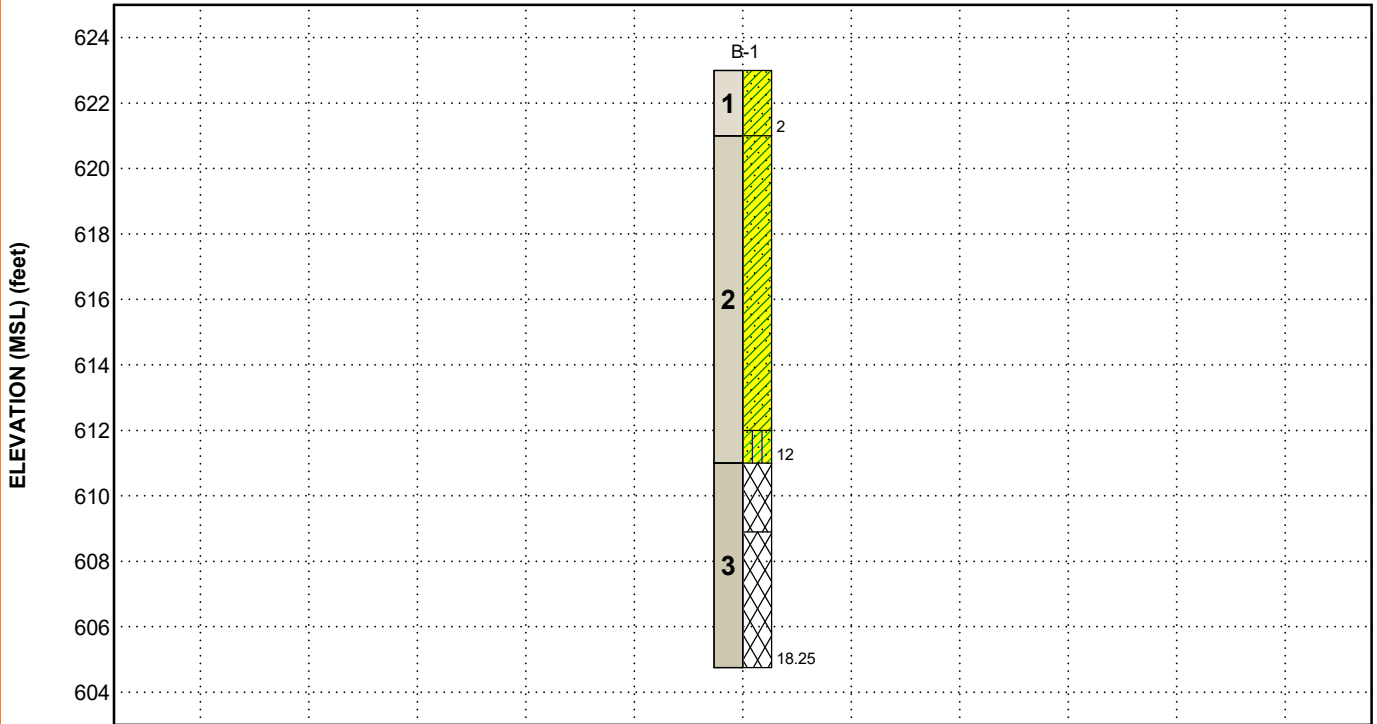


GEOMODEL

Meadowlands Basin Outlet Improvements ■ Eastlake, OH
 Terracon Project No. N6195183



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Upper Native Cohesive Soil	Sandy lean clay, stiff
2	Lower Native Cohesive Soil	Sandy lean clay and sandy silty clay, very stiff to hard
3	Bedrock	Shale, highly to completely weathered, extremely weak to very weak

LEGEND

- Sandy Lean Clay
- Sandy Silty Clay
- Highly Weathered Shale

NOTES:

Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

BORING LOG NO. B-1

PROJECT: Meadowlands Basin Outlet Improvements

CLIENT: CT Consultants, Inc.
Mentor, OH

SITE: Between E. 367th Street and Glenbrook Road
Eastlake, OH

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. N6195183 MEADOWLANDS BASIN.GPJ TERRACON_DATATEMPLATE.GDT 3/1/21

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 41.6372° Longitude: -81.4258° Approximate Surface Elev.: 623 (Ft.) +/- ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	WATER CONTENT (%)	ATTERBERG LIMITS	
										DEPTH	LL-PL-PI
1		SANDY LEAN CLAY (CL) , trace gravel, brownish gray, stiff, contains rootlets	2.0		20		3-5-5-9 N=10	2.25 (HP)	18.1		
2		SANDY LEAN CLAY (CL) , trace gravel, gray, very stiff	621+/-		22		4-6-6-7 N=12	4.5+ (HP)	11.8		
			5		24		5-6-6-7 N=12	4.5+ (HP)	11.8		
			10		24		6-7-9-10 N=16	4.5+ (HP)	12.0		25-16-9
			10		24		6-7-9-13 N=16	4.5+ (HP)	12.3		
			11.0		24		6-9-19-27 N=28		11.6		21-15-6
		SANDY SILTY CLAY (CL-ML) , trace gravel, gray, hard	12.0								
		SHALE , gray, completely weathered, extremely weak	611+/-		24		11-19-27-38 N=46		7.3		
			14.1		4		50/4"				
3		SHALE , gray, highly weathered, very weak	609+/-		5		50/5"				
			15								
			18.3		3		50/3"				
		Auger Refusal at 18.25 Feet	605+/-								

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3.25" I.D. Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

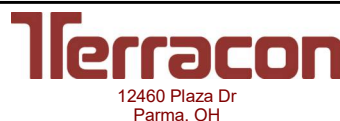
Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevation Estimated from Google Earth

WATER LEVEL OBSERVATIONS

Groundwater not encountered



Boring Started: 12-23-2020

Boring Completed: 12-23-2020

Drill Rig: D-50

Driller: J. Minchak

Project No.: N6195183

BORING LOG NO. B-2

PROJECT: Meadowlands Basin Outlet Improvements

**CLIENT: CT Consultants, Inc.
Mentor, OH**

**SITE: Between E. 367th Street and Glenbrook Road
Eastlake, OH**

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 41.6378° Longitude: -81.4263°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	LABORATORY HP (tsf)	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI
		DEPTH	ELEVATION (Ft.)							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).

Notes:

Abandonment Method:

See [Supporting Information](#) for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS



Boring Started:

Boring Completed:

Drill Rig: D-50

Driller: J. Minchak

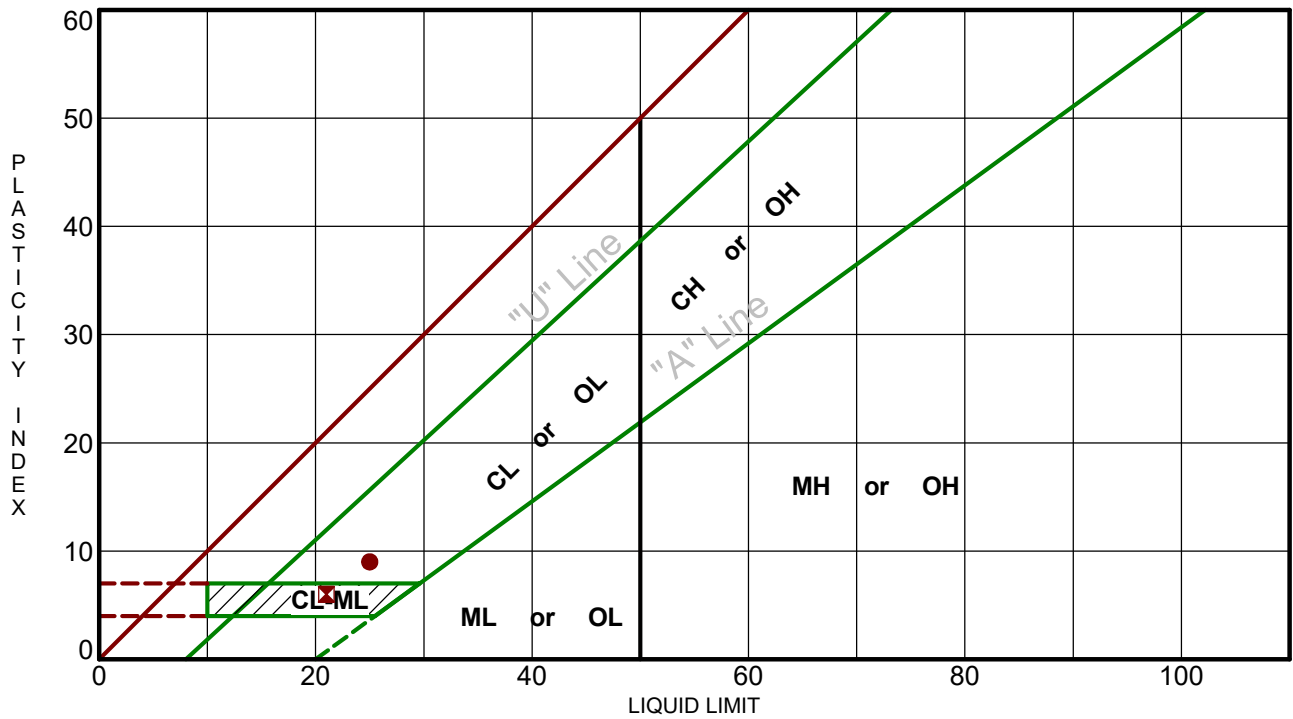
Project No.: N6195183

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_N6195183 MEADOWLANDS BASIN.GPJ TERRACON_DATATEMPLATE.GDT 3/1/21

ATTERBERG LIMITS RESULTS

ASTM D4318

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ATTERBERG LIMITS N6195183 MEADOWLANDS BASIN.GPJ TERRACON_DATATEMPLATE.GDT 3/1/21

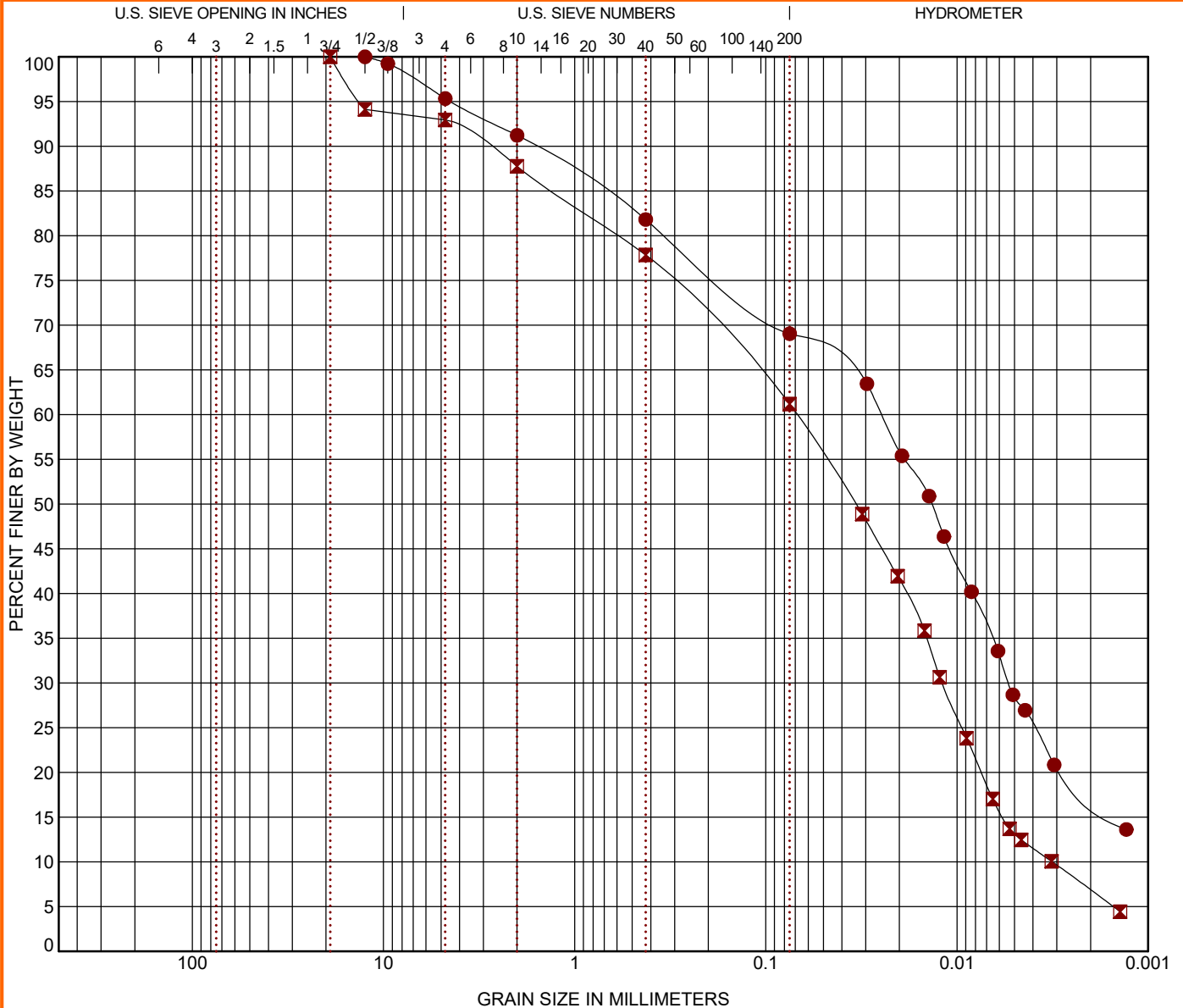


Boring ID	Depth	LL	PL	PI	Fines	USCS	Description
● B-1	6 - 8	25	16	9	69.0	CL	SANDY LEAN CLAY
■ B-1	10 - 12	21	15	6	61.2	CL-ML	SANDY SILTY CLAY

PROJECT: Meadowlands Basin Outlet Improvements	 12460 Plaza Dr Parma, OH	PROJECT NUMBER: N6195183
SITE: Between E. 367th Street and Glenbrook Road Eastlake, OH		CLIENT: CT Consultants, Inc. Mentor, OH

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification	WC (%)	LL	PL	PI	Cc	Cu
● B-1	6 - 8	SANDY LEAN CLAY (CL)	12.0	25	16	9		
■ B-1	10 - 12	SANDY SILTY CLAY (CL-ML)	11.6	21	15	6	0.65	21.74

Boring ID	Depth	D ₉₀	D ₅₀	D ₃₀	D ₁₀	%Gravel	%Sand	%Silt	%Fines	%Clay
● B-1	6 - 8	1.637	0.014	0.005		4.7	26.3	40.6		28.4
■ B-1	10 - 12	2.905	0.034	0.012	0.003	7.1	31.8	48.0		13.2

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE USCS-2_SCOUR_N6195183_MEADOWLANDS BASIN.GPJ_TERRACON_DATATEMPLATE.GDT 3/1/21

PROJECT: Meadowlands Basin Outlet Improvements SITE: Between E. 367th Street and Glenbrook Road Eastlake, OH	12460 Plaza Dr Parma, OH	PROJECT NUMBER: N6195183 CLIENT: CT Consultants, Inc. Mentor, OH
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