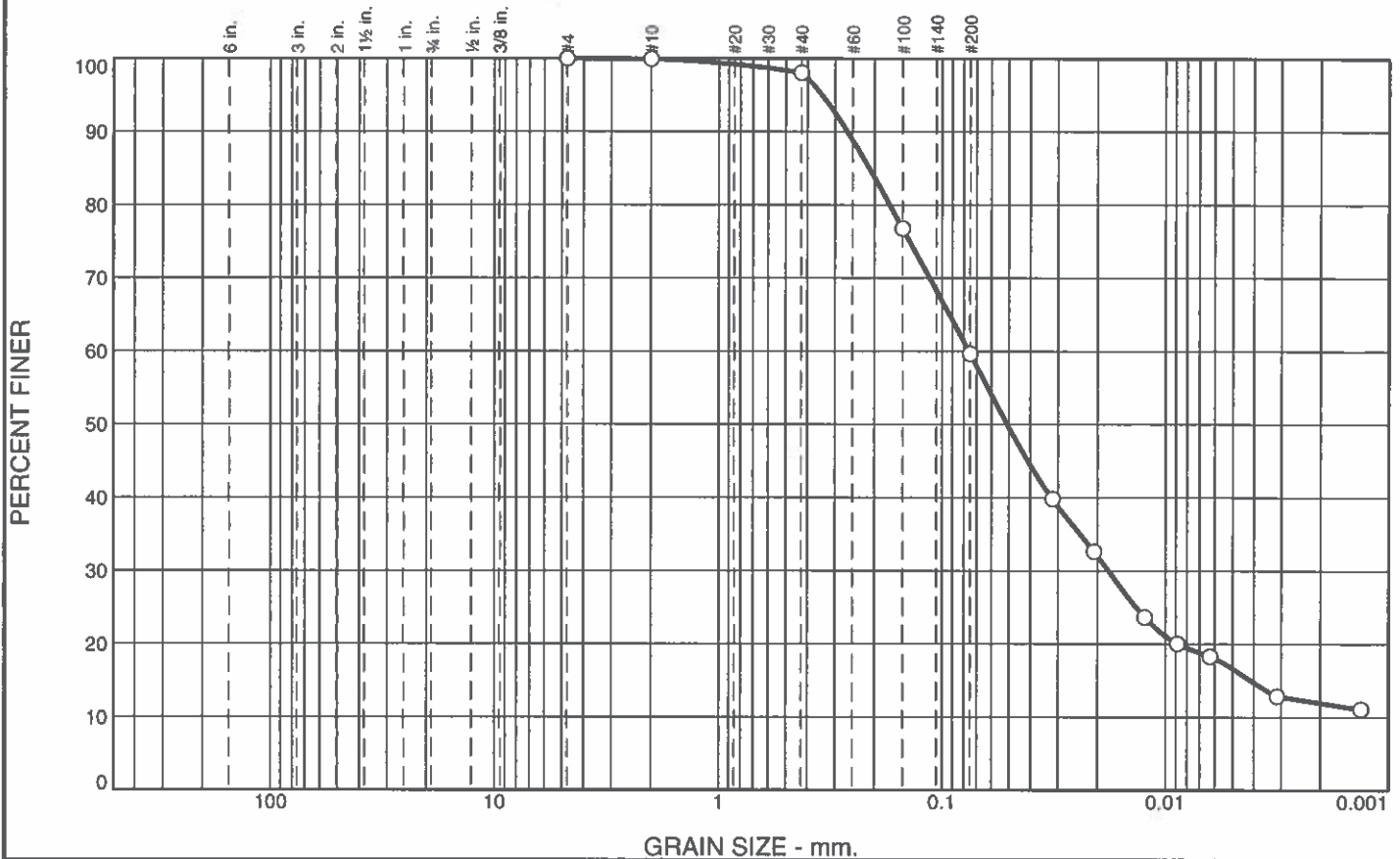
Tetra Tech
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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	1.9	38.4	43.1	16.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	98.1		
#100	76.8		
#200	59.7		

(no specification provided)

Material Description

SANDY SILT, brown

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients
D₉₀= 0.2642 D₈₅= 0.2109 D₆₀= 0.0760
D₅₀= 0.0509 D₃₀= 0.0179 D₁₅= 0.0041
D₁₀= C_u= C_c=

Classification
USCS= ML AASHTO= A-4(0)

Remarks
Munsell Color Code: 7.5YR 4/4
Location: Test Pit #8

Source of Sample: TP-Test Pits
Sample Number: TP-8 (1-4)

Depth: 1.0'-4.0'

Date: 11/29/2022

Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

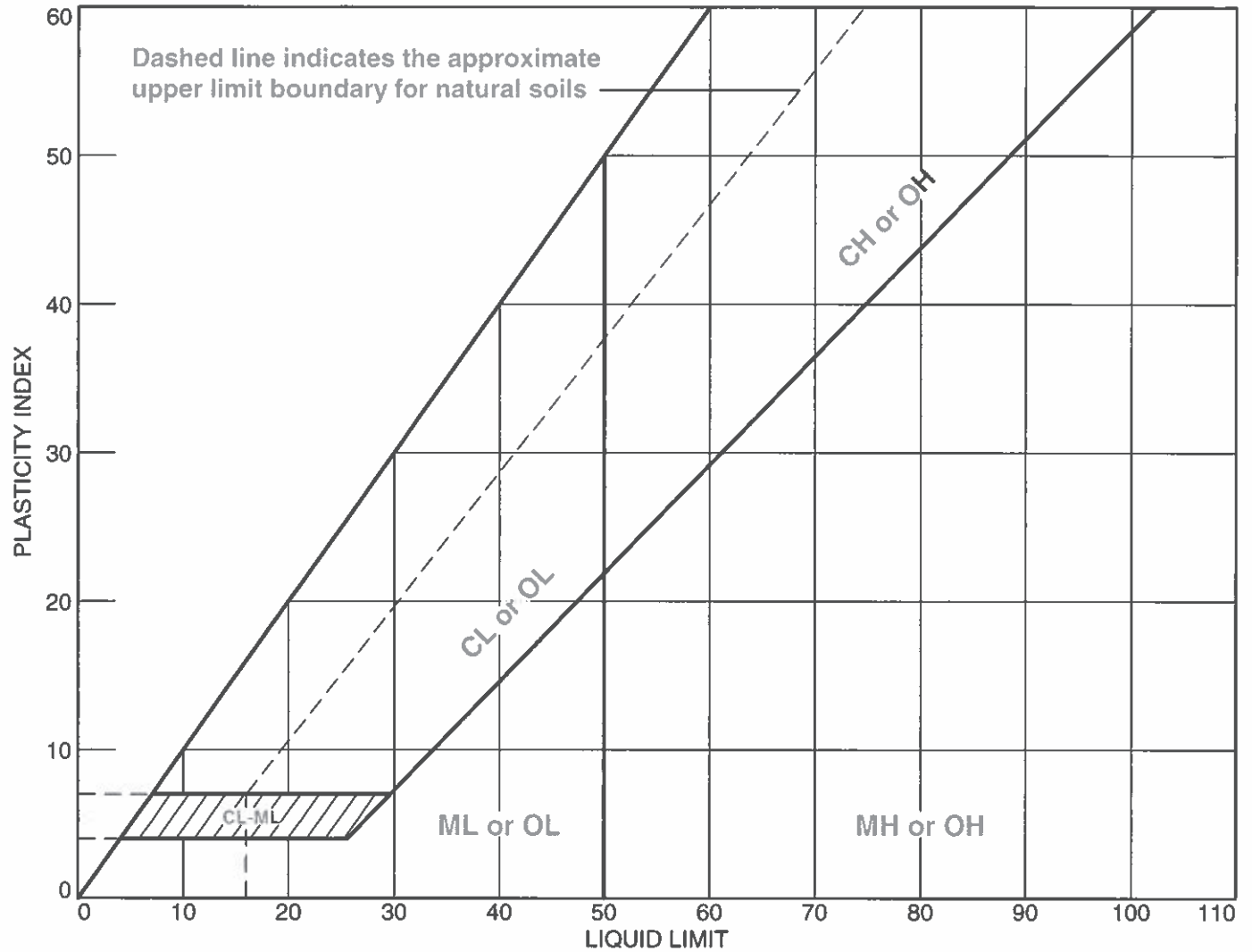
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



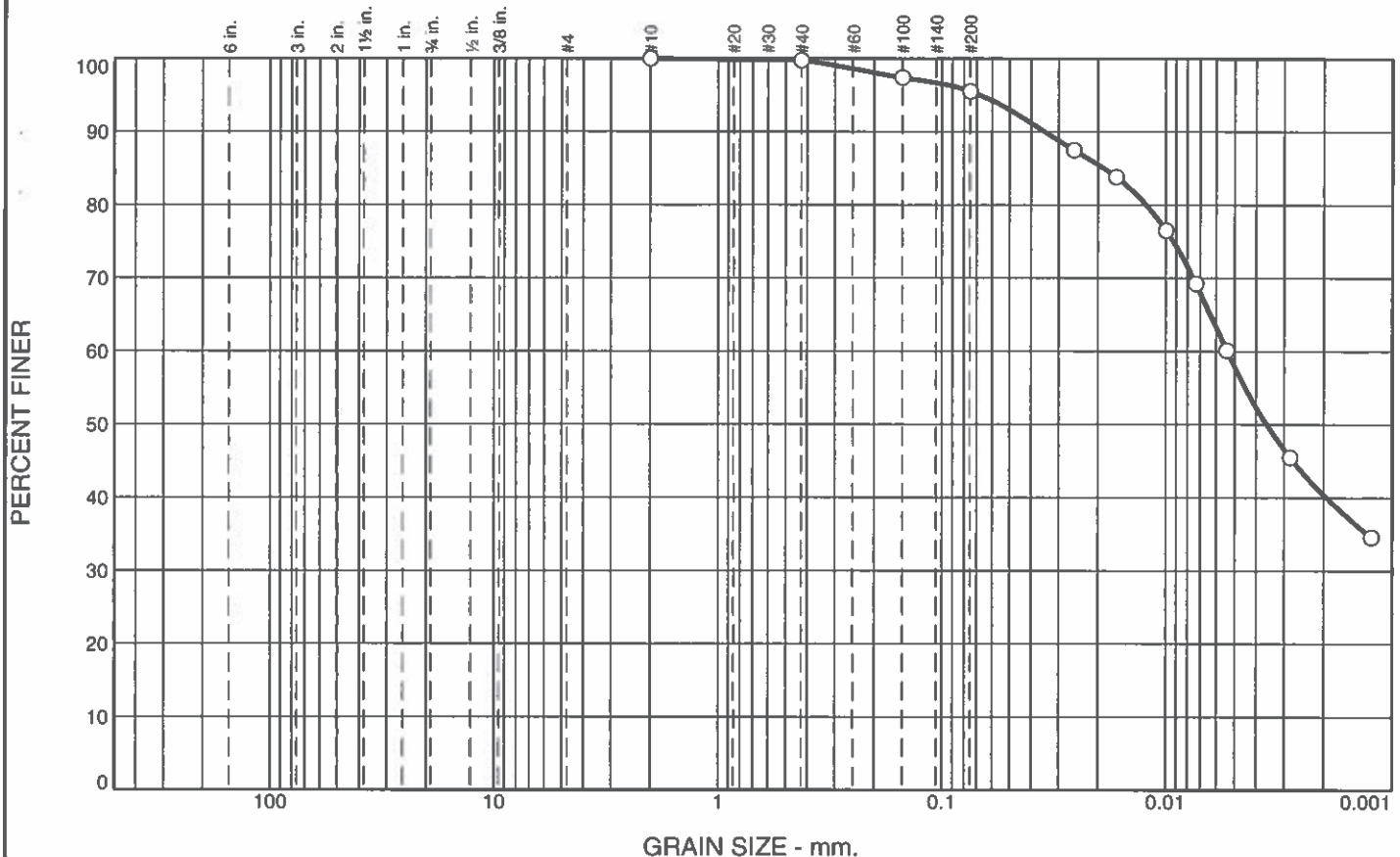
SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-8 (1-4)	1.0'-4.0'	19.4	NP	NV	NP	ML

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Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN **Checked By:** JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.2	4.3	37.6	57.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.8		
#100	97.4		
#200	95.5		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 20 LL= 39 PI= 19

Coefficients

D₉₀= 0.0348 D₈₅= 0.0188 D₆₀= 0.0054
D₅₀= 0.0036 D₃₀= C_u= D₁₅=
D₁₀= C_c=

Classification

USCS= CL AASHTO= A-6(19)

Remarks

Munsell Color Code: 5YR 4/3
Location: Test Pit #8

Source of Sample: TP-Test Pits
Sample Number: TP-8 (11-13)

Depth: 11.0'-13.0'

Date: 11/29/2022

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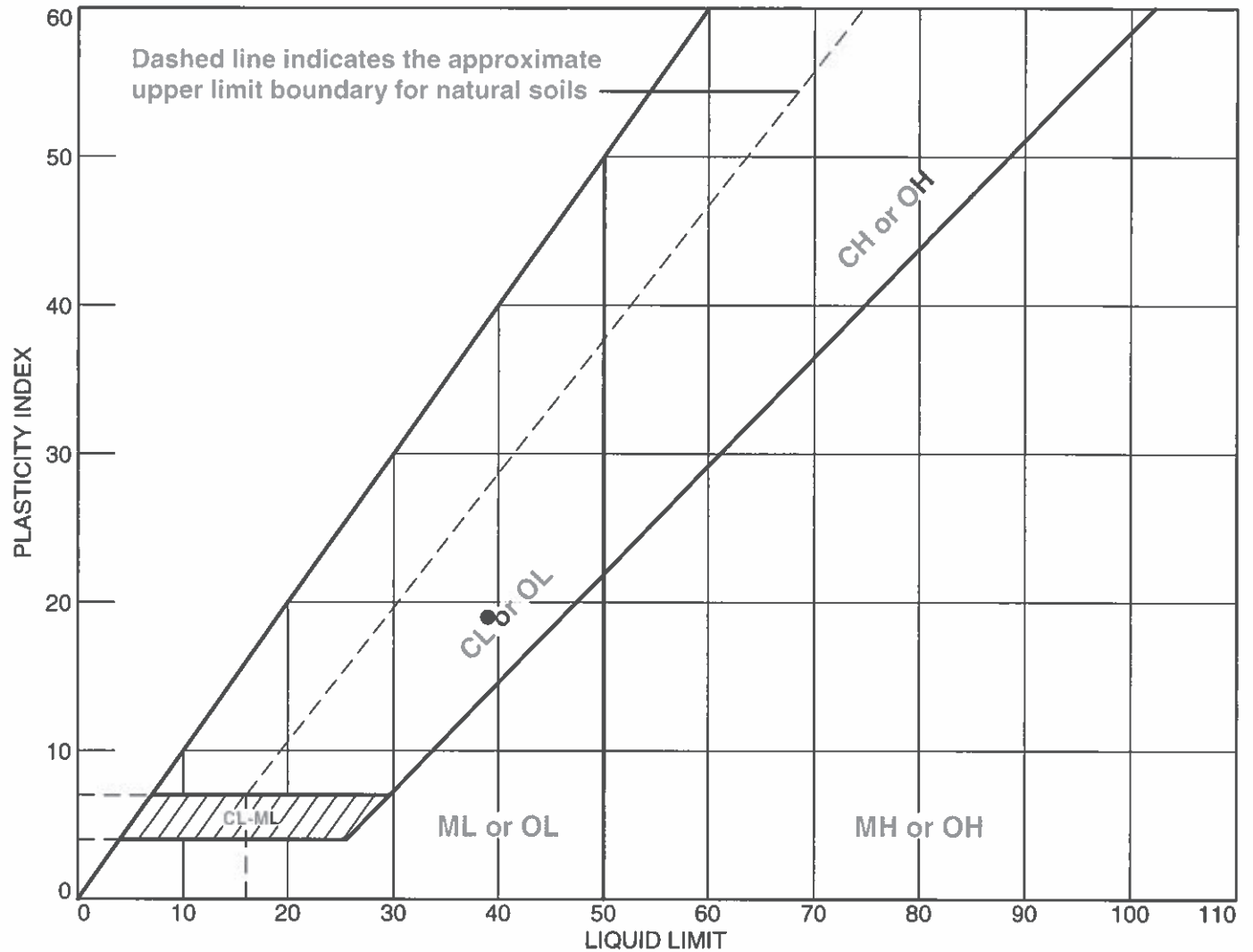
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-Test Pits	TP-8 (11-13)	11.0'-13.0'	48.2	20	39	19	CL

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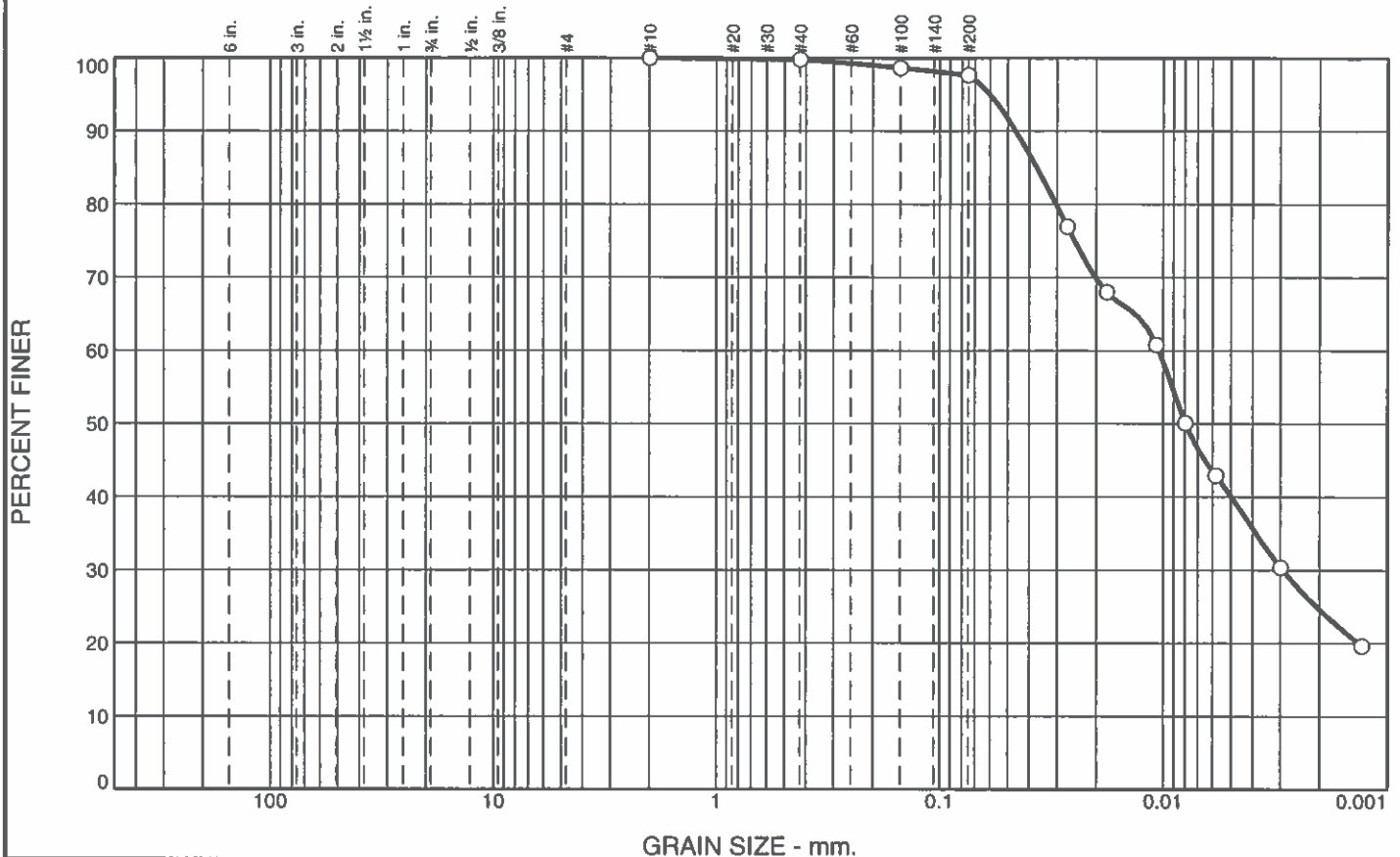
Project No.:

Figure

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.2	2.1	57.6	40.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.8		
#100	98.7		
#200	97.7		

* (no specification provided)

Material Description

LEAN CLAY, reddish gray

Atterberg Limits

PL= 17 LL= 28 PI= 11

Coefficients

D₉₀= 0.0461 D₈₅= 0.0371 D₆₀= 0.0105
D₅₀= 0.0080 D₃₀= 0.0029 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(10)

Remarks

Munsell Color Code: 5YR 5/2
Location: Test Pit #9

Source of Sample: TP-Test Pits
Sample Number: TP-9 (10-12)

Depth: 10.0'-12.0'

Date: 11/29/2022

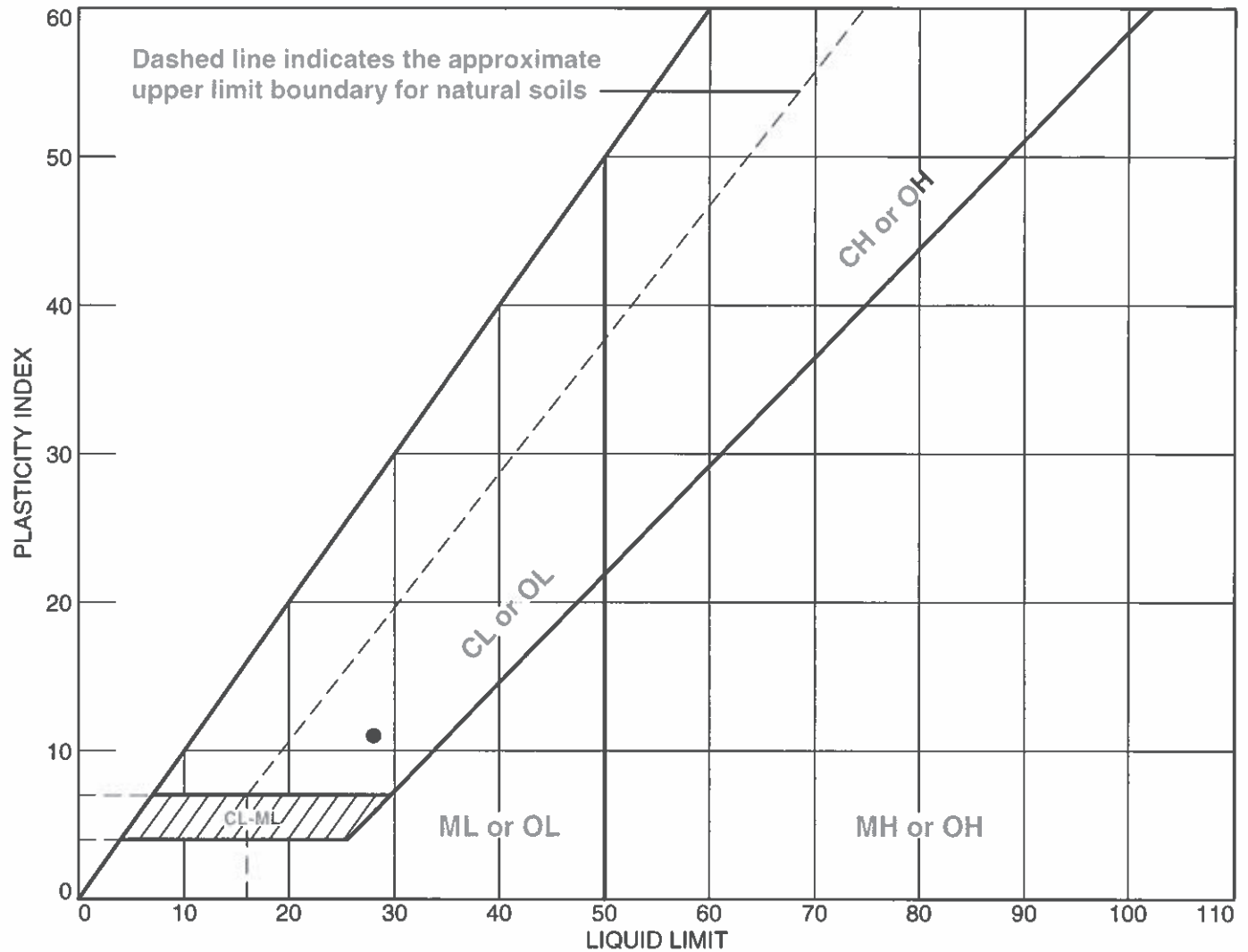
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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No: Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-9 (10-12)	10.0'-12.0'	28.3	17	28	11	CL

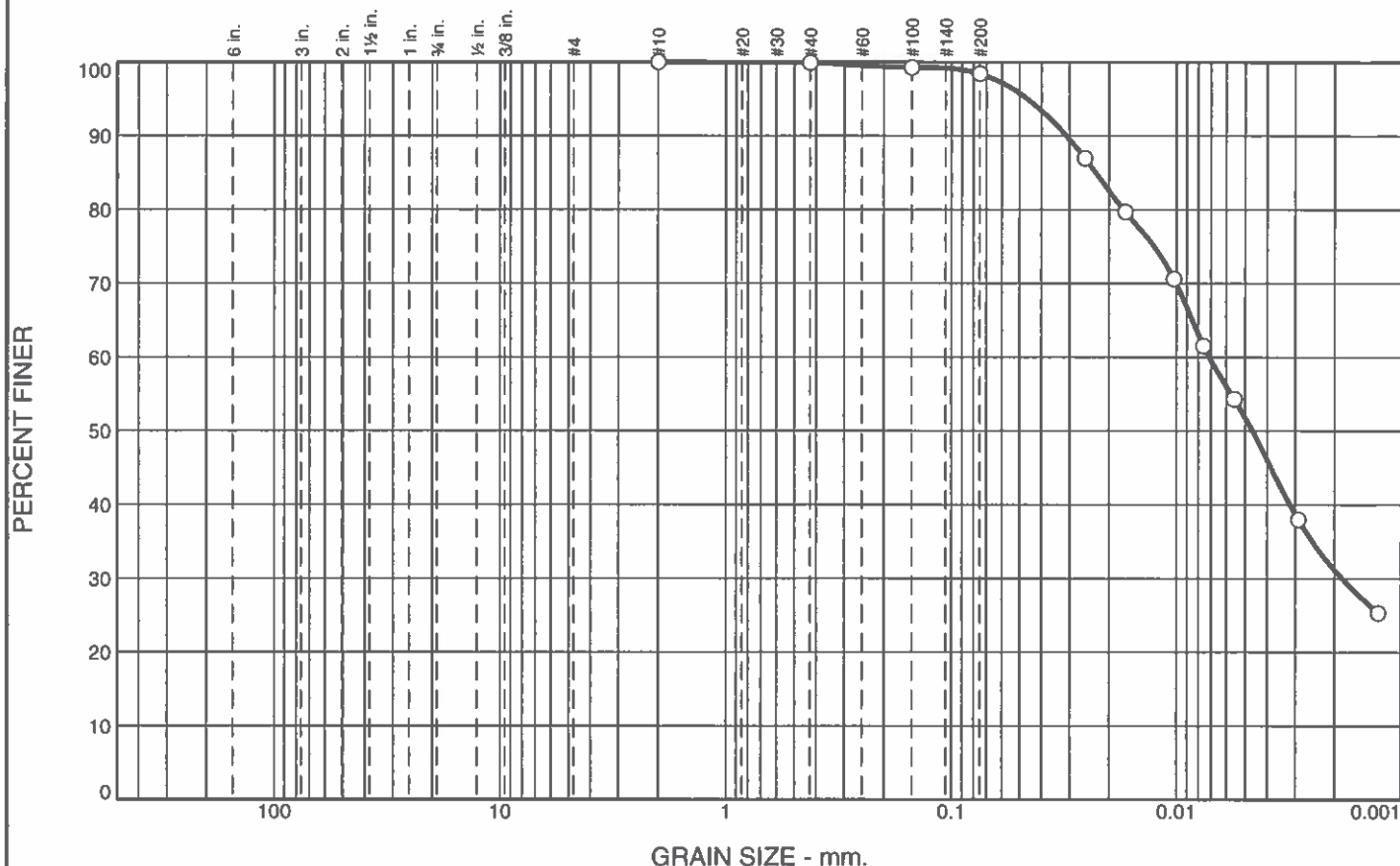
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	1.5	46.6	51.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.9		
#100	99.3		
#200	98.4		

* (no specification provided)

Material Description

LEAN CLAY, brown

PL= 17 Atterberg Limits LL= 31 PI= 14

Coefficients
D₉₀= 0.0310 D₈₅= 0.0230 D₆₀= 0.0072
D₅₀= 0.0047 D₃₀= 0.0018 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-6(13)

Remarks
Munsell Color Code: 7.5YR 5/3
Location: Test Pit #9

Source of Sample: TP-Test Pits
Sample Number: TP-9 (13-14)

Depth: 13.0'-14.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

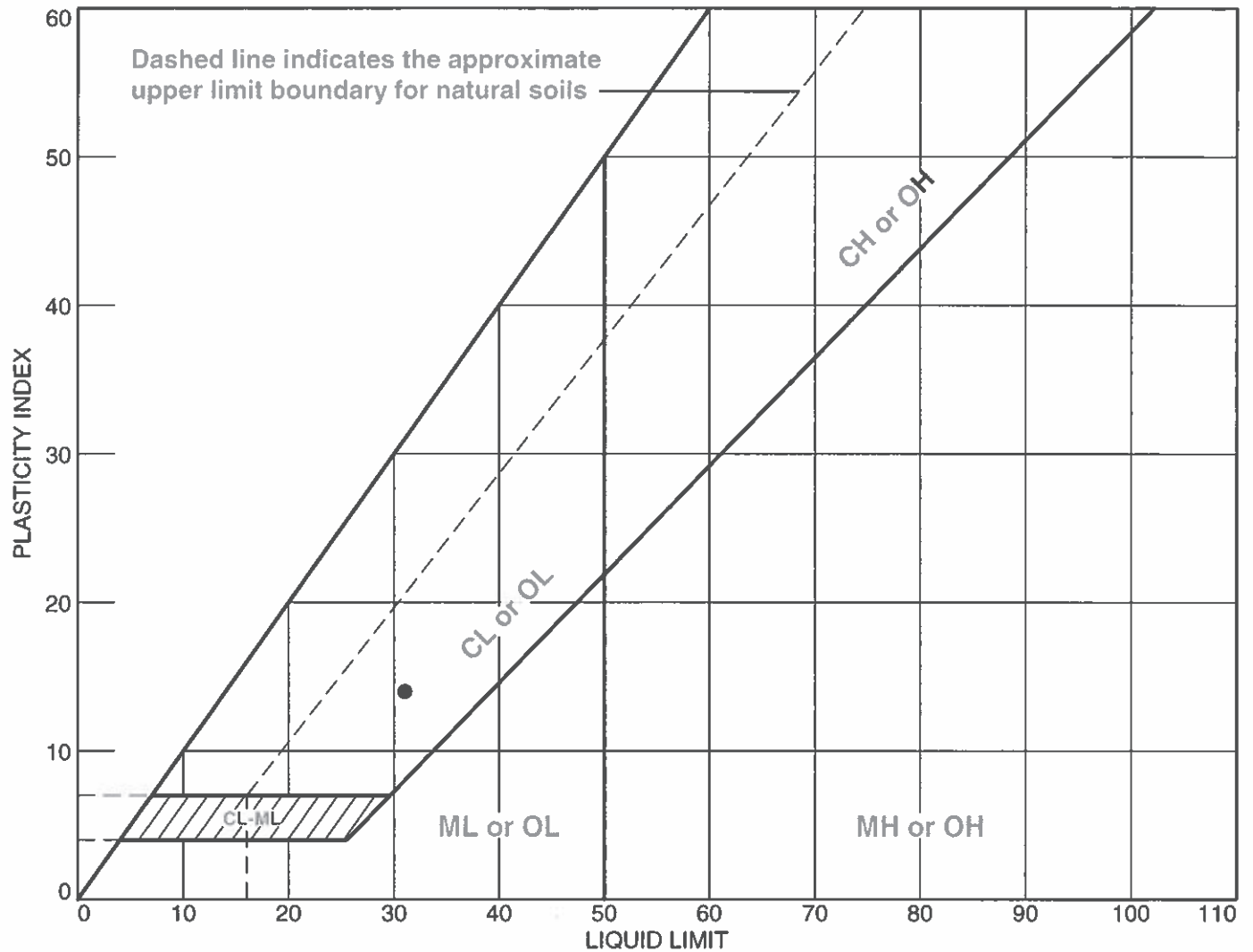
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-9 (13-14)	13.0'-14.0'	27.9	17	31	14	CL

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Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

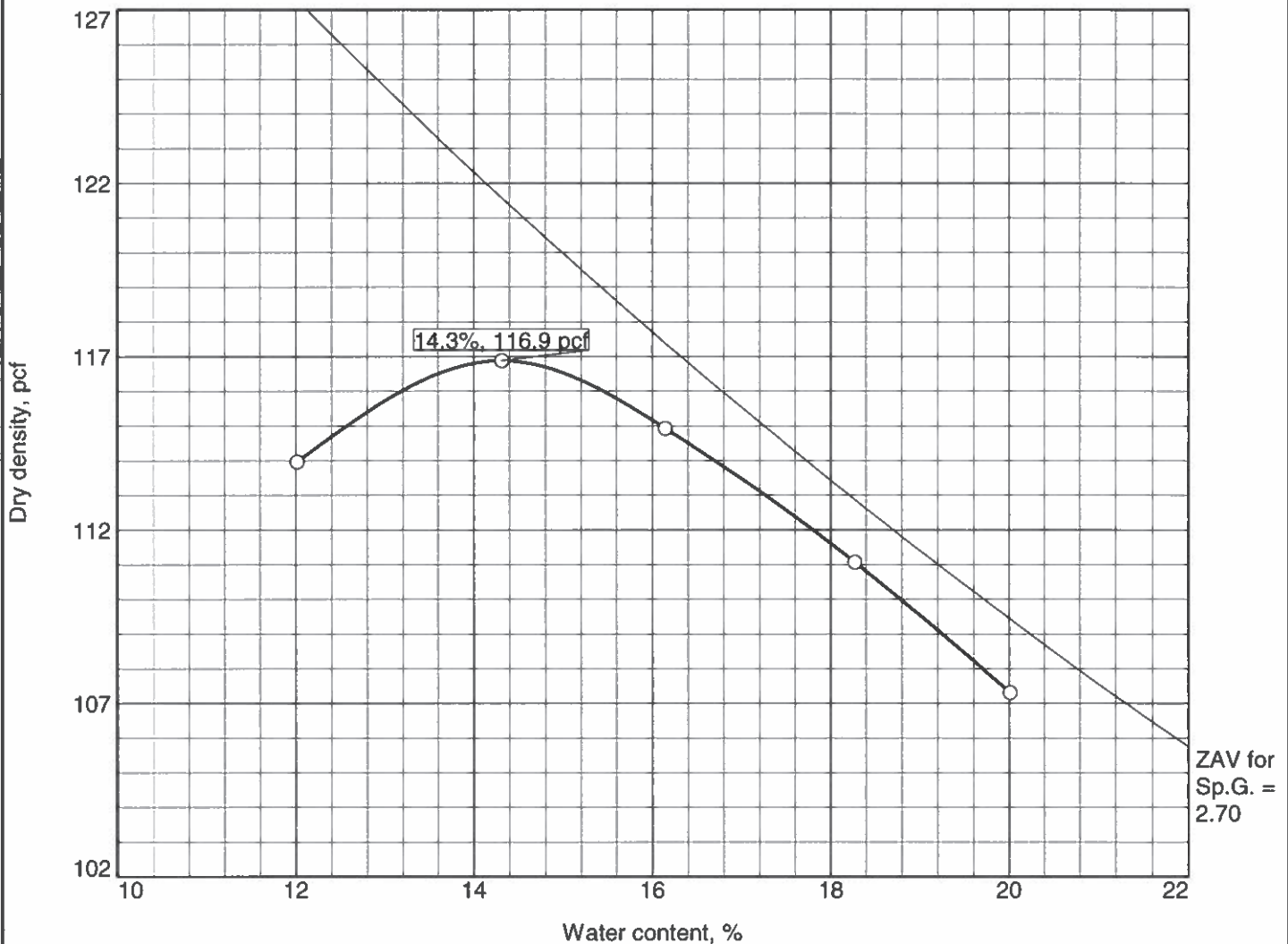
Project No.:

Figure

Tested By: JJN

Checked By: JJN

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method A Modified

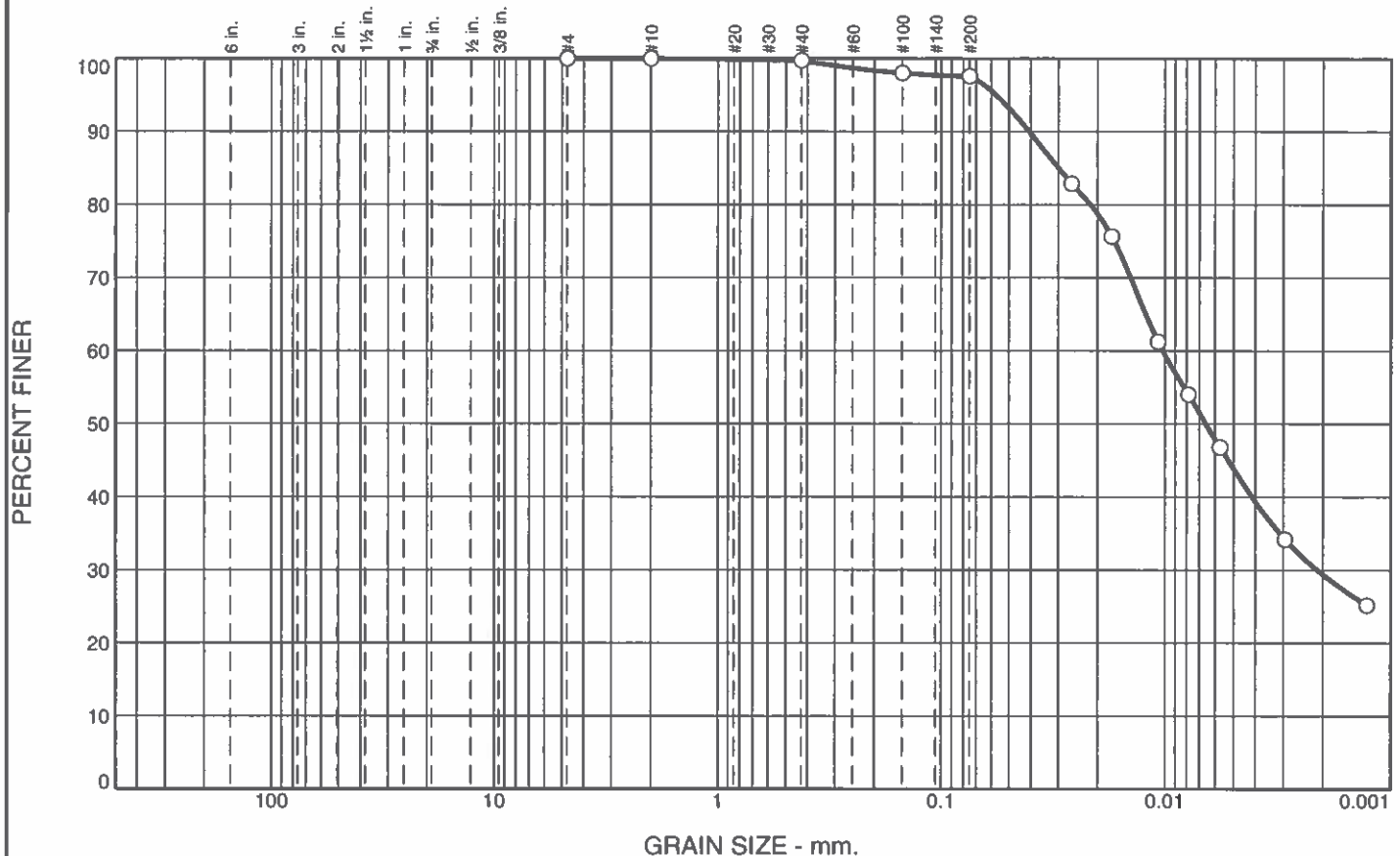
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
13.0'-14.0'	CL	A-6(13)	27.9	2.70	31	14	0.0	98.4

TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 116.9 pcf		LEAN CLAY, brown
Optimum moisture = 14.3 %		
Project No. Client: Ayres Associates Project: Adams County Landfill North Borrow Area East Expansion		Remarks:
○ Source of Sample: TP-Test Pits Sample Number: TP-9 (13-14)		
Tetra Tech 2679 Continental Drive Green Bay, WI 54311		
		Figure

Figure

Tested By: MRG Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	2.1	53.8	43.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#40	99.7		
#100	98.0		
#200	97.6		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

PL= 21 Atterberg Limits LL= 31 PI= 10

Coefficients
D₉₀= 0.0407 D₈₅= 0.0301 D₆₀= 0.0102
D₅₀= 0.0066 D₃₀= 0.0021 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-4(10)

Remarks
Munsell Color Code: 5YR 4/3
Location: Test Pit #10

Source of Sample: TP-Test Pits
Sample Number: TP-10 (10-12)

Depth: 10.0'-12.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

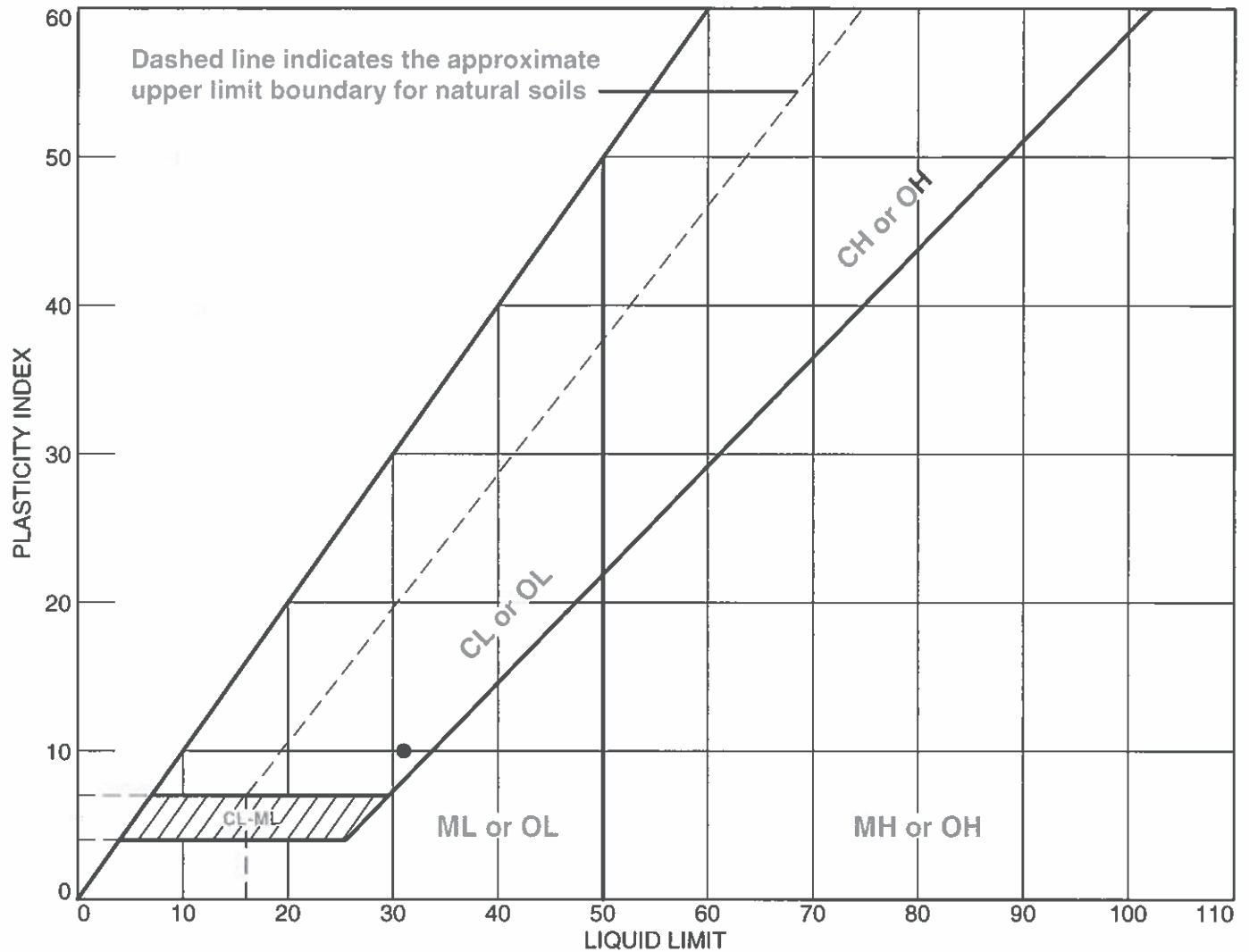
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-10 (10-12)	10.0'-12.0'	43.4	21	31	10	CL

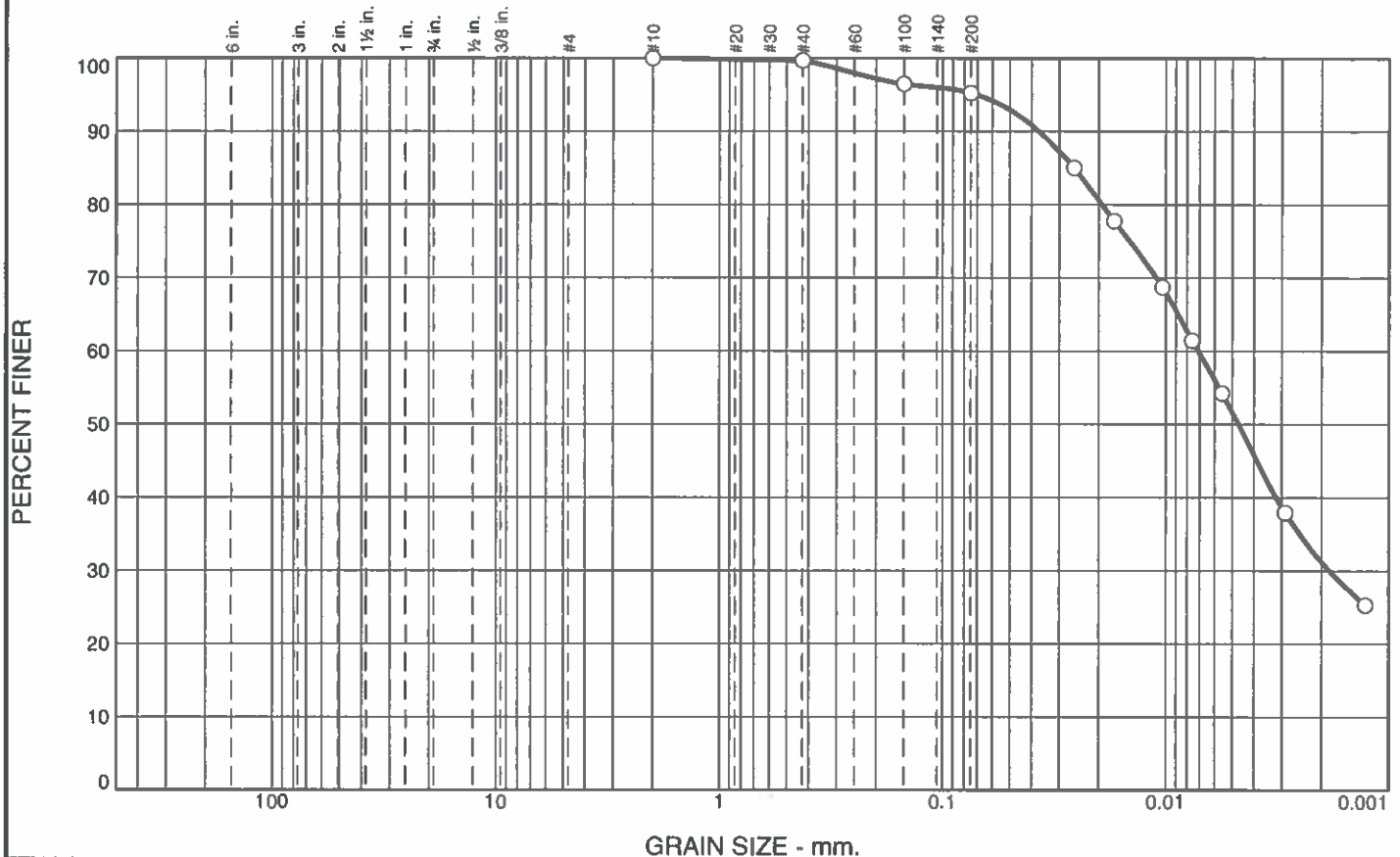
Tetra Tech
2679 Continental Drive
Green Bay, WI 54311

Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion
Project No.: _____ **Figure**

Tested By: JJN

Checked By: JJN

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	4.4	43.7	51.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#40	99.7		
#100	96.5		
#200	95.3		

* (no specification provided)

Material Description

LEAN CLAY, reddish brown

Atterberg Limits

PL= 18 LL= 32 PI= 14

Coefficients

D₉₀= 0.0372 D₈₅= 0.0259 D₆₀= 0.0071
D₅₀= 0.0047 D₃₀= 0.0018 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(13)

Remarks

Munsell Color Code: 5YR 5/3
Location: Test Pit #10

Source of Sample: TP-Test Pits
Sample Number: TP-10 (14-15)

Depth: 14.0'-15.0'

Date: 11/29/2022

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Client: Ayres Associates
Project: Adams County Landfill North Borrow Area East Expansion

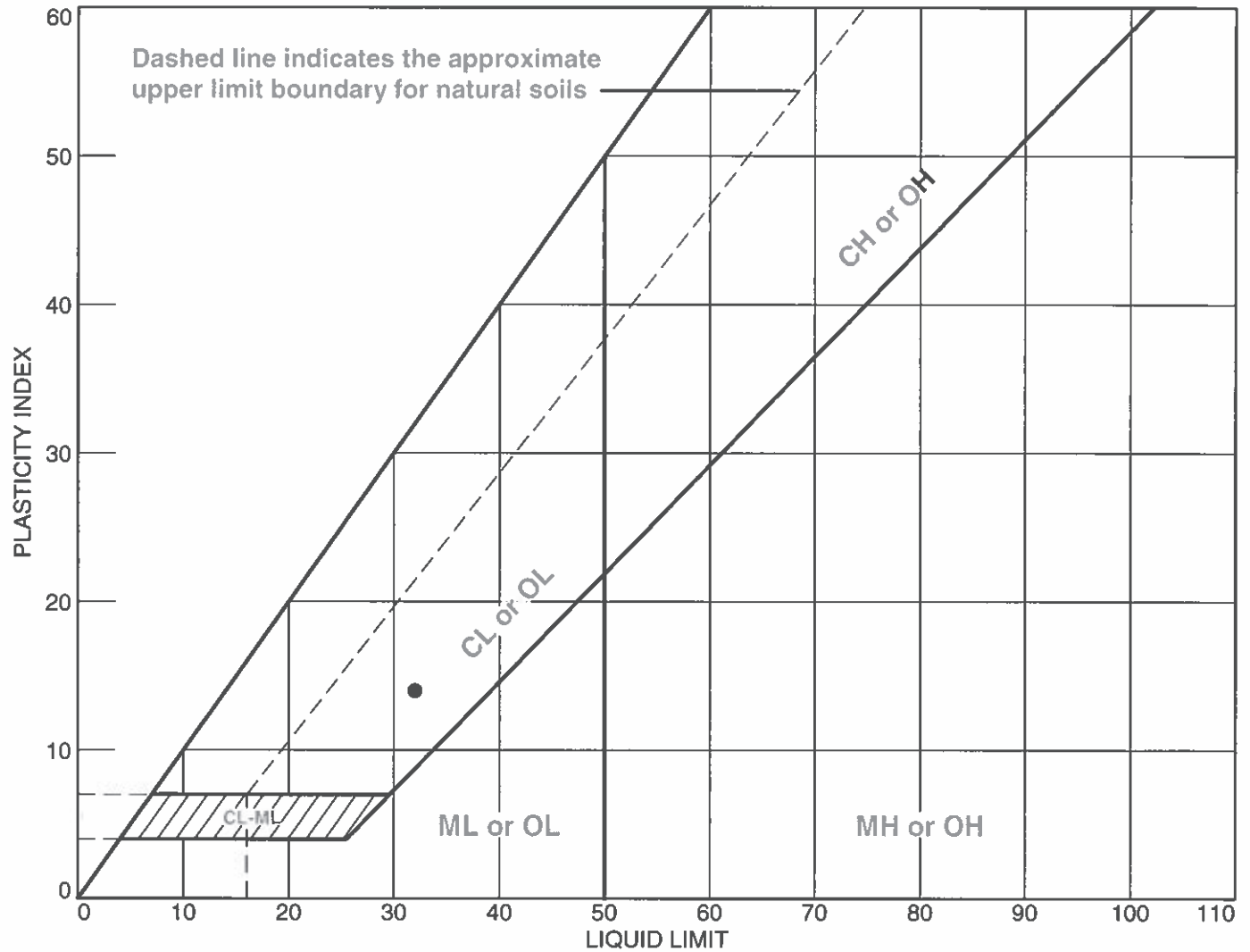
Project No:

Figure

Tested By: MAB

Checked By: JJN

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-Test Pits	TP-10 (14-15)	14.0'-15.0'	30.4	18	32	14	CL

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Green Bay, WI 54311

Client: Ayres Associates

Project: Adams County Landfill North Borrow Area East Expansion

Project No.:

Figure

Tested By: JJN

Checked By: JJN